



42A08NW8814 63.3096 HISLOP

010

Report on W. T. Birch farm, Ramore
January 15, 1935

CONCLUSION: The only promising showing obtained, that on #4 vein, is not sufficient to warrant additional work.

The values are too erratic and local to justify additional expenditure.

The probability that the vein will pinch out down the dip when it encounters the adjacent diabase dyke is strong.

The maximum strike length possible for any ore zone is 1000', and is probably much less than this.

SUMMARY: The main ore chances on the property occur in a E. N.E. striking zone, maximum width--1000', following along the North contact of a large intrusion of syenite into Keewatin greenstones.

The ore possibilities in this zone are confined to North-South trending quartz veins associated with quartz diabase dykes. It is only in this zone that the veins are well developed. Southward into the syenite they become short and irregular--northward they feather out along weak shear zones.

Trenching and sampling of the various veins and shears yielded negative results except in Trench #4.

Here, while a few good assays were obtained, the values are too erratic and too local to warrant additional work. In addition, the dip of #4 vein will carry it up to the diabase dyke to the west at a relatively shallow depth. No veins were seen cutting any of the diabase dykes and it seems likely that #4 will pinch out when it reaches the dyke.

LOCATION: W. T. Birch farm, North Half, Lot 10, Concession I, Hisslop Township, Ontario.

STANDING: Patented farm lot, unencumbered--approximately 160 acres.

OWNERSHIP: Owned outright by W. T. Birch.

ACCESS: The property is reached by $4\frac{1}{2}$ miles of improved road and highway from Ramore station on the T. & N. O. Ry. Approximately $1\frac{1}{2}$ miles in a straight line over rolling sand plains to the T. & N. O.

HISTORY: The area was originally set aside by the government for farm land. Discovery of gold on the East side of the township in 1933 led to the rapid prospecting and optioning of most farm lots in the district. Birch lot optioned by Erie Canadian Lines, October 12, 1934, after negotiations by D. A. Campbell. Prospecting and trenching started immediately and continued to January 7, 1935.

Report on W. T. Birch Farm.

BUILDINGS, Etc.: The only buildings on the property are the farm house and two barns.

PREVIOUS WORK: No previous work of a mining nature has been done. Some 60% of the land is cleared.

TOPOGRAPHY: The lot is about 60% underlain by swamp and shallow glacial drift. One prominent ridge of rock, which contains the principal showings, occurs in the South-central part of the lot.

With the exception of wells, there is no nearby source of water.

The only timber available is small second-growth birch and poplar with occasional small spruce thickets in the swampy areas.

GEOLOGY: (a) General: The map accompanying this report shows the general rock distribution in the South-west corner of Hislop Township.

(i) Rock Distribution: The country is mostly underlain by Keewatin greenstone, generally of basaltic nature. Occasional brecciated flow tops were noted, though these textures were not common enough to offer a means of working out the attitude of the greenstone. The general trend of the greenstone flows seems to be about N 60° to 70° E.

Cutting the greenstone in the Southern part of the area is a mass of pink, medium-grained syenite, presumably of Algonian age. The contact of this syenite with the greenstone is extremely irregular, the syenite sending off many small shoots and dykes into the greenstone. In addition, in the neighborhood of the contact there are numerous small dykes of syenite and syenite-porphry, generally with an East-West trend, cutting the greenstone.

Cutting both greenstone and syenite are numerous large quartz diabase dykes. This diabase is in general porphyritic, containing large irregular greenish phenocrysts of feldspar. As this texture is common in dykes of Matachewan age, it is probable that these dykes belong to this period.

Cutting both greenstone and syenite, and associated with the above diabase dykes, are numerous quartz veins. The age relation of these veins to the diabase is not known, but they are probably slightly younger.

(ii) Structure: The only structures investigated were main fracture zones in the area. These fracture zones are of at least two ages. An earlier group, which consists of weak shear zones striking N 65° E and dipping steeply South-East, occurs throughout the greenstones. This is well developed on the Smith and Heavens farms, and extends Westward into Bowman Township. A later group, which contains three main sets, occurs cutting both greenstones and syenite.

Set 1. This set occurs in the west part of the area, strike approximately N 20° W, and dips steeply both ways.

Report on W. T. Birch Farm.

Set 2. This set occurs in the East-West Central part of the area; strike approximately N 45° E, and dips steeply both ways.

Set 3. This is the most prominent set. It occurs chiefly near the eastern edge of the area, on the Birch and East Weir properties. The strike is from N 10° to 20° E, and the dips range from 60° E to vertical. Along all these later fracture directions, the quartz diabase dykes and associated quartz veins have been intruded.

(b) Birch Lot. (The various geologic features are shown on the accompanying outcrop sketch map.)

(i) Rock distribution: The main syenite-quartz contact referred to above angles across the South-East corner of the lot with a general strike of N 65° E. Through here, the syenite intrusion has followed in a general way, the older N 65° E shearing in the greenstone mentioned above.

Cutting the syenite and greenstone are several persistent dykes of quartz diabase. These dykes are from 30' to 60' wide and spaced from 200' to 250' apart. They obviously follow the N 10° E set of fractures mentioned above. Their dip, if any, is steeply to the East as nearly as could be determined.

Paralleling the dykes and probably associated with them, are numerous quartz veins of various widths.

(ii) Structures: The only structures studied were the strong, North-South fractures, controlling the diabase and quartz dykes mentioned above. These fractures are old faults, as small displacements were observed across several of the diabase dykes.

The fractures are strongest and best developed in the brittle syenite and nearby greenstone, and, as they penetrate the tougher and less brittle greenstones, away from the syenite contact, begin to feather out into weak shear zones.

(iii) Veins: As mentioned above, numerous quartz veins occur paralleling the diabase dykes, and probably following fracture zones.

These veins are of varying widths, the majority being from 2" to 5" across and occur principally in the greenstones near the main syenite contact.

On tracing these veins southward into the syenite, they become mere narrow pods of quartz strung along irregular zones. Northward along strike they pinch out as the old fractures begin to feather. On this basis there is a zone along the syenite-greenstone contact, approximately 1000' wide, wherein sizeable veins may be expected.

The veins are from 50' to 60' apart and in general too small and poorly mineralized to be of interest. Two, however, are wide enough to warrant considerable work. They are shown at 3 and 4 on the outcrop map.

Report on W. T. Birch Farm.

No. 3 is from 3' to 6' wide, of massive milky quartz, sparsely mineralized by pyrite and galena. It strikes N 10° E and dip from 60° to 70° E.

No. 4 is from 10" to 24" wide and was apparently intruded along a pre-existing syenite-porphry dyke. It strikes N 12° E, dips approximately 70° W and is fairly well mineralized by pyrite and galena, with minor amounts of magnetite and sphalerite.

Nos. 1 and 15 are also worthy of note, although they are poorly mineralized. No. 1 strikes N 20° E, dip 90° and is from 8" to 10" wide. No. 15 strikes N 20° E, dip approximately 70° E, and is from 10" to 14" wide.

(iv) Mineralization: The veins and the rock along their contacts have been slightly fractured, and along these fractures, mineralization has been introduced. This mineralization consists principally of fine and coarse pyrite and galena. There are also minor amounts of magnetite and sphalerite. What gold there is is apparently with the fine pyrite.

DEVELOPMENT: The ground was first thoroughly prospected. All quartz veins above a few inches were noted. Trenches Nos. 1, 2, 3 and 4 were then started on the best showings. When these showings had been stripped and blasted to solid fresh rock, they were channel sampled across the strike at from 5' to 10' intervals, depending on the mineralization.

Picket lines were run North along the strike of Nos. 2, 3, and 4 to the North side of the swamp. Here shallow trenching and stripping revealed several weak shear zones on the continuations of the above veins. These trenches are shown at 7, 8, 10, 11, 12, 13, and 14.

In addition to those already so located, 3A and 17 were dug to show up the syenite-greenstone contact.

One of the smaller quartz veins was trenched at 6 to investigate possible values.

Persistent heavy quartz float, just off the West end of the South outcrop indicated a possible quartz vein. Trench 15 was successful in picking up this vein.

A zone of persistent narrow quartz streaks was investigated in trench 5. This zone strikes approximately N 45° E.

SAMPLING: All samples were channel samples, and were taken by V. Jordan. Assayed by Sylvanite Gold Lines. Values at \$20.67.

All trenches were sampled at either 5' or 10' intervals, as indicated above.

RESULTS: The results of the sampling are shown on the accompanying assay plans. For location of the various trenches, see "Outcrop Sketch Map."

Report on W. T. Birch Farm.

With the exception of the North end of Trench #4, and one \$2.80 assay in Trench 12, all assays were \$0.80 or less, with over 95% Trace.

The first sampling of Trench #4 showed a small lense of ore near the North end of the trench, 23' long, 57" wide at the middle, and tapering to zero at either end. Average value: \$7.27.

Reblasting and check sampling over this same area, showed the same ore lense, 16' long and 76" wide in the centre, and averaging \$13.75.

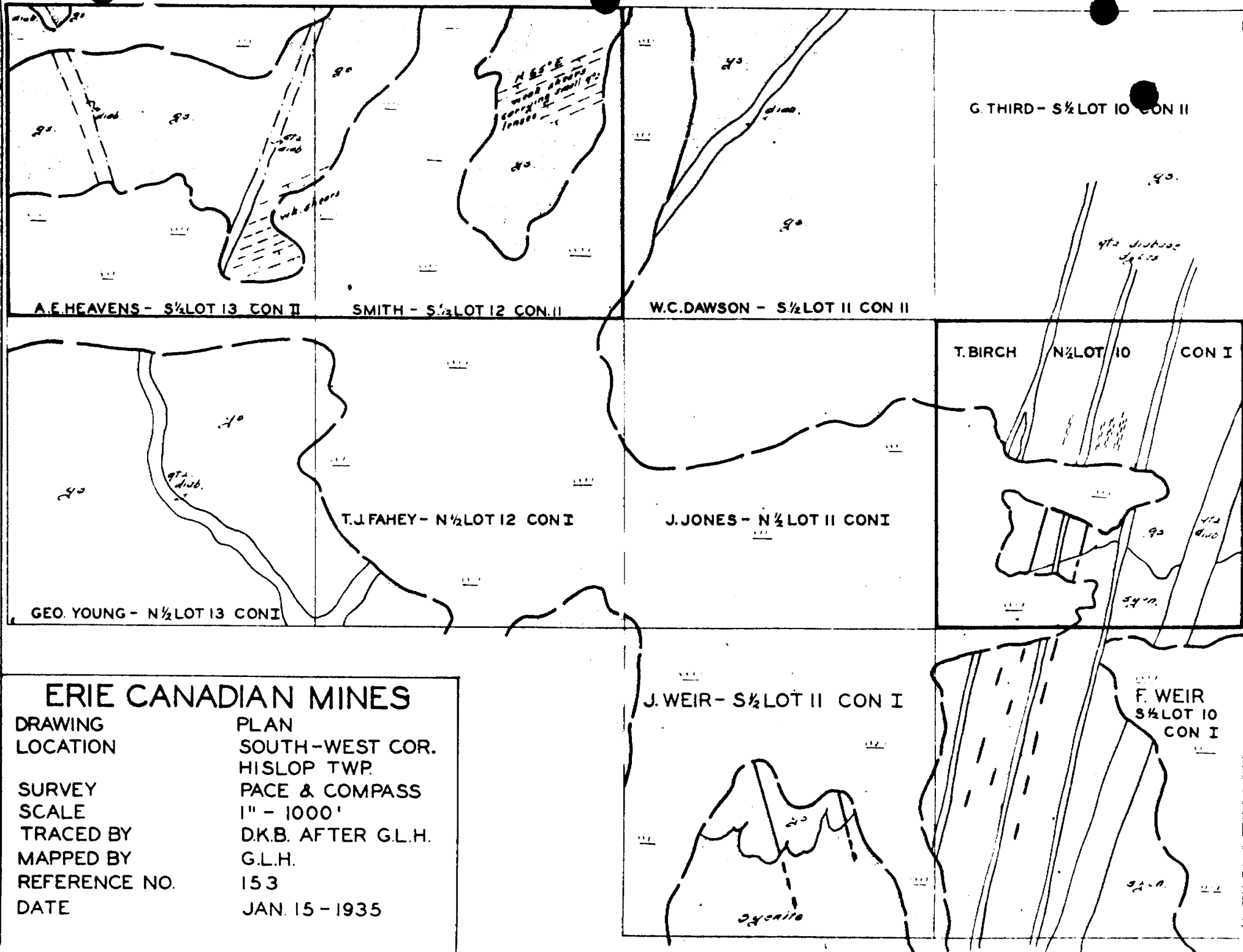
The north part of Trench 4 was then re-drilled and blasted to a depth of from 2' to 6'. This was then sampled. Except for four scattered assays from \$1.60 to \$3.60, there were no results which showed over \$0.80 and the great majority ran trace.

G. L. Holbrooke

G. L. Holbrooke.

Maps Accompanying this report:

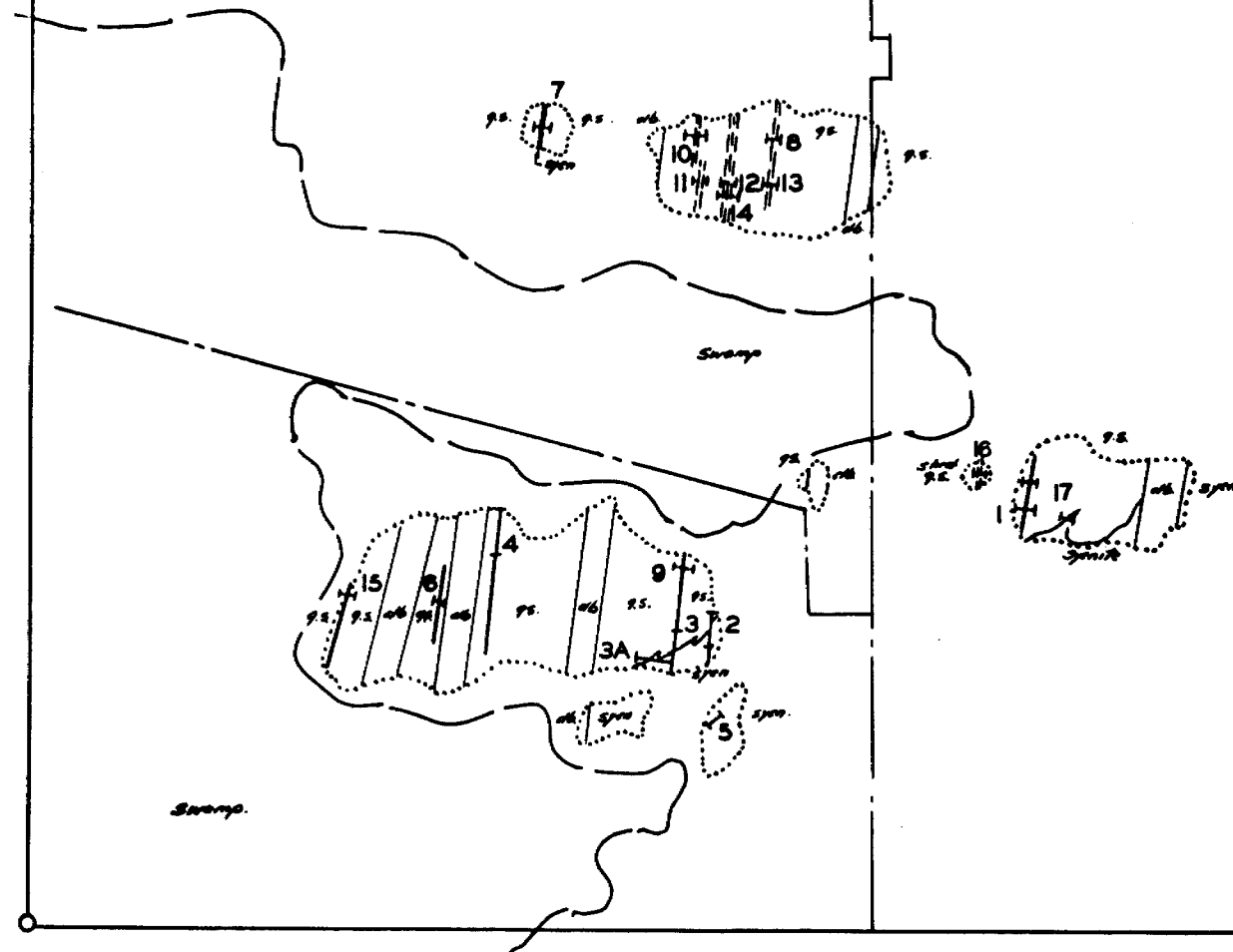
- (i) Sketch plan--South-west corner Hislop Township.
- (ii) Outcrop sketch map--Birch Lot.
- (iii) Sampling plan--Trenches 1, 2, 3, 3A, and 5.
- (iv) Sampling plan--Trenches 4, 6, 7, 8, 9, 10, 11, 12, 13, 14.
- (v) Sampling plan--Trenches 15, 16, 17.
- (vi) Sampling plan showing original, check, and recheck samples on North end, Trench #4.




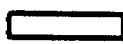
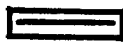



ERIE CANADIAN MINES

DRAWING	PLAN
LOCATION	SOUTH-WEST COR. HISLOP TWP.
SURVEY	PACE & COMPASS
SCALE	1" - 1000'
TRACED BY	D.K.B. AFTER G.L.H.
MAPPED BY	G.L.H.
REFERENCE NO.	153
DATE	JAN. 15 - 1935

*Pasture land and Ploughed fields
Glacial drift, mostly clay*



-  PROPERTY CORNER
-  GREENSTONE
-  SYENITE
-  DIABASE
-  QUARTZ VEINS
-  TRENCHES

ERIE CANADIAN MINES

DRAWING
LOCATION

PLAN
T. BIRCH FARM
HISLOP TWP.
N1/2 LOT 10 CON I
1" - 400'
COMPASS & PACE
V. JORDAN-D.C.-G.H.
G.L.H.
153

SCALE
SURVEY
MAPPED BY
DRAWN BY
REFERENCE NO.
DATE - JAN. 14 - 1935

✓

ERIE CANADIAN MINES LIMITED
(No Personal Liability)

BIRCH OPTION (Ramore)

November 10, 1934.

Of the three farm lots which we have under option in this district, only the BIRCH (N $\frac{1}{2}$, Lot 10, Con. I, Hislop Township) appears to be of any interest.

On this lot a large body of syenite intrudes Keewatin greenstones. Both are cut by several parallel diabase dykes, striking North 15° East. Parallelling these dykes, and probably associated with them, are numerous small quartz veins carrying pyrite and galena. Most of these veins are about three inches wide, and spaced some 50 or 60 feet apart. Two of these veins, however, were sufficiently wide to warrant considerable trenching; one, near the centre of the lot averages 4 $\frac{1}{2}$ feet wide, and is well mineralized. Where these veins cut the syenite, they become irregular and lose their mineralization.

Trenching is under way on this lot now, and the property should be ready for sampling.

November ?, 1934.

Birch Option: Trenching is being continued on this property. The results so far offer considerable encouragement in the way of mineralization and vein structure. Trenching on the North side of the swamp has uncovered a strong shear zone with quartz stringers, probably the northward continuation of Vein No. 1.

Veins Nos. 1 and 2 have been sampled, where stripped, at 10-foot intervals. The returns from this sampling should be in soon.

A payment of \$500.00 is due under this option on January 6, 1935.

November 15, 1934.

As noted in our letter of November 10, there are two main veins; an easterly one some five feet wide, and a westerly, averaging about one foot.

The east vein has been trenched over its entire length of outcrop to swamp at either end. This vein will be sampled shortly.

The west vein is now being stripped and is showing promising results in the way of mineralization. A picket-line has been run along the strike of this vein across a 200-foot swamp and we will attempt to locate this vein there by means of cross-trenching.

December 8, 1934.

Mr. Campbell and myself inspected this property on Wednesday, and I am afraid that it will go the way of the Smith and Heavens. The main showings already opened up have been sampled at 5 and 10-foot intervals, and the results are very poor. These returns will be sent to you as soon as the drawing is completed.

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Birch Option -----#2

The strong shear zone previously reported to be the northward extension of Vein No. 1, is not what I was led to believe. It is more aptly described as a weak jointing in the greenstone with two or three very narrow quartz veinlets striking along the joints.

Every possible quartz vein and syenite contact is now being stripped and sampled. The results of these will be in by December 14. Unless the results of this work shows a distinct improvement, I do not think that we will be justified in carrying this option after the next payment day on January 5.

December 8 - 21, 1934.

All trenches have been sampled on this property with the following results: All assays, except the last few, were uniformly low (80 cents or less). The final period of sampling indicated a small ore-shoot some 15 feet long, near the north end of the trench on No. 4 vein. One section ran approximately \$19.00 over 54". It is proposed to blast out the trench over this ore section to a further depth of about two feet and re-sample.

In addition to this, it is proposed to trench westward off the west end of the main outcrop. This trench is indicated by considerable heavy, well mineralized quartz floats.

In connection with the above, the following difficulty has arisen; The men have been living in a cabin on the Smith farm. Smith has now optioned his farm to other interests who require the use of this cabin. Consequently, there is no place in which the men can live, all other nearby places being in very poor repair. Therefore, the plan is to supply the men with tents on the Birch farm. Mr. Birch has sufficient lumber for flooring. This move was deemed advisable, due to the uncertainty of the amount of work required, this amount being entirely dependent on the results obtained from the re-sampling mentioned above.

Work is now stopped on this option and will be recommenced December 27, and continued until January 3. This should be sufficient to give us some idea as to the extent of the small ore-shoot mentioned above.

The first payment of \$500.00 is due under this option on January 6.

December 21 - January 5, 1935.

Work was recommenced on this property December 27, the men being housed in tents.

This work consisted of blasting out the trench on Vein No.4, referred to in the previous report. This blasting to solid involved considerably more work than was anticipated, the trench having to be deepened to six feet at several places. Due to this, the resampling is now only partially finished, and will not be completed for another week. The samples on the portion already resampled have gone in for assay this

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Birch Option -----#3

morning, and I expect the returns late this afternoon.

In connection with the additional time required to complete this work: Mr. Birch promised Campbell verbally, an extension of our first payment date. He also promised Campbell, who was in a hurry to catch his train, that he would confirm this in writing to Jordan, who is in charge there, that same evening, January 4. I should have a copy of this extension agreement here by Monday afternoon.

January 5 - 17, 1935.

The option on this property was dropped January 15, 1935. The possibility of finding anything more than small pods of commercial ore seemed too remote to warrant further expenditure on this property. (See report dated January 15.)

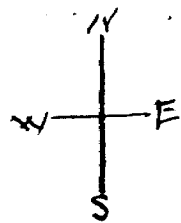
Assay Sheets

Jan. 5th, 1935:

Value per ton

	D.33364 - special E-C	Jordan	Tr.
	5		1.60
	6-7		.80
	68		.40
	69-70		Tr.
	71		1.60
	72		Tr.
	73		.80
	74		.40
	75-8		Tr.
	79		2.00
	80		.40
	81		Tr.
Jan. 10:	82-3		Tr.
	84		.40
	85		.40
	86-7		Tr.
	88		3.60
	89		1.20
	90		.80
	91		.40
	92		.80
	93-9		Tr.
Jan. 10	D.33400		Tr.
	01		.40
	02-10		Tr.
	11		.40
	12-3		Tr.
	14		.80
Jan. 11/35	33415-9		Tr.
	20		.80
	21		.40
	22		Tr.

BIRCH FARM
VEIN 4



SAMPLE
NO

33415 - 7 FT NORTH OF 33411

33415 - 46" FOOT WALL SYENITE IRON SULPHIDES W.M.

33416 - 60" W CENTRE SYENITE IRON SULPHIDES W.M.

33417 - 39" E. CENTRE SYENITE IRON GALENA W.M.

33418 - 24" HANGING WALL BASALT IRON SULPHIDES W.M.

5' N of 33415

33419 - 40" FOOT WALL SYENITE IRON SULPHIDES W.M.

33420 - 60" WEST CENTRE SYENITE IRON SULPHIDES W.M.

33421 - 44" EAST CENTRE SYENITE IRON GALENA W.M.

33422 - 20" HANGING WALL BASALT IRON SULPHIDES W.M.

J. Jordan

BIRCH FARM
VEIN 4

?

OLD NO	NEW NO
33351	33403
33352	33404
33353	33405
33354	33406
33355	33407
33356	33408
33357	33409
33358	33410

NEW SAMPLE 5 FT NORTH OF 33355

- 33411 - 38" FOOTWALL BASALT GRAY L.M.
- 33412 - 42" WEST CENTRE SYENITE GRAY SULPHIDES W.M.
- 33413 - 20" EAST CENTRE SYENITE GRAY GALENA W.M.
- 33414 - 20" HANGING WALL SYENITE GRAY GALENA W.M.

Re-sampling
VEIN 4

New
No. 33364
33365
33366
33060

33075 - 33071
33082 - 33078
33097 - 33093
33399 - 33347-50
402

Jordan

BIRCH FARM Dec 29/34
SAMPLE PLAN

33355 - 5 FT	33356 - 33357 - 33358
33351 10 FT	33352 - 33353 - 33354
33347 6 FT	33348 - 33349 - 33350
33343 5 FT	33344 - 33345 - 33346
33339 5 FT	33340 - 33341 - 33342
33060	

J. Jordan

DIRCH FARM
VIEW 4

SAMPLE
NO

33339 CHECK OF 33064
 33340 " " 33065
 33341 " " 33066
 33342 " " 33067
 33343 " " 33068
 33344 " " 33069
 33345 " " 33070
 33346 " " 33071

33347-39" FOOT WALL BASALT 9 ROW SULPHIDES J m.
 33348-43" CENTRE BASALT 9 ROW SULPHIDES J m.
 33349-36" CENTRE SYENITE 9 ROW GALENA W.M.
 33350-32" HANGING WALL BASALT QUARTZ STRS 9 ROW GALENA W.M.
 33351-32" FOOT WALL BASALT 9 ROW SULPHIDES J m.
 33352-33" CENTRE BASALT 9 ROW SULPHIDES W.M.
 33353-38" CENTRE SYENITE 9 ROW COPPER W.M.
 33354-22" HANGING WALL BASALT QUARTZ STRS 9 ROW W.M.
 33355-33" FOOT WALL BASALT 9 ROW SULPHIDES J m.
 33356-36" CENTRE BASALT QUARTZ STRS. 9 ROW J m.
 33357-42" CENTRE BASALT 9 ROW SULPHIDES J m.
 33358-21" HANGING WALL BASALT 9 ROW SULPHIDES J m.

BIRCH FARM.

~~1/2~~

T^o 15

SAMPLE
NO

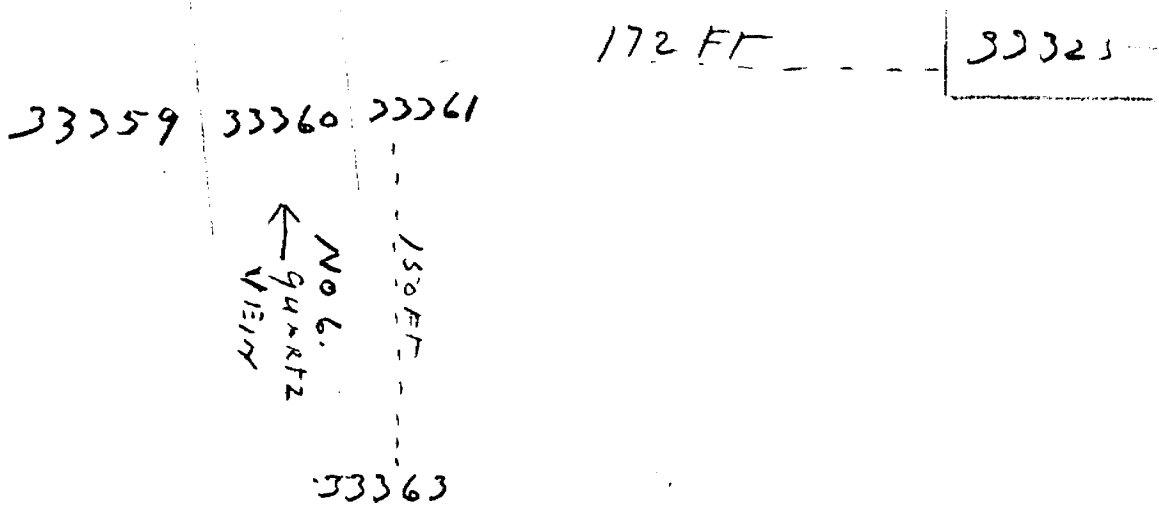
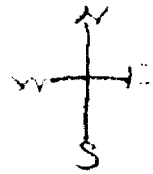
- 33359 - 19" FOOT WALL BASALT 9RON SULPHIDES 7m
33360 - 19" QUARTZ VEIN 9RON GALENA 2m.
33361 - 21" HANGING WALL BASALT 9RON 2m.

T^o 16

SHEAR ZONE 92 FT WEST OF 33334

33362 - 32" BASALT 9RON SULPHIDES 2m

33363 - GRAB. 150 FT SOUTH OF 33361



SYLVANITE GOLD MINES, LIMITED

E-c

ASSAY SHEET

From Jordan

Date Dec 21, 1934

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
33339	Special Jordan Au		2
40	-		1.20
41	-		4.00
42	-		.10
43	-		.8
44	-		1.20
45	-		58.00
46	-		1.20
47	-		.8
48	-		2
49	-		.10
50	-		2
51	-		2
52	-		2
53	-		2
54	-		2
55	-		2
56	-		2

Dec 21
 57
 58
 59
 60
 61
 62

[Signature]

Assayer
 2
 2
 40
 2
 2

BIRCH FARM

IN 2

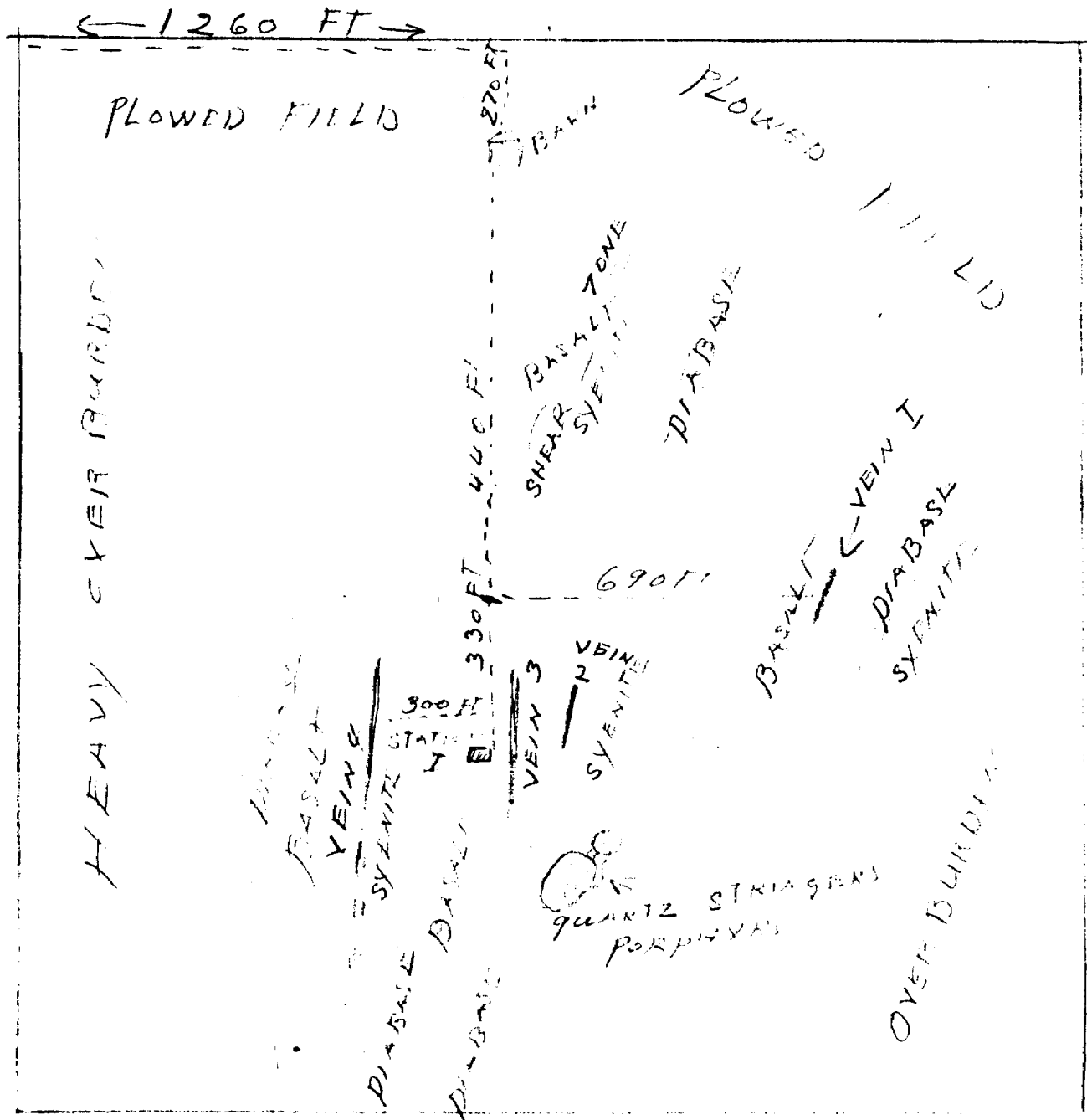
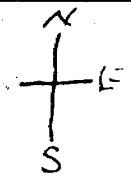
Sample
No.

33006	- 30 ft. east of Station I	
	27" Basalt Quartz stringers iron sulphides	L.M.
33007	43" Syenite iron sulphides	W.M.
33008	32" footwall syenite iron sulphides	L.M.
33009	15" quartz vein galena iron sulphides	W.M.
33010	36" Syenite hanging wall iron sulphides	L.M.
33011	6" quartz stringer Galena iron sulphides	L.M.
33012	50" Syenite iron sulphides	L.M.
33013	7" quartz stringer Galena	L.M.
33014	31" footwall syenite iron sulphides	L.M.
33015	48" quartz vein galena iron sulphides	W.M.
33016	44" footwall basalt iron sulphides	W.M.
33017	12" quartz vein Galena Iron Sulphides	W.M.
33018	36" Hanging wall basalt iron sulphides	L.M.
33019	36" Basalt iron sulphides	L.M.
33020	14" footwall basalt iron sulphides	L.M.
33021	15" quartz vein galena iron sulphides	W.M.
33022	20" hanging wall iron sulphides	W.M.
33023	38" Basalt iron sulphides	W.M.

"V. Jordan"

BIRCH FARM

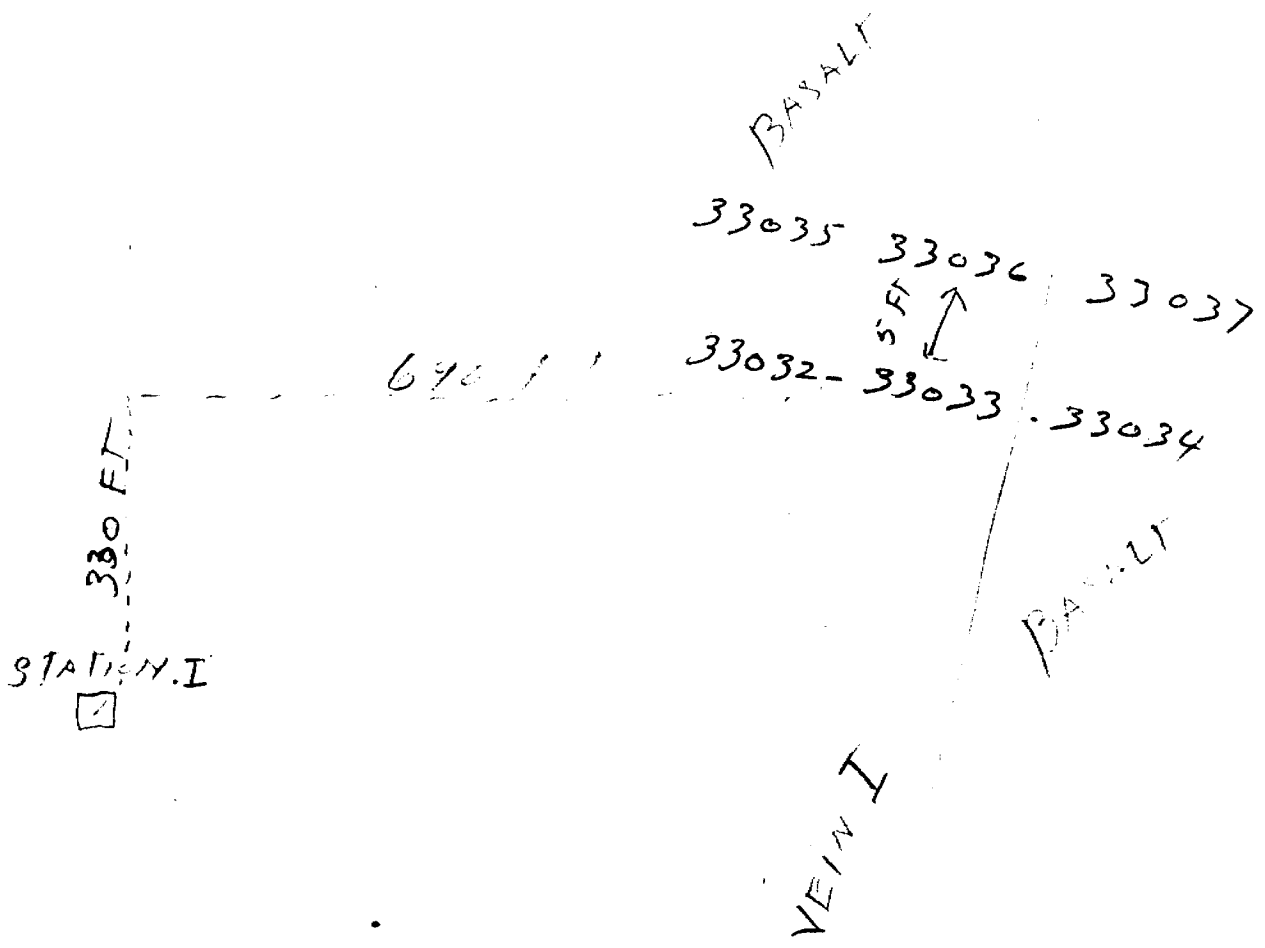
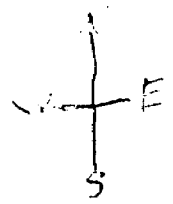
NORTH, 1/2 Lot 10. Con. 7 His Lot. Twp 3



STRIKE OF VEINS 30 NORTH OF EAST
DIP SOUTH

SAMPLE PLAN VEIN I

BIRCH FARM



STRIKE 30 NORTH OF EAST

DIP 85 SOUTH EAST

BIRCH FARM
VEIN I

SAMPLE
NO

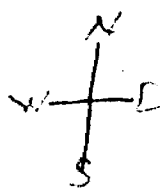
- 33032 - -330 FT NORTH 690 FT EAST OF
STATION I-82" FOOT WALL BASALT IRON SULPHIDES 2"
- 33033 - 16" QUARTZ VEIN GALENA IRON SULPHIDES
- 33034 - 16" HANGING WALL BASALT IRON SULPHIDES
- 33035 - 44" FOOT WALL BASALT IRON SULPHIDES
- 33036 - 34" QUARTZ VEIN GALENA IRON SULPHIDES 16"
- 33037 - 20" HANGING WALL BASALT IRON SULPHIDES

J. Nelson

SAMPLE PLAN BIRCH FARM

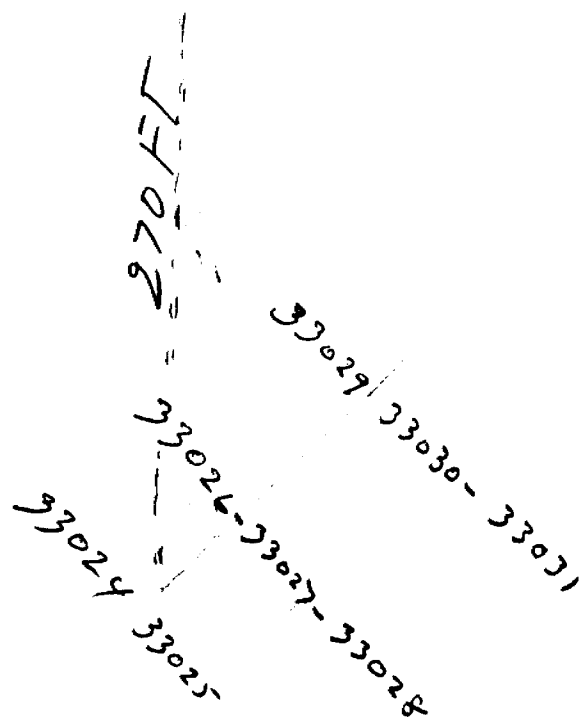
5

● TOCK WORK QUARTZ STRINGERS PORPHYRY
STRIKE N.E. S.W.



STATION I

I



Birch



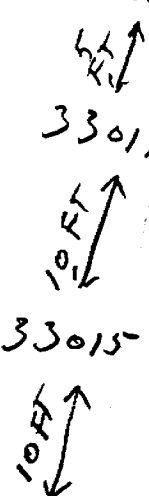
SAMPLE PLAN

VEIN 2

33019 - 33020 33021 33022 - 33023

33016 33017 33018

33014 33015



VEIN

STATION

I
□ -- 30 FT -- | 33006 - 33007 - 33008 33009 - 33010 - 33011 - 33012 - 33013

STRIKE 30 N. of E

DIP 85 South East

V. Jordan

BIRCH FARM

STOCKWORK QUARTZ STRINGERS PORPHYRY

SAMPLE
NO

33024-41"	PORPHYRY QUARTZ STR.	IRON SULPHIDES	L.M.
33025-38"	"	"	"
33026-39"	"	"	"
33027-20"	"	"	"
33028-54"	"	"	"
33029-36	QUARTZ	IRON SULPHIDES	L.M.
33030-48"	PORPHYRY QUARTZ STR	IRON GALENA	L.M.
33031-38"	"	GALENA IRON SULPHIDES	L.M.

Dec. 1/34

Assays:

D33024	special	Jordan	Tr.
25-7	"	"	"
28	"	"	.40
29-37	"	"	Tr.

J. Jordan

BIRCH FARM Vein #

NORTH $\frac{1}{2}$ Lot 15 CON-1. HILLOP. TWP.

- SAMPLE NO
- 33038- 26" FOOT WALL SYENITE IRON SULPHIDES L.M.
- 33039- 8" QUARTZ STRS. GALENA IRON SULPHIDES L.M.
- 33040- 20" HANGING WALL BASALT IRON SULPHIDES L.M.
- 33041- 27" FOOT WALL SYENITE IRON SULPHIDES W.M.
- 33042- 34" QUARTZ STRS. SYENITE GALENA IRON SULPHIDES L.M.
- 33043- 24" HANGING WALL BASALT IRON SULPHIDES L.M.
- 33044- 42" FOOT WALL SYENITE IRON SULPHIDES W.M.
- 33045- 22" SYENITE IRON SULPHIDES L.M.
- 33046- 8" QUARTZ STRS. SYENITE GALENA IRON W.M.
- 33047- 29" HANGING WALL BASALT IRON SULPHIDES L.M.
- 33048- 26" FOOT WALL SYENITE IRON SULPHIDES L.M.
- 33049- 36" SYENITE IRON SULPHIDES L.M.
- 33050- 7" QUARTZ STRS. SYENITE GALENA IRON W.M.
- 33051- 28" HANGING WALL BASALT IRON SULPHIDES W.M.
- 33052- 36" FOOT WALL SYENITE IRON SULPHIDES W.M.
- 33053- 38" SYENITE IRON SULPHIDES L.M.
- 33054- 10" QUARTZ STRS. SYENITE GALENA IRON W.M.
- 33055- 24" HANGING WALL BASALT IRON SULPHIDES L.M.

(over)

V Jordan

Dec. 34

Assay Sheet

D-33038	specials	E-C	Jordan	Au.	.80
39- 51	"	"	"	"	Tr.
52	"	"	"	"	.40
53-4	"	"	"	"	Tr.
55	"	"	"	"	.80

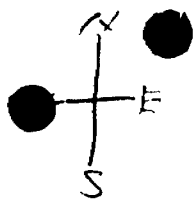
"R.H.Skelly"

SAMPLE PLAN VEIN 4 BIRCH FARM

STRIKE 30 EAST OF NORTH

DIP 85 WEST

CHANNELS 5 FT APART



33052	33053	33054	33055
33048	33049	33050	33051
33044	33045	33046	33047
	33041	33042	33043
	33038	33039	33040

STATION I
 300 FT → □

SYENITE

QUARTZ
STROMBOLDS

DYKES

THIS IS VEIN 4 BUT DYKE NATURE

SYLVANITE GOLD MINES, LIMITED

E-C ASSAY SHEET

From Specials

Date Dec 17th 1914

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
³³⁰⁶⁵ 33328	Specials E-C Jordan Birch Property	-	2.00
³³⁰⁶⁹ 29	-	-	72.00
³³⁰⁷⁰ 30	-	-	2.00
³³⁰⁷¹ 31	-	-	.10
32	-	-	.80
33	-	-	Trace
34	-	-	Trace
³³⁰⁶⁵ 35	-	-	.80
³³⁰⁶⁹ 36	-	-	3.20
³³⁰⁷⁰ 37	-	-	.10
³³⁰⁷¹ 38	-	-	.10

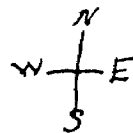
Checks Sample 41

R. H. Kelly

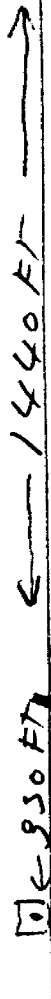
Assayer

BIRCH FARM.

TAS 17



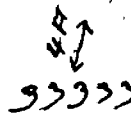
() BARN



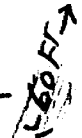
STA I

← 690 FT →

33334



33333



33334 + 166 FT → 33332

win 7/1

BIRCH FAIR

SAMPLE
NO

- 33332 - 8" SYENITE QUARTZ STRS IRON SULPHIDES, W, IV
- 33333 - 41" Basalt SHEAR QUARTZ STRS IRON W, IV
- 33334 - 45" BASALT SHEAR QUARTZ STRS IRON W, IV

SYLVANITE GOLD MINES, LIMITED

E-C

ASSAY SHEET

From Specimens

Date Dec 15th 34

SAMPLE No.	DESCRIPTION	WIDTH	VALUE PER TON
233317	Specimens E-C Jordan Au		2
18	-		2
19	-		10
20	-		2
21	-		2
22	-		2
23	-		2
24	-		2
25	-		2
26	-		2
27	-		2
Dec 24 ¹⁹³⁴ 33363	special Jordan - Birch		2
Dec 24 ¹⁹³⁴ # 1	South Half Lot #11 Cor 2 Halsey Trp 250 yds East of Corner } South side Vein 7 feet wide W ^m Dawson King Ridge Ontario		10
# 2	South Half Lot #11 Cor 2 Halsey Trp 200 yds East of Corner } South side Vein 7 feet wide W ^m Dawson King Ridge Ontario		10

[Signature]

Assayer

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

E-C

From Special

Date Dec 12/34

SAMPLE No.	DESCRIPTION	WIDTH	VALUE PER TON
D33309	special E-C Jordan Au		2
10	- - - -		2
11	- - - -		2
12	- - - -		2
13	- - - -		2
14	- - - -		2
15	- - - -		2
16	- - - -		2
		Dec 12/34	
	Special to E-C Jordan		.40
D 33306			.40
07			2
08			

[Signature]

Assayer

153

December 12, 1934.

Kr. V. Jordan,
C/o J. H. Cloutier,
Pamora, Ontario.

Dear Mr. Jordan:

Will you kindly recheck the following sam-
ples:

<u>Sample No.</u>	<u>Assay</u>
D-33065	\$ 2.00
D-33069	28.80
D-33070	10.40
D-33071	2.40

Also, please send us your sample plan, up
to date.

Yours very truly,

ERIE CANADIAN MINES LIMITED
No Personal Liability

G.L. Holbrooke/LD

Superintendent

SYLVANITE GOLD MINES, LIMITED

E-C ASSAY SHEET

From *Special.*

Date *Dec 12* *1920*

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
	<i>Specials E-C Jordan</i>		
<i>D33072</i>			<i>.80</i>
<i>73</i>			<i>2</i>
<i>74</i>			<i>4.40</i>
<i>75</i>			<i>1.60</i>
<i>76</i>			<i>.80</i>
<i>77</i>			<i>4.00</i>
<i>78</i>			<i>.80</i>
<i>79</i>			<i>3.20</i>
<i>80</i>			<i>.80</i>
<i>81</i>			<i>2</i>
<i>82</i>			<i>2</i>
<i>83</i>			<i>.80</i>
<i>84</i>			<i>2</i>
<i>85</i>			<i>2</i>
<i>86</i>			<i>1.60</i>
<i>87</i>			<i>.80</i>
<i>88</i>			<i>1.60</i>

Dec. 11/34

D-3065 - Spec Jordan E-C - check on

69 - " "
70 - " "
71 - " "

P. Kelly
an

Assayer

2.00
28.80
10.40
2.40

SYLVANITE GOLD MINES, LIMITED

E-C ASSAY SHEET

From Yoccal

Date Dec 12th 1950

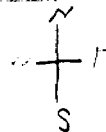
SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
	<u>Yoccal E-C Jordan</u>		
<u>D33089</u>			<u>2r</u>
<u>90</u>			<u>.40</u>
<u>91</u>			<u>2r</u>
<u>92</u>			<u>1.20</u>
<u>93</u>			<u>2r</u>
<u>94</u>			<u>2r</u>
<u>95</u>			<u>2r</u>
<u>96</u>			<u>2r</u>
<u>97</u>			<u>2.0</u>
<u>98</u>			<u>2r</u>
<u>99</u>			<u>2r</u>
<u>D33150</u>			<u>2r</u>
<u>D33301</u>			<u>2r</u>
<u>02</u>			<u>2r</u>
<u>03</u>			<u>2r</u>
<u>04</u>			<u>2r</u>
<u>05</u>			<u>1.10</u>

J. H. Kelly

Assayer

BIRCH FARM

SAMPLE PLAN



BARN

33321-26-19-18-17

285°
F ←

33314-13-6
F →

33312-11-21F ←

33310-9

← 150 FT →

33315-16

BRIDGE
DITCH
DITCH

SHEAR

SHEAR

SHEAR

102 FT

33308-07
11

33

33094-95-96-97

48 FT →

33098-99

33302-03-04-05-06

10 FT →

33100-

33301

SHEAR

SHEAR

BRIDGE

BRIDGE

BRIDGE

BRIDGE

PORPHYRY
33322-23-24

27 ← 20 FT →

QUARTZ

33034

VEIN

27-26-33325-98

130 FT

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

E.C.

From _____

Date 20 11 70

SAMPLE No.	DESCRIPTION	WIDTH	VALUE PER TON
3056			
57			
58			
59			100
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			

Assayer

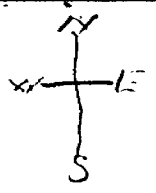
BIRCH FARM VEIN 4

Sample No.

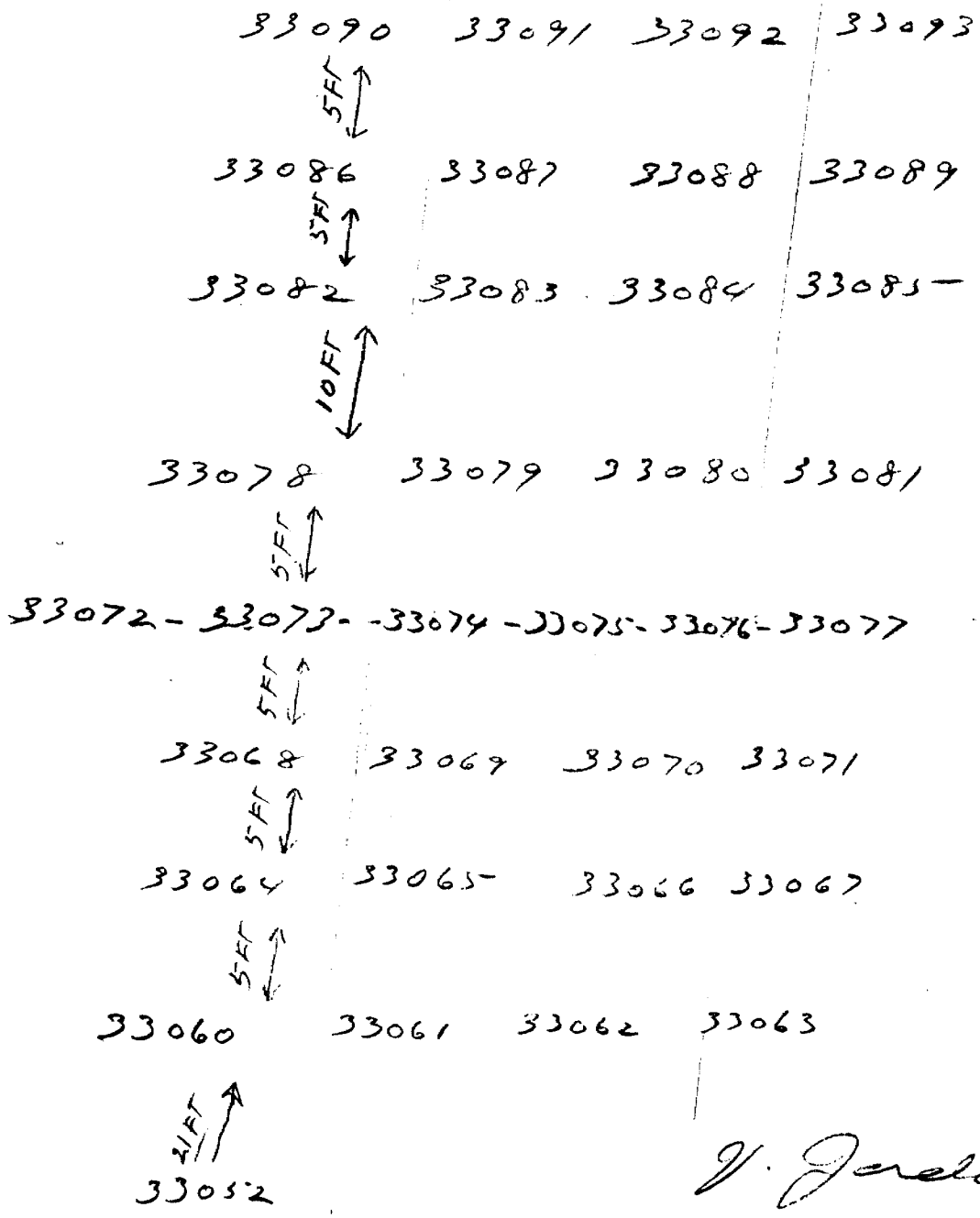
33060	30" Footwall Basalt Iron Sulphides	L.M.
33061	33" Centre Basalt iron sulphides	L.M.
33062	26" Syenite Quartz Qtrs. iron galena	W.M.
33063	36" Hanging wall quartz str. syenite iron sulphides	L.M.
33064	34" Footwall basalt iron sulphides	L.M.
33065	38 Centre Syenite iron sulphides	W.M.
33066	18" Syenite quartz str. galena iron	W.M.
33067	18" hanging wall basalt iron sulphides	L.M.
33068	32" Footwall basalt iron sulphides	L.M.
33069	31" Centre Basalt iron sulphides	L.M.
33070	26" quartz str. syenite galena iron	L.M.
33071	19" hanging wall basalt iron sulphides	L.M.
33072	41" footwall basalt iron sulphides	W.M.
33073	24" Basalt iron sulphides	W.M.
33074	12" quartz vein galena iron	W.M.
33075	29" Centre Basalt iron sulphides	L.M.
33076	17" quartz vein galena iron sulphides	W.M.
33077	18" hanging wall basalt iron sulphides	L.M.
33078	39" footwall Basalt iron sulphides	L.M.
33079	32" Centre Basalt iron sulphides	W.M.
33080	23" " Porphyry iron sulphides	W.M.
33081	24" hanging wall porphyry quartz galena	W.M. iron
33082	50" footwall basalt iron sulphides	W.M.
33083	41" Centre basalt iron sulphides	W.M.
33084	30" quartz porphyry galena iron	W.M.
33085	17" hanging wall basalt iron sulphide	L.M.
33086	41" footwall porphyry iron sulphides	L.M.
33087	37" Centre Porphyry iron sulphides	W.M.
33088	29" quartz porphyry galena iron	W.M.
33089	20" hanging wall basalt iron	L.M.
33090	37" footwall basalt iron sulphides	L.M.
33091	40" Centre porphyry iron sulphides	L.M.
33092	38" porphyry quartz str. galena iron	W.M.
33093	24" hanging wall basalt iron sulphides	L.M.

"V. Jordan"

BIRCH FARM



COMPLETES SAMPLES FROM VEIN 4



V. Jordan

SYLVANITE GOLD MINES, LIMITED

E.C.

ASSAY SHEET

From

Date

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
33006	20000		7
07			7
08			7
09			7
10			7
11			7
12			7
13			7
14			7
15			7
16			7
17			7
18			7
19			7
20			7
21			7
22			7
23			7

[Handwritten signature]

Assayer

Sample No.

Birch Farm

25277	-	60 ft. south of Station I	
		52" Footwall Syenite Iron Sulphides	L.M.
25278		38" quartz vein galena iron sulphides	W.M.
25279		31" Syenite Footwall Iron Sulphides	L.M.
25280		43" quartz vein galena iron sulphides	W.M.
25281		24" Hanginwall syenite iron sulphides	L.M.
25282		40" footwall syenite iron sulphides	L.M.
25283		38" west of 25282 syenite iron sulphides	L.M.
25284		45" quartz vein galena iron sulphides	W.M.
25285		24" hanginwall syenite iron sulphides	
25286		26" footwall syenite iron sulphides	L.M.
25287		56" quartz vein galena iron sulphides	W.M.
25288		24" hanging wall syenite iron sulphides	L.M.
25289		33" footwall syenite iron sulphides	L.M.
25290		41" quartz vein galena iron sulphides	W.M.
25291		26" footwall basalt iron sulphides	L.M.
25292		51" quartz vein galena iron sulphides	W.M.
25293		17" hanging wall syenite iron sulphides	L.M.
25294		24" footwall basalt iron sulphides	L.M.
25295		45" quartz vein galena iron sulphides	L.M.
25296		24" hanging wall syenite iron sulphides	L.M.
25297		24" footwall basalt iron sulphides	L.M.
25298		59" quartz vein galena iron sulphides	L.M.
25299		24" hanging wall basalt iron sulphides	L.M.
25300		24" footwall basalt iron sulphides	L.M.
33001		49" quartz vein galena iron sulphides	W.M.
33002		7" hangwall basalt iron sulphides	L.M.
33003		24" footwall basalt iron sulphides	L.M.
33004		41" quartz vein galena iron sulphides	W.M.
33005		18" hanging wall basalt iron sulphides	L.M.

"V. Jordan"

~~Assay Sheet~~=====~~Nov~~==28th==1934

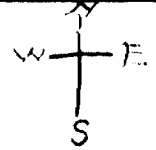
~~Woodcock~~

Assay Sheet Nov. 28th, 1934:

D25295 - specials E-C	Au.	Tr.
25296-25300	Trace	
33001-5	Trace	
D25277-94	" "	Trace

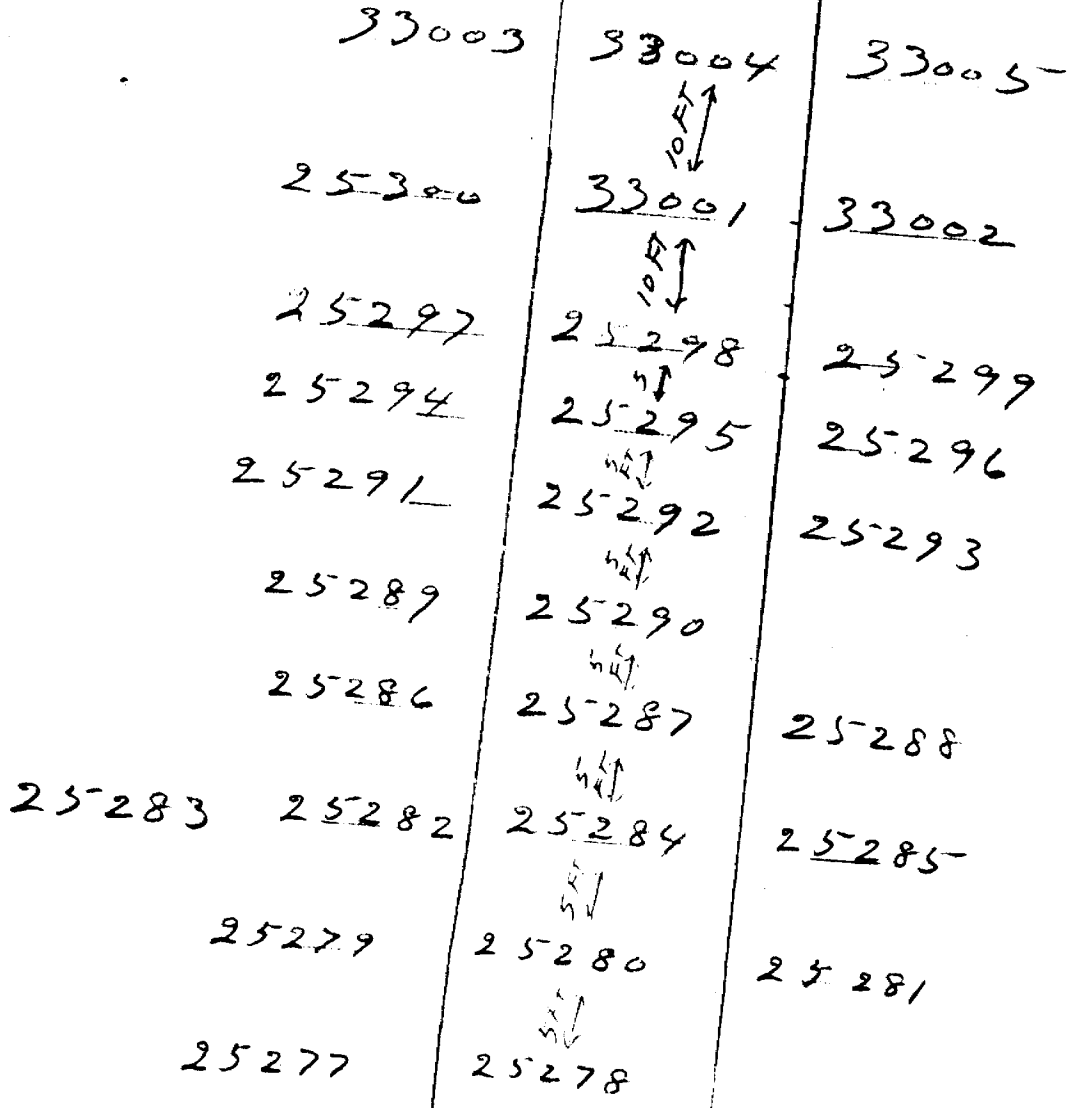
"R.H. Skelly"

BIRCH FARM VEIN-3.



PLAN OF SAMPLES

STATION I-X



STRIKE 30 N of E
DIP 85 S. E

J. Jordan

153

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

EC

From

specimen

Date

Aug 25 1914

SAMPLE NO.	WT. Fin. g.	DESCRIPTION	WIDTH	VALUE PER TON
290	93	Specimen 3 Camp 500 ft Birch Hill top		1.00
	94	Specimen 3 Camp 500 ft Birch Hill top		2.80
	95	Sample from 100 ft Birch Hill top		1.00
	96	Sample from 100 ft Birch Hill top		6.80
	97	Sample from 100 ft Birch Hill top		Trace
	98	Sample from 100 ft Birch Hill top		1.00
	99	Sample from 100 ft Birch Hill top		1.00

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON	
22	34	otodized sample from non part	Grab	
25	36	151 North 260 East 151 North 257 36 Birch Hill top	Grab	
	37	N 1/2 Lot Con 10 otodized fine unfract	Grab	
	38	otodized OTS from 100 ft Birch Hill top	Grab	

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON	
255	34	Specimen 3 Camp 500 ft Birch Hill top		2.00
	56	Specimen 3 Camp 500 ft Birch Hill top		Trace
	57	Specimen 3 Camp 500 ft Birch Hill top		Trace
	104	N 1/2 Lot Con 10 Birch Hill top		

257 36

Assayer

153

(C O P Y)

2

ASSAY SHEET

Oct. 16, 1934

<u>Sample No.</u>	<u>Description</u>	<u>Width</u>	<u>Value Per Ton</u>
D-24915	Qtz. West of No. 4 diabase	Grab	\$ 0.40
16	dike	do	Trace

W. T. Birch

SYLVANITE GOLD MINES, LIMITED

W.T. Birch Form **ASSAY SHEET**

Hislop Tp
From Special

Date Aug 13th 1914

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
D17497	075 8" Dip from P.M. Specular iron galena Special Lamp cell for W.T. Birch Hislop Tp	Grab	1.20
025501	075 1" white Specular iron X galena	Grab	2
02	white 075 for 2" of specular iron in white pyrites	Grab	2
03	stodged 075 iron & talco pyrites vein No 8	Grab	1.20
04	075 Sample - 1" Specular iron in pyrites galena	Grab ⁽³⁾	2
05	3" white 075 Specular iron	Grab	.10
06	white 075 Specular iron pyrites	Grab	2
07	lump of 075 Specular iron pyrites	Grab	2
08	stodged 075 same vein pyrites	Grab	2.00
09	stodged 075 Specular iron pyrites galena	Grab	.10
10	075 17" galena in Specular iron	Grab	2
11	075 1" 2" talco & talco pyrites	1" - 2"	2
12	3" 075 Specular iron pyrites	-	1.60

[Signature]
Assayer

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

W.T. Birch Form
 Ho/lop To
 Specials

From

Date Aug 13th 1917

153

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
D174	Foot wall vein natural pyrite - some iron pyrite Special Campbell for W.T. Birch 1" dia	1" dia	.80
81	White DTS No visible mineral	2' - 6"	It
82	" " " " " "	1' - 9"	It
83	" " - some galena ^{in natural} _{in wall}	1' - 0"	It
84	Hangy wall with end 5' Pit Ag. Fine iron pyrite	Grab	It
85	White DTS & heavy galena 3' 2" ^{in end of pit} _{well}	Grab	It
85	" " "	Grab	2.60 _{June 1917}
86	Sheared basalt fine iron pyrite	1' dia	It
87	Basalt syenite mixture fine iron pyrite	1' - 4"	It
88	DTS & syenite mixture fine iron pyrite	1' - 2"	It
89	White DTS has a little of the above in wall	2' - 0"	It
90	8" white DTS galena & natural fine iron pyrite	1' - 0"	It
91	Basalt syenite mixture fine iron pyrite	Grab	It
92	Hangy wall DTS & syenite mixture fine iron pyrite	Grab	It
93	DTS & syenite mixture fine iron pyrite	Grab	It
94	Oxidized DTS iron pyrite & galena	Grab	It
95	oxidized DTS iron pyrite & galena	Grab	It
96	DTS iron pyrite & galena	Grab	5.60

[Handwritten signature]

Assayer

W. T.

W. T. BIRCH ✓ FARM HISLOP TWP.

Sampled By D. Campbell
Aug 10-11/34

ES, 1934

PASTURE LAND

WELL FARM BUILDINGS
600' North of Farm BUILDINGS

Grain Field

HAY FIELD

Diabase DIKES
S N 25-30° E

BASALT

Spruce Swamp

Wire Fence

Willow TAG ALDERS

TAG ALDERS

HAY FIELD

Diabase DIKE

BASALT

Diabase DIKE

Porphyry

LOW GROUND

BASALT

BASALT

DIABASE DIKE

HAY FIELD

TAG ALDERS

TAG ALDERS

555' North of South Boundary

soil Boundary Line APPROXIMATE MEASUREMENTS
Weir VET FARM

Aug 10-11/34

BIRCH FARM

8-9-10-11-12-13-14

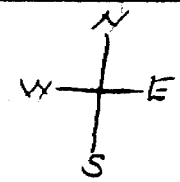
Sample No.	Description	Notes	Analyst
33094-	47" footwall shear basalt	Iron Sulphides	L.M.
33095	55" Basalt	Iron Sulphides	L.M.
33096	35" Basalt	Iron Sulphides	W.M.
33097	36" Hanging Wall Basalt	Syenite Iron	W.M.
33098	48" Basalt	Iron Sulphides	W.M.
33099	38" Basalt	Iron Sulphides	L.M.
33100	43" Basalt	Iron Sulphides	W.M.
33301	48" Basalt	Iron Sulphides	L.M.
33302	39" Basalt	Iron Sulphides	L.M.
33303	46" Basalt	Quartz Strs. Iron	W.M.
33304	46" "	Iron Sulphides	W.M.
33305	35" Basalt	Iron Sulphides	W.M.
33306	28" Basalt	Syenite Iron Sulphides	W.M.
33307	18" Basalt	Quartz Strs. Iron Sulphides	L.M.
33308	16" Basalt	Iron Sulphides	L.M.
33309	38" Basalt	Quartz Strs. Iron Sulphides	L.M.
33310	36" Basalt	Iron Sulphides	L.M.
33311	20" Basalt	Iron Sulphides	L.M.
33312	30" Basalt	Iron Sulphides	L.M.
33313	22" Syenite	Iron Sulphides	W.M.
33314	23" Syenite	Iron Sulphides	W.M.
33315	34" Basalt	Iron Sulphides	L.M.
33316	29" Basalt	Iron Sulphides	L.M.
33317	30" Basalt	Quartz Strs. Iron Sulphides	L.M.
33318	34" Basalt	Iron Sulphides	L.M.
33319	41" Syenite	Quartz Strs. Iron Sulphides	L.M.
33320	40" Basalt	Iron Sulphides	L.M.
33321	39" Basalt	Iron Sulphides	L.M.
33322	47" Porphyry	Iron	L.M.
33323	36" Porphyry	Quartz Strs. Galena Iron	L.M.
33324	41" Porphyry	Iron	L.M.
33325	20" Basalt	Iron Sulphides	L.M.
33326	8" Quartz Vein	Iron Sulphides	L.M.
33327	24" Basalt	Iron Sulphides	L.M.

"V. Jordan"

BIRCH FARM

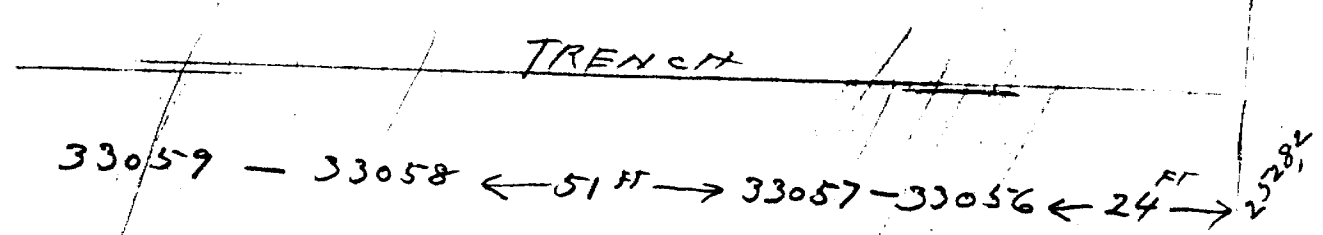
SAMPLE PLAN

Trench 3A



SAMPLE NO

- 33056 - 24" WEST of 25282 - 6.0" BASALT IRON SULPHIDES . W.M.
- 33057 - 60" BASALT IRON SULPHIDES QUARTZ STRS . W.M.
- 33058 - 60" BASALT " " " " . L.M.
- 33059 - 60" BASALT " " " " . W.M.



SHEAR ZONE
 BASALT IRON SULPHIDES

SHEAR ZONE
 BASALT IRON SULPHIDES

← VEIN 3 →

G. Jordan

6.C. 153

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

From W.T. Birch Date Aug 7th 34

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
	W.T. Birch		
	Specimen 3 Sample of W.T. Birch		
12	1/2 Sample from ledge below 3' pit No 1	Ag	Tr
12		Ag	Tr
23	1/2 Sample from ledge below 3' pit No 1	Ag	Tr
23		Ag	Tr
24	1/2 Sample from ledge below 3' pit No 1	Ag	Tr
24		Ag	Tr
15	1/2 Sample from ledge below 3' pit No 1	Ag	Tr
15		Ag	Tr
26	1/2 Sample from ledge below 3' pit No 1	Ag	Tr
26		Ag	Tr
27	1/2 Sample from ledge below 3' pit No 1	Ag	Tr
27		Ag	Tr

[Signature]
Assayer

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

F.G. MILES - HISTORICAL

From

Special

Date

June 12 1931

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
17153	Claim 24652 fine iron pyrite	1.2	4
84	fine iron pyrite	1.3	2
85	blackish Rhynchonella	2.8	4
86	blackish iron pyrite	1.7	2
87	Heavy iron iron pyrite	1.1	2.00
88	Flinty Rhynchonella 1/2 inch, 1/8 inch pyrite	1.0	2
89		1.0	2.00
90		1.8	2.00
91		1.6	11.00
92		1.10	2.00
93	Claim 24652 Rhynchonella	1.0	2.00
94	Claim 24652 Rhynchonella	1.8	6.00
95		1.8	1.00
96		1.0	2.00
97		1.0	2.50
98		1.1	2.00
99	Elkhorn	1.0	2.00
17200		1.0	2.50

D17202
03
201

Assayer

040

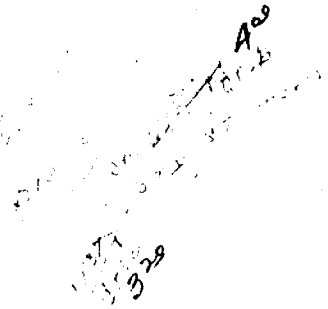
118

174 173
174 173
174 173
174 173

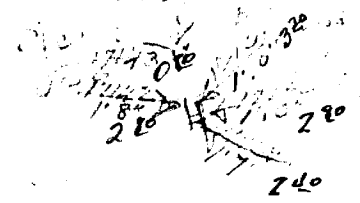
74603



74604



74607



F.G. MILES
HISLOP TR.

SYLVANITE GOLD MINES, LIMITED ASSAY SHEET

118
F.G Miles & Vincent Claim, Hinton Tp - Refer Campbell letter 11/1/29
From J. Conroy Date May 31 1934

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
D17141	specimen F.G Miles & Vincent Claim	1.0	3.20
112	-	1' 8"	2.50
113	-	Grab.	.50
114	Vincent Claim	1.0	2.00
115	-	1.0	2.00
116	-	1' 6"	2.50
47	-	2' 0"	3.20
48	-	0' 10"	.50
49	-	1' 9"	1.50
50	-	Grab	.50
51	-	"	3.20
52	-	"	2.50

1.00
spurious
Change

J. Conroy

Assayer

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

D. CHALMERS PROPERTY - Refer D. Campbell Map Map 2/12
 F.G. MILES - HILTOP TR

From 7-1-1934

Date May 31 1934

SAMPLE No.	DESCRIPTION	WIDTH	VALUE PER TON
217123	<u>D. Chalmers</u> Special D Campbell Au	1.0	1.0
24	-	1.0	1.0
25	-	1.0	1.0
26	-	3.0	.16
27	-	1.0	1.0
28	-	1.0	.11
29	-	1' 4"	1.60
30	-	1' 4"	.11
31	-	Grab	1.0
32	-	-	.50
33	<u>F.G. MILES - HILTOP TR</u>	-	-
34	-	1' 8"	1.00
35	-	1' 8"	2.50
36	-	1' 10"	1.00
37	-	Grab	3.20
38	-	Grab	1.00
39	-	1' 1"	2.40
40	-	1' 0"	2.50
41	-	1' 0"	3.20
42	-	1' 8"	1.8
43	-	-	-

1' 8" 1' 10" 1' 1" 1' 0" 1' 0" 1' 8"

Assayer
 J. H. ...
 O. H. ...

4-72

SYLVANITE GOLD MINES, LIMITED

F.G. MILES
D. CHALMERS PROPERTY

ASSAY SHEET

Refer O. Campbell Map May 23/20

From

Date May 24 1920

SAMPLE No.	DESCRIPTION	WIDTH	VALUE PER TON
217123	D. Chalmers	1.0	1.
24	.	1.0	1/4
25	.	1.0	1/4
26	.	3.0	1.
27	.	1.0	1/4
28	.	1.0	1.
29	.	1.4"	1.
30	.	1.4"	1.
31	.	.	1/4
32	.	.	1/4
33	F.G. MILES - HINDON TR	1.1"	1.
34	.	1.8"	2.50
35	.	1.6"	1.3
36	.	1.10"	1.
37	.	Grab	3.20
38	.	Grab	1.8
39	.	1.0"	1.
40	.	1.0"	3.50
41	.	1.0"	3.20
42	.	1.8"	1.8
43	.	1.0"	1.8

with pros
Campbell

Campbell

Assayer

✓

Arthur M. Adams
Baltimore

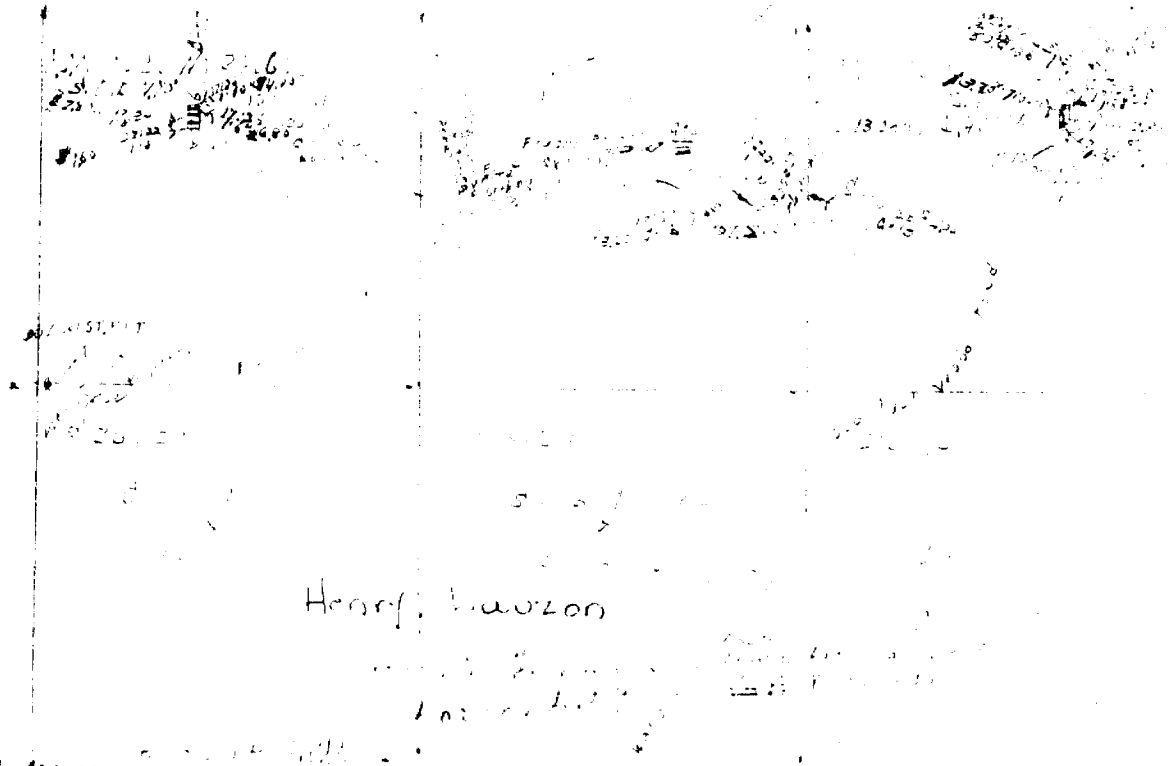
Designed by
Arthur M. Adams

Patented
in Baltimore



Admission

(P)



Henry Mazon

Scale 1"=10 chains

108
X
+

May 16, 1934

Mr. C. McNeil,
Matheson, Ontario.

Dear Sir: Re: F. G. Miles Property,
 Hielop Township

Assay results on the two samples left with
us for assay May 14th are as follows:

C11984, Sample 2 Pieces - \$1.60

C11985, " 1 Piece - \$2.80.

Yours very truly,

SYLVANITE GOLD MINES LIMITED
(No Personal Liability)

WSM/C

Superintendent

118

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

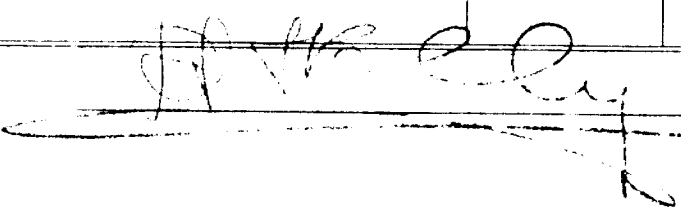
From

F.G. Mikes property Hill Top
Specimens

Date

May 15 1913

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
C117841	Specimen W.P. Hill Top Hill Top		2.80
55	Specimen W.P. Hill Top Hill Top Samples brought in by E. McHard Mattison		2.80
	Specimen W.P. Hill Top Hill Top Concessions I Hill Top		


 Assayer

118
X
April 9, 1934

Mr. P. Miles,
Vimy Ridge,
Ontario.

Dear Sir:

Replying to your letter of April 5th, the
samples you sent have been assayed, and show
gold value of \$2.00 per ton.

Yours very truly,

SYLVANITE GOLD MINES LIMITED
(No Personal Liability)

W. S. Maguire
Superintendent per G. C.

WSM/C

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

From FG Files - Hake TR
Special First Ridge Striking Date April 7th 1911

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
C11980	Special W. S. M Au W. S. M. Blowers Per/Spec. Blowers in Lote 12 and 13 Specimen I H. exp. Sp.		2.50

[Signature]
Assayer

✓ file # 429

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

E-C

From

General

Date

July 20, 1917

SAMPLE No.	DESCRIPTION	WIDTH	VALUE PER TON
37801	<i>special E-C A Composite Sample</i>	<i>2' 0"</i>	
02		<i>2' 0"</i>	
03		<i>2' 0"</i>	
04		<i>1' 6"</i>	
05		<i>2' 5"</i>	
06		<i>2' 6"</i>	
07		<i>3' 6"</i>	
08		<i>drab</i>	
9			
10			
11			
12		<i>11</i>	
13			
14			
15			
16		<i>2' 6"</i>	
17		<i>3' 0"</i>	
18		<i>1' 3"</i>	
			T-47

Assayer

SYLVANITE GOLD MINES, LIMITED

ASSAY SHEET

From Specimen

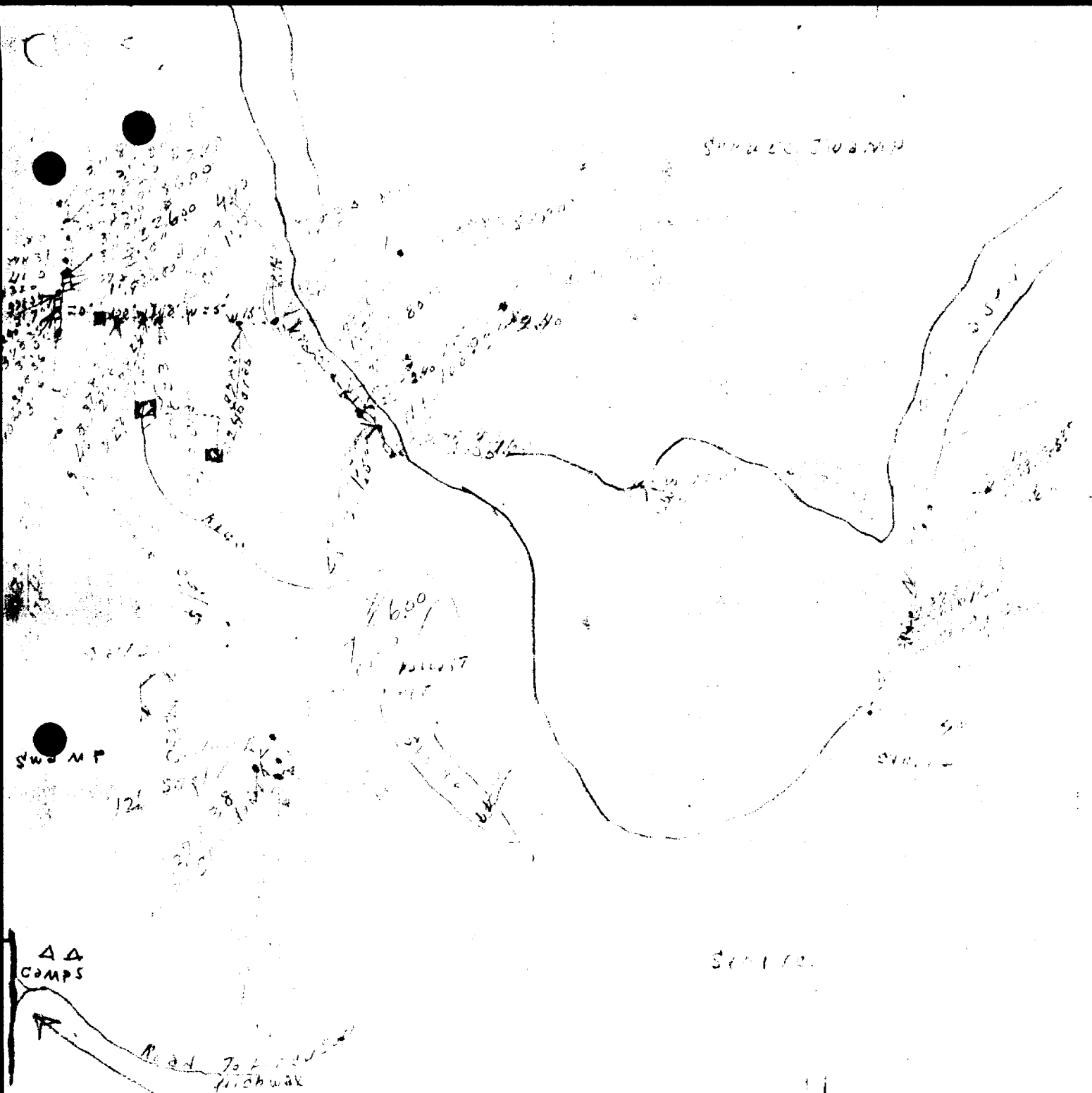
Date July 21 1917

SAMPLE No.	DESCRIPTION	WIDTH	VALUE PER TON
19	Special E.C. Campbell Specimen Top		2
20			10
21			2.00
22		chip 1' 0"	11.00
23		Crab	2.00
24		1' 6"	2.00
25		chip 3' 11"	2.00
26		JUMP Crab	1.00
27		Crab	
28		3' 0"	6.70
29		3' 0"	2.00
30		3' 0"	6.00
31		4' 0"	2.00
32		2' 8"	6.00
33		1' 9"	10
34		2' 0"	2.20
35		3' 10"	2.00
36		3' 6"	4.00
37			6.00
38			2.00

[Handwritten signature]

Assayer

T-47



T-47

(C O P Y)

Kirkland Lake,
August 7, 1934

Short Report on W. F. Birch farm property, N. $\frac{1}{2}$ Lot 10,
Con. 1, Hislop Twp.

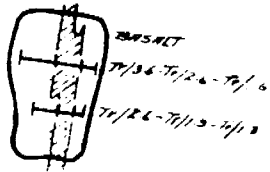
This property consists of 160 acres located as a farm about 80 acres in tillable land and the balance at least 80% rock outcropping, on the South and Western portion of the farm.

The rock outcroppings consist of principally basalt, with four North and South diabase dikes of varying widths and also syenite and feldspar porphyries as shown on accompanying plan.

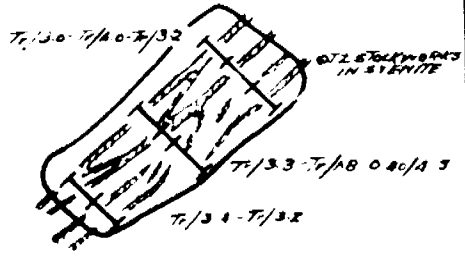
There is a white quartz vein about 5' wide showing galena and fine iron pyrites, with two shallow pits. This vein is exposed at intervals for a distance of 237 feet. The vein at the South end shows in heavily oxidized syenite porphyry. The balance of the distance North the vein shows in the basalt 15' East of northerly pit shows feldspar porphyry. This whole section is well fractured and mineralized. There are the usual farm buildings in good shape and sufficient water for diamond drilling purposes can be secured from a well about 600 feet East of showings or from a dam west of farm buildings. Should any work or drilling be done under this option dated August 7, 1934, board can be secured at a reasonable rate, but sleeping quarters will have to be furnished by Company operating. This property looks like a real live prospect worthy of some immediate development work and lies to the East of the Jones farm mining prospect. This property can be reached from Ferguson Highway running West between Playfair Twp. and Hislop Twp. by travelling North from Highway 1 miles and West $\frac{1}{4}$ mile over good gravel road.

D. A. Campbell

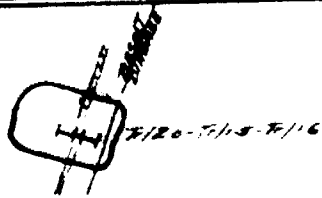
Dac



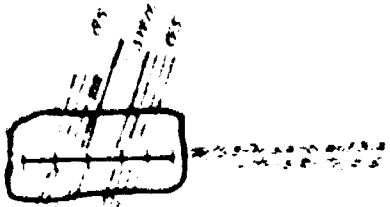
NO 1



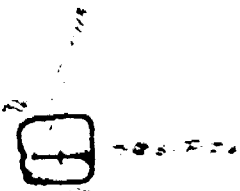
NO 5



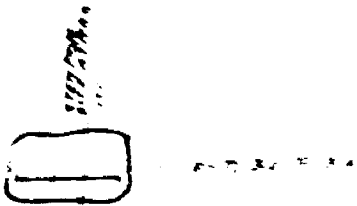
NO 6



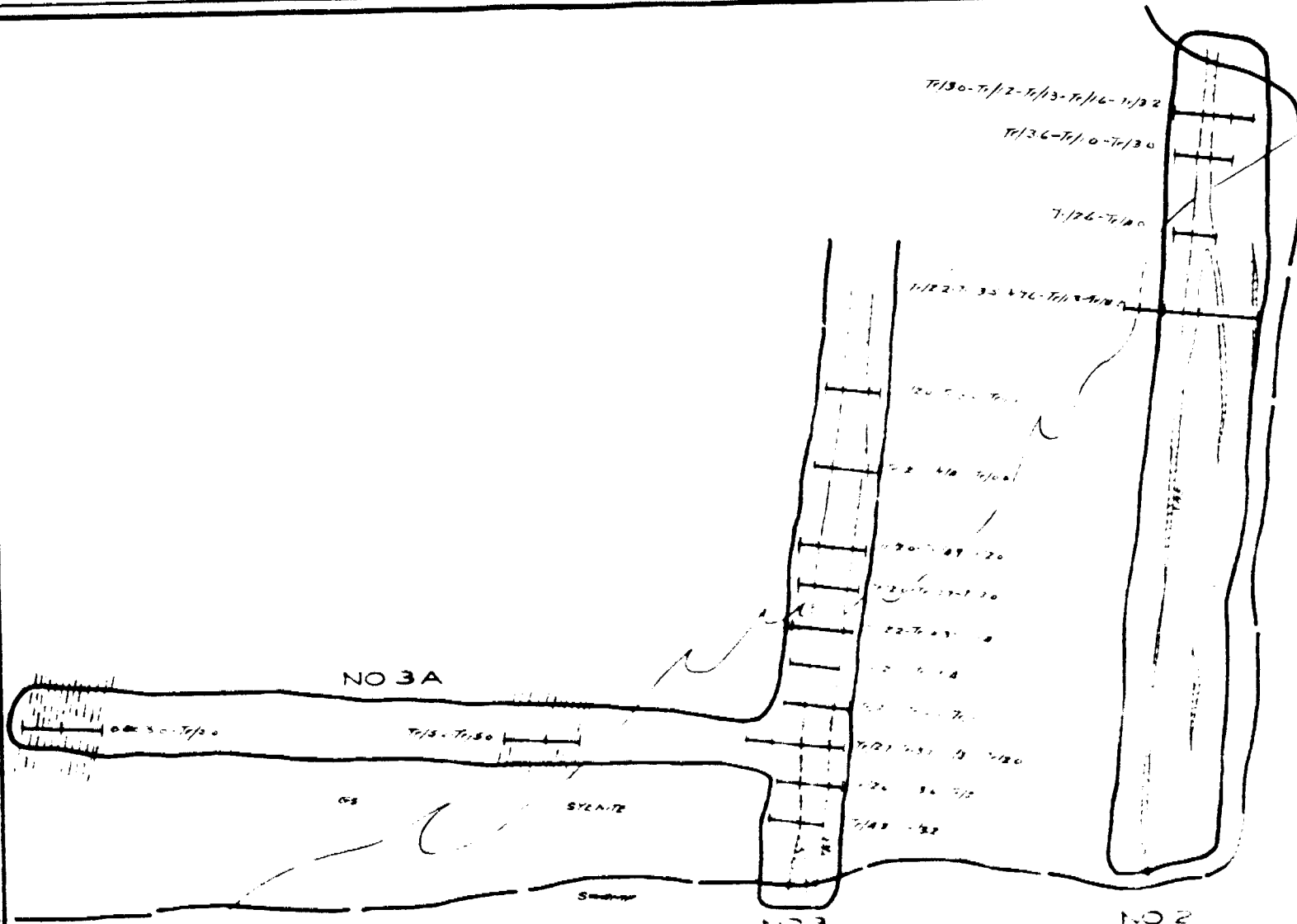
NO 7



NO 8



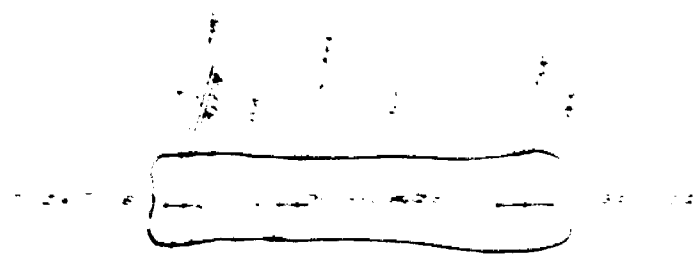
NO 9



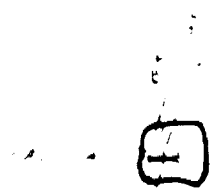
NO 3A

NO 2

NO 3B



NO 10



NO 11



NO 14

T/130-T/12-T/13-T/16-1/132
T/136-T/10-T/130
T/126-T/120

T/122-T/35-T/16-T/11-T/11

T/120-T/110

T/120-T/110

T/120-T/110

T/120-T/110

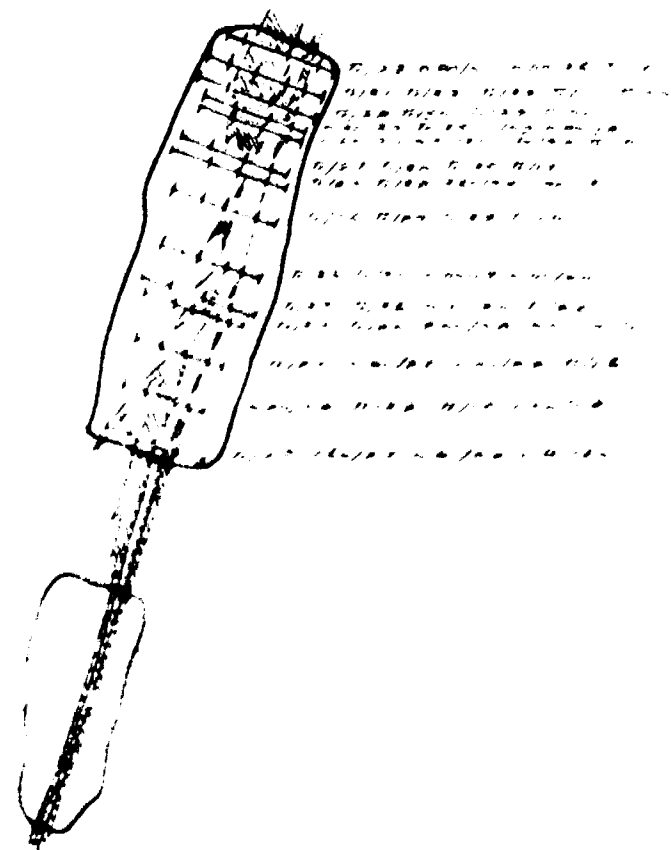
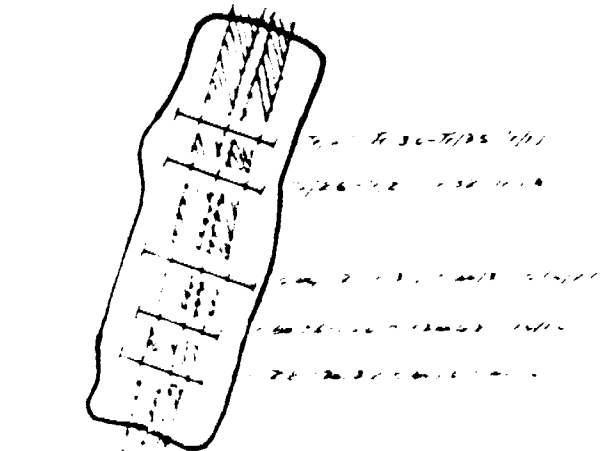
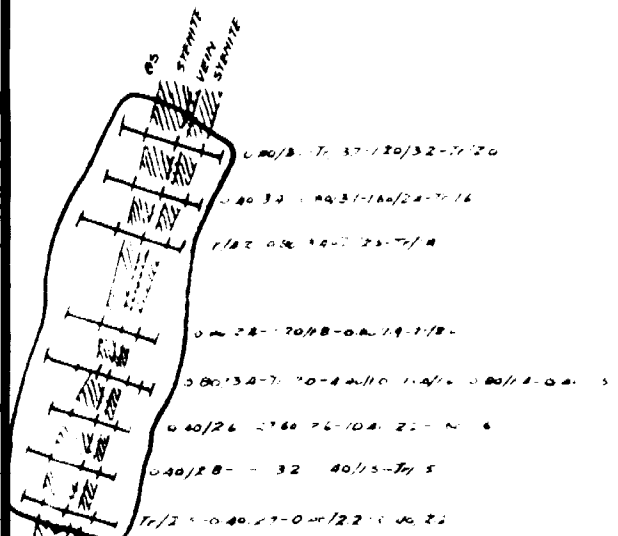
T/120-T/110

T/120-T/110

T/120-T/110

T/120-T/110

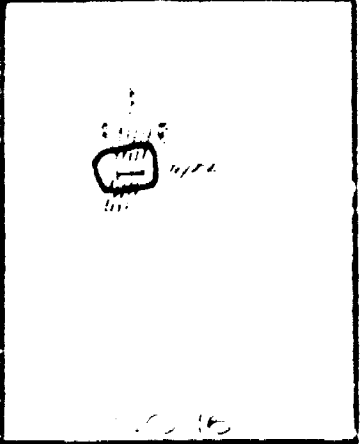
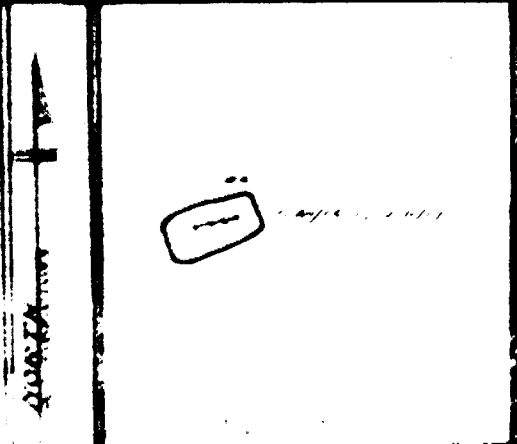
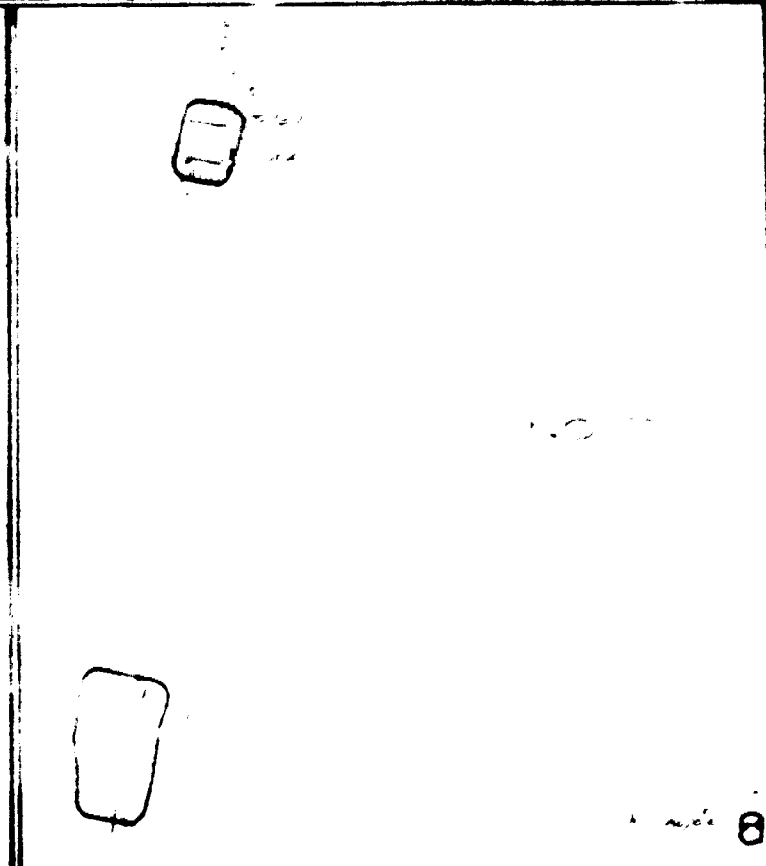
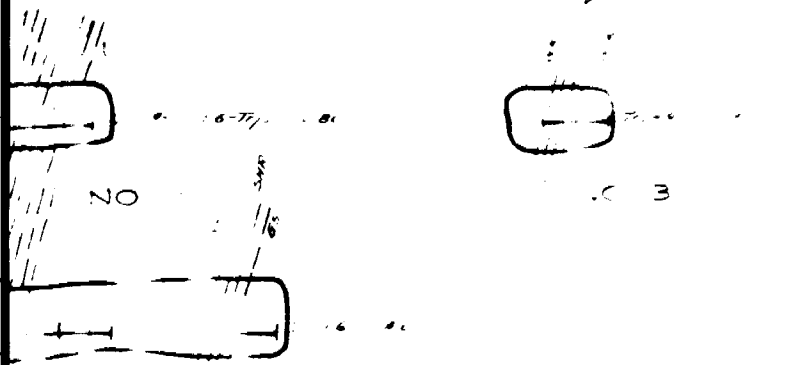
ORIGINAL



SAMPLING

CHECK SAMPLES

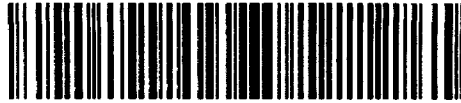
RECHECK AFTER BLASTING



3-14

8

ERIE CANADIAN MINES	
DRAWING	TRENCH ASSAY PLANS
	OF TRENCHES
LOCATION	HIGH OPTIKIN
	HISLOP TWP RAMORE AREA
SCALE	1" = 20'
SAMPLED BY	DAC
DRAWN BY	G. L. H.
REF NO	153
DATE	JAN 3 1935



42A08NW8814 63.3096 HISLOP

020

MINING OPTION AGREEMENT made in triplicate this 12th day of October, A. D. 1934, at Kirkland Lake, Ontario.

B E T W E E N :-

W. T. BIRCH, farmer, of Vimy Ridge, Ontario, hereinafter called the OPTIONOR

OF THE FIRST PART

- and -

ERIE CANADIAN MINES LIMITED (No Personal Liability), Body Politic and Incorporate, with Head Office and chief place of business in the Town of Kirkland Lake, Township of Teck, Province of Ontario, hereinafter called the OPTIONEE.

OF THE SECOND PART.

WHEREAS THE OPTIONOR of the first part is the owner of unpatented farm lots application for which is stated to be recorded in the Crown Land Office at Matheson, in the Province of Ontario,

AND WHEREAS the Optionor has agreed to grant to the Optionee the sole and exclusive option to purchase mineral and surface rights in the said farm lots, being the North half of Lot 10, Concession 1, Township of Hislop, District of Cochrane, in the Province of Ontario, under two distinct options, one as to a nine-tenths interest and the other as to a one-tenth interest,

NOW THEREFORE THIS AGREEMENT WITNESSETH: that in consideration of the premises and the mutual covenants hereinafter stipulated, and the sum of Three Hundred and Twenty Dollars (\$320.00) of lawful money of Canada paid by the Optionee to the Optionor on the sixth day of October, 1934, the receipt whereof is hereby acknowledged, the Optionor hereby gives and grants to the Optionee the sole and exclusive option to purchase:

- (a) A nine-tenths interest in the mineral and surface rights in the North half of Lot 10, Concession 1, Township of Hislop, District of Cochrane, in the Province of Ontario, for the additional sum of TWENTY-NINE THOUSAND SIX HUNDRED AND EIGHTY DOLLARS (\$29,680.00), which shall be payable as follows:

Five Hundred Dollars (\$500.00) on or before January 6, 1935
Two Thousand One Hundred and Eighty Dollars (\$2180.00) on
or before May 6, 1935
Four Thousand Dollars (\$4000.00) on or before October 6,
1935
Four Thousand Dollars (\$4000.00) on or before February 6,
1936
Nine Thousand Dollars (\$9000.00) on or before June 6, 1936
Ten Thousand Dollars (\$10,000.00) on or before October 6,
1936,

such payments to be made by depositing the amounts thereof
in the Canadian Bank of Commerce, Kirkland Lake, Ontario, to
the credit of the Optionor.

- (b) A one-tenth interest or share in the hereinbefore described
lands by the issue, allotment and delivery to the Optionor
or his nominee, of one hundred thousand shares of stock,
fully paid-up and non-assessable, in a Company to be incor-
porated at the expense of the Optionee for the purpose of
acquiring the said property.

It is understood that the Company may be incorporated under
the provisions of the Dominion or Ontario Companies Act,
and that it shall have a capitalization of not more than
three million shares, which shares may be of no par value
or may have a nominal or par value of \$1.00 per share. In
the event of the Optionee deciding to exercise its option
to purchase the said one-tenth interest, such Company shall
be incorporated within three months after the final cash
payment has been made by the Optionee to the Optionor as
hereinbefore provided, and the stock to be issued and
allotted to the Optionor shall be delivered to the said
Optionor within thirty days after the completion of the
incorporation of the said Company.

1. THE OPTIONOR agrees with the Optionee to deposit in
escrow in the Canadian Bank of Commerce, Kirkland Lake Branch,
proper transfers of the said property duly executed by the
registered and recorded owners with execution thereof duly verified
as required by the laws of the Province of Ontario applicable to
such assignments, such deposits to be made forthwith from the
Optionor to the Optionee after the date hereof.

2. IT IS AGREED that the Optionee may if it so desire pay
the whole or any part of the purchase moneys in advance of

the dates herein fixed for payment thereof, and upon payment by the Optionee of the full purchase moneys within the time herein fixed for the payment thereof all the said transfers shall be by the said Bank delivered to the Optionee or to whom it shall appoint to receive same, and in the event of default being made by the Optionee under any of the provisions of this agreement or in the event of the Optionee notifying the Optionors that it desires to drop this option, in either such event all the said transfers of farm rights shall be by the said Bank delivered to the Optionors or to whom he shall appoint to receive same.

3. THE OPTIONOR covenants during the currency of this option, and until default, or notice of dropping option shall have been given to the Optionor, to keep the said property in good standing as required by the Homestead Act of the Province of Ontario.

4. UNTIL THE OPTIONEE shall make default in payment of the purchase price or any part thereof, the Optionee shall have the right to enter upon the said property and to have full, quiet and exclusive possession thereof and with such engineers, workmen and machinery as the Optionee shall see fit to do such mining, development, exploration and other work thereon and install such equipment as the Optionee shall desire and to remove such ores and minerals therefrom as the Optionee may desire for sampling purposes.

5. THE OPTIONEE shall have the right to ship any ore, bullion, concentrate or mineral from the said lands, but shall keep a record of all ore shipped and of the operating expenses incurred in connection with the obtaining of the said ore and shall produce same to the Optionor at all reasonable times. After deducting all operating and marketing expenses the profit obtained from the sale of the said ore shall be divided equally between the Optionor and the Optionee. Any moneys so received by the Optionor shall be credited by him on the current installment due of the purchase price and the Optionee may deduct any sums so paid from the next current installment due in respect of the purchase price.

6. THE OPTIONOR may at mutually agreed times inspect the property.

7. THE OPTIONOR covenants with the Optionee that he has the right to enter into this option and to grant an option to purchase the said property and to sell the same.

8. THE OPTIONOR covenants with the Optionee that he will execute any documents that may be necessary to effectually transfer the said property to the Optionee in the event of the said option being exercised, and he will expedite and help the Optionee to complete whatever may be necessary to complete transfer and carry the formalities of this escrow to be made as hereinabove mentioned.

9. IT IS AGREED between the Optionor and the Optionee that in the event of default being made by the said Optionee in any one of the payments as above set forth this option to purchase shall become null and void and any payments made prior to such default shall be forfeited to the Optionor and become his absolute property and shall be treated as part of the consideration for the granting of this present option and not as a penalty. The Optionee further covenants that in the event of its dropping the option it will remove any caution it may have caused to be filed against the property.

10. IT IS FURTHER AGREED that in the event of default as in the preceding paragraph mentioned, the Optionee shall be allowed a period of sixty days to remove all equipment, machinery, tools and buildings which it may have on the said property at the time of such default.

11. DURING THE CURRENCY of this option the Optionor will be permitted to make his residence and carry on his farming duties on the said property, and in the event of the Optionee completing all terms and payments of the option, the Optionor is to be allowed a further six months period from the date of the final payment in which to remove his goods and chattels.

12. It is also mutually agreed that the Optionor shall perform the necessary work as required by the Homestead Act and apply for patent and in the event of any default of this clause the Optionee shall have the right to complete such work and make such application and deduct any amount so expended from the next installment or installments due on the purchase price of the property.

13. IT IS AGREED that this is an option to purchase only and nothing herein contained or done hereunder shall obligate the Optionee to pay any purchase moneys or to pay any or any further purchase moneys as the case may be, or to incorporate the said company, unless the Optionee shall so desire.

TIME shall be the essence of this agreement.

THIS AGREEMENT shall enure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns, as the case may be.

IN WITNESS WHEREOF the Optionor of the first part has executed these presents at the town of Kirkland Lake, Ontario, on the 12th day of October, A. D. 1934, and the Optionee has caused its proper signing Officer to execute the same in the town of Kirkland Lake, Township of Teck, Province of Ontario, on the 12th day of October, A. D. 1934.

SIGNED IN PRESENCE OF:

Witness as to signature
of Optionor

[Handwritten signature]

[Handwritten signature]

Witness as to signature
of Optionee

[Handwritten signature]

EMERSONIAN MINES LIMITED
(No Personal Liability)

By *[Handwritten signature]*
_____ Manager

(b) A one-tenth interest or share in the hereinbefore described lands by the issue, allotment and delivery to the Optionor or his nominee, of one hundred thousand shares of stock, fully paid-up and non-assessable, in a Company to be incorporated at the expense of the Optionee for the purpose of acquiring the said property.

It is understood that the Company may be incorporated under the provisions of the Dominion or Ontario Companies Act, and that it shall have a capitalization of not more than three million shares, which shares may be of no par value or may have a nominal or par value of \$1.00 per share. In the event of the ~~Company~~^{Optionee} deciding to exercise its option to purchase the said one-tenth interest, such Company shall be incorporated within three months after the final cash payment has been made by the Optionee to the Optionor as hereinbefore provided, and the stock to be issued and allotted to the Optionor shall be delivered to the said Optionor within thirty days after the completion of the incorporation of the said Company.

*Drawn up by Mr. Liddell as part of
Buck option dated October 12, 1934.*



Golden Arrow Prospect

Main Metals: Au.

Location: Six miles south of Matheson, Hislop township .
11 claims including Con. I lot. 12 S $\frac{1}{2}$, lot. 13
E $\frac{1}{2}$ of S $\frac{1}{2}$. No. 1 shaft in NE $\frac{1}{4}$ of S $\frac{1}{2}$ lot. 13
Con. I and No. 2 shaft in NE $\frac{1}{4}$ of S $\frac{1}{2}$ lot. 12 Con. I.
Map Reference: ODM 1955-5, Township of Hislop.

Geology: The East zone is in a syenite stock about 3,000 feet in diameter with the best gold mineralization extending across the stock. Gold is associated with finely disseminated pyrite in fractured and silicified syenite. The zone is adjacent to a fault which strikes northeast and has been explored to a depth of 400 feet.

The West zone is a quartz stringer zone in basalt adjacent to the stock which strikes N80^oE and dips 65^oN. Pyrite is present in the quartz with the best mineralized zone 120 feet long and 10 to 15 feet wide.

Economic Features: Surface drilling indicated 3 main zones with 1,045 tons per vertical foot averaging 0.134 ounces of gold per ton. Underground development tended to confirm surface drill results. (Survey of Mines 1955 p. 189). A lenticular zone on the 250 level is 150 feet long, 40 feet wide and averages 0.15 ounces of gold per ton (ODM Vol. 65, pt. 5, p. 37).

Ownership: Canadian Arrow Mines Ltd.

History of

Development:

1935-1937: Surface sampling, trenching 800 feet of diamond drilling, and No. 1 shaft sunk to 48 feet, work done by Golden Arrow Mining Company Limited and under an option by Hollinger Consolidated Gold Mines Ltd.

1946-1947: No. 2 shaft sunk to 429 feet, levels at 250 and 400 feet, total drifting 1,628 feet, crosscutting 669 feet, surface drilling 27 holes 14,906 feet, underground drilling 58 holes 3,675 feet, by Golden Arrow Mines Ltd.

Selected
References:

¹⁹³⁶
ODM Rept. Vol. 45, pt. 6, p. 32-33.

¹⁹³⁷
ODM Rept. Vol. 46, pt. 1, p. 138-139.

Canadian Mines Handbook 1938, p. 107.

¹⁹⁴⁷
ODM Rept. Vol. 57, pt. 2, p. 31.

Survey of Mines 1955, p. 189.

¹⁹⁵⁶
ODM Rept. Vol. 65, pt. 5, p. 35-37.

Aug. 14, 1937

SHORT REPORT ON THE GOLDEN ARROW MINING COMPANY PROPERTY

CONCLUSION:

The property is worth preliminary development by trenching or diamond drilling or both.

LOCATION:

The property is located in the South-West corner of Hislop Township, Ramore district. It consists of three claims Nos. L-24661-2-3 comprising the north half of the south half lot 12, Con.1, and the north-east quarter of the south half Lot 13, Con. 1- Hislop, plus one claim acquired for water rights in the north-east corner of McCann township. This claim is #L-27583 and consists of the north-east quarter of the north half Lot 1, Con.1V.

To protect their showing on the dip the Golden Arrow Company has optioned two farm lots to the North, the Fahey Lot (N $\frac{1}{2}$ Lot 12 Con.1) and the Jones Lot (N $\frac{1}{2}$ Lot 13 Con. 1) in Hislop Township.

STANDING:

The three Hislop claims are ready for patent and the McCann claim requires 80 days work, 40 of which is due next July. The Fahey Lot homestead is patented and the Jones Lot practically ready for patent.

ACCESS, ETC.:

The property is reached by a good motor road one-half mile long from the Fergusson Highway at a point 5 $\frac{1}{2}$ miles north of Ramore, the nearest Railroad point. Sufficient water is available on the McCann Township claim and an abundance of timber on the Jones Lot. Electric power is available $\frac{1}{2}$ miles distant.

GEOLOGY:

The claims are underlain by Keewatin greenstones, out, on the South edge of the claims by a large mass of syenite from which small offshoot dykes intrude the greenstones.

Striking E.W. across the north parts of the three Hislop claims and dipping steeply north is a series of fairly strong shear zones. Associated with the shears are narrow quartz veins and stringers together with small irregular streaks and tongues of aplitic material. Accompanying both the quartz, ^{and apite} is a heavy pyrite mineralization carrying values in gold.

Cutting all the above rocks and structures are two diabase dykes, shown on the accompanying sketch. These dykes are, respectively, about 40' and 70' wide.

SHOWINGS:

One of the shear zones referred to above has been developed by one trench and a 45' shaft. This showing occurs about 400' South and 500' East of the north-west corner of claim 24663. The zone has been traced to the East for some 400' by shallow trenches which did not reach fresh rock. Here it is cut by the 40' diabase dyke but is picked up again and traced to the east of the dyke for an additional 250' where it is again out by the 70' diabase dyke. There are some indications of its continuance east of this dyke before it disappears into a large swamp.

Several parallel shears have been located to the south of the main shear and on one of these a little work has been done.

Altogether the only places which are in shape for sampling are the trench just west of the shaft on the main shear and a 12' pit on the first shear south of the main shear. All the other values shown on the enclosed assay plan are from weathered rock. The sampling of the pit near the shaft gave an average of 4.70 dwt. across 15.8' with a strong healthy appearance to the shear and mineralization.

The sampling of the 12' pit on the South shear returned 10.40 dwt. across 2.0'. Sampling at the bottom of the pit was difficult and this does not represent the total width. A representative grab sample of the dump rock from this pit ran 6.00 dwt.

As will be noted on the assay plan, several of the samples of weathered material on both the main shear and the south shear gave fair returns. In as much as the surface rock on the edge of the trench which assayed 4.70 across 15.8' is similar in appearance to the weathered material there is some likelihood that a reasonable length can be opened up along either on both of the shears described which will grade ore.

DIAMOND DRILLING:

Six holes have been drilled all in the shaft area. Of these holes only numbers 1, 3 and 4 intersected the shear. No. 2 passed over the top of the vein before reaching rock; No. 5 was not drilled deep enough and No. 6 was drilled at too flat an angle to the strike and was dissipated in the swamp to the west. There is also some doubt whether or not No. 4 reached the vein. If it did the values in the vein here are negligible.

Hole No.1 assayed as follows:

from 88.75' to 90.0'	-----2.80
" 90.0' " 95.0'	-----8.75
" 95.0' " 100.0'	-----6.30

T-47

The sludge from this hole assayed:

from 90 to 95	-----8.40
" 95 " 100	-----9.80

Hole #3 at 110' showed 0.4' which assayed 25.20 with lower grade material (under 1.00) on either side.

All the above values are reported by the company and none of the ore sections of the core are available. Values are at 35.00 gold.

IMPROVEMENTS:

There is a new frame building in excellent condition on the property which is a combination bunkhouse for 20 men, cookery, and office.

There is also a blacksmith shop and a complete assortment of tools for trenching and hand steel work.

RECOMMENDATIONS:

The surface showing together with the small amount of diamond drilling already done here indicates that the chances of developing a reasonable length of low to medium grade ore over a width of from 10' to 15' are at the least fair. The property is very advantageously located and ore of grade between 4.00 and 5.00 dwt. should be mineable if in bodies of sufficient size.

The possible extent of the ore zones can be easily and relatively cheaply determined by a small amount of trenching and diamond drilling to a shallow depth or even by diamond drilling alone.

It is recommended that the possibilities here be further investigated under the reasonable option obtainable.

August 14, 1937.


G. L. Holbrooke.

T-47



Notes on visit with Dr. W. Ambrose, and Mr. and Mrs. Macmillan, to examine drifting and crosscutting on the first level.

The shaft is in diorite and volcanics, to the north of the syenite plug with which the ore is associated.

The diorite is a dark-green, dense, fine grained type, impossible to distinguish underground from the andesites, but on surface there are places where it displays intrusive phenomena.

The drift southwest from the shaft is in diorite and volcanics for probably 100 feet, before entering the syenite plug. The volcanics are altered in patches near the contact to a dull, purplish-red felsite, and in local patches to brick-red, jasper-like material.

At the north contact of the syenite, the contact is faulted, and the syenite forms a small projection into the lavas to the north.

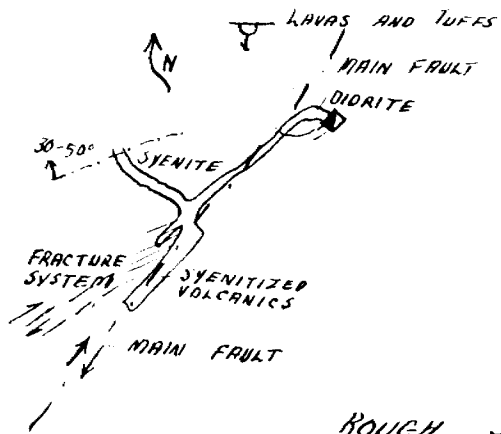


Displacement on the main fault is thought by Dr. Ambrose to be in the order of 150 feet with the west side moving north. Vertical displacement is not known.

The west contact of the syenite, where it projects into the greenstone may also be faulted, but has not been explored.

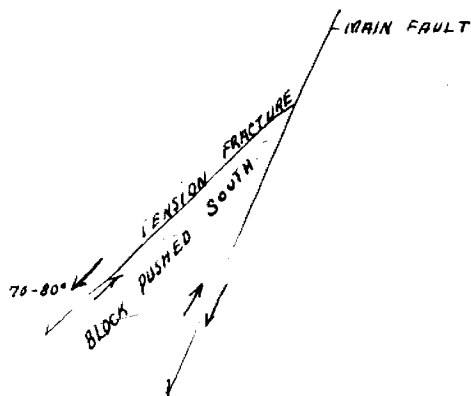
Golden Arrow Mines Ltd.

Hislop Township



ROUGH SKETCH OF LEVEL

Several rather prominent subsidiary faults, of the breccia type were noted, striking south of west, away from the main fault. These are probably tension fractures, but have a small displacement. A quartz vein, appeared to be displaced about three feet on one such fault, displacement being opposite to the main fault, or to the southwest on the south side.



Drifting south is largely west of the fault in the greenstone, but in the syenite a crosscut is driven back to the fault and drifting follows it for about 80 feet to the face. The dip is nearly vertical and the fault very straight along the strike. In places there is a white calcite filling, in other places, several inches of gouge, and in other places, only a narrow slip. The general impression, through, is of a fairly strong fault.

The east wall in this section is a purplish, very hard, syenitized volcanic, of flinty nature. It is mineralized with extremely fine disseminated pyrite and fine pyrite filling tight fractures. This type apparently is the best ore.

West of the fault is a brick-red syenite, with stringers and slips filled with quartz and calcite. Mineralization is a coarser type of disseminated pyrite.

In this red, altered syenite, there is a very ^{prominent} ~~plain~~ set of fractures angling off to the west from the main fault. This pattern can be seen all along the drift, although some larger fractures accentuate it.

The syenite in the large body is a dark grey type with white feldspar and ferromagnesian which has been largely altered to chloritic material. The brick-red variety is an altered type, in general close to the contact and cut by veinlets of quartz and calcite.

In drilling, values were concentrated on the east and west contacts of the projection of syenite, and along the strike in the main body. There were also erratic intersections between the two, in the syenite. These may be explained by the cross-fracture system.



Nelson Hogg,
Resident Geologist.

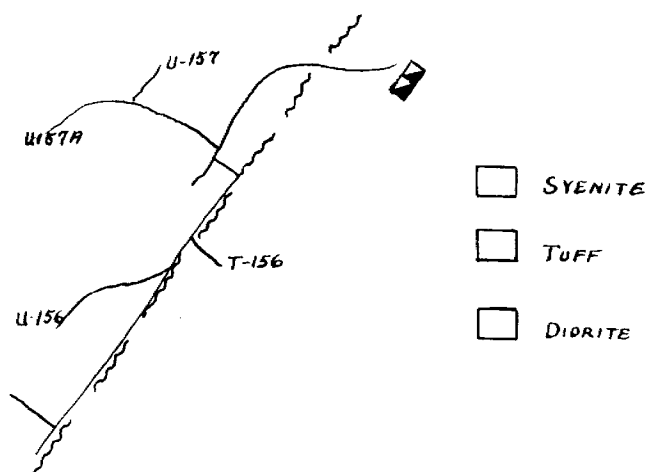
Timmins, Ontario
December 14, 1946

GOLDEN ARROW MINES LTD.

Hislop Township

Notes on an examination of the Golden Arrow Mines Ltd. made with Mr. Kerbie Coombs, engineer. At this time all development except diamond drilling was stopped and the mine was expected to close down shortly for lack of capital.

Development had proceeded further on the 250-foot level since the previous examination, and also had been well started on the 400-foot level



Most of the work on both levels has been along the main fault, but on the 250-foot level a certain amount of exploratory work was carried out.

U157A heading was driven southwesterly, following the syenite volcanics contact. Drilling showed some scattered values here, and it was not known whether or not this was a faulted contact. Drifting showed up local faulting parallel to the contact, but in general an intrusive, tight contact with little of interest in the way of mineralization.

Heading 157 was driven north into the volcanics west of the main fault. It was following a few flat stringers of quartz encountered in the crosscut west. In the face of this heading there are narrow bands of cherty tuff with excellent bedding, striking a little south of east.

Heading T-156, was driven east of the main fault to explore the volcanics-syenite contact but divulged nothing of interest. These volcanics are purplish black, syenitized types, which may be tuffs or andesites. They are also very difficult to distinguish from the rock mapped as diorite, in which the shaft is sunk.

Some of the highest values were located in a subsidiary vein from the main fault, developed in heading U-156. This subsidiary has the character of a tension opening. It leaves the main fault at an angle of 15 to 20 degrees on the west, going south, and in 100 feet it swings back parallel to the main fault. It is a breccia vein, in the syenite, filled with white quartz up to three feet wide, containing angular fragments of brick-red syenite. This white quartz is barren, but high values are associated with narrow ribbons of blue quartz. This blue quartz is only a few inches wide at best and peters out in a length of about ten feet. The best values are near the intersection of U-156 with the main fault, but nothing has been developed that could be considered as ore.

Where the subsidiary turns parallel to the main fault, it is more of a shear, and considerable chlorite is developed along it in the syenite. The syenite is altered to a brick-red colour along the shear.

The main drift south along the fault leaves the contact between syenite and volcanics and continues in red to grey syenite.

The syenite is cut by dykes of lamprophyre and felsite, which apparently angle into the main fault at a small angle. Both types carry pyrite and erratic gold values.

The lamprophyre is a unique rock, dark red in colour and granular in texture, and characterized by well rounded pebbles of brick-red syenite.

The felsite is a dull red colour, felsitic and very tough. It has a sheeted structure and the sheeting is at an angle of about 50 degrees to the main fault. Both these dykes are picked up again on the 400-foot level.

The most consistent ore developed is in the syenite to the west of the main fault. It occurs in a lenticular body 150 feet long and about 40 feet wide, lying between the main fault and a subsidiary, thought to be the same as the subsidiary developed in U-156 drift. The ore is in grey, silicified syenite, with disseminated pyrite. The east wall of the main fault at this point is red syenite, which does not make ore. The orebody averages about 0.15 ounces.

This orebody is terminated to the south along a fault striking obliquely across the drift at about 20 degrees, to the southwest. The main fault is also lost at this point, and may be faulted to the west. However, there is also evidence of weakening prior to reaching the oblique fault.

The drive continues in red syenite, with only short sections of grey, and until a strong fault enters at a small angle from the west. The syenite is cut by occasional cross-stringers which have galena.

Whether this new fault represents the displaced extension of the main break, or an "echelon" extension is not known, but in any case, it is similar in appearance.

400-Foot Level

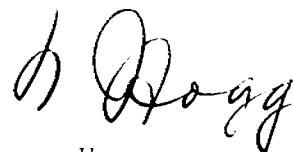
Development on the 400-foot level has been more straightforward than on the 250. A drive was laid out from the station to intersect the main fault where it enters the northern extremity of the syenite. Drifting was confined to following the main break to the southwest. The main fault is dipping about 65 degrees southeast.

The station is in diorite and the drive to the main fault is in diorite and andesite. No contact could be found and the two rocks are very similar in nature.

The first 60 feet of the drift on the main fault, along the contact, between syenite and volcanics, averaged 0.25 ounces in muck samples, which is the best section of ore developed in the mine. Values are in a bluish quartz which carries very fine pyrite and some visible gold in finely divided form.

In this drift on the 400, both the pebble lamprophyre and the red felsite were intersected and in this case the felsite appears to cut both the syenite and the lamprophyre.

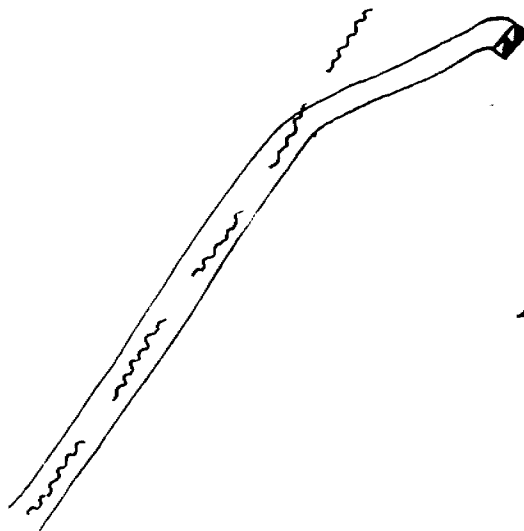
The drift on 400 continues through the zone which ran 0.15 over 150 feet on the 250-foot level. It is being explored to the west by diamond drilling.



Nelson Hogg,
Resident Geologist.

GOLDEN ARROW MINES LTD.

Hislop Twp.



400-FOOT LEVEL



Golden Arrow Mining Company, Ltd.

(NO PERSONAL LIABILITY)

(Incorporated under the Laws of the Province of Ontario)

Head Office: Timmins, Ontario

11 /

Price - 15c per share

Underwriters:

MacMillan Securities Company

1-47

Timmins, Ontario
Telephone 110

Richmond Bldg.
London, Ontario
Telephone Metcalfe 5170 W-J

CAPITALIZATION

3,000,000 shares—	Par Value \$1.00 per share.
TREASURY	1,800,000 shares
ISSUED (Pooled)	1,200,000 shares

OFFICERS AND DIRECTORS

President

Baptiste David Timmins, Ontario

Vice-President

Oscar J. Stahl, M.B., F.R.C.S.E. Timmins, Ontario

Directors

J. P. Bartleman Timmins, Ontario
George A. MacMillan London, Ontario

Secretary:

V. R. MacMillan,
London, Ontario.

Treasurer:

J. P. Bartleman,
Timmins, Ontario.

Solicitors:

Roberts, Osborne and Archibald,
Canada Permanent Bldg.,
Toronto, Ontario.

Auditor:

George N. Ross, C.A.,
Timmins, Ontario.

Registrar and Transfer Agents:

Premier Trust Company,
15 Richmond St., W.,
Toronto, Ontario.

LOCATION:

The properties are located in the South-West corner of Hislop Township with one claim in McCann Township, in the Larder Lake Mining Division, District of Temiskaming, and comprise an area approximately 160 acres, being Claims Nos. L-24661—L-24662—L-24663, in Lots Nos. 12 and 13, Concession 1, Township of Hislop and Claim No. L-27583, Lot 1, Concession 6, Township of McCann. Titles to the above claims are held in Trust for the Company.

PRESENT SITUATION:

There follows in this description of Golden Arrow Mining Company, Limited, a progress report by the Engineer of the private group who opened the property. Since the report was made further trenching and stripping has been done. A permanent camp has been built and equipped to accommodate a crew of twenty men. It will be seen from the following report that a raw prospect has been improved to a point where the outlook now warrants continued development.

Other activities in Hislop and adjoining Townships, according to published reports, have met with very encouraging results, and it has been shown in the past year that this area, which was regarded mainly as agricultural land, has a splendid chance of developing into another important mineral district.

An interesting point relative to the report included herewith is the mention of two types of mineralization, one which is comparable to ore in the Kirkland Lake area, and the other similar to that found in the Porcupine district, the two being found combined in the mineralized sections as so far exposed on the surface and by diamond drilling at Golden Arrow Mining Company, Ltd.

PARTICIPATIONS:

Those participating in this venture can be assured of aiding in the continued exploration and development of a Gold property upon which the pioneering has been done and upon which large amounts of gold-bearing material have been expected, much of it well within the commercial range of value.

(The Company has received payment or commitment to pay for the stock hereby sold from the underwriters; consequently the proceeds of this subscription will not go into the treasury of the Company, the stock of which is hereby sold to you.)

GEOLOGY AND ENGINEER'S REPORT
by Lawrence B. Wright, November 9th., 1934.

Striking East and West generally along the southern portion of the Miles group, trenching and drilling has disclosed a syenite porphory mass.

The intrusion of this igneous rock into the Keewatin lavas (greenstones) has set up a series of shear zones, and fractures, roughly parallel to the contact and about 100 feet from it, to the north.

The mineralization consists of veins and masses of quartz carrying pyrite and some galena and sphalerite. Also, the shear zones are in many cases mineralized up to widths of 20 feet by mass replacement of the greenstone. In these replacement areas may be observed a superposition of veinlets and mass of pink quartz-feldspar-pyrite mineralization. This is undoubtedly an end product of the adjoining syenite intrusive.

The apparent combination of two distinct types of mineralization, one resembling the Porcupine type and the other the Kirkland Lake type, may have more than an academic interest. In my view, there is a fair possibility that the wide-spread mineralization in this section may be generally related to both of the two name districts. This is certainly evidenced in the veins and ore masses and is a point that should be given some weight in a long range economic view.

The trend of mineralization is obliquely cross the regional schistosity and parallel to the syenite contact, which dips to the northward. In a like manner the dip of the shearing is more steeply to the north than that of the schistosity of the wall rocks.

DEVELOPMENT:

No development had been done on this group, excepting three discovery pits up to this early summer. Mr. Paul McDermott had been retained by the writer and Alison & Co., of Canada Ltd., to prospect this general area and finally chose this ground as the most promising showing available. Therefore, a sum of money sufficient to clear, trench and explore by diamond drilling was allotted to this project.

During the next ninety days, and up to the present, 1100 feet of trenching and 1385 feet of short hole drilling has been done.

The drilling was done, one hole excepted, on the West or No. 1 showing. At the completion of the drilling contract and removal of the drill, it was found that claim L-24661 to the east had other important showings. Surface work was continued here in an area of sharp changes in strike and possible folding. This area should be drilled, as well as the intervening muskeg covered stretch.

VALUES:

In all, over 200 samples have been taken, including drill hole sludges, which obviously were largely from wall rock. An analysis of the results shows the following points:

(1) At the West end or No. 1 outcrop, there is indicated by trenching and drilling a mineralized body 120 feet long, 10 to 15 feet wide (depending on the cut-off limits) and cut by the No. 1, 3 and 5 drill holes 60 to 100 feet in depth.

The indicated average value ranges between \$5.00 and \$8.00 per ton (\$35.00 gold).

Holes Nos. 2 and 6 were dissipated in an effort to cut the western projection under the muskeg. These holes in all probability did not interest the vein zone.

(2) East of the No. 1 showing and up to and across the diabase dikes, the shear zone is continuous and contains some vein quartz with values in the commercial range (2.0 feet at \$11.25). (2.0 feet grab at \$21.00 etc.).

(3) Within the diabase "fold," parallel masses occur giving channel and grab assays from \$0.35 to \$17.50 with a number of samples ranging about a \$5.00 to \$6.00 average.

(4) East of the diabase dike, a series of parallel veins occur in the syenite and are lost to view in the greenstone where it passes under the muskeg. The highest assays are from this place, ranging from \$1.05 to \$53.90. The individual veins are narrow but are closely enough spaced to be interesting for deeper exploration.

(5) On the next claim L-24661 occurs a whole series of dikes, veins and mineralized masses from which a number of assays have been taken, both channel and grab samples.

Near the nose of a small fold, for instance, a channel sample gives \$11.20 across 8 feet. Next to it, \$4.50 across 7 feet.

(6) A syenite "vein-dike" just northeast of here averages \$4.50 for a length of over 100 feet and a width of three to four feet. Nine channel samples range from a low of \$1.05 to a high of \$11.90.

CONCLUSIONS:

Certainly, from the above results it can be concluded that this property challenges further exploration, with three major possibilities in view:—

- (a) Large bodies of low grade ore.
- (b) Narrower but richer ore zones along or in the syenite.
- (c) Intermittent ore shoots along a shear zone which might support a moderate scale, medium grade operation by selective mining.

Respectfully submitted,

(signed) L. B. WRIGHT,

Consulting Engineer.

T-47

PHYSICAL CONSIDERATIONS:

The properties are ideally located for development to the producing stage. There is an abundance of water nearby for camp and plant purposes, as well as timber, power and transportation.

DEVELOPMENT PLANS:

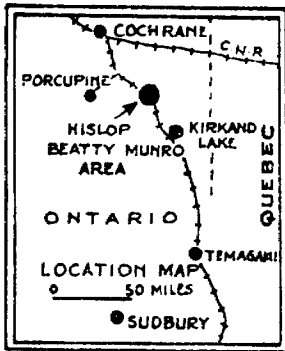
The Company's officials plan to continue development of the veins and ledges both by further diamond drilling and the sinking of prospect pits and shafts. It is planned to concentrate on the east end of the property, the showings on which were discovered after most of the preliminary program was instituted on the west end, and later to further develop the showings at the west end.

MANAGEMENT:

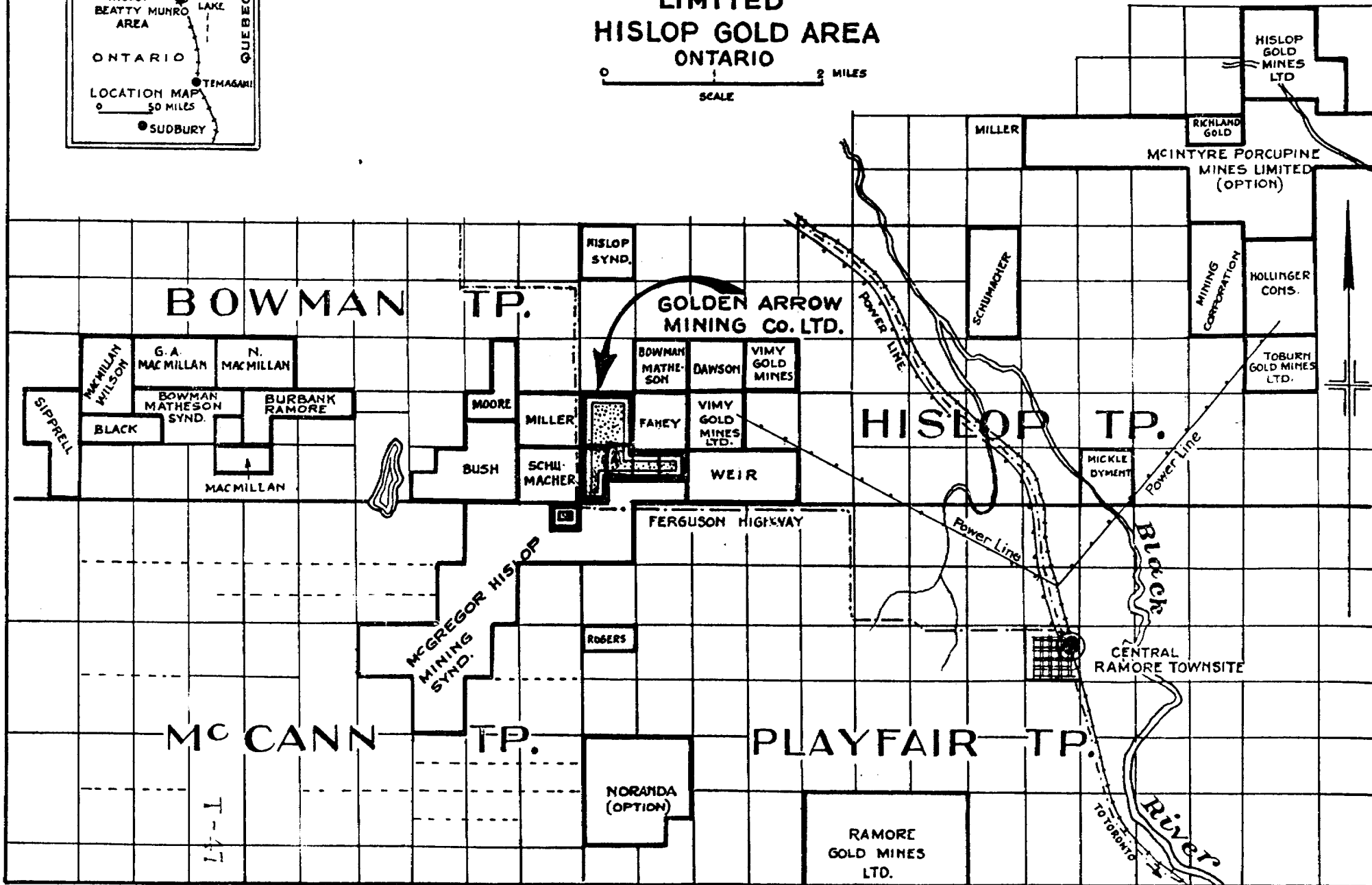
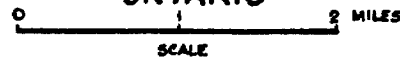
The management plans to engage competent engineering and geological advice, and the work will be directed along the lines laid down by a consulting engineer.

(Information contained herein is received from sources which we believe reliable and to the best of our knowledge represents the facts.)

Hislop Ramore Gold Area



MAP
SHOWING LOCATION OF HOLDINGS
OF
GOLDEN ARROW MINING CO. LIMITED
HISLOP GOLD AREA
ONTARIO



T-17

Golden Arrow Mines Limited

(NO PERSONAL LIABILITY)

(Incorporated under the Laws of the Province of Ontario)



Head Office:
67 YONGE STREET - TORONTO
ADelaide 2035

Golden Arrow Mines Limited

(NO PERSONAL LIABILITY)

CAPITAL:

Authorized: 3,000,000 Shares of the Par Value of \$1.00 each

Incorporated under the Laws of the Province of Ontario

OFFICERS AND DIRECTORS:

V. R. MACMILLAN	-	-	-	-	-	<i>President</i>
G. E. BUCHANAN	-	-	-	-	-	<i>Vice-President</i>
E. K. M. GRAHAM	-	-	-	-	-	<i>Secretary-Treasurer</i>
M. MOSHER	-	-	-	-	-	Toronto, Ont.
W. J. DREANY	-	-	-	-	-	North Bay, Ont.

TRANSFER AGENT AND REGISTRAR:

PREMIER TRUST COMPANY
Toronto, Ontario

AUDITORS:

MESSRS. FOOTE & RAFUSE
London, Ontario

SOLICITORS:

ROBERTS, ARCHIBALD, SEAGRAM & COLE
Toronto, Ontario

DIRECTORS' REPORT

To the Shareholders,
Golden Arrow Mines Limited.
Dear Shareholder:

An important milestone in the history of Golden Arrow Mines Limited has been reached. The splendid ore picture now indicated at the property is made clear in the following report and accompanying map, prepared for us by the Company's consulting Geologist, J. W. Ambrose, Ph.D. As shown therein, the indicated tonnage is regarded as sufficient to warrant immediate plans for shaft sinking and underground development. The Directors, at a meeting held today, therefore decided:

1. To continue diamond drilling as recommended.
2. To take immediate steps to initiate shaft sinking.
3. To contract for electric power to be delivered to the site at the earliest possible moment.

The financial statement herewith shows the favorable position enjoyed by your Company as of December 31st, 1945.

Remaining options, if exercised, will net the Treasury an additional \$112,500.00. This will provide us with ample funds to complete the present development programme, including some underground work.

On behalf of the Board,

V. R. MacMILLAN,

Toronto, January 14th, 1946.

President.

Golden Arrow Mines Limited

(NO PERSONAL LIABILITY)

(INCORPORATED UNDER THE LAWS OF THE PROVINCE OF ONTARIO)

BALANCE SHEET December 31st, 1945

ASSETS

CURRENT:

Cash on hand	\$ 8.27	
Cash in bank	267,803.51	
Sundry accounts receivable	294.20	\$268,105.98

Dominion of Canada Bonds		12,000.00
Investments at Cost Price (Market Value \$5,460.00)		13,250.00

CAPITAL ASSETS:

Mining Properties — 7 Patented Mining Claims and certain Patented Mineral Rights	\$ 18,984.59	
Buildings	1,270.31	
Camp Equipment	1,497.50	
Tools	172.05	
Office Furniture	269.80	
Automobile	200.00	
	<hr/>	
	\$ 22,394.25	
Less: Reserve for Depreciation	995.66	21,398.59

Deferred Charges to Operations consisting of Development, Exploration and Administration Expense for the period from Inception to December 31st, 1945		69,472.83
Organization Expense		2,450.86
Discount on Shares Issued for Mining Claims and other Assets		1,066,019.00
Discount on Treasury Shares		1,122,326.00
		<hr/>
		\$2,575,023.26

LIABILITIES

CURRENT:

Accounts payable	\$ 2,378.26
------------------------	-------------

CAPITAL STOCK:

Authorized — 3,000,000 shares, Par Value \$1.00 each		2,572,645.00
Issued — 2,572,645 shares		<hr/>
		\$2,575,023.26

AUDITORS' REPORT TO THE SHAREHOLDERS

We have audited the Books and Accounts of Golden Arrow Mines Limited for the period from inception to December 31st, 1945, and have obtained all the information and explanations which we have required.

In our opinion, the Balance Sheet is properly drawn up so as to exhibit the true financial position of the Company as at December 31st, 1945, according to the best of our information and the explanations given to us and as shown by the Books of the Company.

LONDON, Ontario, January 12th, 1946.

ROOTE & RAFUSE,
International Accountants.
Per: L. E. Rafuse, F.A.E.

Golden Arrow Mines Limited

(NO PERSONAL LIABILITY)

(INCORPORATED UNDER THE LAWS OF THE PROVINCE OF ONTARIO)

STATEMENT OF DEFERRED CHARGES TO OPERATIONS

For Period From Inception to December 31st, 1945

DEVELOPMENT AND EXPLORATION:

Commissariat	\$	868.75	
Wages		4,033.89	
Assays		2,327.97	
Travelling		2,722.28	
Insurance		271.05	
Miscellaneous Property Expense		3,001.41	
Property Taxes		334.51	
Diamond Drilling		37,024.67	
Unemployment Insurance		3.15	
Prospecting		1,629.50	
Workmen's Compensation		30.00	
Car and Truck Expense		368.30	
Geologists Survey		2,488.55	\$55,104.03

ADMINISTRATION EXPENSE:

Office Supplies	\$	757.83	
Office Services		3,600.00	
Telephone and Telegrams		1,095.56	
Interest		672.35	
Postage		268.45	
Rent		460.00	
Miscellaneous Expense		389.90	
Transfer Agency, Fees, Expense, etc.		1,843.17	
Advertising		627.22	
Annual and Directors' Meetings		59.91	
Legal and Audit		431.44	
Bank Charges		33.09	
Business Taxes and Licenses, etc.		946.22	
Salaries		2,188.00	13,373.14
			<hr/>
			\$68,477.17
Depreciation			995.66
			<hr/>
Amount forward to Balance Sheet			\$69,472.83

Consulting Geologist's Report

Report to the President and Directors of
Golden Arrow Mines Limited.

ORE AT GOLDEN ARROW MINES LIMITED

Ore bodies now being outlined by diamond drilling at Golden Arrow Mines Limited lie in two zones, named the "B" zone and the "C" zone.¹

The "C" zone, the most recently discovered, lies 600 feet east of and is parallel to the "B" zone.

Altogether up to December 23, 1945, 10,386 feet of drilling have been completed on the "B" and "C" zones.² This drilling may be summarized as follows:

Holes completed:	
"B" zone, in volcanics, 7 holes	3207 feet
"B" zone, in syenite, 12 holes	5494 feet
"C" zone, in volcanics, 2 holes	1185 feet
Holes drilling:	
"B" zone, in volcanics, 1 hole	200 feet
"B" zone, in syenite, 1 hole	175 feet
"C" zone, in volcanics, 1 hole	125 feet
Total, to December 23, 1945	10,386 feet

Within the "B" zone ore bodies of two general types are indicated. By far the largest and most consistent ore consists of syenite commonly altered from a grey to a pink or red rock with finely disseminated pyrite, a little galena, rare specks of chalcopyrite and one or two aggregates of sphalerite. Irregular veins and threads of white to grey quartz are uncommon, and visible gold has been discovered in three drill holes, Nos. 21, 26 and 34. In general the gold appears to be associated with pyrite, but the exact relationship between these two remains to be studied.

Three ore bodies have been indicated in the "B" zone to date. These are arranged in a left-hand en echelon pattern. Of these, B.I, or the northernmost is about 335 feet long; the B.II, or middle zone is 175 feet long with the southwest end still open, and the B.III zone is 175 feet long with both ends open.

In addition to these indicated ore bodies, all of which are in syenite, an arm of ore apparently extends northeast from the syenite into volcanic rocks for 200 feet, still open to the northeast.

In the B.I zone, the most thoroughly explored and apparently typical, gold is distributed over widths that in places exceed 150 feet. Within this wide zone, the overall value of which is about \$2.54 (in B.I) blocks of ore at various values can be computed, with higher values for decreased widths and tonnages.

The best grade shoot so far outlined is 337 feet long, averages 21.4 feet wide and grades \$5.13 per ton. A summary of the ore and values to date is given in the following table:

Zone	Rock Type	Length	Average Width	Grade
B.I	Syenite	337.5 ft.	21.4 ft.	\$5.13
B.I	Volcanics	200 ft.	10.0 ft.	\$5.00
B.II	Syenite	175 ft.	12.1 ft.	\$5.29
B.III	Syenite	175 ft.	7.1 ft.	\$5.26
Indicated ore: 1045 tons per vertical foot at \$5.15.				
B.I	Syenite	337.5 ft.	51.0 ft.	\$3.27
B.II	Syenite	275 ft.	22.5 ft.	\$3.09
B.III	Syenite	175 ft.	18.0 ft.	\$3.02
Indicated ore: 2207 tons per vertical foot at \$3.20.				

¹ The "A" or shaft zone lies approximately 1600 feet west of the "B" zone.

² First drilling in 1945 was concentrated on the "A" zone. Thirteen holes were drilled for a total of 3341 feet.

B.I	Syenite	.....337.5 ft.	110.0 ft.	\$2.54
B.II	Syenite	.....275 ft.	64.5 ft.	\$2.11
B.III	Syenite	.....175 ft.	33.3 ft.	\$2.25

Indicated ore: 5056 tons per vertical foot at \$2.38.

The "C" zone was discovered early in December, 1945 in Hole No. 30. To date it has been cut by one other hole, C.1. A third hole, C.2, is presently being drilled to cut the zone 80 feet southwest of hole 30. From the information now at hand, the zone appears to occupy a well-defined fault zone which trends southwest, parallel to the "B" zone, with a true width, in Hole 30, the farthest southwest of 7.4 feet, valued at \$5.82.

A new discovery, of prospecting interest, has been named the Rocco vein. This is a sulphide-bearing quartz vein, exposed on the surface near the collar of Drill hole C.2. Selected surface samples exposed 1 oz. in gold. The vein on the surface is not over 8 inches wide. It was intersected in Hole 30, where it gave 0.105 oz. across 8 inches. In Hole C.1 the vein was cut and gave 0.41 oz. across 22 inches of quartz.

This vein strikes east, in contrast to the northeast-southwest strike of other gold-bearing structures known on this property. Furthermore the gold is in quartz and this is entirely different from the common host rock at Golden Arrow. It appears to be widening somewhat as it is followed downwards and to the east. Some further investigation of it appears to be warranted.

DEVELOPMENT PROGRAMME

The "B" zone strikes southwest under drift-covered country. Similar gold-bearing syenite to that carrying the ore is exposed on the highway 2200 feet on strike from hole 34. The zone will be drilled off at intervals of 100 to 200 feet. To drill the full length will require some 7,500 feet of drilling.

The "C" zone also strikes southwest parallel to the "B" zone. It will be drilled off at intervals of 100 feet. At least 5000 feet of drilling should be allocated for this purpose.

The drift-covered area west of "B" will be cross-sectioned. This will require 1500 feet of drilling.

The area between "B" and "C" zone will be cross-sectioned. This will require 1000 feet of drilling.

The Rocco vein will be explored by 2 or 3 short holes, requiring altogether, some 600-900 feet of drilling.

A possible fault suggested by the magnetometer survey lies east of and is parallel to the "C" zone. It should be tested by one or two holes, or 1000 feet of drilling.

The drilling programme can thus be summarized as follows:

"B" zone extension	.....	7,500 feet.
"C" zone extension	.....	5,000 feet.
Cross-sectioning	.....	2,500 feet.
Rocco Vein	.....	900 feet.
Possible parallel zone	.....	1,000 feet.
		16,900 feet.

Three drills are now operating at the property. At current rates of drilling this programme should be completed in 2½ to 4 months.

From the results to date it is now clear that a shaft must be sunk to examine this ore by underground development. Arrangements should be made as soon as possible for equipment and power for this purpose. Final decision as to exact size and location of the shaft will be made as the drilling programme nears completion.

J. W. AMBROSE, Ph.D.

January 4th, 1946.

CONSOLIDATED GOLDEN ARROW MINES LIMITED

(No Personal Liability)

416 - 25 Adelaide Street, West

Toronto, Ontario

To the Shareholders:

TAKE NOTICE that the Annual Meeting of the Shareholders of Consolidated Golden Arrow Mines Limited, will be held in Room 416, 25 Adelaide Street, West, Toronto, Ontario on Thursday, the 9th day of September, 1954 at the hour of 3:30 o'clock in the afternoon (Toronto Time), for the following purposes, namely:

1. To receive reports;
2. To elect Directors;
3. To appoint Auditors
4. To transact all such other business as may properly come before the Meeting.

A copy of the Report and the Balance Sheet to be submitted to such Meeting is forwarded herewith.

Shareholders who are unable to attend are requested kindly to sign and return the attached proxy.

DATED this 27th day of August, 1954.

By Order of the Board,

E.K.M. GRAHAM,

Secretary.

CONSOLIDATED GOLDEN ARROW MINES LIMITED
ANNUAL REPORT

To the Shareholders:

After the re-organization approved at the last meeting of Shareholders, funds were raised to commence development of the Company's mining interests in Pacaud Township, District of Temiskaming, Ontario.

As reported to the shareholders on July 29, 1953, the #2 zone on the former Trethewey Ossian property, in which high copper values had been cut by surface diamond drilling, was opened on the second level by a cross cut. A small lense of copper ore was developed, but in the opinion of the directors, it was of insufficient size to warrant further development. Following underground drilling the Company decided to relinquish its rights with respect to this property.

The Company's mineral claims in the St. Mary's Channel section, Beaverlodge Area, Saskatchewan are held in good standing.

As the gold mining industry has not enjoyed improved conditions, the Directors have continued the policy of minimum maintenance of plant and buildings on the Company's Bishop Township Property.

Your Directors have adopted a policy of having the Company investigate any promising mining prospects which come to their attention.

On behalf of the Board.

G. E. Buchanan

President.

Toronto, Ontario
August 27th, 1954.

CONSOLIDATED GOLDEN ARROW MINES LIMITED
(No Personal Liability)

INCORPORATED UNDER THE LAWS OF THE PROVINCE OF ONTARIO, CANADA)

BALANCE SHEET - DECEMBER 31st, 1953

ASSETS

CURRENT ASSETS

Cash in Bank.....	\$ 119.38	
Accounts Receivable.....	9,042.89	
Investment in Marketable Securities at Cost (Quoted Market Value as at December 31st, 1953 \$63,757.61)	25,684.88	
Prepaid Expense.....	<u>1,027.96</u>	35,875.11

Bonds Deposited with the Hydro Electric Power Commission at Cost.....		7,500.00
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Investments in Shares and Interests in Other Mining and Exploration Companies at cost.		69,945.82
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CAPITAL ASSETS

Mining Properties - 7 Patented, certain unpatented Mining Claims and Patented Mining Rights.....	63,984.59	
Buildings.....	9,755.36	
Equipment.....	29,032.13	
Power Installations.....	8,455.14	
Tools.....	172.05	
Office Furniture.....	887.15	
	<u>112,286.42</u>	
Less: Reserve for Capital Cost Allowance.	<u>5,220.63</u>	107,065.79

Deferred Charges to Operations, Consisting of Development, Exploration and Administration Expense.....		466,347.22
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Organization Expense.....		<u>3,975.21</u>
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TOTAL ASSETS.....		<u>690,709.15</u>
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LIABILITIES

CURRENT LIABILITIES

Accounts Payable.....	3,638.82	
Loan Payable.....	<u>22,000.00</u>	25,638.82

CAPITAL STOCK

Authorized-3,000,000 Shares Par Value \$1.00 each.		
Shares in Treasury - 1,742,713		
Shares Issued - 1,257,287.....	1,257,287.00	
Less: Discount on Shares Issued for Mining Claims and Other Assets.....	315,000.00	
Discount on Treasury Shares.....	<u>277,216.67</u>	<u>592,216.67</u>
		665,070.33

TOTAL LIABILITIES AND CAPITAL.....		<u>690,709.15</u>
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We have audited the Books and Accounts of Consolidated Golden Arrow Mines Limited for the period ended December 31st, 1953, and have obtained all the information and explanations we have required.

In our opinion, the Balance Sheet is properly drawn up so as to exhibit the true financial position of the Company as at December 31st, 1953, according to the best of our information and the explanations given to us and as shown by the Books of the Company.

Approved By:
(Signed) D. I. Drewe
Director

FOOTE & RAFUSE
Certified Public Accountants
(N.B.)

(Signed) E.K.M. Graham
Director

Per: (Signed) L. E. Rafuse

CONSOLIDATED GOLDEN ARROW MINES LIMITED
(No Personal Liability)

(INCORPORATED UNDER THE LAWS OF THE PROVINCE OF ONTARIO, CANADA)

STATEMENT OF DEFERRED CHARGES TO OPERATIONS

AS AT DECEMBER 31st, 1953

DEVELOPMENT AND EXPLORATION

Development Expense, Properties.....	455,165.64	
Management.....	600.00	
Geologist Fees.....	600.00	
Licenses, Etc.....	236.91	
Workmen's Compensation.....	71.92	
Unemployment Insurance.....	58.20	
Travelling.....	429.81	
Insurance.....	155.64	457,318.12

ADMINISTRATION EXPENSE

Office Services.....	3,300.00	
Stationery and Office Supplies.....	150.23	
Telephone and Telegraph.....	508.25	
Transfer Fees and Expense.....	3,026.96	
Miscellaneous Expense.....	194.98	
Interest and Bank Charges.....	428.75	
Legal and Audit.....	1,103.93	
Stock Exchange Fees.....	540.00	9,254.10

Deduct: Interest on Investments..... 225.00

Total Amount Deferred to Future..... 466,347.22



42A08NW8814 63.3096 HISLOP

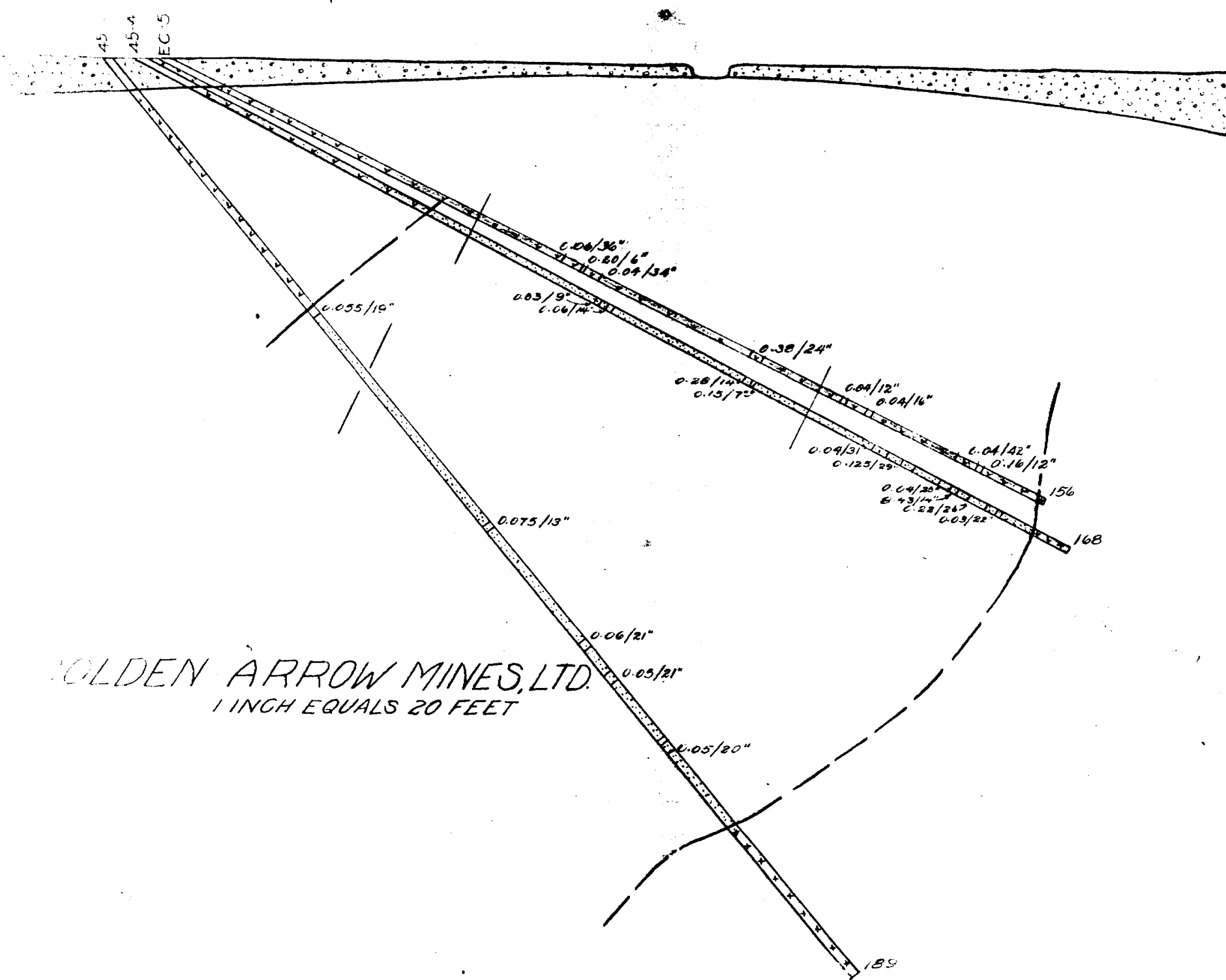
060

Diamond Drilling

Sections

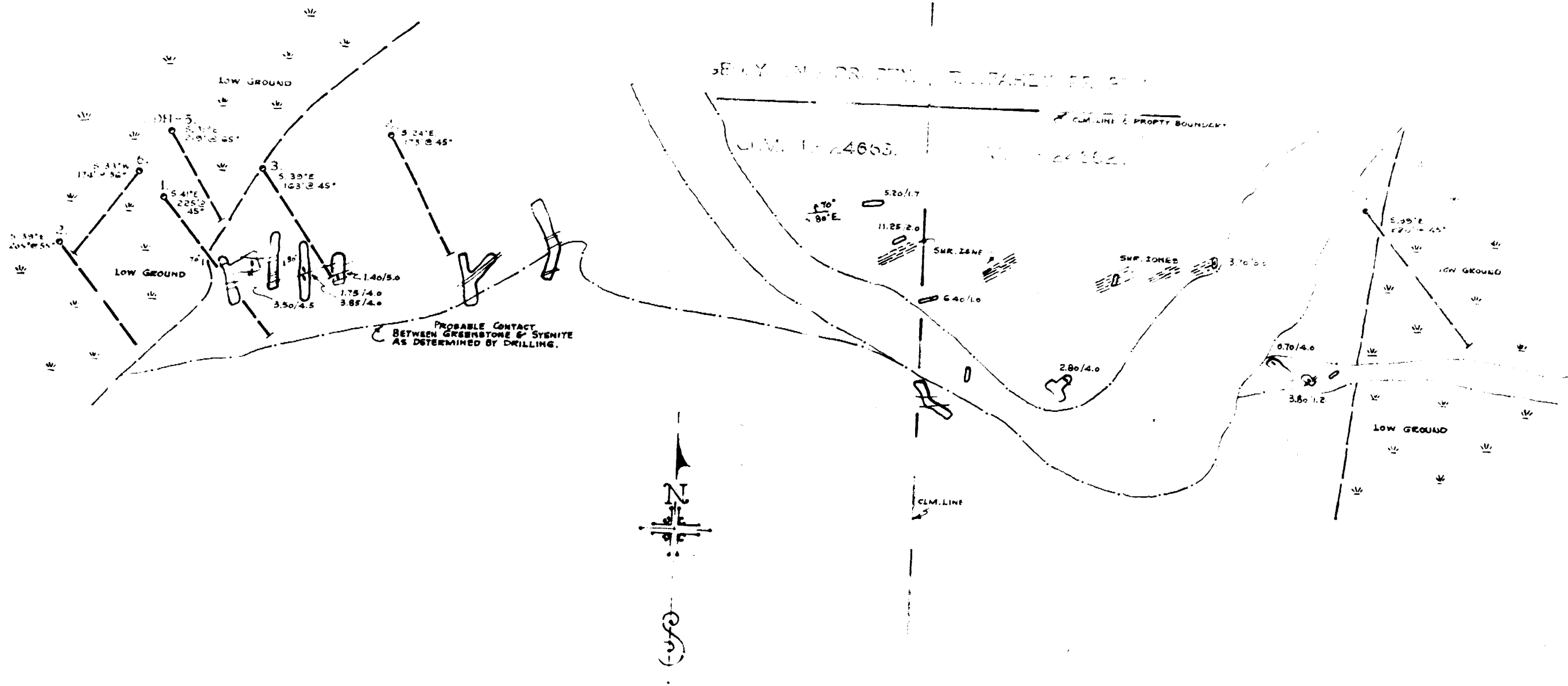
&

Logs



GOLDEN ARROW MINES, LTD.
 1 INCH EQUALS 20 FEET



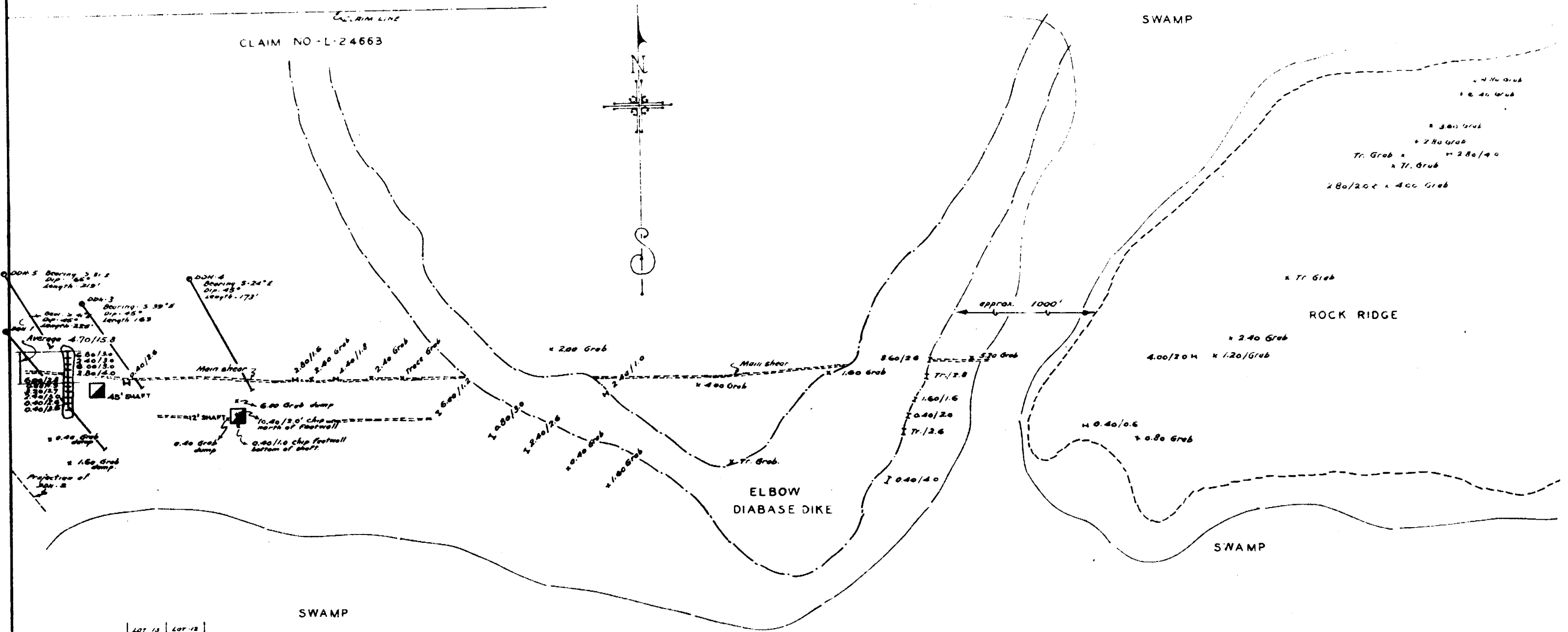


SYLVANITE GOLD MINES LTD.
 EXPLORATION DEPT.
 DRAWING SURFACE ASSAY PLAN
 SHOWING D.D.HOLES.
 LOCATION GOLDEN ARROW MINES.
 HISLOP T.M.P.
 SCALE 1"=100'
 DRAWN BY K.M.M. AFTER S.A. MINES.
 REF. NO. 429.
 DATE JULY 23-40.

JONES OPTION

CLAIM NO - L-24663

SWAMP



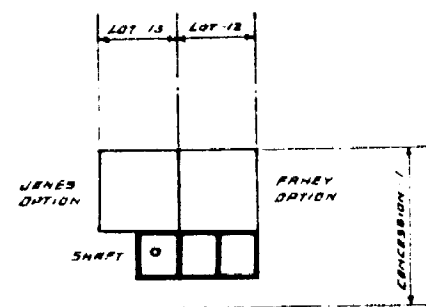
2.40 Grab
1.20 Grab
3.00 Grab
2.80 Grab
Tr. Grab
2.80/4.0
Tr. Grab
2.80/2.0 x 4.00 Grab

approx. 1000'
ROCK RIDGE

ELBOW
DIABASE DIKE

SWAMP

SWAMP

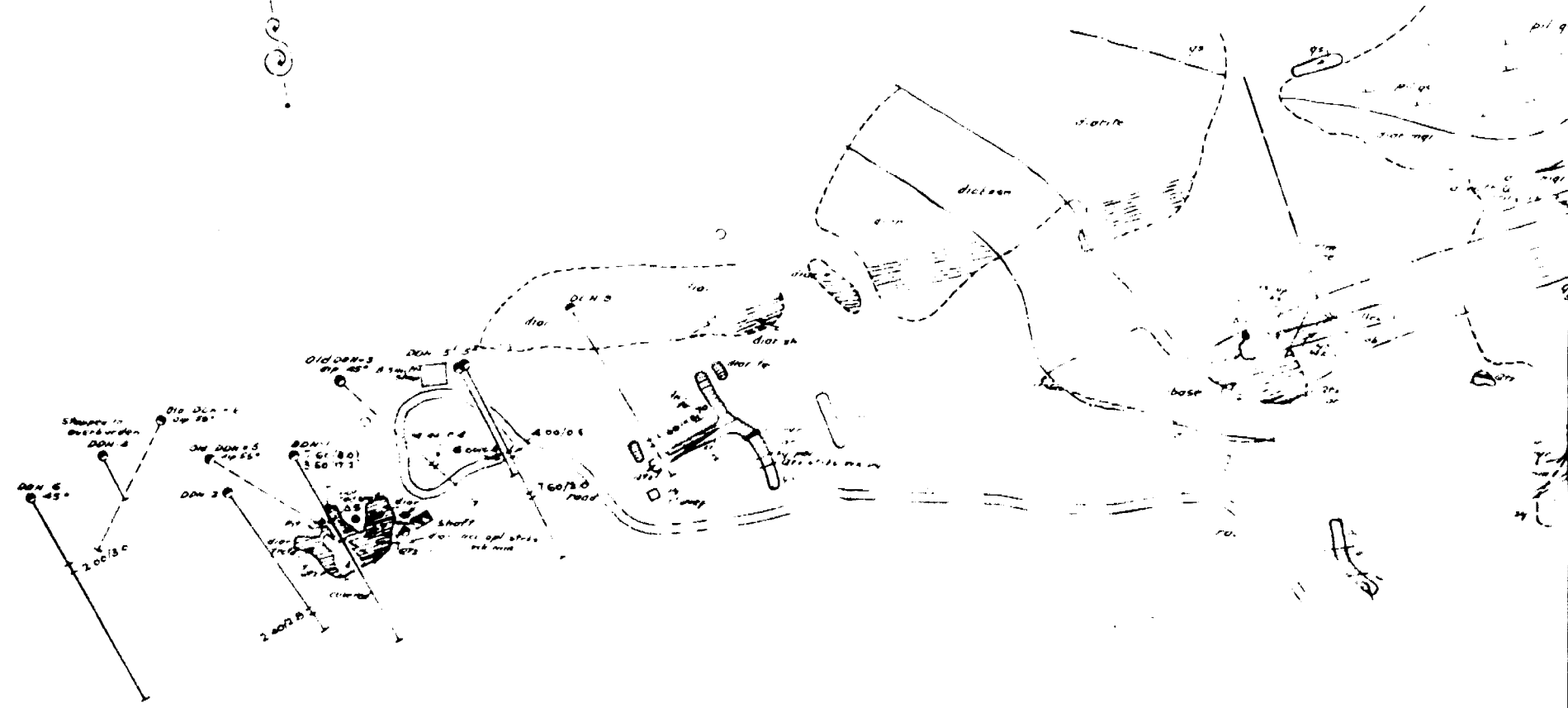


INDEX MAP

L-27581
L-24663
L-24662
L-24661

ERIE CANADIAN MINES.

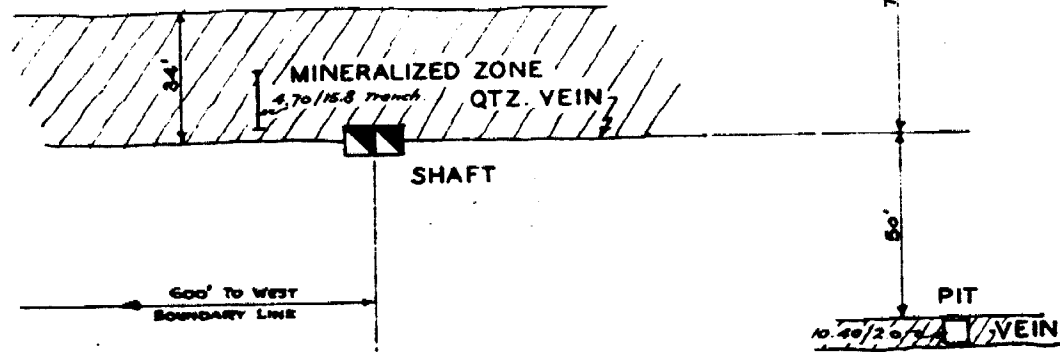
DRAWING LOCATION	ASSAY PLAN. GOLDEN ARROW MINE HISLOP TWP.
SCALE	1" = 100' APPROX.
MAPPED BY	D.A.C.
SAMPLED BY	D.A.C.
DRAWN BY	K.O.M.
REF. NO.	
DATE	AUG. 12-37.



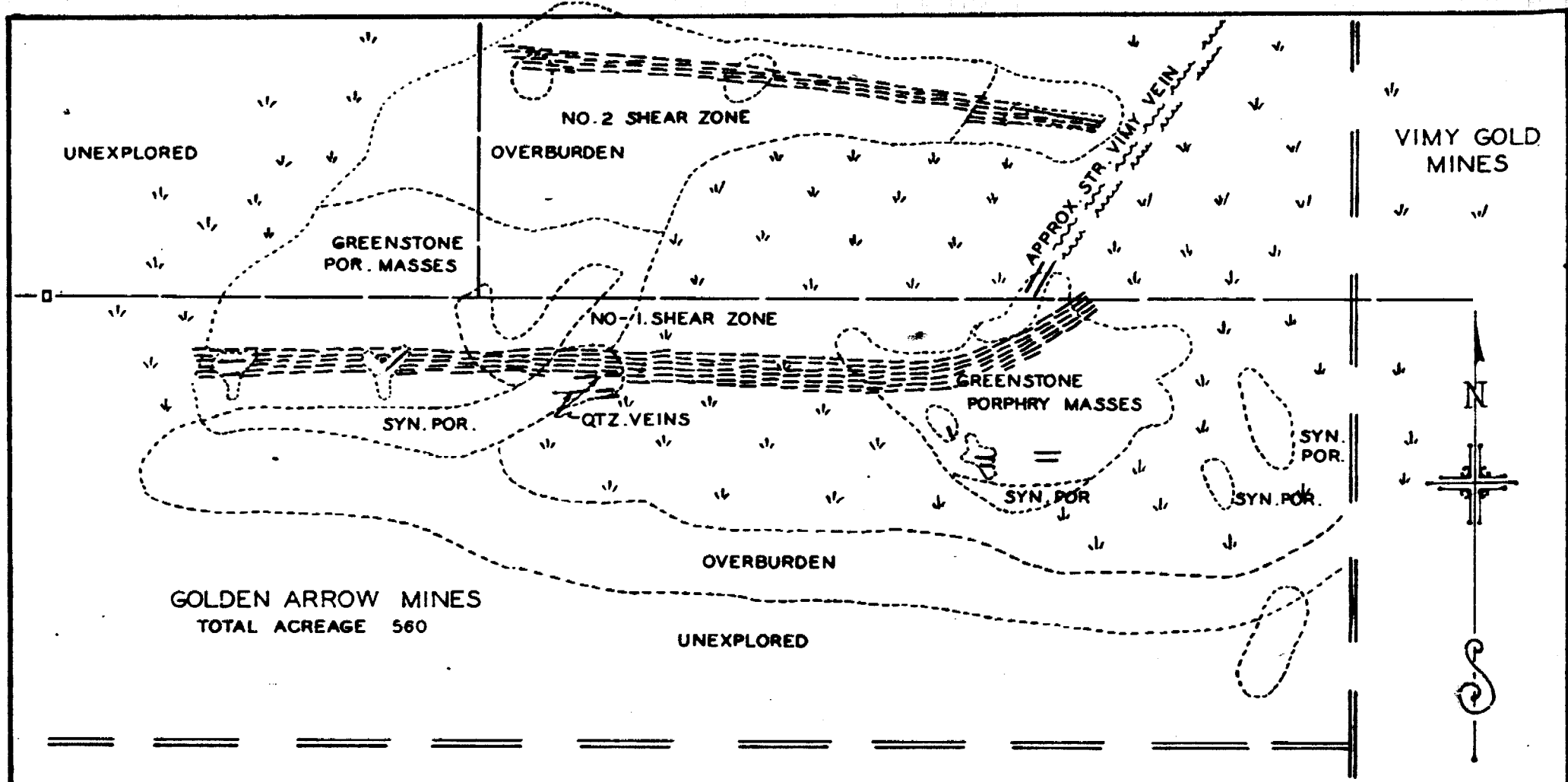


ERIE CANADIAN MINES

DRAWING	GEOL. PLAN SHOWING DIAMOND DRILLING.
LOCATION	GOLDEN ARROW MINES HISLOP TWP.
SCALE	1" = 100'
MAPPED BY	G.L.H. D.K.B. & K.O.M.
DRAWN BY	K.O.M.
REF. NO.	429.
DATE	OCT. 6 - 37.



ERIE CANADIAN MINES	
DRAWING LOCATION	D.D.H. LAYOUT GOLDEN ARROW MINE - HISLOP TWP.
SCALE	1" - 50'
DRAWN BY	K.O.M.
REF. NO.	
DATE	AUG. 28-37.

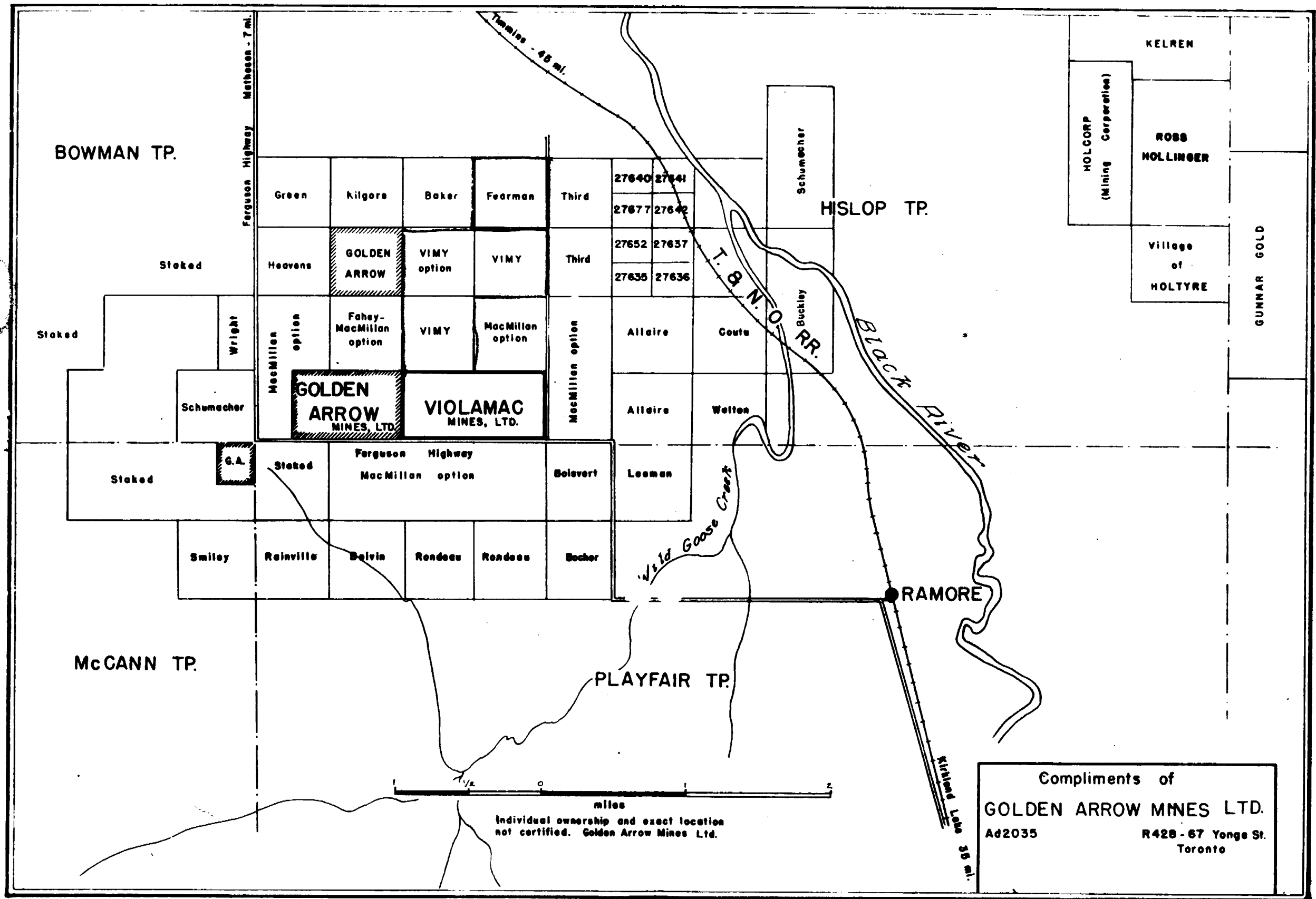


McGREGOR HISLOP MINING SYNDICATE

FERGUSON HIGHWAY

ERIE CANADIAN MINES

DRAWING LOCATION	GEOLOGIC SKETCH GOLDEN ARROW MINES - HISLOP & BOWMAN TWPS.
SCALE	3" - 40 CHAINS.
SOURCE	OLD GOLDEN ARROW MAP.
DRAWN BY	K.O.M.
REF. NO.	429
DATE	SEPT. 20-37.



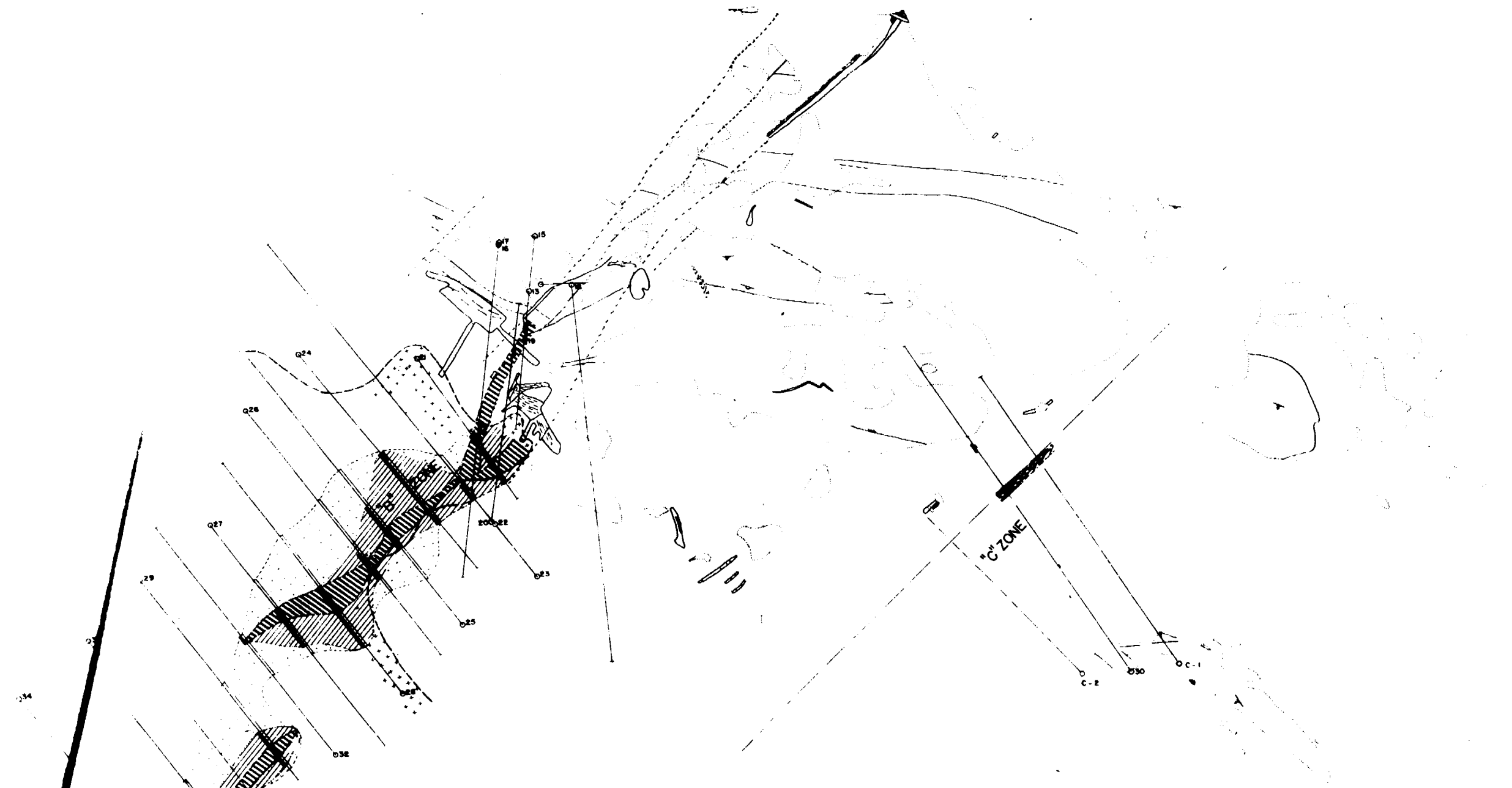
KELREN
 ROSS HOLLINGER
 Village of HOLTYRE

HOLCORP
 (Mining Corporation)

GUNNAR GOLD

Compliments of
GOLDEN ARROW MINES LTD.
 A42035 R428-67 Yonge St.
 Toronto

miles
 Individual ownership and exact location
 not certified. Golden Arrow Mines Ltd.

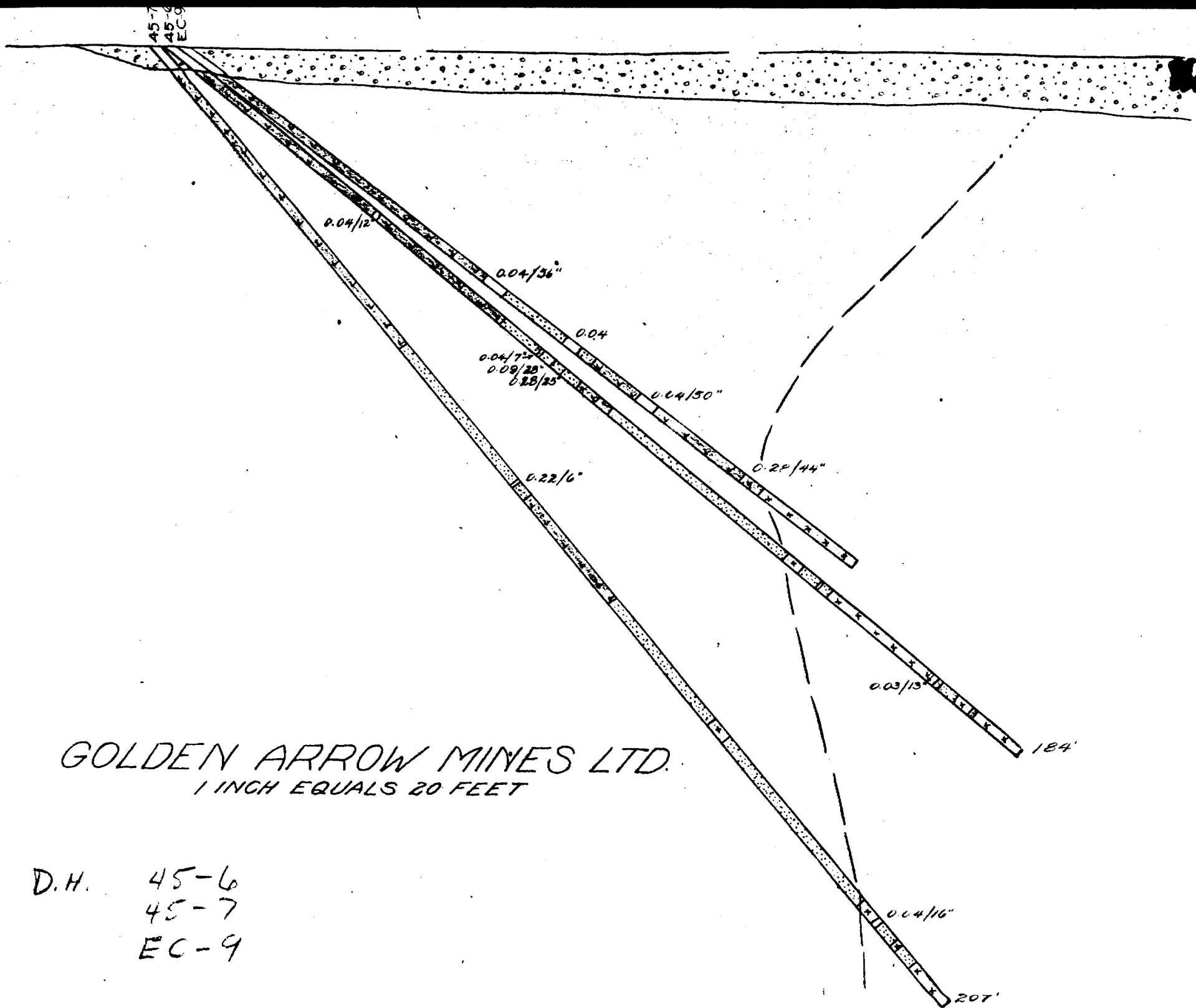


Average grade "B" zone \$5.15
 1045 tons per vertical foot to date
 "C" zone \$5.13
 Average grade "B" zone \$3.20
 2207 tons per vertical foot to date
 "C" zone \$3.65
 Average grade "B" zone \$2.38
 5056 tons per vertical foot to date
 Syenite
 Volcanics
 Note: Average depth of intersections, 170 feet
 Maximum depth 282 feet

DRILLING PLAN
GOLDEN ARROW MINES LTD
 HISLOP TOWNSHIP
 ONTARIO
 SCALE
 0 20 30 100 150 200 250
 FEET



Map prepared by GOLDEN ARROW MINES LTD
 December 6, 1945



GOLDEN ARROW MINES LTD.
 1 INCH EQUALS 20 FEET

D.H. 45-6
 45-7
 EC-9

CH-4

PROPERTY Golden A. w. Mines Limited

HOLE NUMBER 479

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. E. C. 1 Section
DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
DIP - 50°

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 19'	Casing;				
19'-41'6"	DIORITE				
	Dark grey fine grained with low pyrite, rare quartz stringers.				
41'6"-43'9"	FELDSPAR PORPHYRY				
	Trachytic texture, low fine pyrite.				
43'9"-190'	DIORITE				
	Low pyrite; epidote streaks.				
	47'6" - 47'9" Pink silicious material in 1" quartz vein.				
	Low quartz stringers.				
	114'-115'9" 2 quartz stringers, 1", with specularite streaks, low pyrite.	187	21	Tr.	
	120'-121'9" - low to medium pyrite; 3 one half inch veins crystals white carbonate	186	21	Tr.	
	130'-131'8" carbonate veinlets, hematite 1/8", low pyrite.	188	20	Tr.	
	137'5" - 138'8" low quartz, no pyrite	191	15	Tr.	
	140' - 141'5" ; low pyrite	189	17	.02	
	142' - 143'7", low pyrite, quartz & carbonate veinlets.	192	18	Tr.	

NORTHERN MINER PRESS LIMITED, TORONTO - STOCK FORM NO. 501 REV. 5/44

DRILLED BY

SIGNED

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 45

SHEET NUMBER 2

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. E. C. 1 Section
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 50°

STARTED
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
145'11" - 147'	Carbonate streaks, low pyrite.	190	13	Tr.	
160' - 161'	Core ground and chewed up.				
161' - 164'3"	Low pyrite in medium grained diorite.	193	39	.01	
170'9" - 172'	low pyrite in crystals diorite.	194	16	Tr.	
175' - 177'4"	Epidote and low pyrite in greenstone inclusion in diorite. Low quartz.	195	29	Tr.	
	Diorite becomes increasingly fine grained with change to greenstone about 190 feet.				
187'5" - 189'5"	Low pyrite, little pink to red silica	196	24	Tr.	
190' - 235'	GREENSTONE Dense, in part almost cherty.				
	194'4" - 194'8", High pyrite.	197	4	.05	
	195' - 195'6"- Core fractured and broken.				

PROPERTY Golden A Mines Limited

HOLE NUMBER 15-0

SHEET NUMBER 3

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. E. C. 1 Section
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 50°

STARTED
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
196'	196'6" - MUD SEAM				
198'4"	200' Low pyrite, low red silica	198	20	Tr.	
200'	201'4" Dense greenstone, low pyrite.	261	16	Tr.	
201'4"	202'8" Dense greenston, low pyrite.	262	16	Tr.	
202'8"-204'4"	Low pyrite, greenstone	199	20	.03	
205'-206'8"	Low pyrite; low shear at 70° to core axis.	200	20	Tr.	
206'8"	208'3" As above.	201	19	Tr.	
208'3"	210' As above, Probably all TUFFS.	263	21	Tr.	
216'2"	218'2" Medium pyrite, quartz stringers in dense greenstone.	205	24	.02	
218'2"	220' Medium pyrite, no quartz	206	22	.03	
220'-221'8"	Low quartz stringers, low pyrite.	202	20	.01	
221'8"	223'7" - Medium pyrite in thin streaks at 80° to core axis, one 4" vein white quartz with some chlorite; red to pink silicification.	203	25	.035	
223'7"	225' Low pyrite in dense greenstone	204	15	.005	
225'	226' low to medium pyrite in dense greenstone	207	23	.04	
226'	230' low carbonate, low pyrite; low quartz	208	27	.03	

NORTHERN MINER PRLES LIMITED, TORONTO - STOCK FORM NO. 501 REV. 9.44

DRILLED BY

SIGNER

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 5-8

SHEET NUMBER 4

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. B. C. 1 Section
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 50°

STARTED
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	232'8" - 234'8" Low pyrite; one 1/4 inch quartz veinlet with medium pyrite, low chalcoppyrite, some carbonates.	209	24	.02	
275' - 255'	DIORITE; medium grained, massive with low pyrite throughout.				
	242'8" - 244'4" medium pyrite in rare streaks.	210	25	.01	
	246'3" - 247'7" low pyrite in massive diorite.	211	16	.01	
	247'7" - 250' some heavy pyrite on seams, rare quartz stringers.	212	29	.005	
	250' - 252'4" low to medium pyrite.	213	28	.015	
	252'4" - 254'4" low to medium pyrite.	214	24	.01	
255' - 262'10"	GREENSTONE ?				
	Dense rock, but am not entirely certain it cannot be diorite.				
	255'9" - 258' low pyrite	215	27	.02	
262'10"-263'7"	DIORITE				
	Low pyrite with one 1/4" vein pink carbonates. 262'10" - 265'	216	26	.015	
	265' - 267'8" low pyrite; pink silica threads in rare partings.	217	22	.01	

NORTHERN MINER PRESS LIMITED, TORONTO - STOCK FORM NO. 251 REV. 5-44

DRILLED BY

SIGNED

PROPERTY Golden A W. Mines Limited

HOLE NUMBER 8

SHEET NUMBER 5

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. E.C. 1 Section
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 50°

STARTED
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	267'8" - 270' low pyrite in fine diorite.	218	28	.015	
	271'11" - 275' Increasing amount of silicification with low pyrite; rock becoming dull to brick red, medium grained.	219	37	.01	
	275'-277'9" - Rock a dull red due to silicification, low pyrite.	220	33	.01	
	282'4" - 285' reddish rock with little or no pyrite. One 3" vein white quartz with specks of hematite?	221	20	.005	
	285'- 286'10" Less reddish material in streaks, low pyrite	222	22	.005	
	286'10" - 288'10"; much as above.	223	24	.005	
	291'2" - 292'; dense rock with medium pink silicification, low pyrite some slickensides.	224	22	.01	
	293' - 295'; low pink silicification, low pyrite.	225	24	.01	
	295'4" - 297'5"; low pink silicification, low pyrite, rare pyrite streaks.	226	25	.06	
	297'5" - 300' low pyrite, one 2" quartz vein with some pyrite; note 1 1/2" gray				

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

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PROPERTY Golden Ar Mines Limited

HOLE NUMBER 8

SHEET NUMBER 6

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. E. C. 1 Section
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 50°

STARTED
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	quartz with pyrite, 1/2" white with no pyrite.	227	31	.02	
	301'5" - 303'7" - medium pink silicification very low pyrite.	228	26	nil	
303'7" - 310'	GREENSTONE; very dense with low dissemination pyrite.				
	305' - 307'4" low dissemination pyrite one 1/2" quartz stringer.	229	26	.01	
310' - 333'2"	DIORITE ?				
	Dense to medium grained, with swarms feldspar laths; low pyrite.				
	310' - 312'2" low pyrite, one 1/8" quartz epidote stringer.	230	26	nil	
	315' - 316'10" low pyrite.	231	22	nil	
	320' - 321'7" Greenstone with 7" syenite dike from 320'10" - 321'5"	232	19	.005	
	322'9" - 325' very low pyrite in greenstone.	233	27	.01	
	325' - 327'5" very low pyrite in greenstone.	234	29	.01	
	327'5" - 330' low pyrite, low epidote.	235	31	nil	
	331'5" - 333'2" low pyrite, low epidote.	236	21	.005	
333'2" - 340'	SYENITE				
	333'2" - 335' very low pyrite; little				

PROPERTY Golden A w Mines Limited

HOLE NUMBER 4-10

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 13'E of #2
DEP.

STARTED May, 1945

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING
DIP - 55°

228 feet.
PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 4'	Casing.				
4' - 96'8"	DIORITE; Coarse grained, with irregular veinlets quartz. At 17 feet 1/2 vein quartz with heavy specularite along margin. Progressively finer grained to 21 feet where abrupt transition to coarse. Coarse becomes progressively finer to 49 feet where sharp contact against medium grained. Contact at 90° to core axis. Threads pyrite, irregular veinlets quartz common throughout. Coarsest 60 - 65' then gradually finer grained again. 75' - 76'8" low pyrite in medium to fine diorite.				
		345	20	Tr.	
	76'8" - 78'4" " " " " "	346	20	Tr.	
	78'4" - 80' " " " " "	347	20	Tr.	
	80' - 81'8" " " " " "	348	20	Tr.	

PROPERTY Golden Arr Mines Limited

HOLE NUMBER 4' 10

SHEET NUMBER 2

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 13' E. of #2
 DEP.

STARTED May, 1945

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING

PROPOSED DEPTH

DIP - 55°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
81'8" - 83'4"	low pyrite in medium to fine diorite.	349	20	Tr.	
83'4" - 85'	low pyrite, low carbonates low silicification.	350	20	Tr.	
85' - 86'8"	low pyrite.	351	20	Tr.	
86'8" - 88'4"	low pyrite, low hematite, low quartz.	352	20	Tr.	
88'4" - 90'	low pyrite in diorite	353	20	Tr.	
90' - 91'8"	" " " "	354	20	Tr.	
91'8" - 93'4"	" " " "	355	20	Tr.	
93'4" - 95"	Pink carbonates with heavy pyrite, 1"	356	20	Tr.	
95' - 96'8"	low shear at 65° to core axis.	357	20	Tr.	
96'8" - 206'2"	GREENSTONE - TUFFS ? Low shear developed throughout low pyrite.				
96'8"-98'4"	low pyrite in tuffs; low shear	358	20	Tr.	
98'4"-100"	" " " "	359	20	Tr.	
100'-101'8"	" " " "	360	20	.04	
101'8"-103'4"	" " " "	361	20	Nil	

PROPERTY Golden Ar v Mines Limited

HOLE NUMBER 45-10

SHEET NUMBER

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 17' E. of #2
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 55°

STARTED May, 1945
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH 228 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	103'4"-105' low pyrite in tuffs; low shear.	362	20	.01	
	105' - 106'8" " " " " " "	363	20	Tr.	
	106'8"-108'4" " " " " " "	364	20		
	108'4" - 110' " " " " " "	365	20		
	110' - 111'8" " " " " " "	366	20	Tr.	
	111'8" - 113'4" " " " " " "	367	20	Tr.	
	113'4" - 115' " " " " " "	368	20	Tr.	
	115'-116'8" 1" quartz, low pyrite	369	20		
	116'8" - 118'4" low pyrite	370	20	.005	
	118'4"-120' 2" quartz with high pyrite, rest low pyrite.	371	20	Tr.	
	120' - 121'8" low pyrite.	372	20	.005	
	121'8" - 123'4" low pyrite.	373	20		
	123'4" - 125' low to medium pyrite, 2" quartz vein.	374	20	.08	
	125' - 126'8" 1/2" quartz, high pyrite in fractures.	376	20		
	126'8" - 128'4" high pyrite in fractures numerous medium shear 60° to core axis.	377	20		
	128'4" - 130' low pyrite.	378	20	Tr.	

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

DRILLED BY

SIGNED

DIAMOND DRILL RECORD

LOCATION: LAT. 13' E. of #2
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 55°

STARTED May, 1945
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH 228 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	120' - 121'8" low to medium pyrite.	379	20	Tr.	
	121'8" - 123'4" medium pyrite, low silicification, low quartz.	380	20	Tr.	
	123'4" - 125' low pyrite	381	20	.01	
	125' - 126'8" low pyrite, low quartz	382	20		
	126'8" - 128'4" " " " "	383	20	Tr.	
	128'4" - 140' low pyrite.	384	20	Tr.	
	140' - 142'5" low pyrite.	385	30	Tr.	
	142'5" - 145' medium to high pyrite, high quartz, medium red silicification, looks good.	386	30	.02	
	145' - 146'8" very low pyrite	387	20	Tr.	
	146'8" - 148'4" low pyrite, rare quartz stringers.	388	20	Tr.	
	148'4" - 150' low pyrite, low quartz	375	20	Tr.	
	150' - 151'8" low pyrite in dense tuffs.	389	20		
	151'8" - 153'4" low pyrite, low quartz.	390	20		
	153'4" - 155' low pyrite.	391	20		
	155' - 156'8" low pyrite; low red silicification.	392	20		
	156'8" - 158'4" low carbonates, low pyrite.	393	20		

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 10

SHEET NUMBER 5

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 13' E. of #2
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 55°

STARTED May, 1945
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH 228 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	158'4" - 160' low pyrite, low quartz	394	20		
	160' - 161'8" very low pyrite, threads quartz.	395	20		
	161'8" - 163'4" low pyrite in medium grained tuffs.	396	20		
	163'4" - 165' low pyrite, low epidote	397	20		
	165' - 166'8" low pyrite	398	20		
	166'8" - 168'4" low pyrite	399	20		
	168'4" - 170' low pyrite	400	20		
	170' - 173' fine grained greenstone, low shear at 55° to core axis, low pyrite, threads quartz.				
	173' - 175' low pyrite	401	24		
	175' - 176'8" low silicification, low pyrite.	402	20		
	176'8" - 178'4" low pyrite	403	20		
	178'4" - 180' low to medium pyrite, medium silicification, 1/2" quartz.	404	20		
	180' - 181'8" medium silicification low pyrite.	405	20		
	181'8" - 183'4" medium silicification low pyrite.	406	20		

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 70

SHEET NUMBER

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 13' E of #2
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 55°

STARTED May, 1945
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH 228 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	183'4" - 185' low silicification, low pyrite.	407	20		
	185' - 186'8" " " " "	408	20		
	186'8" - 188'4" " " " "	409	20		
	188'4" - 190' " " " "	410	20		
	190' - 192'6" low silicification, low pyrite in coarse grained rock	411	20		
	192'6" - 195' low silicification, low pyrite in finer to dense	412	20		
	195' - 197'6" low silicification, fine grained.	413	20		
	197'6" - 200' low to medium pyrite, 2" quartz vein white and 1/2 inch vein white	414	20		
	200' - 202'7" Greenstone with very low pyrite except for 4" at bottom, medium pyrite in irregular grey quartz.	415	20		
	202'7" - 205' low to medium pyrite in dense greenstone. Some threads heavy pyrite, fine.	416	20		

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

DRILLED BY

SIGNED

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 41-10

SHEET NUMBER 7

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 13' E of #2
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP -55°

STARTED May, 1945
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH 228 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	205' - 206'3" low pyrite in greenstone for 7 inches, then medium pyrite with medium to low quartz.	417	15		
206'3" - 228'	SYENITE PORPHYRY. Brick red to grey, coarse, with feldspar to 3/16 inches. 208'7" - 209'3" - greenstone inclusion with medium fine disseminated pyrite. 215'11" - 217'11" Greenstone inclusion dense, low pyrite throughout, syenite stringers. 217'11" - 220' Greenstone inclusion with medium to heavy pyrite, syenite stringers, low quartz. 220' - 221'8" Dense greenstone with syenite stringers, with 5 inches grey quartz at bottom, low to medium pyrite. 221'11" - 223' Brick red syenite porphyry with quartz stringers. 223' - 224'8" QUARTZ VEIN	418	25		

PROPERTY Golden Arr Mines Limited

HOLE NUMBER 410

SHEET NUMBER 8

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 13' E of #2
 DEP.

STARTED May, 1945

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING.....
 DIP -55°

PROPOSED DEPTH 228 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	low pyrite, grey for 1" at top, low silicification, brick red.				
	224'8" - 228' Syenite porphyry becoming normal grey.				
	Bottom of hole 228'				

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

DRILLED BY

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PROPERTY Golden Arr Mines Limited

HOLE NUMBER 4 11

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 50 ft. N. of B.C. 6 same,
 DEP. bearing as B.C. 6
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 50°

STARTED May 10, 1945
 COMPLETED May 22, 1945
 ULTIMATE DEPTH 296 feet
 PROPOSED DEPTH 300 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 67'	Casing; sand and boulders.				
67' - 175'	DIORITE; patches of feldspar laths in dense greenstone. This material previously called DIORITIC. Rare quartz stringers, threads epidote. Low dissemination pyrite, throughout, with 1" at 95 ft. medium pyrite, medium red silicification.				
	110' - 111'8" low pyrite, medium silicification, medium quartz in fine diorite.	455	20"		
	138'10" - 140'6" medium to high pyrite in 4" section with quartz, medium red silicification, and 2" similar, rest medium to low pyrite. DIORITE in part coarse grained in part dense to fine, 100'-150'.	456	70"		
	152'-154' Low pyrite, low silicification in diorite.	457	84"		
	171'6" - 174'4" Low pyrite, low silicification in diorite.	458?	74"		

DRILLED BY

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PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 45-11

SHEET NUMBER 2

DIAMOND DRILL RECORD

SECTION FROM _____ TO _____

LOCATION: LAT. 50 ft. N. of E.C. 6 same
 DEP. bearing as E.C. 6

STARTED May 10, 1945

ELEVATION OF COLLAR _____

COMPLETED May 23, 1945

DATUM _____

ULTIMATE DEPTH 296 feet.

DIRECTION AT START: BEARING _____
 DIP - 50°

PROPOSED DEPTH 300 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	175' - 177'3"				
175' - 200'11"	GREENSTONE AND TUFFS dense banded rock, slickensided in places; breaks differently to the diorite, more irregularly but less hackly.				
	183'6" - 185'8" quartz white barren, followed by coarse brick red SYENITE with low very fine pyrite. In tuffs beyond, low shear at about 60 degrees to core axis. Low pyrite throughout.				
	191'5" - 195' low shear, some slickensides rare quartz stringers.	460	47"		
	195' - 200' low shear, low pyrite throughout most but 198'3"-198'6" medium to high pyrite and 2" grey quartz. At 197'1/2" vein pink carbonate.	461	60"		
200'11"-202'8"	SYENITE PORPHYRY, typical, brick red to purplish.				
202'8"-215'	TUFFS, low to medium shear with low to medium pyrite, 1" red silicification,				

PROPERTY Golden Arr Mines Limited

HOLE NUMBER 11

SHEET NUMBER 3

SECTION FROM _____ TO _____

DIAMOND DRILL RECORD

LOCATION: LAT. 50 ft. N. of E. C. 6 same
 DEP. bearing as E.C. 6

STARTED May 10, 1945

ELEVATION OF COLLAR _____

COMPLETED May 23, 1945

DATUM _____

ULTIMATE DEPTH 296 feet.

DIRECTION AT START: BEARING _____
 DIP - 50°

PROPOSED DEPTH 300 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	and coarse high pyrite in places as				
	205'6" - 206'				
	202'8" - 206'5" Described above.	462	45"		
	206'5" - 210' Low shear at 60° to	463	43"		
	core axis, low to medium pyrite, rare				
	quartz stringers.				
	210' - 215' Carbonate stringers, low	464	60"		
	pyrite, rare quartz veinlets.				
	215' - 215'4" quartz.				
215'4" - 228'	GREENSTONE, massive, with fine grained				
	approaching diorite.				
	223'3" - 225' low pyrite.	465	21"		
	225'6" - 225'9" high pyrite some quartz.				
228' - 231'9"	TUFFS? very dense rock with faint irregular				
	banding; irregular epidote veinlets.				
	237'11" - 241' low pyrite, low	466	27"		
	carbonate in dense tuffs.				
	241' - 243' low pyrite low carbonate,	467	25"		
	low epidote, threads red silicification				
	material.				

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 11

SHEET NUMBER 4

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 50 ft. N. of E.C. 6 same
 DEP. bearing as E.C. 6
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP - 50°

STARTED May 10, 1945
 COMPLETED May 27, 1945
 ULTIMATE DEPTH 296 feet
 PROPOSED DEPTH 300 feet

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
251'9" - 267'7"	DIORITE, medium to fine grained, becoming progressively finer to S, and in last 5' only patches feldspar in dense greenstone.				
255' - 257'6"	low pyrite.	469	20"		
263'8" - 268'10"	medium to high fine pyrite on seams and dissemination; low grey quartz veinlets, low threads carbonates.	468	38"		
267'7" - 277'11"	FELDSPAR PORPHYRY; an unusual type for this property with white phenocrysts feldspar to 2-3 mm., chlorite after amphibole in needles 2-3 mm long in grey fine grained gndss. Upper contact in broken material but lower clean-cut. Very little pyrite, rare threads red silicification. Note - splash chalcopyrite at 268'				
277'11" - 282'8"	DIORITE, very fine grained.				
282'8" - 283'9"	SYENITE PORPHYRY dyke, grey.				

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER 1

SHEET NUMBER 6

SECTION FROM TO

DIAMOND DRILL RECORD

50 ft. N. of E. C. 6 same

LOCATION: LAT.
 DEP. bearing as E.C. 6

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
 DIP - 50°

STARTED May 10, 1945

COMPLETED May 23, 1945

ULTIMATE DEPTH 296 feet.

PROPOSED DEPTH 300 feet.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
287'9" - 292'10"	GREENSTONE, dense, low pyrite, rare red threads of silica.				
292'10" - 293'6"	SYENITE PORPHYRY				
293'6" - 295'2"	GREENSTONE as above.				
295'2" - 296'	SYENITE PORPHYRY.				
	Bottom of Hole at 296 feet.				
		29			
		30			
		31			
		32			
		33			
		34			
		35			
		36			
		37			
		38			
		39			
		40			
		41			
		42			
		43			
		44			
		45			
		46			
		47			
		48			
		49			
		50			

DRILLED BY

SIGNED

GOLDEN ARROW

Hole No. 7 - 1934
Sheet No. 1

DIAOND DRILL RECORD

Dip:- 45; 300' - 300; 479 - 38°.

Ultimate Depth 479

<u>DEPTH FEET</u>	<u>FORMATION</u>	<u>SAMPLE NO.</u>	<u>WIDTH OF FLUTE</u>	<u>GOLD</u>
0 - 218	Drilled in 1934, by T.B. Wright.			
218 - 252.9	ANDERSITE, blocky, fine, practically nil pyrite, low red alteration in places, with pyrite on seams			
252.9 - 254.5	218 - 225 SYENITE, red; 2" altered volcanics on upper contact, 6" less altered on lower. Low pyrite in syenite.	5132	7"	
254.5 - 319.5	ANDERSITE, seams coarse pyrite, low quartz, carbon te stringers			
319.5 - 303.5	300 - 315 LOW SYENITE			
303.5 - 304.5	SYENITE, grey to pink, very low pyrite			
304.5 - 320	ANDERSITE as above			
320 - 400	ANDERSITE, coarse, with low to medium alteration in short sections, mostly low to negative pyrite			
400 - 410	SYENITE, brick red alteration with low to medium quartz, low pyrite.			
410 - 415		5170	1"	
415 - 420		5171	1"	
420 - 425		5172	1"	
425 - 435	quartz medium	5174	1"	
435 - 479	ANDERSITE, grey to brown or tawney, coarse, very low pyrite. Last 7 feet show low to medium red alteration	5183	1"	

BOTTOM CORNER AT 479'

June 5, 1946.

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
218 - 225	Dark volcanic rock some mineral.	5132	7'
225 - 230	Dark volcanic rock some mineral.	5133	5'
230 - 235	Same as above.	5134	5'
235 - 240	Same as above.	5135	5'
240 - 245	Same as above.	5136	5'
245 - 250	Same as above.	5137	5'
250 - 255	From 250' to 252'11" dark volcanic rock from 252'11" to 254'5" red syenite rest volcanic rock.	5138	5'
255 - 260	Dark volcanic rock some mineral.	5139	5'
260 - 265	Same as above.	5140	5'
265 - 270	Same as above with some red alteration.	5141	5'
270 - 275	Same as above.	5142	5'
275 - 280	Dark volcanic rock, low pyrite.	5143	5'
280 - 285	Same as above.	5144	5'
285 - 290	Same as above.	5145	5'
290 - 295	Same as above.	5146	5'
295 - 300	Same as above.	5147	5'
300 - 305	Same as above.	5148	5'
305 - 310	Same as above with some green alteration.	5149	5'
310 - 315	Same as above.	5150	5'
315 - 320	From 315 - 317.8" dark rock from 317'8" to 317'10" red syenite from 317'10" to 319'5" dark rock rest grey syenite, low mineral.	5451	5'
320 - 325	From 320' to 323'4" pink syenite, rest dark rock, low pyrite.	5452	5'
325 - 330	Dark rock, low pyrite.	5453	5'
330 - 335	Same as above with 7" pink syenite, low pyrite.	5454	5'
335 - 340	Brick red and pink syenite, low pyrite.	5455	5'
340 - 345	Same as above.	5456	5'
345 - 350	Same as above.	5457	5'
350 - 355	Pink and Grey syenite, low pyrite.	5458	5'
355 - 360	Same as above.	5459	5'
360 - 365	Same as above.	5460	5'

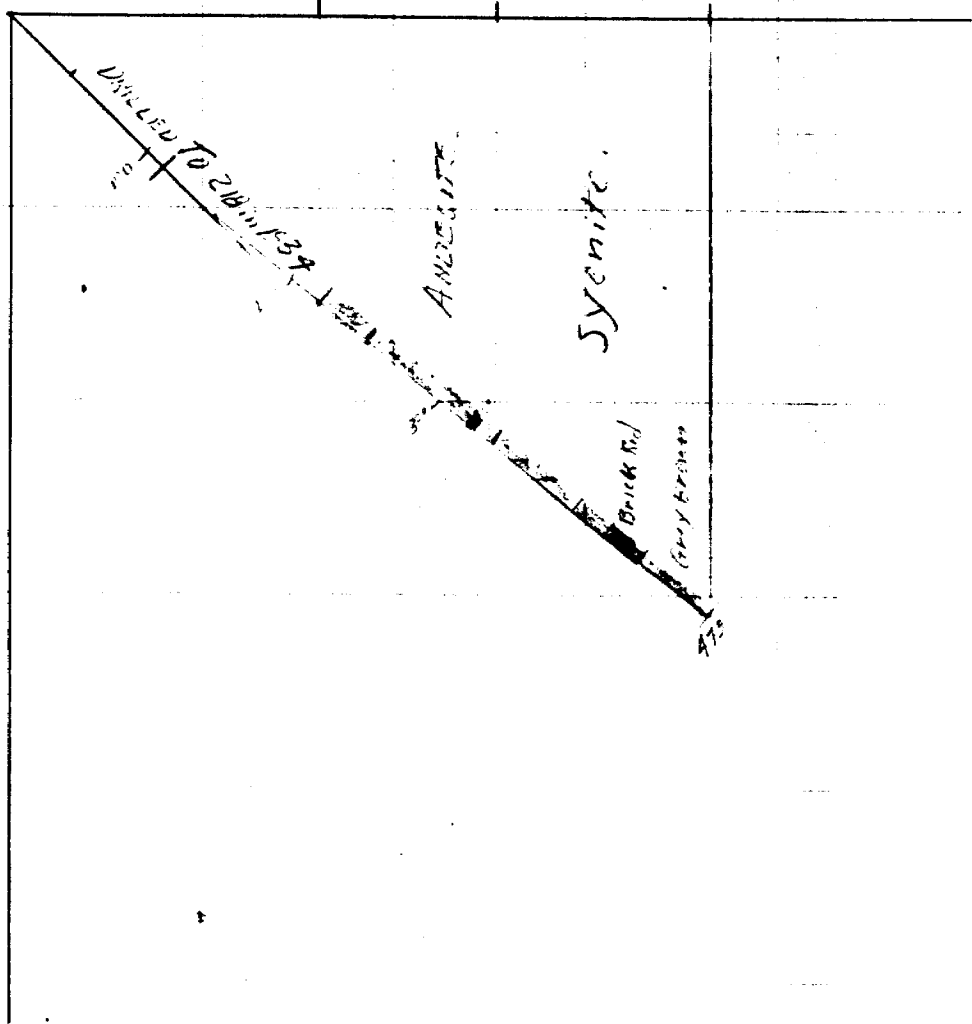
GOLDEN ARROW MINES LTD.

Hole 7 (deepened)
June 12, 1946.

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
365 - 370	Same as above.	5461	5'
370 - 375	Same as above.	5462	5'
375 - 380	Brick red, pink & grey syenite, low pyrite.	5463	5'
380 - 385	Same as above.	5464	5'
385 - 390	Same as above.	5465	5'
390 - 395	Same as above with 10" green alteration.	5466	5'
395 - 400	Brick red, pink & grey syenite, low pyrite.	5467	5'
400 - 405	Pink & grey syenite, low pyrite.	5468	5'
405 - 410	Same as above.	5469	5'
410 - 415	Brick red syenite, medium pyrite.	5470	5'
415 - 420	Brick red & pink syenite, medium pyrite.	5471	5'
420 - 425	Pink & grey syenite, low pyrite.	5472	5'
425 - 430	Pink & grey syenite, low pyrite.	5473	5'
430 - 435	Brick red & pink syenite, some pyrite.	5474	5'
435 - 440	Grey & pink syenite, low pyrite.	5475	5'
440 - 445	Same as above.	5476	5'
445 - 450	Same as above.	5477	5'
450 - 455	Pink & Grey syenite, low pyrite.	5478	5'
455 - 460	Same as above.	5479	5'
460 - 465	Same as above.	5480	5'
465 - 470	Same as above.	5481	5'
470 - 475	Same as above.	5482	5'
475 - 479	Pink syenite, low pyrite.	5483	4'

END OF HOLE

North



GOLDEN ARROW
1211 * 7
1" = 100'

PROPERTY **GOLDEN ARROW MINES LIMITED**

HOLE NUMBER **2**

SHEET NUMBER **1**

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 \$
0 - 61'	Casing.				
61' - 176'6"	DIORITE - rare threads of quartz and low pyrite. 124'6" - 125' medium pyrite, medium epidote. Diorite uniform throughout fine to coarse grained, low quartz threads and low pyrite - Dense from 168' to contact.				
176'6" - 177'4"	SYENITE PORPHYRY.				
177'4" - 213'3"	DIORITE - as above. Faint banding 45° to core axis. 195' - 200' low to medium pyrite 200' - 205'	496 497	5' 5'	.01 .005	
218'3" - 215'6"	SYENITE				
215'6" - 224'	DIORITE - low pyrite as above.				
224' - 225'6"	SYENITE				
225'6" - 250'	DIORITE? or ANDESITE, very fine to dense - dark green with pyrite threads. 245' - 250' low to medium pyrite low quartz.	498	5'	.005	

DRILLED BY

SIGNED

PROPERTY **GOLDEN ARROW MINES LIMITED**

HOLE NUMBER **2**
 SHEET NUMBER **1**
 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 \$
0 - 61'	Casing.				
61' - 176'6"	DIORITE - rare threads of quartz and low pyrite. 124'6" - 125' medium pyrite, medium epidote. Diorite uniform throughout fine to coarse grained, low quartz threads and low pyrite - Dense from 168' to contact.				
176'6" - 177'4"	SYENITE PORPHYRY.				
177'4" - 213'3"	DIORITE - as above. Faint banding 45° to core axis. 195' - 200' low to medium pyrite 200' - 205'	496 497	5' 5'	.01 .005	
218'7" - 215'6"	SYENITE				
215'6" - 224'	DIORITE - low pyrite as above.				
224' - 225'6"	SYENITE				
225'6" - 250'	DIORITE? or ANDESITE, very fine to dense - dark green with pyrite threads. 245' - 250' low to medium pyrite low quartz.	498	5'	.005	

DRILLED BY

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PROPERTY Golden Arrow Mines LimitedHOLE NUMBER 1SHEET NUMBER 1SECTION FROM 0 TO 100**DIAMOND DRILL RECORD**LOCATION: LAT.
DEP.STARTED November 13, 1945.

ELEVATION OF COLLAR

COMPLETED March 18, 1945

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING

PROPOSED DEPTH

DIP 45°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 41	CASING				
41 -	SYENITE Coarse grained moderately fractured low-medium quartz veins.				
41-45	Coarse grained (syenite low red alteration medium-low fine pyrite.	1322	4'	0.01	.39
45-50	as above.	1323	5	0.01	.39
50-55	as above with 3" white quartz	1324	5	0.01	.39
55-60	as above, chlorite partings	1325	5	0.015	.57
60-65	as above 6" quartz with specks of galena more red alteration.	1405	5	0.025	.96
65-70	Medium quartz stringers, low-medium pyrite.	1406	5	0.035	1.35
70-75	Low quartz, low pyrite in coarse grained syenite.	1407	5	0.02	.77
75-80	Medium-high silicification red alteration low pyrite, low quartz.	1408	5	0.04	1.54
80-85	As above with less red alteration.	1409	5	0.02	.77
85-90	Low silicification, very low red alteration.	1410	5	0.01	.39
90-95	Less alteration as above.	1411	5	0.02	.77
95-100	Chlorite fractures low pyrite.	1412	5	0.02	.77

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

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PROPERTY Golden Arrow Mines LimitedHOLE NUMBER 2SHEET NUMBER 2SECTION FROM 100 TO 155**DIAMOND DRILL RECORD**

LOCATION: LAT.

DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING

DIP 45°STARTED November 13, 1945

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	100-105 as above low quartz, low pyrite.	1413	5	0.01	.39
	105-110 as above	1414	5	0.01	.39
	110-115 Chlorite partings 2, 1" quartz veins, low pyrite, low red alteration.	1415	5	0.03	1.16
41-	SYENITE.				
	115-120 low red silicification, low fine pyrite.	1416	5	.02	.77
	120-125 as above, low-medium pyrite.	1417	5	.04	1.54
	125-130 Coarse grained grey syenite very low pyrite.	1418	5	.03	1.16
	130-135 as above	1419	5	.03	1.16
	135-140 as above	1420	5	.03	1.16
	140-145 low quartz, low-medium red alteration, low pyrite.	1421	5	.03	1.16
	145-150 Coarse grained grey-red syenite, medium grey silicification, low pyrite.	1422	5	.11	4.24
	150-155 low-medium red alteration on fractures also brownish alteration, low pyrite.	1423	5	.05	1.93

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

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PROPERTY Golden Arrow Mines Limited

HOLE NUMBER
 SHEET NUMBER 3
 SECTION FROM 155 TO 190

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....
 ELEVATION OF COLLAR.....
 DATUM.....
 DIRECTION AT START: BEARING.....
 DIP 45°

STARTED November 13, 1945.
 COMPLETED November 18, 1945.
 ULTIMATE DEPTH.....
 PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
155-160	medium quartz, medium red alteration low pyrite.	1424	5	.03	1.16
160-165-3'	lamprophyre low pyrite, 1' greenstone inclusion rest white quartz in coarse syenite.	1425	5	.01	.39
160-163	LAMPROPHYRE.				
165-167.8	White quartz	1426	2.8	.01	.39
167.8 - 170	Chlorite inclusion and grey quartz low pyrite, in syenite	1427	2.2	.05	1.93
170-175	2.5' shattered greenstone slickensided (FAULT) low pyrite remainder dense grey siliceous material, low-medium fine pyrite specks of galena and chalcopyrite.	1428	5	.135	5.20
175-180	Grey silicification material continuous grading into coarse syenite low-medium pyrite slightly coarser specks of galena.	1429	5	.175	6.73
180-185	Grey coarse syenite low pyrite 2" grey silicification, specks of galena.	1430	5	.14	5.39
185-190	Coarse grained grey syenite, low	1431	5	.09	3.47

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

DRILLED BY

SIGNED

PROPERTY Golden Arrow Mines Limited

HOLE NUMBER

SHEET NUMBER 4

SECTION FROM 190 TO 24

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
 DIP 450

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	BLUDGE GOLD \$
	pyrite, low quartz.				
190-195	as above.	1432	5	.06	2.31
195-200	as above more pyrite and grey silicification on fractures.	1433	5	.09	3.47
200-205	medium quartz, low pyrite, low red alteration.	1434	5	.065	2.50
205-210	grey syenite.	1435	5	.03	1.16
210-215	as above.	1436	5	.04	1.54
215-220	as above with coarse aggregate of fine pyrite.	1437	5	.03	1.16
220-225	grey syenite with 2, 1' sections of white quartz low pyrite low red alteration low chlorite.	1438	5	.03	1.16
225-230	Grey syenite to 227, 1' quartz speck chalcopryrite 2' dense grey siliceous material medium fine pyrite, some galena.	1439	5	.04	1.54
230-235	Grey quartz to 233.5 rest dense grey siliceous material with galena on seams and disseminated and chalcopryrite on seams low fine pyrite.	1440	5	.14	5.39
235-240	Grey dense siliceous material to 238				

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PROPERTY Golden Crow Mines Limited

HOLE NUMBER 7

SHEET NUMBER 5

SECTION FROM 240 TO 310

DIAMOND DRILL RECORD

LOCATION: LAT.
DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
DIP 45

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
41	SYENITE.				
	mineralization as above, rest chloritic	1441	5	.075	2.89
	syenite with medium fine pyrite, low chalcopyrite.				
	240-245 Coarse syenite medium red alteration	1442	5	.045	1.73
	low pyrite.				
	245-250 Coarse grained syenite, low pyrite	1443	5	.01	.39
	10" quartz.				
	250-255 as above with medium irregular quartz.	1444	5	.03	1.16
	255-260 as above	1445	5	.03	1.16
	260-265 medium chlorite, low pyrite	1446	5	.02	.77
	265-270 Brownish alteration in coarse grained	1447	5	.05	1.93
	syenite.				
	270-275 Coarse grained syenite low brownish	1448	5	.005	.19
	alteration.				
	275-280 Coarse grained syenite very low pyrite.	1449	5	.01	.39
	280-285 as above low red alteration	1450	5	.01	.39
	285-290 as above.	1451	5	.03	1.16
	290-295 as above.	1452	5	.01	.39
	295-300 as above	1453	5	.01	.39
	300-305 as above	1454	5	.01	.39
	305-310 low-medium red alteration low pyrite.	1455	5	.07	2.70

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

DRILLED BY

SIGNED

PROPERTY Golden Ar. / Mines Limited

HOLE NUMBER

SHEET NUMBER 6

SECTION FROM 310 TO 445.5

DIAMOND DRILL RECORD

LOCATION: LAT. _____
DEP. _____

ELEVATION OF COLLAR _____

DATUM _____

DIRECTION AT START: BEARING _____
DIP 45

STARTED _____

COMPLETED _____

ULTIMATE DEPTH _____

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
41-	SYENITE.						
	310-315 as above less pyrite	1456	5	.01	.39		
	315-320 Grey syenite with increasing chlorite low pyrite.	1457	5	.01	.39		
	320-325 as above pyrite and galena on seams.	1458	5	.015	.58		
	SYENITE 327-328.5 greenstone						
	330-335 Coarse grained syenite low pyrite.	1459	5	.015	.58		
	335-340 as above	1460	5	.015	.58		
	340-345 as above	1461	5	.01	.39		
	345-350 as above	1462	5	.01	.39		
	350-420 Coarse syenite with spotted red alteration.						
	420-425 Coarse grained pink syenite chlorite partings, low pyrite	1463	5	.01	.39		
	425-445.5 Coarse grained syenite with chlorite partings and inclusions.						
445.5	END OF HOLE.						

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

DRILLED BY _____

SIGNED _____

PROPERTY Golden Age Mines Limited

HOLE NUMBER 7

SHEET NUMBER 1

SECTION FROM 0 TO

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
 DIP 45

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$	
0 - 42	CASING.					
42 -	SYENITE, low to medium pink coarse grained.					
	42-55 low quartz stringers, low pyrite.					
	55-60 medium red silicification, low pyrite, low quartz stringers.		5			
	60-65 as above.		5			
	65-70 as above.		5			
	70 - coarse grained syenite.					
	75-80 Coarse grained syenite brownish alteration, pyrite on seams.	1501	5	.01	.139	
	80-85 Medium irregular quartz low pyrite, low chlorite.	1502	5	.03	.116	
	85-90 as above very low pyrite	1503	5	.02	.077	
	90-95 as above 6" white quartz rusty fractures.	1504	5	.02	.077	
	95-100 Coarse grained grey syenite, pyrite on seams 3" quartz vein rusty weathering throughout.	1505	5	.065	.220	
	(FAULT) Probably.					
	100-105 Syenite for 18" becoming increasingly amounts grey silicification.	1506	5	.135	.485	

NORTHERN MINER PRESS LIMITED, TORONTO--STOCK FORM NO 501 REV. 8/44

DRILLED BY

SIGNED

385
 117

PROPERTY

HOLE NUMBER

SHEET NUMBER 2

DIAMOND DRILL RECORD

SECTION FROM TO

LOCATION: LAT.
DEP.

STARTED November 14, 1956

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING
DIP 45

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	for 18" rest coarse grained pink-purplish syenite.						
	105-110 medium carbonate in chloritic syenite low quartz stringer.	1507	5	.065	2.30		
	110-115 coarse grained chloritic syenite 6" quartz low pyrite.	1508	5	.015	.58		
	115-120 coarse grained syenite low grey-pink alteration low pyrite	1509	5	.06	2.31		
12 -	SYENITE						
	120 - 125 medium red alteration low pyrite 3" quartz.	1510	5	.03	1.16		
	125 - 130 as above	1511	5	.02	.77		
	130 - 135 as above	1512	5	.02	.77		
	135 - 140 decreasing red alteration	1513	5	.02	.77		
	140 - 145 increasing red alteration increasing pyrite to medium	1514	5	.02	.77		
	145 - 150 syenite - 146, dense dark brick red volcanics medium fine pyrite-148.5, rest slickensided greenstone	1515	5	.04	1.48		
	150-155 slickensided greenstone for 1' rest grey syenite with some dense	1516	5	.02	.77		

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

DRILLED BY

SIGNED

PROPERTY Golden Arrow Ines Limited

HOLE NUMBER.....

SHEET NUMBER 3

SECTION FROM..... TO.....

DIAMOND DRILL RECORD

LOCATION: LAT.....
 DEP.....

STARTED November 14, 1945

ELEVATION OF COLLAR.....

COMPLETED.....

DATUM.....

ULTIMATE DEPTH.....

DIRECTION AT START: BEARING.....
 DIP 45

PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	green material no pyrite.				
155-160	Dark green syenite very low pyrite for 3', then low pyrite and low red alteration,	1517	5	.01	.39
160-165	Coarse grained green-grey syenite low pyrite.	1518	5	.03	1.16
165-170	Syenite - 166.5 coarse with clorite 166.5 - 168.5 greenstone low fine pyrite rest dense brick red altered syenite medium pyrite.	1519	5	.46	17.71
170-175	Coarse grained syenite low red alteration, low to medium pyrite 6" quartz. low quartz in rest.	1520	5	.18	6.93
42 -	SYENITE				
175-180	Coarse grained syenite low pink alteration, low pyrite.	1521	5	.055	.19
180 - 185	as above galena on seams,	1522	5	.07	2.70
185-190	Low - medium pyrite	1523	5	.16	6.16
190-195	Low - medium quartz in syenite, low pyrite greenstone inclusions.	1524	5	.135	5.20
195-200	Grey syenite, low coarse pyrite.	1525	5	.30	11.55

DRILLED BY.....

SIGNED.....

1517

PROPERTY Golden Arr. Mines Limited

HOLE NUMBER 4

SHEET NUMBER 4

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
 DIP 45

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
200-205	Grey syenite, low quartz, low-medium pyrite.	1526	5	.20	7.70
205-210	Grey-pink syenite low-medium pyrite, low quartz	1527	5	.13	5.01
210-215	Low grey silicification, low-medium pyrite 6" greenstone inclusion 1' grey dense greenstone low galena.	1528	5	.10	3.85
215-220	1' grey dense greenstone low medium pyrite, low galena, 6" white quartz, 2' mixed quartz and chlorite 1' dense brick material low pyrite, rest coarse grained syenite.	1529	5	.04	1.54
220-225	Coarse grained syenite low red alteration, low pyrite	1530	5	.08	3.08
225-230	pink syenite low pyrite, low quartz	1531	5	.07	2.70
230-235	as above.	1532	5	.10	3.85
235-240	as above.	1533	5	.045	1.73
240-245	as above	1534	5	.055	2.12

DRILLED BY

SIGNED

PROPERTY Golden Arr Mines Limited

HOLE NUMBER.....

SHEET NUMBER 5**DIAMOND DRILL RECORD**

SECTION FROM..... TO.....

LOCATION: LAT.....
DEP.....STARTED November 14, 1945.

ELEVATION OF COLLAR.....

COMPLETED.....

DATUM.....

ULTIMATE DEPTH.....

DIRECTION AT START: BEARING.....
DIP 45

PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
245-250	as above low-medium pyrite 2 1/2" calcite	1535	5	.05	1.93			
250-255	Increasing red alteration low pyrite low quartz (Note 25375 calcite lined vug with chalcopyrite and epidote deposited on top of calcite crystals.	1536	5	.06	2.31			
255-260	Coarse grained syenite low red alteration low quartz low pyrite.	1537	5	.05	1.93			
260-265	pink-red syenite low pyrite and galena low quartz.	1538	5	.05	1.93			
265-270	as above.	1539	5	.07	2.70			
270-275	as above low quartz stringers with galena along contacts.	1540	5	.03	1.16			
275-280	as above low pyrite no visable galena.	1541	5	.02	.77			
280-285	Increasing red alteration low coarse pyrite.	1542	5	.02	.77			
285-290	Medium red alteration low -medium quartz, galena low pyrite.	1543	5	.03	1.16			
290-295	Decreasing alteration changing to many epidotization for last 18" and 6" into next sample.	1544	5	.20	7.70			
295-300	1' high chlorite epidote rest red							

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

DRILLED BY.....

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PROPERTY Golden Arr Mines Limited

HOLE NUMBER 8

SHEET NUMBER 6

SECTION FROM 300 TO

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.

STARTED November 14, 1945.

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING

PROPOSED DEPTH

DIP 45

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	syenite low pyrite, low quartz.	1545	5	.02	.77
300-305	as above no greenstone.	1546	5	.09	3.47
305-310	as above low-medium quartz low pyrite and galena	1547	5	.03	1.16
310-315	Coarse grained pink syenite low pyrite.	1548	5	.015	.58
315-325	Coarse grained pink syenite.				
Hole 326 November 24th, 1945.					
325-330		1568	5	.03	1.16
330-335		1569	5	.02	.77
335-340		1570	5	.01	.39
340-345		1571	5	.01	.39
345-350		1572	5	.01	.39

DRILLED BY

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PROPERTY GOLDEN ARI MINES LTD.

HOLE NUMBER 130

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT.
DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING

DIP 45°

STARTED Nov. 23, 1945

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 97.1	DIORITE: Massive medium to coarse grained. Rare quartz threads, very low pyrite, rare specks galena in quartz. Rare chalcopyrite.				
	25 - 27 Low red silicification	1573	2.0	N11	
	38.7 - 40.8 As above	1574	2.1	.045	
	43.9 - 44.5 2" Quartz. and red silicifi- cation, with heavy pyrite.	1575	0.6	105	
	75 - 80 Coarse Dissimination with very low pyrite rare Quartz stringers	1576	5.0	Tr.	
	80 - 82 As above	1577	2.0	Tr.	
	SYENITE: 43-44 Porphyritic				
	97.1 - 100 Syenite as above with low to nil pyrite	1578	2.9	N11	
97.1-103.5	SYENITE: See above				
	100 - 103.5 as above	1579	3.5	N11	
103.5-108.5	DIORITE: Progressively finer grained, low quartz low pyrite as above				
	105-108.5 as above	1580	3.5	N11	
108.5-295	ANDESITE: 2" epidote then dense fine grained volcanic, low pyrite				

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

DRILLED BY

SIGNED

PROPERTY GOLDEN ARI 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 45°

STARTED Nov. 23, 1945

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	ANDESITE: 111.5-112.3 as above with 3" white quartz, scattered pyrite	1581	0.8	.01	
	112.3 - 116.3 Andesite as above	1582	3.9	N11	
	115 - 119 Andesite as above	1583	4.0	N11	
	120 - 125 " " "	1584	5.0	Tr.	
	125 - 130 " " "	1585	5.0	N11	
	130 - 135 " " "	1586	5.0	N11	
	135 - 140 " " "	1587	5.0	N11	
	140 - 145 " " "	1588	5.0	N11	
	145 - 150 " " "	1589	5.0	N11	
	150 - 155 No sample appears to be pillowed Andesite				
	155 - 160 As above	1590	5.0	N11	
	160 - 165 " "	1591	5.0	N11	
	165 - 170 " "	1592	5.0	N11	
	170 - 175 " "	1593	5.0	N11	
	175 - 180 " " low red silicification	1594	5.0	N11	
	180 - 185 " " with very low red silicification, low calcite stringers	1595	5.0	.01	
	185 - 190 Low to medium pyrite irregular quartz stringers	1596	5.0	Tr.	

DRILLED BY

SIGNED

PROPERTY

HOLE NUMBER.....

SHEET NUMBER 3.....

DIAMOND DRILL RECORD

SECTION FROM..... TO.....

LOCATION: LAT.....
DEP.....

STARTED Nov. 23, 1945.....

ELEVATION OF COLLAR.....

COMPLETED.....

DATUM.....

ULTIMATE DEPTH.....

DIRECTION AT START: BEARING.....
DIP 450.....

PROPOSED DEPTH.....

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	190 - 195 2" pink with low pyrite	1597	5.0	N11			
	195 - 200 Low quartz, low red silicification, low pyrite	1598	5.0	.04			
	200 - 205 very low red silicification, low pyrite	1599	5.0	.31			
	205 - 210 as above, low pyrite	1600	5.0	.005			
	214.3-217.6 as above	1601	3.3	N11			
	225 - 230 practically nil pyrite	1602	5.0	N11			
	245 - 250 high pyrite on rare seams	1603	5.0	N11			
	250 - 255 As above	1604	5.0	.025			
	255 - 260 " "	1605	5.0	Tr.			
	260 - 265 " "	1606	5.0	N11			
	265 - 270 " "	1607	5.0	N11			
	270 - 275 " "	1608	5.0	N11			
	275 - 280 " "	1609	5.0	N11			
	280 - 285 " " nil pyrite	1610	5.0	N11			
	285 - 290 " "	1611	5.0	N11			
	290 - 295 " "	1612	5.0	N11			
295-310	GREY LAVA, dense, broken by abundant tiny fractures						
	305 - 310 see above, nil pyrite	1613	5.0	N11			

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

DRILLED BY.....

SIGNED.....

PROPERTY GOLDEN ARROW MINES LIMITED

HOLE NUMBER H 7

SHEET NUMBER 4

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT.
 DEP.
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING
 DIP 45°

STARTED Nov. 23, 1945
 COMPLETED
 ULTIMATE DEPTH
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
310-325	ANDESITE dense dark grey to dark green, very low pyrite				
	310-315 As above	1614	5.0	Tr.	
	315-320 Increasing red silicification	1615	5.0	.01	
	320-325 " " "	1616	5.0	.015	
325-339 ⁵	BRICK RED ROCK Specimen at 337. Possibly felsite but grades, over 3" to dense greenstone.				
	325-330 nil pyrite	1617	5.0	.01	
	339.5-342.9 Low red alteration; low pyrite	1618	3.4	.05	
339 ⁵	ANDESITE Low red alteration; increasing downwards				
	342.9-350 medium to high brick red alteration, medium pyrite, passing into 2 ft. grey quartz with pyrite	1619	7.1	.20	
	350-355 dark green andesite	1625	5	.02	
	355-360 As above for 2.3' then 0.7' quartz then brick red syenite	1626	5.0	.01	
358-385.4	SYENITE brick red, with medium quartz, veins, very low to nil pyrite				
	360-365 see above	1627	5.0	.01	
	365-370 " "	1628	5.0	.01	

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9.44

DRILLED BY

SIGNED

PROPERTY GOLDEN ARR MINES LIMITED

HOLE NUMBER

SHEET NUMBER 5

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT.

DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING

DIP 450

STARTED Nov. 23, 1945

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
	370-375 see above	1629	5.0	.01	
	375-380 " "	1641	5.0	.01	
	380-385 " "	1642	5.0	.02	
385.4-	DIORITE coarse massive 0.4 syenite at beginning and 0.4 syenite elsewhere, very low pyrite				
	385-390 See above, no syenite	1643	5.0	.02	
	390-395 " "	1644	5.0	Tr.	
	395-400 " 1" Calcite vein	1645	5.0	Tr.	
	400-405 Coarse diorite with large metacrysts biotite nil to low pyrite	1646	5.0	.01	
	405-410 " "	1647	5.0	Nil	
	410-415 " "	1648	5.0	Tr.	
	415-420 " "	1649	5.0	Nil	
	420-425 " "	1650	5.0	Tr.	
	425-430 " "	1651	5.0	.01	
	430-435 Medium quartz with medium pyrite in last 2 feet	1652	5.0	.08	
	435-440 Medium quartz and medium pyrite in first 3 feet	1653	5.0	.16	
	440-445 One foot medium quartz, medium pyrite, one foot medium silicification med. pyrite	1654	5.0	.08	

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

DRILLED BY

SIGNED

PROPERTY

HOLE NUMBER 103

SHEET NUMBER 6

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT.
DEP.

STARTED Nov. 23, 1945

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING
DIP 45°

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
445-451.1	QUARTZ Low chlorite, low pyrite	1655	6.1	.02	
451.1	DIORITE Coarse grained massive rock, mostly nil pyrite				
	451.1-452.7 includes 6" high pyrite, pink feldspar	1656	1.6	.18	
	452-455 Diorite as above	1657	2.3	.01	
	455-460 As above 1" syenite	1658	5.0	Nil	
	460-465 "	1659	5.0	Nil	
	465-470 " 2" syenite	1660	5.0	Nil	
	470-475 "	1661	5.0	Nil	
	475-480 "	1662	5.0	Nil	
	480-485 " 2½" syenite, no pyrite	1663	5.0	Tr.	
	485-490 " 6" syenite, 8" quartz	1664	5.0	Nil.	
	490-495 "	1665	5.0	Nil	
	495-500 " 8" syenite dyke, very low to nil pyrite	1666	5.0	Nil	
500-508.5	SYENITE Dykes with some greenstone inclusions or partitions, very low to low pyrite				
	500-505	1667	5.0	Nil	
	505-510	1668	5.0	Tr.	
508.5-	DIORITE Coarse grained as above				
	510-515 See above	1669	5.0	.01	

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

DRILLED BY

SIGNED

PROPERTY

HOLE NUMBER 7

SHEET NUMBER 7

SECTION FROM TO

DIAMOND DRILL RECORDLOCATION: LAT.
DEP.

STARTED Nov. 23, 1945

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING
DIP 45°

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
	515-520 See above	1670	5.0	.01				
	520-525 "	1671	5.0	.01				
	525-530 "	1672	5.0	.025				
	530-535 "	1673	5.0	Tr.				
	535-540 1 Foot syenite low pyrite	1674	5.0	.005				
	540-545 4 inch high pyrite on fracture	1675	5.0	N&I				
	545-550 coarse dead diorite	1797	5.0	N11				
	550-555 1" coarse syenite	1798	5.0	.02				
	555-560 2½' coarse syenite	1799	5.0	N11				
	560-565 low pyrite	1800	5.0	N11				
	565-570 "	1801	5.0	.005				
	570-575 rare pink stringers ½"	1802	5.0	N11				
	575-580 Coarse diorite no pyrite	1803	5.0	N11				
	580-585 " "	1804	5.0	Tr.				
	585-594 No samples in coarse diorite							
594-604.3	SYENITE PORPHYRY							
	Feldspar crystals to 1/8" in dark fine grained matrix							
	600-604.3 see above	1805	4.3	Tr.				
604.3-	604.3-610 Coarse DIORITE	1806	5.7	N11				
	BOTTOM OF HOLE at 627 in diorite							

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

DRILLED BY

SIGNED

PROPERTY Golden Arrow M s LimitedHOLE NUMBER 31SHEET NUMBER 1

DIAMOND DRILL RECORD

SECTION FROM TO

LOCATION: LAT.
DEP.

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
DIP 45°

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 50	CASING				
50 -	SYENITE Coarse grained with up to 1/16" amphibole				
	55-60 Medium pink, no pyrite	1630	5.0	tr	
	60-65 " "	1631	5.0	nil	
	65-70 " "	1632	5.0	tr	
	70-75 " "	1633	5.0	tr	
	75-80 " "	1633	5.0	tr	
	80-85 No sample, 1' greenstone				
	85-90 Alternating pale pink to green	1635	5.0	.01	
	90-95 No sample, as above				
	95-100 As above, negligible pyrite	1636	5.0	.01	
	100-105 " low quartz	1637	5.0	.015	
	105-110 " "	1638	5.0	.01	
	140-145 " Low red stringers, low pyrite, low quartz, 8" vein	1639	5.0	.01	
	145-150 Low pink alteration	1640	5.0	.01	
	150-155 "	1701	5.0	.02	
	155-160 "	1702	5.0	.01	
	160-165 "	1703	5.0	.05	
	165-170 "	1704	5.0	.05	
	170-175 "	1705	5.0	.03	

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

DRILLED BY

SIGNED

PROPERTY GOLDEN ARROW ES LIMITED

HOLE NUMBER 1

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 \$
	175-180 As above, but becoming dense grey green from silicification	1706	5.0	.01	
184-200	180-185 Grey syenite to 184 ANDESITE brick red to dark green	1707	5.0	tr	
	185-190 Medium quartz, brick red alteration, nil pyrite	1708	5.0	.02	
	190-195 Even brick red alteration but no pyrite	1709	5.0	.01	
	195-200 Less alteration, low pyrite	1710	5.0	.02	
200 -	SYENITE coarse grained red to grey, low pyrite				
	200-205 as above, medium quartz, low pyrite	1711	5.0	.02	
	205-210 as above	1712	5.0	.01	
	210-215 decreasing alteration, low pyrite	1713	5.0	.01	
	215-220 grey syenite, low alteration	1714	5.0	.01	
	220-225 as above	1715	5.0	.025	
	225-230 grey syenite	1716	5.0	.015	
	230-235 as above	1717	5.0	.025	
	235-240 as above	1718	5.0	.015	
	240-245 as above	1719	5.0	.01	
	245-250 as above	1720	5.0	.01	
	250-255 syenite, low pink alteration	1722	5.0	.01	
	255-260 grey syenite - v. low pyrite	1723	5.0	.01	

PROPERTY GOLDEN ARROW 1 IS LIMITED

HOLE NUMBER 1

SHEET NUMBER 3

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 \$
	260-265 as above, low quarryz	1724	5.0	.025	
	265-270 "	1725	5.0	.045	
	270-275 " low pyrite	1726	5.0	.07	
	275-280 "	1727	5.0	.02	
	280-285 "	1728	5.0	.05	
	285-290 " 3" quartz	1729	5.0	.01	
	290-295 as above (3') mixed quartz dark lamprophyre	1730	5.0	.12	\$4.62
293-297	LAMPROPHYRE with quartz				
297-	SYENITE coarse grained low to medium red alteration, low pyrite				
	295-300 see above	1731	5.0	.01	
	300-305 as above, medium red	1732	5.0	.01	
	305-310 red to 307	1733	5.0	.005	
	310-315 low alteration	1734	5.0	.01	
	315-320 as above	1735	5.0	.005	
	320-325 6" brick red, red brownish, low pyrite, low quartz	1736	5.0	.04	
	325-330 coarse syenite	1737	5.0	.06	
	330-335 medium red, low pyrite	1738	5.0	.03	
	335-340 as above	1739	5.0	.01	
	340-345 darker green low pyrite	1740	5.0	.01	

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PROPERTY GOLBEN ARROW MI : LIMITED

HOLE NUMBER 1

SHEET NUMBER 4

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 \$
	345-350 as above 2' pink syenite, low pyrite	1741	5.0	.04	
	350-355 pink; low pyrite, low quartz	1742	5.0	.06	
	355-360 increasing quartz, low pyrite	1743	5.0	.07	
	360-365 low quartz, low to medium pyrite	1744	5.0	.21	
	365-370 less quartz, as above	1745	5.0	.11	
	370-375 pink to red, low pyrite, low quartz	1746	5.0	.03	
	375-380 pink to grey, low pyrite	1747	5.0	.02	
	380-385 brick red to pink to grey, low pyrite	1748	5.0	.01	
	385-390 as above	1749	5.0	tr	
	390-395 streaky red syenite, low quartz	1750	5.0	tr	
	395-400 grey syenite, low quartz	1796	5.0	.01	
	400-405 grey syenite, low quartz	1826	5.0	.01	
	405-410 as above 18" dense, dark brick red, low fine pyrite	1827	5.0	.03	
	410-415 pink to grey syenite, low pyrite	1828	5.0	.07	
	415-420 pink syenite, low pyrite	1829	5.0	.015	
	420-425 as above	1830	5.0	.02	
	425-430 pink to dark green syenite, low quartz, low pyrite	1831	5.0	.05	
	430-435 coarse pink syenite, low pyrite, low quartz	1832	5.0	.05	

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

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PROPERTY GOLDEN ARROW ES LIMITED

HOLE NUMBER 31

SHEET NUMBER 5

DIAMOND DRILL RECORD

SECTION FROM TO

LOCATION: LAT.
 DEP.

STARTED

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING
 DIP

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
	435-440 as above	1833	5.0	.04				
	440-445 as above	1834	5.0	.01				
	445-450 as above, low quartz, stringers	1835	5.0	.02				
	450-455 pink syenite, low pyrite, low quartz	1836	5.0	.015				
	455-460 as above	1837	5.0	.11				
	460-465 as above, low pyrite	1838	5.0	.035				
	465-470 as above	1839	5.0	.015				
	470-475 as above	1840	5.0	.005				
	475-480 pink to red syenite, low pyrite	1841	5.0	tr				
	480-485 as above	1842	5.0	.01				
	485-490 grey syenite, v. low pyrite	1843	5.0	.01				
	490-495 as above	1844	5.0	.07				
	495-500 as above	1845	5.0	.005				
	500-505 as above 1" quartz with chalcopyrite very good	1846	5.0	.28	free gold			
	505-510 as above, chlorite seams	1847	5.0	.01				
	510-516 pink syenite, quartz stringer, pyrite	1848	6.0	.025				
	BOTTOM OF HOLE 516 FEET							

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PROPERTY GOLDEN ARROW M.L.S. LIMITEDHOLE NUMBER 2SHEET NUMBER 1

DIAMOND DRILL RECORD

SECTION FROM TO

LOCATION: LAT. 11676N
DEP. 13662ESTARTED March 7, 1946

ELEVATION OF COLLAR

COMPLETED

DATUM

ULTIMATE DEPTH

DIRECTION AT START: BEARING 312
DIP 45° 250' 44° 500' 43°PROPOSED DEPTH 1,200 ft.

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 72	CASING				
72 -	SYENITE grey coarse grain, massive				
72 - 75	Grey syenite, some brick red streaks	3166	3 ft	.01	
75 - 80	Same	3167	5 ft	.01	
80 - 85	Same	3168	5 ft	.01	
85 - 90	Same	3169	5 ft	.01	
90 - 95	Same	3170	5 ft	.01	
95 - 100	Same	3171	5 ft	.01	
100 - 105	Same with odd quartz stringer low pyrite	3172	5 ft	.01	
105 - 110	Same do	3173	5 ft	.02	
110 - 115	Same do	3174	5 ft	.01	
115 - 120	Same do	3175	5 ft	.01	
120 - 125	Grey syenite	3176	5 ft	.01	
125 - 130	Same	3177	5 ft	.01	
130 - 135	Same	3178	5 ft	.01	
135 - 140	Same	3179	5 ft	.01	
140 - 145	Same	3180	5 ft	tr	
145 - 150	Grey Byenite, 1° silicification low pyrite	3181	5 ft	tr	
150 - 155	Grey syenite	3182	5 ft	.01	
155 - 160	Same	3183	5 ft	.01	
160 - 165	Same	3184	5 ft	.01	

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

DRILLED BY

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PROPERTY GOLDEN ARROW M. S. LIMITED

HOLE NUMBER 4

SHEET NUMBER 2

SECTION FROM 165 TO 270

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 \$			
165 - 170	Grey syenite	3185	5 ft	.02				
170 - 175	Same	3186	5 ft	.01				
175 - 180	Same	3187	5 ft	tr				
180 - 185	Same	3188	5 ft	.01				
185 - 190	Same	3189	5 ft	.01				
190 - 195	"	3190	5 ft	.01				
195 - 200	"	3191	5 ft	.01				
200 - 205	R with odd quartz, low pyrite	3192	5 ft	.01				
205 - 210	" "	3193	5 ft	.01				
210 - 215	" "	3194	5 ft	.02				
215 - 220	Grey syenite	3195	5 ft	.01				
220 - 225	"	3196	5 ft	.01				
225 - 230	"	3197	5 ft	.01 tr				
230 - 235	"	3198	5 ft	.01				
235 - 240	"	3189	5 ft	.01				
240 - 245	" 4" alteration, low pyrite	3200	5 ft	.0r				
245 - 250	"	3260	5 ft	tr				
250 - 255	"	3261	5 ft	.005				
255 - 260	"	3262	5 ft	.01				
260 - 265	"	3263	5 ft	.005				
265 - 270	"	3264	5 ft	.01				

NORTHERN MINER PRESS LIMITED, TORONTO - STOCK FORM NO 501 REV. 9.44

DRILLED BY

SIGNED

PROPERTY GOLDEN ARROW M. S. LIMITED

HOLE NUMBER

SHEET NUMBER 3

SECTION FROM 270 TO 340

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 \$
270 - 275	2.5' low pyrite in grey-pink syenite, rest slightly silicified syenite medium fine pyrite	3265	5 ft	.01	
275 - 280	Medium fine pyrite in pink syenite	3266	5 ft	.01	
280 - 285	Medium fine pyrite in pink syenite grading into brick red syenite last foot mainly gray quartz with fragments of brick red syenite	3267	5 ft	.01	
285 - 290	1.5 mainly gray quartz, 1.5 medium fine pyrite in brick red syenite; rest medium fine pyrite in pink syenite	3268	5 ft	.01	
290 - 295	Medium fine pyrite in slightly silicified pink syenite	3269	5 ft	.01	
295 - 300	Same to 298.5; rest low pyrite in pink to grey syenite	3270	5 ft	.01	
300 - 305	Very low pyrite in gray syenite	3271	5 ft	tr	
305 - 310	Grey syenite	3272	5 ft	tr	
310 - 315	"	3273	5 ft	nil	
315 - 320	"	3274	5 ft	nil	
320 - 325	"	3275	5 ft	nil	
325 - 330	"	3276	5 ft	nil	
330 - 335	"	3277	5 ft	nil	
335 - 340	"	3278	5 ft	.005	

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO 801 REV. 8/44

DRILLED BY

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PROPERTY GOLDEN ARROW M. S LIMITED

HOLE NUMBER 4

SHEET NUMBER 4

SECTION FROM 340 TO 435

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 \$
340 - 345	Gray syenite	3279	5 ft	nil	
345 - 350	"	3280	5 ft	tr	
350 - 355	" low quartz with low pyrite	3281	5 ft	.01	
355 - 360	Gray syenite	3282	5 ft	nil	
360 - 365	"	3283	5 ft	nil	
365 - 370	"	3284	5 ft	.005	
370 - 375	"	3285	5 ft	nil	
375 - 380	"	3286	5 ft	nil	
380 - 385 385 - 385	" with quartz stringer; low pyrite	3287	5 ft	.005	
385 - 390	" do	3288	5 ft	tr	
390 - 395	Grey syenite with low brick red	3289	5 ft	.01	
395 - 400	Low fine pyrite in pink to brick red syenite	3290	5 ft	.01	
400 - 405	Low pyrite in brick red streaks in gray syenite	3291	5 ft	.01	
405 - 410	Gray syenite	3292	5 ft	tr	
410 - 415	do 2" low pyrite in silicified syenite	3293	5 ft	.01	
415 - 420	do low brick red streaks with low pyrite	3294 3294	5 ft	.015	
420 - 425	Same	3295	5 ft	.02	
425 - 430	Gray syenite 3" white quartz	3296	5 ft	.01	
430 - 435	Gray syenite	3297	5 ft	.01	

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

DRILLED BY

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PROPERTY GOLDEN ARROW MI) LIMITED

HOLE NUMBER

SHEET NUMBER 5

SECTION FROM 435 TO 500

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 \$		
435 - 440	Gray syenite 1' brick red low pyrite	3298	5 ft	.015			
440 - 445	Low pyrite in gray to brick red syenite, some gray quartz	3299	5 ft	.03			
445 - 450	Low Pyrite in pink-gray syenite	3300	5 ft	.01			
450 - 455	Low pyrite in pink syenite	3301	5 ft	.01			
455 - 460	same	3302	5 ft	.03			
460 - 465	"	3303	5 ft	tr			
465 - 470	Low pyrite in pink-gray syenite	3304	5 ft	.055			
470 - 475	same	3305	5 ft	.015			
475 - 480	"	3306	5 ft	.005			
480 - 485	" slight silicified; some brick red	3307	5 ft	.005			
485 - 490	" "	3308	5 ft	.005			
490 - 495	" "	3309	5 ft	.005			
495 - 500	" "	3310	5 ft	.01			

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

DRILLED BY

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PROPERTY GOLDEN ARROW IES LIMITED

HOLE NUMBER 42

SHEET NUMBER 6

DIAMOND DRILL RECORD

SECTION FROM 500 TO 575

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 \$
500 - 505	3' low fine pyrite in slightly silicified pink syenite; rest low pyrite in pink syenite	3311	5 ft	.01	
505 - 510	Low pyrite in pink-gray syenite some brick red	3312	5 ft	tr	
510 - 515	Same, 1' brick red with medium fine pyrite	3313	5 ft	.01	
515 - 520	Low pyrite in pink syenite, some quartz streaks with brick red borders; pyrite in brick red	3314	5 ft	.01	
520 - 525	Same	3315	5 ft	.015	
525 - 530	Very low pyrite in gray syenite	3316	5 ft	tr	
530 - 535	Same	3317	5 ft	tr	
535 - 540	Same	3318	5 ft	nil	
540 - 545	"	3319	5 ft	.01	
545 - 550	" , slickensides 10° to core at 548.5	3320	5 ft	.005	
550 - 555	"	3321	5 ft	tr	
555 - 560	" 1.5' brick red altered with low pyrite 556.5	3322	5	.005	
560 - 565	Gray syenite	3323	5 ft	tr	
565 - 570	"	3324	5 ft	nil	
570 - 575	"	3325	5	tr	

PROPERTY GOLDEN ARROW MI 3 LIMITED

HOLE NUMBER 4

SHEET NUMBER 7

SECTION FROM 575 TO 650

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 \$			
575 - 580	Gray syenite	3326	5 ft	tr				
580 - 585	same	3327	5 ft	nil				
585 - 590	same	3328	5 ft	tr				
590 - 595	same - to 592.5, 1' white quartz and rusty syenite; rest pink-gray syenite	3329	5 ft	tr				
595 - 600	Very low pyrite in pink syenite	3330	5 ft	tr				
600 - 605	Pink - gray syenite	3331	5 ft	tr				
605 - 610	Same, 1" white quartz at 25°	3332	5 ft	tr				
610 - 615	Gray syenite	3333	5 ft	.005				
615 - 620	"	3334	5 ft	tr				
620 - 625	" slight alteration low pyrite	3335	5 ft	tr				
625 - 630	Gray syenite	3336	5 ft	tr				
630 - 635	Dark gray syenite	3337	5 ft	nil				
635 - 640	3' same last 2' bleached with low pyrite	3338	5 ft	.01				
640 - 645	1' bleached syenite, 1' gray syenite, 1' greenstone at 20° to core, 1.5' gray syenite; last 0.5' bleached syenite	3339	5 ft	.01				
645 - 650	Bleached silicified syenite; no mineralization	3340	5 ft	.005				

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

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GOLDEN ARROW MINES LIMITED

B.D. HOLE #42

<u>Depth in ft.</u>	<u>Remarks</u>	<u>Sample No.</u>	<u>Width</u>	<u>Value</u>
650-655	Pink Syenite, Low pyrite	3341	5ft.	.01
655-660	" " " "	3342	5ft.	Tr.
660-665	" " " "	3343	5ft.	Tr.
665-670	" " " "	3344	5ft.	.0005
670-675	" " " "	3345	5ft.	.01
675-680	Brick red " " "	3346	5ft.	.01
680-685	14" Pink Syenite " " 31" white qtz.	3347	5ft.	.01
685-690	Pink Syenite, Low pyrite	3348	5ft.	.0005
690-695	" " " "	3349	5ft.	Nil.
695-700	" " " "	3350	5ft.	Tr.
700-705	" " " "	3351	5ft.	.01
705-710	" " " "	3352	5ft.	.015
710-715	" " " "	3353	5ft.	Nil.
715-720	" " " "	3354	5ft.	.01
720-725	Grey Syenite " " "	3355	5ft.	Tr.
725-730	" " " "	3356	5ft.	.01
730-735	" " " "	3357	5ft.	.01
735-740	" " " "	3358	5ft.	.01
740-745	" " " "	3359	5ft.	.01
745-750	" " " "	3360	5ft.	.01
750-755	" " " "	3361	5ft.	.01
755-760	" " " "	3362	5ft.	.02
760-765	" " " "	3363	5ft.	.01
765-770	Pink & Brick Red, Low pyrite,	3364	5ft.	.02
770-775	Pink Syenite, Low pyrite,	3365	5ft.	.01
775-780	" " " "	3366	5ft.	.01
780-785	" " " "	3367	5ft.	Nil.
785-790	" " " "	3368	5ft.	.01
790-795	" " " "	3369	5ft.	Tr.
795-800	" " " "	3370	5ft.	.01
800-805	" " " "	3371	5ft.	Nil.
805-810	" " " "	3372	5ft.	Nil.
810-815	" " " "	3373	5ft.	Tr.
815-820	" " " "	3374	5ft.	Nil.
820-825	" " " "	3375	5ft.	.01
825-830	" " " "	3376	5ft.	.01
830-835	" " " "	3377	5ft.	.01

GOLDEN ARROW MINES LIMITED

D.D. HOLE # 42

<u>Depth in ft.</u>	<u>Remarks</u>	<u>Sample No.</u>	<u>width</u>	<u>Value</u>
835-840	Pink & Brick red Syenite, Low pyrite	3378	5ft.	.01
840-845	Pink Syenite, Low pyrite	3379	5ft.	.01
845-850	" " " "	3380	5ft.	.01
855-860	Pink & Grey Syenite, Low pyrite	3381	5ft.	Tr.
860-865	" " " "	3382	5ft.	Tr.
875-880	Pink Syenite, Low pyrite	3383	5ft.	.005
880-885	" " some galena	3384	5ft.	.015
885-890	Pink Syenite, Low pyrite	3385	5ft.	.01
895-900	" " " "	349 0	5ft.	.005
925-930	" " " "	3491	5ft.	.01
930-935	Pink & Grey Syenite, Low pyrite	3492	5ft.	Tr.
935-940	" " " "	3493	5ft.	Tr.
940-945	" " " "	3494	5ft.	Tr.
945-950	" " " "	3495	5ft.	Tr.

THE END OF HOLE #42 - 950feet.

PROPERTY GOLDEN ARROW MINING LIMITED

HOLE NUMBER

SHEET NUMBER **1**

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 114 7 40 N
 DEP. 133 1 20 E
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING 07 40 E
 DIP 45

STARTED
 COMPLETED
 ULTIMATE DEPTH **559 feet**
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 108	Casing				
108 - 312	SYENITE (see Rotondo logs)				
312 - 325	SYENITE with EPIDOTE and QUARTZ. In part dense siliceous material with epidote. Fine low pyrite.				
325 - 335	GR GREENSTONE. First 5 feet mixture as above, quartz, siliceous material less syenite. Grades imperceptibly into dense greenstone, somewhat lighter in color due to alteration with fine pyrite, low.				
335 - 559	SYENITE. Dark brick red for 1" then fading into pink syenite. 375-400 Syenite, reddened with quartz, filled fractures, fine pyrite low except along seams, where accompanied by chlorite. Bottom of hole - 559.				

GOLDEN ARCADE MINES, LIMITED

D.D.Hole #43

<u>Depth in ft.</u>	<u>Remarks</u>	<u>Sample No.</u>	<u>Width</u>	<u>Value</u>
0 - 108	CASING			
108 - 115	Grey syenite, low pyrite	3401	7 ft	.01
115 - 120	Grey syenite, low pyrite	3402	5 ft	.01
120 - 125	Pink syenite, low pyrite	3403	5 ft	.01
125 - 130	Pink syenite, low pyrite	3404	5 ft	.02
130 - 135	Pink syenite, low pyrite	3405	5 ft	.01
135 - 140	Eleven in. qtz, rest pink syenite, low pyrite	3406	5 ft	.01
140 - 145	Pink syenite, low pyrite	3407	5 ft	.01
145 - 150	Pink & Grey syenite, low pyrite	3408	5 ft	.01
150 - 155	Pink & Grey syenite, low pyrite	3409	5 ft	.01
155 - 160	Grey syenite, low pyrite	3410	5 ft	.01
160 - 165	Grey syenite, low pyrite	3411	5 ft	.01
165 - 170	Grey syenite, low pyrite	3412	5 ft	.01
170 - 175	Pink syenite, low pyrite	3413	5 ft	.02
175 - 180	Pink syenite, low pyrite	3414	5 ft	.02
180 - 185	Pink syenite, low pyrite	3415	5 ft	tr
185 - 190	do	3416	5 ft	tr
190 - 195	do	3417	5 ft	.015
195 - 200	do	3418	5 ft	.01
200 - 205	do	3419	5 ft	.01
205 - 210	do	3420	5 ft	.04
210 - 215	do	3421	5 ft	.02
215 - 220	do	3422	5 ft	.01
220 - 225	do	3423	5 ft	.01
225 - 230	do	3424	5 ft	.01
230 - 235	do	3425	5 ft	.tr
235 - 240	do	3426	5 ft	tr
240 - 245	do	3427	5 ft	.005
245 - 250	do	3428	5 ft	.01
250 - 255	do	3429	5 ft	.01
255 - 260	do	3430	5 ft	.01
260 - 265	do	3431	5 ft	.01
265 - 270	do	3432	5 ft	.01
270 - 275	do	3433	5 ft	.005
275 - 280	do	3434	5 ft	.01
280 - 285	do	3435	5 ft	.01
285 - 290	do	3436	5 ft	.01
290 - 295	do	3437	5 ft	.005
295 - 300	do	3438	5 ft	.005
300 - 305	do	3439	5 ft	.005
305 - 310	do	3440	5 ft	.01

310 - 315	Grey Syenite, medium pyrite	3441	5 ft	.01
315 - 320	Grey Syenite, low pyrite	3442	5 ft	.01
320 - 325	do	3443	5 ft	.005
325 - 330	do	3444	5 ft	.01
330 - 335	Green Carbonate, low pyrite	3445	5 ft	.01
335 - 340	Pink Syenite, low pyrite	3446	5 ft	.025
340 - 345	Pink Syenite, low pyrite	3447	5 ft	.005
345 - 350	Pink Syenite, low pyrite	3448	5 ft	.015
350 - 355	Pink Syenite, fair mineralization	3449	5 ft	.01
355 - 360	Brick Red Syenite, medium mineralization	3450	5 ft	.01
360 - 365	do	3451	5 ft	.01
365 - 370	do fair mineralization	3452	5 ft	.015
370 - 375	Pink Syenite, fair mineralization	3453	5 ft	.02
375 - 380	do medium "	3454	5 ft	.045
380 - 385	Brick red, fair mineralization	3455	5 ft	.005
385 - 390	do medium "	3456	5 ft	.07
390 - 395	do low mineralization	3457	5 ft	.00
395 - 400	Pink Syenite, low pyrite	3458	5 ft	.02
400 - 405	do	3459	5 ft	.03
405 - 410	Brick red, medium pyrite	3460	5 ft	.03
410 - 415	Pink Grey, low pyrite	3461	5 ft	.01
415 - 420	do	3462	5 ft	.005
420 - 425	Pink Syenite, low pyrite	3463	5 ft	.02
425 - 430	do	3464	5 ft	tr
430 - 435	do	3465	5 ft	tr
435 - 440	do	3466	5 ft	.01
440 - 445	do	3467	5 ft	.025
445 - 450	Brick red, medium pyrite	3468	5 ft	.01
450 - 455	Grey Syenite, low pyrite	3469	5 ft	tr
455 - 460	Pink Syenite, low pyrite	3470	5 ft	tr
460 - 465	Brick red, low pyrite	3471	5 ft	.06
465 - 470	do	3472	5 ft	.01
470 - 475	Pink Grey, low pyrite	3473	5 ft	tr
475 - 480	do	3474	5 ft	.02
480 - 485	11" pink, rest epidote, medium pyrite	3475	5 ft	.01
485 - 490	Brick red & Pink; low pyrite	3476	5 ft	.025
490 - 495	do	3477	5 ft	.01
495 - 500	Pink Syenite; low pyrite	3478	5 ft	.01
500 - 505	Silicified Brick red, low pyrite	3479	5 ft	.02
505 - 510	Pink Syenite, low pyrite	3480	5 ft	.02
510 - 515	do	3481	5 ft	.02
515 - 520	Grey Syenite, low pyrite	3482	5 ft	.11
520 - 525	do	3483	5 ft	tr
525 - 530	Pink Syenite, low pyrite	3484 3484	5 ft	.015

707

530 - 535	brick red, low pyrite	3485	5 ft	tr
535 - 540	do	3486	5 ft	.015
540 - 545	pink cyanite, low pyrite	3487	5 ft	tr
545 - 550	do	3488	5 ft	tr

End of hole - 559 ft.

PROPERTY GOLDEN ARROW MINES LIMITED

HOLE NUMBER 1

SHEET NUMBER 1

SECTION FROM 0 TO 210

DIAMOND DRILL RECORD

LOCATION: LAT. 11298 N
DEP. 13187 E

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING 132°
DIP 45°

STARTED February 21, 1946

COMPLETED March 4 rods stuck in hole

ULTIMATE DEPTH 407'

PROPOSED DEPTH 600'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0-106	CASING				
106-	SYENITE- grey medium grain with gradational carbonatization and silicification toward ore zone				
106-110	Grey Syenite	3039	5'	.005	
110-115	Same as above	3040	5	Tr.	
115-120	" " "	3041	5	.01	
120-125	" " "	3042	5	.01	
125-130	" " "	3043	5	.01	
130-135	" " "	3044	5	.03	
135-140	" " "	3045	5	.01	
140-145	" " "	3046	5	.015	
145-150	" " "	3047	5	.005	
150-175	Grey syenite barren				
175-180	" " " $\frac{1}{4}$ qtz. vein at 100	3048	5	.05	
180-185	Grey syenite	3049	5	.01	
185-190	Same as above	3050	5	.02	
190-195	" " "	3051	5	.01	
195-200	" " "	3052	5	.01	
200-205	" " "	3053	5	.02	
205-210	" " "	3054	5	.02	

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

DRILLED BY

SIGNED

PROPERTY GOLDEN ARROW MINES LIMITED

HOLE NUMBER

SHEET NUMBER 2

SECTION FROM 210 TO 290

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 \$
106-	SYENITE				
	210-215 Grey syenite	3055	5'	.01	
	215-220 Same as above	3056	5	.01	
	220-225 " " "	3057	5	Tr.	
	225-230 " " "	3058	5	Tr.	
	230-235 " " "	3059	5	Tr.	
	235-240 " " "	3060	5	Tr.	
	240-245 " " "	3061	5	.01	
	245-250 Low pyrite in grey syenite with increasing brick red alteration	3062	5	.01	
	250-255 Low pyrite in grey syenite low brick red in sections	3063	5	Tr.	
	255-260 Same as above	3064	5	Tr.	
	260-265 Very low pyrite in grey syenite	3065	5	Tr.	
	265-270 Same as above	3066	5	.01	
	270-275 Low pyrite, low brick red alteration in grey syenite	3067	5	.01	
	275-280 Low pyrite, low brick red alteration in sections in grey syenite	3068	5	.01	
	280-285 Same as above - low brick red	3069	5	.01	
	285-290 " " "	3070	5	.01	

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

DRILLED BY

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PROPERTY GOLDEN ARROW MINES LIMITED

HOLE NUMBER 1

SHEET NUMBER 3

SECTION FROM 290 TO 360

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 \$
290-295	Same as 285-290	3071	5'	.005	
295-300	Low pyrite-low brick red in grey syenite	3072	5	.01	
300-305	Low med. pyrite in carbonated silicified pink syenite, 6" white quartz	3073	5	.02	
305-310	Same as above, with decreasing alteration	3074	5	.02	
310-315	Low med. pyrite in pink syenite, 1" white quartz	3075	5	.02	
315-320	Low pyrite in pink-grey syenite	3076	5	.02	
320-325	Same as above	3077	5	.015	
325-330	" " "	3078	5	.01	
330-335	" " ", some brick red, pyrite follows brick red	3079	5	.015	
335-340	Same as 3079	3080	5	.01	
340-345	Low pyrite in pink syenite, low brick red	3081	5	.01	
345-350	Same as above	3082	5	.02	
350-355	" " "	3083	5	.02	
355-360	Med. pyrite, low silicified syenite, blue grey qtz. stringers, 6" smokey quartz with pyrite, 1' with epidote at end	3084	5	.03	

PROPERTY

HOLE NUMBER

SHEET NUMBER 4

DIAMOND DRILL RECORD

SECTION FROM 360 TO 400

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 \$
360-365	Med pyrite, low silicified syenite, blue grey quartz stringers, 6" white quartz some epidote	3085	5'	.05	
365-370	2 feet med. fine pyrite in med silicified syenite, rest med pyrite in grey syenite	3086	5	.08	
370-375	Med pyrite in pink grey syenite, some epidote, increasing silicification towards end	3087	5	.06	
375-380	Low pyrite in bleached syenite, some blue qtz stringers last 6"	3088	5	.04	
380-385	Med fine pyrite in bleached pink fine grain syenite, blue quartz stringers, some galena, well fractured	3089	5	.04	
385-390	Med fine pyrite in brick red fine grain syenite, one foot blue quartz with fine pyrite at 387.5', some chlorite that looks like hematite but scratches white. One foot felsitic material with blue quartz stringers at 388.5'	3090	5	.04	
390-395	Low-med pyrite in brick red syenite	3091	5	.02	
395-400	Low pyrite in brick red syenite	3092	5	.02	

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

DRILLED BY

SIGNED

PROPERTY GOLDEN AR.HOLE NUMBER 5SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 114° 45' N 111° 32' N
 DEP. 133° 20' E 127° 20' E
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING 048° E
 DIP -45°

STARTED
 COMPLETED
 ULTIMATE DEPTH 677 feet.
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 77	CASING.				
77 - 534.6	SYENITE				
	(See Rotondo log attached) Note				
	increasing reddening towards 534.6,				
	all coarse syenite.				
534.6-547.6	ALTERED GREENSTONE,				
	Dense dull brick red with chlorite				
	partings. Low to medium pyrite,				
	mostly low.				
547.6-596	SYENITE, dark red, fading out to pinkish to				
	salmon. Low to medium pyrite. about				
	1/2 way then increasing red, low pyrite.				
596 - 604	ALTERED GREENSTONE?				
	Dull brick to dark green very dense				
	dark material. Low pyrite. from 601				
	- 602, mixed syenite and greenstone.				
604 -	SYENITE, dark red with chlorite seams fading				
	to pink syenite.				

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

DRILLED BY

SIGNED

April 5th, 1946

GOLDEN ARROW MINES LIMITED

Hole No. 45

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
77 - 80	Pink syenite, low pyrite.	3551	3"	.01
80 - 85	" " " "	3552	3"	Tr.
85 - 90	" " " "	3553	3"	Tr.
90 - 95	" " " "	3554	3"	Tr.
95 - 100	" " " "	3555	3"	.005
100 - 105	Pink & Grey syenite, low pyrite.	3556	3"	.015
105 - 110	" " " with 8" quartz, medium pyrite.	3557	5"	.025
110 - 115	Pink & Grey syenite, low pyrite.	3558	5"	.01
115 - 120	" " " 21" quartz - rest brick red syenite, medium pyrite.	3559	5"	.01
120 - 125	Pink & Grey syenite, medium pyrite.	3560	5"	N11
125 - 130	Pink syenite, medium pyrite.	3561	5"	N11
130 - 135	" " " "	3562	5"	Tr.
135 - 140	" " " "	3563	5"	.01
140 - 145	" " " "	3564	5"	.01
145 - 150	" " " "	3565	5"	Tr.
150 - 155	" " " "	3566	5"	Tr.
155 - 160	" " " "	3567	5"	Tr.
160 - 165	" " " "	3568	5"	Tr.
165 - 170	" " " "	3569	5"	.005
170 - 175	" " " "	3570	5"	.01
175 - 180	" " " "	3571	5"	.01
180 - 185	" " " "	3572	5"	N11
185 - 190	" " " "	3573	5"	N11
190 - 195	" " " "	3574	5"	.01
195 - 200	" " " "	3575	5"	.01
200 - 205	" " " "	3576	5"	.005
205 - 210	" " " "	3577	5"	.01
210 - 215	" " " "	3578	5"	.01
215 - 220	" " " "	3579	5"	.01
220 - 225	" " " "	3580	5"	.01
225 - 230	" " " "	3581	5"	.01

April 11th, 1946

Hole No. 45 Sheet 2.

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
230 - 235	Pink syenite, very low pyrite.	3582	5'	.01
235 - 240	" " " " "	3583	5'	.01
240 - 245	" " " " "	3584	5'	.01
245 - 250	" " " " "	3585	5'	Tr.
250 - 255	" " " " "	3586	5'	.01
255 - 260	" " " " "	3587	5'	.01
260 - 265	" " " " "	3588	5'	Tr.
265 - 270	" " " " "	3589	5'	Tr.
270 - 275	Grey syenite, very low pyrite.	3590	5'	Tr.
275 - 280	" " " " "	3591	5'	.005
280 - 285	" " " " "	3592	5'	Nil
285 - 290	" " " " "	3593	5'	Nil
290 - 295	" " " " "	3594	5'	Nil
295 - 300	" " " " "	3595	5'	Nil
300 - 305	" " " " "	3596	5'	Nil
305 - 310	" & grey syenite	3597	5'	Nil
310 - 315	" " " " "	3598	5'	Nil
315 - 320	" " " " "	3599	5'	Nil
320 - 325	" " " " "	3600	5'	Nil
325 - 330	" " " " "	3601	5'	.005
330 - 335	" " " " "	3602	5'	.005
335 - 340	Pink & Grey syenite, low pyrite.	3603	5'	.01
340 - 345	Pink syenite, low pyrite.	3604	5'	.01
345 - 350	" " " " "	3605	5'	.02
350 - 355	" " " " medium pyrite.	3606	5'	.025
355 - 360	" " " " "	3607	5'	.005
360 - 365	" " " " "	3608	5'	.005
365 - 370	" " " " low pyrite.	3609	5'	.01
370 - 375	Pink & Grey syenite, low pyrite.	3610	5'	.01
375 - 380	" " " " "	3611	5'	Tr.
380 - 385	" " " " "	3612	5'	Tr.
385 - 390	" " " " "	3613	5'	Tr.
390 - 395	" " " " "	3614	5'	Tr.
395 - 400	" " " " "	3615	5'	Tr.
400 - 405	Grey syenite, low pyrite.	3616	5'	Tr.
405 - 410	Pink & Grey syenite, low pyrite.	3617	5'	Nil
410 - 415	" " " " "	3618	5'	Tr.
415 - 420	Pink syenite, low pyrite.	3619	5'	.01
420 - 425	" " " " "	3620	5'	.01

425 - 430	Pink syenite, low pyrite	3685	5 ft	.01
430 - 435	Pink & grey syenite, low pyrite	3686	5 ft	.01
435 - 440	Pink syenite, low pyrite	3687	5 ft	.11
440 - 445	Pink syenite, low pyrite	3688	5 ft	tr
445 - 450	do	3689	5 ft	.11
450 - 455	do	3690	5 ft	.01
455 - 460	Coarse pink syenite, low pyrite	3691	5 ft	tr
460 - 465	do	3692	8 ft	tr
465 - 470	do medium pyrite	3693	5 ft	.015
470 - 475	do low pyrite	3694	5 ft	.01
475 - 480	Coarse pink & grey syenite, low pyrite	3695	5 ft	tr
480 - 485	do	3696	5 ft	tr
485 - 490	do medium pyrite, low silicification	3697	5 ft	.01
490 - 495	same as above	3698	5 ft	tr
495 - 500	Pink & grey syenite, low silicification, medium pyrite	3699	5 ft	.005
500 - 505	brick red & pink syenite, fairly mineralized	3700	5 ft	.01
505 - 510	Coarse pink syenite, fairly mineralized	3801	5 ft	.01
510 - 515	Pink syenite, medium pyrite	3802	5 ft	.025
515 - 520	Pink syenite, low silicification, fairly mineralized	3803	5 ft	.025
520 - 525	Pink syenite, fairly mineralized	3804	5 ft	.015
525 - 530	Pink & brick red syenite, low pyrite	3805 3805	5 ft	.01
530 - 535	Pink syenite, rest altered rock, low pyrite	3806	5 ft	.015
535 - 540	altered rock low pyrite	3807	5 ft	.02
540 - 545	do	3808	5 ft	.02
545 - 550	32" altered rock, rest pink syenite low pyrite	3809	5 ft	.02
550 - 555	Pink syenite, low pyrite	3810	5 ft	.11
555 - 560	do	3811	5 ft	tr
560 - 565	do	3812	5 ft	tr
565 - 570	do	3813	5 ft	tr
570 - 575	do medium pyrite	3814	5 ft	.035
575 - 580	do low pyrite	3815	5 ft	.tr
580 - 585	do	3816	5 ft	tr
585 - 590	brick red syenite, low pyrite	3817	5 ft	tr
590 - 595	do	3818	5 ft	.03
595 - 600	9" brick red syenite, rest altered rock low pyrite	3819	5 ft	tr .005
600 - 605	11" altered hard rock, rest pink syenite, low pyrite	3820	5 ft	.01
605 - 610	ink syenite, low pyrite	3821	5 ft	tr
610 - 615	do	3822	5 ft	.01
615 - 620	do	3823	5 ft	.04
620 - 625	do	3824	5 ft	.03
625 - 630	do	3825	5 ft	.02

PROPERTY GOLDEN ARK

HOLE NUMBER 40

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 113 + 6 9 N
 DEP. 137 + 53 E

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING

DIP - 50°

STARTED

COMPLETED

ULTIMATE DEPTH 521 feet.

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 101	CASING.				
101 - 722.8	SYENITE				
	(See rotondo log attached)				
	Coarse syenite, mostly grey but with sections of pink syenite.				
722.8 - 405.5	ALT. RED GREENSTONE?				
	Dense brick red to dark green material with fine pyrite. Some dark grey quartz with pyrite. Looks as though it should assay.				
405.5 -	SYENITE, dark red, fading in 20 feet or so to grey syenite to bottom of hole.				
	Bottom of hole - 521 feet.				

April 5, 1946

GOLDEN ARROW MINES LIMITED

Hole No. 46

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
101 - 105	Pink syenite, low pyrite.	3386	4"	Nil
105 - 110	" " " "	3387	5"	Tr.
110 - 115	Pink & Grey syenite, low pyrite.	3388	5"	Tr.
115 - 120	" " " "	3389	5"	Tr.
120 - 125	" " " "	3390	5"	.01
125 - 130	" " " "	3391	5"	.01
130 - 135	" " " "	3392	5"	.01
135 - 140	" " " "	3393	5"	.01
140 - 145	" " " "	3394	5"	.01
145 - 150	" " " "	3395	5"	Tr.
150 - 155	" " " "	3396	5"	.01
155 - 160	" " " "	3397	5"	.015
160 - 165	" " " "	3398	5"	.005
165 - 170	" " " "	3399	5"	.005
170 - 175	" " " "	3400	5"	.005
175 - 180	" " " "	3501	5"	.01
180 - 185	" " " "	3502	5"	.01
185 - 190	Pink syenite, medium pyrite.	3503	5"	.01
190 - 195	Medium brick red, medium pyrite.	3504	5"	.01
195 - 200	Brick red syenite, medium pyrite.	3505	5"	.01
200 - 205	Pink syenite, low pyrite.	3506	5"	.02
205 - 210	" " " "	3507	5"	.01
210 - 215	Brick red syenite, medium pyrite.	3508	5"	.055
215 - 220	Pink syenite, low pyrite.	3509	5"	.015
220 - 225	Pink & Grey syenite, medium pyrite.	3510	5"	.01
225 - 230	Grey syenite, low pyrite.	3511	5"	.01
230 - 235	Pink & Grey syenite, low pyrite.	3512	5"	.005
235 - 240	" " " "	3513	5"	.01
240 - 245	" " " "	3514	5"	.01
245 - 250	Epidotized syenite, low pyrite.	3515	5"	.02
250 - 255	Pink & Grey syenite, low pyrite.	3516	5"	.005
255 - 260	" " " "	3517	5"	.015
260 - 265	" " " "	3518	5"	.005
265 - 270	" " " "	3519	5"	.01
270 - 275	" " " "	3520	5"	.005

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
275 - 280-	Pink & grey syenite, low pyrite.	3521	5"	.005
280 - 285	" " " " "	3522	5"	.005
285 - 290	" " " " "	3523	5"	.005
290 - 295	" " " " "	3524	5"	.005
295 - 300	" " " " "	3525	5"	.005
300 - 305	" " " " "	3526	5"	.01
305 - 310	" " " " "	3527	5"	.01
310 - 315	" " " " "	3528	5"	.005
315 - 320	" " " " "	3529	5"	.005
320 - 325	" " " " "	3530	5"	.005
325 - 330	" " " " "	3531	5"	.005
330 - 335	" " " " "	3532	5"	.01
335 - 340	" " " " "	3533	5"	.01
340 - 345	" " " Medium "	3534	5"	.01
345 - 350	" " " " "	3535	5"	.01
350 - 355	Pink syenite, low pyrite.	3536	5"	.015
355 - 360	" " " " "	3537	5"	.01
360 - 365	" " medium pyrite.	3538	5"	.015
365 - 370	" " " " "	3539	5"	.01
370 - 375	Pink & brick red syenite, medium pyrite.	3540	5"	.01
375 - 380	Pink syenite, medium pyrite.	3541	5"	.05
380 - 385	brick red syenite, medium pyrite.	3542	5"	.03
385 - 390	" " " " "	3543	5"	.02
390 - 395	36" brick red syenite, rest altered rock, low pyrite.	3544	5"	.01
395 - 400	6" brick red syenite, fairly mineralized rest altered rock - poor.	3545	5"	.04
400 - 405	Pink syenite, low pyrite.	3546	5"	.02
405 - 410	Brick red & pink syenite, medium pyrite.	3547	5"	.14
410 - 415	Pink & Grey syenite, medium pyrite.	3548	5"	.01
415 - 420	" " " low pyrite.	3549	5"	.01
420 - 425	Pink syenite, low pyrite.	3550	5"	.01
425 - 430	" " " " "	3496	5"	.015
430 - 435	" " " " "	3497	5"	.02
435 - 440	" " " " "	3498	5"	.04
440 - 445	" " " " "	3499	5"	.07
445 - 450	Pink & Grey syenite, low pyrite.	3500	5"	.04
450 - 455	Pink syenite, low pyrite.	3651	5"	.01
455 - 460	Pink & Grey syenite, low pyrite.	3652	5"	Fr.
460 - 465	Grey syenite, low pyrite.	3653	5"	.01

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
465 - 470	Pink & Grey syenite, low pyrite.	3654	5'	.01
470 - 475	" " " "	3655	5'	.01
475 - 480	Grey syenite, low pyrite.	3656	5'	.005
480 - 485	" " " "	3657	5'	.005
485 - 490	" " " "	3658	5'	.01
490 - 495	" " " "	3659	5'	.015
495 - 500	" " " "	3660	5'	Nil
500 - 505	" " " "	3661	5'	.005
505 - 510	" " " "	3662	5'	.01
510 - 515	Pink & Grey syenite, low pyrite.	3663	5'	.015
515 - 521	" " " "	3664	6'	Tr.

End of Hole 46 - 521 feet.

PROPERTY GOLDEN ARROW

HOLE NUMBER 7

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 108 + 41 N
 DEP. 125 + 07 E
 ELEVATION OF COLLAR
 DATUM
 DIRECTION AT START: BEARING 548° E
 DIP - 45°

STARTED
 COMPLETED
 ULTIMATE DEPTH 513'
 PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 77	CASING				
77 - 95.8	SYENITE, grey, with no noticeable alteration.				
95.8-118.6	RED DYKE, fine grained to dense dark red, dull, very low pyrite. clean cut contacts with syenite.				
118.6-432	SYENITE (See Rotondo log attached)				
	325 - 350 Dark grey to white quartz through syenite in part with chalcopyrite threads. Visible gold in 2" of core in fine particles, 3 or 4 noted. Not associated with sulphides.				
432 -	DIABASE Dense chilled margin for 1' grading into very coarse typical diabase. Coarse to bottom. BOTTOM OF HOLE AT 513'.				

NORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM No 501 REV. 5-44

DRILLED BY

SIGNED

GOLDEN ANROE MINES LIMITED

April 11, 1946

Hole No. 17

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
77 - 80	Grey syenite low pyrite	3601	3"	.025
80 - 85	" " " "	3602	5"	.005
85 - 90	" " " "	3603	5"	.005
90 - 95	" " " "	3604	5"	.01
95 - 100	8" pink syenite rest albite, low pyrite.	3605	5"	.01
100 - 105	Altered rock very low pyrite.	3606	5"	.01
105 - 110	" " " "	3607	5"	.01
110 - 115	" " " "	3608	5"	.005
115 - 120	3'8" altered rock rest grey syenite, low pyrite.	3609	5"	.005
120 - 125	Grey syenite, low pyrite.	3610	5"	.005
125 - 130	" " very low pyrite.	3611	5"	Tr.
130 - 135	" " " "	3612	5"	Tr.
135 - 140	" " " "	3613	5"	Tr.
140 - 145	" " " "	3614	5"	Tr.
145 - 150	" " " "	3614		
150 - 155	" " " "	3615	5"	Tr.
155 - 160	" " " "	3616	5"	Tr.
160 - 165	" " " "	3617	5"	.01
165 - 170	" " " "	3618	5"	.005
170 - 175	" " " "	3619	5"	Tr.
175 - 180	" " " "	3620	5"	Tr.
180 - 185	" " " "	3621	5"	Tr.
185 - 190	" " " "	3622	5"	.01
190 - 195	" " " "	3623	5"	Tr.
195 - 200	" " " "	3624	5"	.01
200 - 205	Pink & grey " " " "	3625	5"	.01
205 - 210	" " " "	3626	5"	.01
210 - 215	" " " "	3627	5"	.01
215 - 220	" " " "	3628	5"	.01
220 - 225	" " " "	3629	5"	.015
225 - 230	" " " "	3630	5"	.005
230 - 235	" " " "	3631	5"	Tr.
235 - 240	" " " "	3632	5"	.005
240 - 245	29" pink syenite rest - white quartz and brick red syenite fairly mineralized.	3633	5"	.05

Uncut.

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
245 - 250	Pink & Grey syenite, low pyrite.	3634	5'	.01
250 - 255	" " " " "	3635	5'	.01
255 - 260	" " " " "	3636	5'	.005
260 - 265	" " " " "	3637	5'	.005
265 - 270	" " " " "	3638	5'	Tr.
270 - 275	" " " " "	3639	5'	Tr.
275 - 280	" " " " "	3640	5'	.01
280 - 285	" " " " "	3641	5'	.01
285 - 290	" " " " "	3642	5'	.01
290 - 295	" " " " "	3643	5'	.01
295 - 300	Grey Syenite, low pyrite.	3644	5'	Tr.
300 - 305	Pink & Grey syenite, low pyrite.	3645	5'	.01
305 - 310	Pink syenite, low pyrite.	3646	5'	.005
310 - 315	" " " " "	3647	5'	.02
315 - 320	" " medium pyrite.	3648	5'	.02
320 - 325	" " " " "	3649	5'	.025
325 - 330	20" grey syenite rest silicified pink syenite, white and blue quartz - fairly mineralized.			
330 - 335	Silicified brick red - syenite with white and blue quartz fairly mineralized.	3650	5'	.045
335 - 340	Silicified pink syenite some white quartz - fairly mineralized.	3751	5'	.60
340 - 345	Pink syenite, medium pyrite.	3752	5'	.015
345 - 350	Pink & Grey syenite, medium pyrite.	3753	5'	.01
350 - 355	" " " low pyrite.	3754	5'	.01
355 - 360	" " " " "	3755	5'	.005
360 - 365	" " " " "	3756	5'	.005
365 - 370	" " " " "	3757	5'	.005
370 - 375	" " " " "	3758	5'	Tr.
375 - 380	Pink syenite, low pyrite.	3759	5'	Tr.
380 - 385	" " " " "	3760	5'	.005
385 - 390	" " " " "	3761	5'	.005
390 - 395	" " " " "	3762	5'	Tr.
395 - 400	" " " " "	3763	5'	Tr.
400 - 405	" " " " "	3764	5'	Tr.
405 - 410	" " " " "	3765	5'	Tr.
410 - 415	" " " " "	3766	5'	.005
		3767	5'	.005

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
415 - 420	Pink syenite, low pyrite	3768	5'	.005
420 - 425	" " " "	3769	5'	.005
425 - 430	" " " "	3770	5'	Tr.
430 - 435	22" pink syenite - rest diabase - very low pyrite.	3771	5'	Nil
435 - 440	" " " " " "	3772	5'	Nil
440 - 445	" " " " " "	3773	5'	Tr.
445 - 450	" " " " " "	3774	5'	Nil
450 - 514	All diabase uncut. End of Hole 47 514 feet.			

PROPERTY GOLDEN AR. #

HOLE NUMBER 4

SHEET NUMBER 1

SECTION FROM TO

DIAMOND DRILL RECORD

LOCATION: LAT. 108 + 88 N
DEP. 134 + 95 E

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING
DIP - 45°

STARTED

COMPLETED

ULTIMATE DEPTH

PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$
0 - 85	CASING.				
85 - 288	SYENITE, grey, low pyrite. (See Rotondo log Attached)				
288 - 299	SYENITE with numerous quartz veins, low pyrite throughout.				
299 - 321	ALTERED GREENSTONE - dark green to dark red very dense material, cut by quartz veins, in part silicified to dark grey, all with low very fine pyrite. One veinlet carrying galena 1/8" wide.				
321 - 383	SYENITE, red syenite with veins of white quartz and low pyrite, well fractured with chlorite seams.				
383 - 385	ALTERED GREENSTONE very dense siliceous material with medium fine pyrite.				
385 - 390	SYENITE, coarse, altered red with some pyrite, low.				
390 - 402	ALTERED GREENSTONE, dense dark green material grading in places to siliceous material low pyrite. Last 2 feet rather coarser grained greenstone.				

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

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GOLDEN ARROW MINES LIMITED

April 14, 1946.

Hole No. 48

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
0 - 85	CASING.			
85 - 125	Grey syenite uncut very low pyrite.			
125 - 130	Pink & Grey syenite, low pyrite.	3775	5'	Tr.
130 - 135	" " " " "	3776	5'	Tr.
135 - 140	" " " " "	3777	5'	Nil
140 - 145	" " " " "	3778	5'	Tr.
145 - 150	" " " " "	3779	5'	.01
150 - 155	Pink syenite, low pyrite.	3780	5'	.01
155 - 160	" " " " "	3781	5'	Tr.
160 - 165	" " " " "	3782	5'	Tr.
165 - 170	" " " " "	3783	5'	Tr.
170 - 175	Pink & Grey syenite, low pyrite.	3784	5'	.01
175 - 180	" " " " "	3785	5'	.01
180 - 185	" " " " "	3786	5'	.01
185 - 190	" " " " "	3787	5'	Tr.
190 - 195	" " " " "	3788	5'	.01
195 - 200	" " " " "	3789	5'	.01
200 - 205	Grey syenite, low pyrite.	3790	5'	.01
205 - 210	Pink syenite, low pyrite.	3791	5'	.01
210 - 215	" " " " "	3792	5'	.005
215 - 220	" " " " "	3793	5'	.02
220 - 225	" " " " "	3794	5'	.01
225 - 230	Pink & Grey syenite, low pyrite.	3795	5'	Tr.
230 - 235	" " " " "	3796	5'	.01
235 - 240	" " " " "	3797	5'	.005
240 - 245	" " " " "	3798	5'	.01
245 - 250	" " " " "	3799	5'	.01
250 - 255	" " " " "	3800	5'	
255 - 260	" " " " "	3746	5'	Tr.
260 - 265	" " " " "	3747	5'	Tr.
265 - 270	" " " " "	3748	5'	.01
270 - 275	" " " " "	3749	5'	.01
275 - 280	" " " " Medium pyrite.	3750	5'	Tr.
280 - 285	Pink syenite, low silicification, medium pyrite,	3830	5'	.005
285 - 290	Same as above.	3831	5'	.01
290 - 295	Silicified pink syenite, white quartz some galena, medium pyrite,	3832	5'	.01
295 - 300	34" Pink & grey syenite 14" white barren quartz rest greenstone low pyrite.	3833	5'	.01

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
300 - 305	16" silicified green carbonate rest altered hard rock, low pyrite.	3834	5'	.02
305 - 310	Altered hard rock, low pyrite	3835	5'	.005
310 - 315	" " " " "	3836	5'	.005
315 - 320	" " " " "	3837	5'	.015
320 - 325	9" altered rock rest well silicified rock fairly minor- alized.	3838	5'	.015
325 - 330		3839	5'	.015
330 - 335		3840	5'	.025
335 - 340		3841	5'	.02
340 - 345		3842	5'	.03
345 - 350		3843	5'	.015
350 - 355		3844	5'	.08
355 - 360		3845	5'	.10
360 - 365		3846	5'	.05
365 - 370		3847	5'	.06
370 - 375		3848	5'	.015
375 - 380		3849	5'	.035
380 - 385		3850	5'	.05
385 - 390		3851	5'	.065
390 - 395		3852	5'	.02
395 - 400		3853	5'	.03
400 - 405		3854	5'	.03
405 - 410	Pink syenite, low pyrite.	3855	5'	.01
410 - 415	" " " "	3856	5'	.015
415 - 420	" " " "	3857	5'	.01
420 - 425	" " " "	3858	5'	.015
425 - 430	" " " "	3859	5'	.01
430 - 435	" " " "	3860	5'	.01
435 - 440	" " " "	3861	5'	.01
440 - 445	" " " "	3862	5'	.01
445 - 450	" " " "	3863	5'	.02
450 - 455	" " " "	3864	5'	.01
455 - 460	" " " "	3865	5'	.01
460 - 465	" " " "	3866	5'	.01
465 - 470	" " " "	3867	5'	.01
470 - 475	" " " "	3868	5'	.01

GOLDEN ARROW MINES LIMITED

April 14th, 1946.

Hole No. 48 Sheet 3

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
475 - 480	Pink syenite, low pyrite.	3869	5'	.01
480 - 485	" " " "	3870	5'	"
485 - 490	" " " "	3871	5'	"
490 - 495	" " " "	3872	5'	"
495 - 500	" " " "	3873	5'	"
500 - 505	" " " "	3874	5'	"
505 - 510	" " " "	3875	5'	"
510 - 515	" " , very low pyrite	3876	5'	"
515 - 520	" " " "	3877	5'	"
520 - 525	" " " "	3878	5'	"
525 - 530	" " " "	3879	5'	"

GOLDEN ARROW MINES LIMITED

Hole No. 49

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
0 - 13'6"	CASING.			
13'6" - 20	Diabase uncut.			
20 - 25	Grey syenite medium pyrite.	3701	5'	.01
25 - 30	Coarse pink syenite medium pyrite.	3702	5'	Nil
30 - 35	" " " " "	3703	5'	Nil
35 - 40	" " " " "	3704	5'	Tr.
40 - 45	" " " " "	3705	5'	Tr.
45 - 50	" " " low pyrite.	3706	5'	Tr.
50 - 55	Coarse pink syenite low pyrite.	3707	5'	.005
55 - 60	" " " " "	3708	5'	Tr.
60 - 65	" " " " "	3709	5'	.005
65 - 70	" " " medium pyrite	3710	5'	Tr.
70 - 75	" " " low pyrite	3711	5'	Tr.
75 - 80	Pink & Grey syenite low pyrite	3712	5'	Tr.
80 - 85	" " " " "	3713	5'	Tr.
85 - 90	" " " " "	3714	5'	Tr.
90 - 95	" " " " "	3715	5'	.005
95 - 97'8"	Silicified brick red syenite, medium pyrite.	3716	32"	.01
97'8" - 100	Pink & Grey syenite, low pyrite.	3717	28"	Tr.
100 - 105	" " " " "	3718	5'	.005
105 - 110	" " " " "	3719	5'	.005
110 - 115	" " " " "	3720	5'	.005
115 - 120	" " " " "	3721	5'	.01
120 - 125	" " " " "	3722	5'	.005
125 - 130	" " " " "	3723	5'	Nil
130 - 135	26" Pink syenite rest brick red syenite, low pyrite.	3724	5'	.015
135 - 140	Pink & Grey syenite, low pyrite.	3725	5'	.005
140 - 145	" " " " "	3726	5'	.005
145 - 150	" " " " "	3727	5'	.005
150 - 155	Pink syenite, low pyrite.	3728	5'	.01
155 - 160	" " " " "	3729	5'	.01
160 - 165	Pink syenite, silicification, low pyrite.	3730	5'	.005
165 - 170	" " " " "	3731	5'	.01
170 - 175	Pink & brick red syenite, medium pyrite.	3732	5'	.01
175 - 180	Pink syenite, low pyrite.	3733	5'	.01
180 - 185	Grey syenite, low pyrite.	3734	5'	.08
185 - 190	Coarse pink syenite, low pyrite.	3735	5'	.015

GOLDEN ARROW MINES LIMITED

April 14, 1946

Hole No. 49 Sheet No. 2

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>	<u>ASSAY</u>
190 - 200	Same as above very low pyrite.			
200 - 205	Pink syenite, low pyrite.	3736	5'	Tr.
205 - 210	Pink & Grey syenite, low pyrite.	3737	5'	.0005
210 - 215	" " " " "	3738	5'	Tr.
215 - 220	" " " " "	3739	5'	Tr.
220 - 225	" " " " "	3740	5'	Tr.
225 - 230	" " " " "	3741	5'	.01
230 - 235	Pink syenite, low pyrite.	3742	5'	.005
235 - 240	" " " " "	3743	5'	.01
240 - 245	" " " " "	3744	5'	Tr.
245 - 250	" " " " "	3745	5'	Tr.
250 - 282	Grey syenite very low pyrite uncut.			

END OF HOLE 49 - 282 feet.

DIAMOND DRILL RECORD

Location: Lat. 105-43N
Dep. 122-36

Ultimate Depth 790'

Direction at Start Bearing S 48° E
Dip 45°

<u>Depth Feet</u>	<u>Formation</u>	<u>Sample No.</u>	<u>Width of Sample</u>
0 - 75	CASING		
75 - 76	Syenite, Coarse grained.		
76 - 81	GREENSTONE, only 1 or 2 inches altered to red rock and this carries high pyrite, remainder low pyrite.		
81 -	SYENITE, Coarse, low pink for 10 feet then becoming medium red to high red. Low pyrite throughout. Bottom of hole on April 18, 1946.		
	75-80	3902	5'
	80-85	3903	5'
	85-90	3904	5'
	90-95	3905	5'
	95-100	3906	5'
	SYENITE continues with mod. well altered section, 100 to 120, pink, grain disappears in short sections, low pyrite.		
	181-7 - 183.3 White QUARTZ with seams molybdenite. Medium pyrite and high epidote. 183.3 - 184.5 then quartz to 186.		
	193.8 - 196.4 quartz with chlorite patches, low pyrite.		
	continues in deep red to salmon with medium quartz stringers, low to medium pyrite.		
	From 200 to 260, good looking core then fading color and less quartz.		

GOLDEN ARROW MINES LIMITED

Hole No. 50
Sheet No. 2

<u>Depth Feet</u>	<u>Formation</u>	<u>Sample No.</u>	<u>Width of Sample</u>
471 - 475.5	GREENSTONE with mixed quartz, epidote, pyrite.		
475.5 - 488	SYENITE, pink to grey.		
488 - 492.5	GREENSTONE, mixed with quartz and feldspathized in patches. Low pyrite.		
492.5 - 523	SYENITE, dark red with low to medium pyrite in places.		
523 -	GREY SYENITE very low pyrite.		

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
100 - 105	Syenite, pink, very low pyrite.	3907	5'
105 - 110	" " " " "	3908	5'
110 - 115	" " " " "	3909	5'
115 - 120	" " " " "	3910	5'
120 - 125	" " " " "	3911	5'
125 - 130	" " " " "	3912	5'
130 - 135	" " " " "	3913	5'
135 - 140	" " " " "	3914	5'
140 - 145	" " " " "	3915	5'
145 - 150	" " " " "	3916	5'
150 - 155	" " " " "	3917	5'
155 - 160	" " " " "	3918	5'
160 - 165	" " " " "	3919	5'
165 - 170	Brick Red syenite, low pyrite.	3920	5'
170 - 175	" " " " "	3921	5'
175 - 180	(See log) Carries Molybdenite, quartz.	3922	5'
180 - 185	" " " " "	3923	5'
185 - 190	" " " " "	3924	5'
190 - 195	" " " " "	3925	5'
195 - 200	" " " " "	3926	5'
200 - 205	Pink syenite, low pyrite, coarser.	3927	5'
205 - 210	" " " " "	3928	5'
210 - 215	" " " " "	3929	5'
215 - 220	" " " " "	3930	5'
220 - 225	" " " " "	3931	5'
225 - 230	" " " " "	3932	5'
230 - 235	" " " " "	3933	5'
235 - 240	" " " " "	3934	5'
240 - 245	Quartz streaked with red. Red Syenite.	3935	5'
245 - 250	Less quartz and lower red.	3936	5'
250 - 255	High quartz, high red, low to medium pyrite.	3937	5'
255 - 260	" " " " " " "	3938	5'
260 - 265	Grey syenite, low pyrite.	3939	5'
265 - 270	" " " " "	3940	5'
270 - 275	" " " " "	3941	5'
275 - 280	" " " " "	3942	5'
280 - 285	" " " " "	3943	5'
285 - 290	" " " " "	3944	5'
290 - 295	" " " " "	3945	5'
295 - 300	" " " " "	3946	5'

GOLDEN ARROW MINES LIMITED

Hole No. 50
Sheet No. 2

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
300 - 305	Grey syenite to 304, then brick, low pyrite.	3947	5'
305 - 310	Brick red to 308.5 then grey	3948	5'
310 - 315	Grey syenite, low pyrite.	3949	5'
315 - 320	" " " "	3950	5'
320 - 325	" " " "	3951	5'
332 - 335	Dark red syenite, low pyrite.	3952	3'
335 - 340	As above, epidote in last 6".	3953	5'
380 - 385	Grey syenite, low pyrite.	3954	5'
385 - 390	" " " "	3955	5'
410 - 415	Grey syenite with two sections 6", red with medium pyrite.	3956	5'
415 - 420	Rare quartz stringers with galena low pyrite.	3957	5'
455 - 460	Low pyrite in pink syenite.	3958	5'
460 - 465	As above, quartz vein 1" with crystals pyrite.	3959	5'
465 - 470	Pink to red syenite, low pyrite.	3960	5'
470 - 475	Brick red to 471 then quartz and greenstone, low pyrite.	3961	5'
475 - 480	Grey syenite.	3962	5'
480 - 485	" "	3963	5'
485 - 490	" " greenstone 488 - 490.	3964	5'
490 - 495	Greenstone 490 - 492.5.	3965	5'
495 - 500	Brick red syenite, chlorite, low pyrite.	3966	5'
500 - 505	Brick red syenite low to medium pyrite.	3967	5'
505 - 510	" " " " " "	3968	5'
510 - 515	" " " " " "	3969	5'
515 - 520	Grey syenite, low pyrite.	3970	5'
520 - 525	" " " "	3971	5'

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH OF SAMPLE</u>
550 - 555	Coarse grey syenite, very low pyrite.	3977	5'
555 - 560	Coarse grey syenite, very low pyrite.	3978	5'
560 - 565	Same as above.	3979	5'
565 - 570	Same as above.	3980	5'
570 - 575	Same as above.	3981	5'
575 - 580	Same as above.	3982	5'
580 - 585	Same as above.	3983	5'
585 - 590	Pink and grey syenite, very low pyrite.	3984	5'
590 - 595	Same as above.	3985	5'
595 - 600	Same as above.	3986	5'
600 - 605	Pink syenite, low pyrite.	3987	5'
605 - 610	Pink syenite, low silicification, low pyrite.	3988	5'
610 - 615	Coarse red syenite, medium pyrite.	3989	5'
615 - 620	Pink syenite, fairly mineralized.	3990	5'
620 - 625	Same as above.	3991	5'
625 - 630	Silicified pink syenite, medium pyrite.	3992	5'
630 - 635	Same as above.	3993	5'
635 - 640	Same as above.	3994	5'
640 - 645	Same as above.	3995	5'
645 - 650	Pink syenite, medium pyrite.	3996	5'
650 - 655	Pink syenite, low pyrite.	3997	5'
655 - 660	Same as above.	3998	5'
660 - 665	Same as above.	3999	5'
665 - 670	36" epidized syenite rest grey syenite, low pyrite.	4000	5'
670 - 675	Pink syenite, low pyrite.	4151	5'
675 - 680	Pink and grey syenite, low pyrite.	4152	5'
680 - 685	Same as above.	4153	5'
685 - 690	Pink and grey syenite, low pyrite.	4154	5'
690 - 695	Same as above.	4155	5'
695 - 700	Same as above.	4156	5'
700 - 705	Same as above.	4157	5'
705 - 710	Pink syenite, low alteration, low pyrite.	4158	5'
710 - 715	Pink syenite, low pyrite.	4159	5'
715 - 720	Same as above.	4160	5'
720 - 725	Pink syenite, low alteration, low pyrite.	4161	5'
725 - 730	Pink syenite, very low pyrite.	4162	5'
730 - 735	Pink and grey syenite, very low pyrite.	4163	5'
735 - 740	Pink syenite, very low pyrite.	4164	5'

GOLDEN ARROW MINES LIMITED

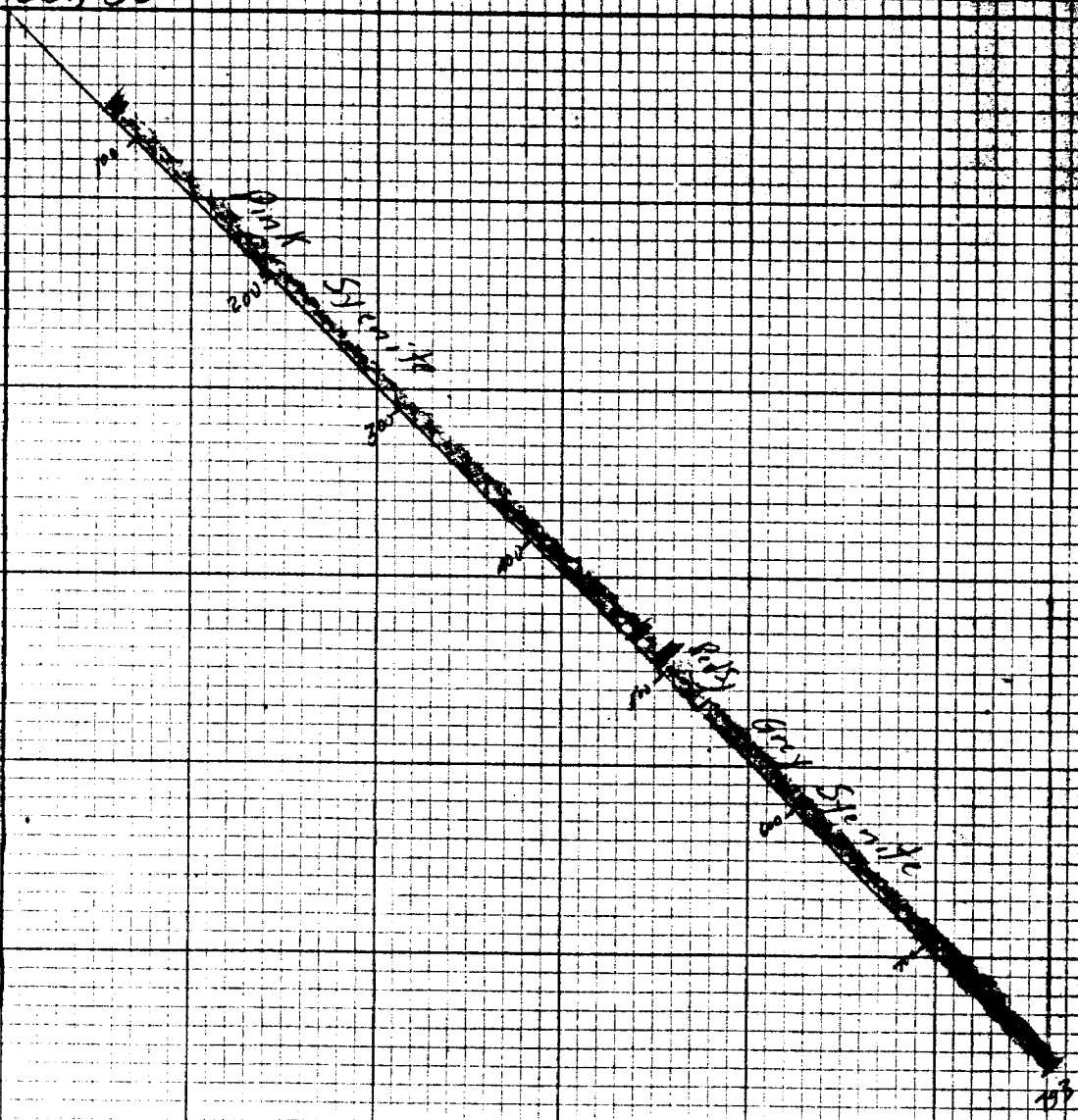
Hole No. 50
Sheet No. 4

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH OF SAMPLE</u>
740 - 750	Pink and grey syenite, uncut.		
750 - 755	Pink syenite, low pyrite.		
755 - 760	Pink syenite, low pyrite.	4165	5'
760 - 765	Same as above.	4166	5'
765 - 770	Pink syenite, low alteration, low pyrite.	4167	5'
770 - 775	Same as above.	4168	5'
775 - 790	Coarse pink syenite uncut.	4169	5'

END OF HOLE 50 - 790 feet.

NORTH - WE

DDH 50



GOLDEN ARROW

DDH No 50

Length - 795'

1 in = 100 ft

L.P.

Location: Lat. 102 plus 45N
Dep. 119 plus 70E

Direction at Start: Dip 45°, 250-38°, 638-38°

Ultimate Depth 643

0 - 35	CASING
35 - 100.5	DIORITE, coarse massive with quartz carbonate threads and pyrite seams; rare sections have heavy pyrite 60 - 65 See above 65 - 70 See above 70 - 75 See above
100.5 - 154.5	TUFFS, bedded with medium shear at about 45° to core axis. Pyrite seams common low quartz; carbonate. 100 - 105 105 - 110 110 - 115 - 4" syenite at 113 115-120 120 - 125 125 - 130 130 - 135 135 - 140 140 - 145 - 4" pink felsite 145 - 150 - 1" " "
154.5 - 171	DIORITE, massive, rare disseminated specks pyrite
171 - 174	SYENITE, coarse, massive, with chilled margins
174 - 190.3	DIORITE, massive, medium coarse grained
190.3 - 203.4	SYENITE, pink, with dark mineraliz. gone, low pyrite
203.4 - 206.5	DIORITE, nil pyrite
206.5 - 211	SYENITE, coarse, massive
211 - 250	DIORITE, coarse massive
250 - 267	SYENITE, coarse, massive, very low pyrite
267 - 331.8	DIORITE, massive, medium grained with 1.5 ft. syenite at 268.5 - 270 330 - 331.8 mostly white quartz with low pyrite and inclusions. 325 - 330 see above
333.8 - 643	SYENITE medium red, low pyrite 335 - 338 Diorite with last 1' increasingly altered and with low to medium pyrite 330 - 335 Diorite, quartz and syenite 335 - 340 " low pyrite and low red syenite 340 - 345 Low to medium pyrite in medium red syenite 345 - 350 Syenite; grey; low pyrite 350 - 355 Grey to 352; then medium pink. Greenstone; very low pyrite 9" greenstone 10" blue quartz, rest pink syenite fairly mineralized 34" Greenstone rest silicified pink syenite, medium pyrite
325 - 330	
330 - 335	
335 - 340	

340 - 345	Silicified pink syenite, fairly mineralized
345 - 350	Pink & Grey syenite, low pyrite
350 - 355	Pink syenite, low pyrite
355 - 360	Same as above
360 - 365	Same
365 - 370	Same
370 - 375	Same
375 - 380	Same
380 - 385	Pink syenite, low pyrite
385 - 400	Same
400 - 405	Pink & Grey Syenite, low pyrite
405 - 425	Same
425 - 430	Pink syenite some silification; low pyrite
430 - 435	Pink Syenite, well silicified, low pyrite
435 - 440	Same
440 - 445	Same
445 - 450	pink syenite, low pyrite
450 - 455	Pink & grey syenite
455 - 460	Pink syenite, low alteration, low pyrite
460 - 465	Pink syenite, low pyrite
465 - 470	Pink & grey syenite, low pyrite
470 - 485	Same
485 - 490	24" pink & greenish syenite, rest pink syenite, low pyrite
490 - 495	Pink & grey syenite, low pyrite
495 - 535	Same
535 - 540	Grey syenite, low pyrite
540 - 550	same
550 - 555	Pink & grey syenite, low pyrite
555 - 580	Same
580 - 585	Same, some slickensides
585 - 590	Pinkish syenite 0.7' lamprophyre low pyrite
590 - 595	Pinkish grey syenite, low pyrite
595 - 600	Pinkish grey syenite 0.6' quartz; low pyrite
600 - 605	Pink grey syenite, low quartz stringers, low alteration, low to medium pyrite
605 - 610	Pinkish syenite, some slickenside, medium pyrite 1.3' at end
610 - 615	1.8' Lamprophyre, 3.2' syenite, medium pyrite, pinkish alteration
615 - 620	Pink syenite, some slickenside, low pyrite
620 - 625	Pink & grey syenite, low pyrite
625 - 630	Pink syenite, low pyrite, 6" greenstone in middle
630 - 635	As above; no greenstone
635 - 640	As above
640 - 645	Brick red

643 bottom of hole in syenite

NOR: WEST

DDH 51

82'

72'

118'

225'

500'

Diorite Tuff

Diorite

Syenite

Diorite Tuff

Diorite
Syenite
Diorite
Syenite

Diorite

Syenite

Diorite

Syenite
Diorite

Syenite

643

Geological Section

DDH No. 51

1 in. = 100 ft.

UNIVERSITY OF CALIFORNIA

GOLDEN ARROW MINES LIMITED

Hole No. 52
Sheet No. 1Lat: 124 plus 70N
Dep. 123 plus 78EBearing S 55 E
Dip - 35°

<u>DEPTH</u>	<u>DESCRIPTION</u>
0 - 15	CASING
15 - 26	DIORITE; dense, massive, rare quartz carbonate threads.
26 - 136	LAVAS??? Medium grained to fine to dense in short sections. Rare quartz carbonate threads almost certain pillows around 90 to 100. 60 - 65 Lavas, very low to low pyrite. 65 - 67 Plus 75 - 80 80 - 90 102 - 103 FELDSPAR PORPHYRY
136 - 184.8	BEDDED TUFFS? Well marked banding in places that may be bedding. 145 - 150 Well silicified in short sections; some epidote negligible pyrite (163 ft. April 27) 150 - 180 As above with low disseminated pyrite; medium pyrite on fracture. 171 - 171.3 Red carbonate; medium pyrite; medium quartz. 180 - 186 Uncut.
184.8 - 196	DIORITE fine grain massive
196 - 212.5	193.3 - 196.3 High pyrite; quartz; carbonate veinlets.
212.5 - 224.5	VOLCANICS; very dense; probably pillow lava. BRECCIA - flow 215.6 - 218.1 Syenite; coarse massive 221.3 - 222.4 Syenite; with greenstone 227.0 - 228 Syenite 245.5 - 247.1 Syenite
224 - 250	VOLCANICS, dense; faint banding; possibly tuffs.
250 - 306.8	SYENITE; coarse, massive. 272.5 - 275 Greenstone, low pyrite; syenite - pink to gray; few to negative; pyrite and quartz.

<u>DEPTH</u>	<u>DESCRIPTION</u>
306.8 - 345.7	VOLCANICS: probably pillow lava; short sections as at 324.5 brick red; high pyrite and as (342.9 - 345.7) included in sample No. 4094 and 4095.
345.7 - 472	DIABASE
	END OF HOLE

Dip 45°

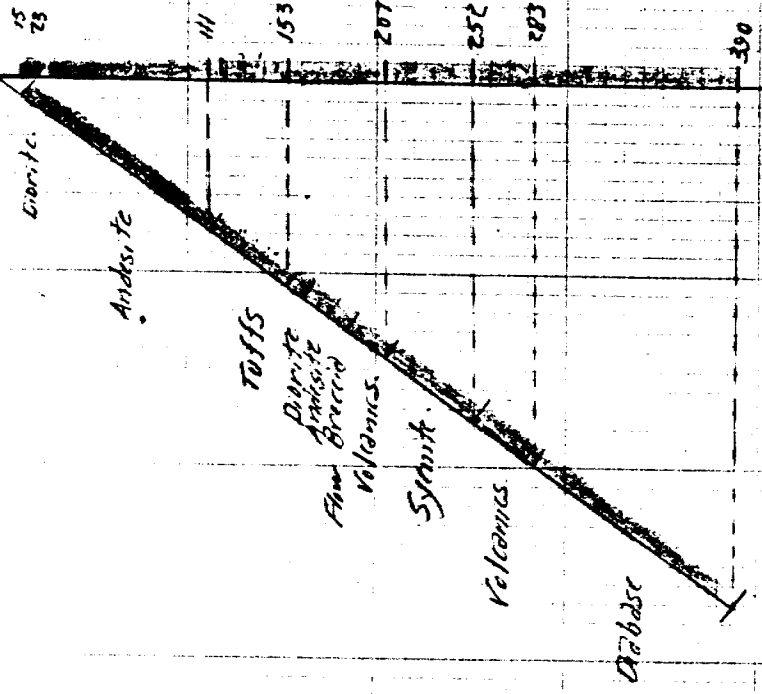
<u>DEPTH</u>	<u>DESCRIPTION</u>
100 - 102.6	Brecciated pillow lava and 8" syenite; low pyrite; uncut.
102.6 - 105	21" andesite; rest white quartz; low chalcopyrite on quartz; rest low pyrite.
105 - 110	Andesite; low alteration; low pyrite.
110 - 115	Andesite; very low pyrite.
115 - 120	Tuff or andesite; low alteration; low pyrite.
120 - 125	Same
125 - 130	Tuff and pillow lava; very low pyrite; uncut.
145 - 150	Andesite; low alteration; low pyrite.
150 - 155	Same
155 - 160	Andesite; low brecciation; low pyrite.
160 - 165	Altered hard rock; low pyrite.
165 - 170	Tuff; very low pyrite.
170 - 175	Tuff; low alteration; low pyrite.
175 - 180	Same as above.
180 - 185	Tuff; very low pyrite, uncut.
185 - 190	Same
190 - 193.3	Same
193.3 - 195.3	Diorite low silicification; medium pyrite.
195.3 - 200	Tuff; very low pyrite.
200 - 205	Tuff; low alteration; low pyrite.
205 - 230	Tuff with 30" pink syenite; very low pyrite.
230 - 235	Andesite low pyrite.
235 - 243.7	Same
243.7 - 246.3	Pink syenite; very low pyrite; uncut.
246.3 - 250	Andesite; low pyrite.
250 - 255	Coarse pink syenite; very low pyrite.
255 - 272.4	Same as above.
272.4 - 275	Andesite; low pyrite.
275 - 280	Coarse pink syenite; very low pyrite.
280 - 295	Same
295 - 300	8" white quartz rest pink syenite; very low pyrite.
300 - 306.10	Coarse pink syenite; very low pyrite.
306.10 - 310	Tuff; very low pyrite.
310 - 315	Same

<u>DEPTH</u>	<u>DESCRIPTION</u>
315 - 320	Tuff; low alteration; low pyrite.
320 - 325	Same as above.
325 - 330	Tuff; very low pyrite.
330 - 340	Same as above.
340 - 343	3' tuff; .03 syenite; low pyrite; 3' high mineralization.
345 - 350	1' diabase high mineralization; 4' low mineralization.
350 - 370	Diabase; uncut.
370 - 372	Diabase; low pyrite.
375 - 380	Diabase; low pyrite.
380 - 385	Same.
385 - 472	Diabase, uncut.

End of hole in diabase.

NORTH WEST

DDH 52



GOLDEN ARROW
 1 in = 100 ft.
 DDH 52

4.39

GOLDEN ARROW MINES LIMITED

Hole No. 53
Sheet No. 1Lat - 122 plus 50N
Dep.- 136 plus 93EBearing . S 48E
Dip - 55°Ultimate Depth 357
Proposed depth 900

<u>DEPTH</u>	<u>DESCRIPTION</u>
0 - 20	CASING
20 - 28	PILLOW LAVE ? dense; with numerous quartz stringers and syenite dykelets.
28 - 98	DIORITE, massive, medium grained, syenite dykes. 37 - 38.5; NOTE; low shear in diorite at about 35° to core axis; 69 - 72 syenite.
98 - 155.2	SYENITE pink to grey massive with short sections altered to deep red as in 115 - 120 (to 150 ft. April 27) 100 - 105 Medium red, low pyrite. 105 - 110 Same 110 - 115 Low red, negative pyrite, low quartz. 115 - 120 Low red, negative pyrite. 120 - 125 " " 125 - 130 " "
155.2 - 166.3	BEDDED TUFFS, bedding at 45° to core axis; very low pyrite, very low to low alterations.
166.3 - 171.8	SYENITE medium to low pink, low pyrite.
171.8 - 189	BEDDED TUFFS, bedding at 45° to core axis, negative alteration, low pyrite on fractures. 180.8 - 181.8 SYENITE, medium red very low pyrite. 182.7 - 183.3 SYENITE, low alteration.
189 - 232.8	SYENITE low to red alteration, low pyrite, low quartz stringers, 223 - 232.8 grey syenite.
232.8 - 237	TUFFS, poor bedding, low pyrite, low quartz.
237 - 241.8	SYENITE low to medium alteration, low pyrite. 239.2 - 241.8 Syenite; medium red alteration; low pyrite, low quartz stringers, medium carbonatization.
241.8 - 285.2	TUFFS?? - poor bedding GREENSTONE. 241.8 - 244 High red alteration, high pyrite. 245 - 246 White quartz, low green carbonatization very low pyrite. 246.2 - 247.2 Syenite, with tuff inclusions, medium to low red alteration, medium to low pyrite.

DEPTHDESCRIPTION

248.7 - 249.5	Syenite, altered, medium red alteration, low pyrite.
200 - 205	Syenite, low red alteration, low pyrite, low quartz
205 - 240	Same as above.
240 - 245	Syenite to 246.8; rest tuffs, low quartz stringers, low carbonate stringers, high to medium pyrite.
250 - 285.2	Greenstone, medium pyrite.
252 - 253.5	Syenite medium alteration, low pyrite, low quartz stringers.
270.8 - 276	Greenstone, high pyrite, low red alteration, low carbonatization, low quartz stringers.
281 - 283	High silicification.
250 - 255	Greenstone with 1' of syenite; medium pyrite very low red alteration.
255 - 260	Greenstone, medium pyrite, low alteration.
260 - 270	Same as above.
270 - 275	Greenstone, high coarse pyrite.
275 - 280	Greenstone, medium pyrite, low quartz.
280 - 285	Greenstone, low pyrite, high silicification.
285.2 - 357	SYENITE
285 - 290	Massive syenite, medium to low pyrite, low red alteration, low quartz stringers.
290 - 295	Same as above but very low pyrite.
295 - 305	Same as above.
305 - 310	Syenite grayish very low pyrite, low quartz stringers.
315 - 320	Same as above.
320 - 325	Medium red alteration, medium pyrite, high silicification.
325 - 330	Syenite, medium red alteration, low pyrite, low quartz stringers.
330 - 335	Syenite, medium red alteration, very low pyrite.
335 - 340	Syenite, low red alteration, low pyrite.
340 - 350	Same as above.
350 - 357	Massive syenite, low red alteration at 352. Quartz vein at 354.2 to 354.9.

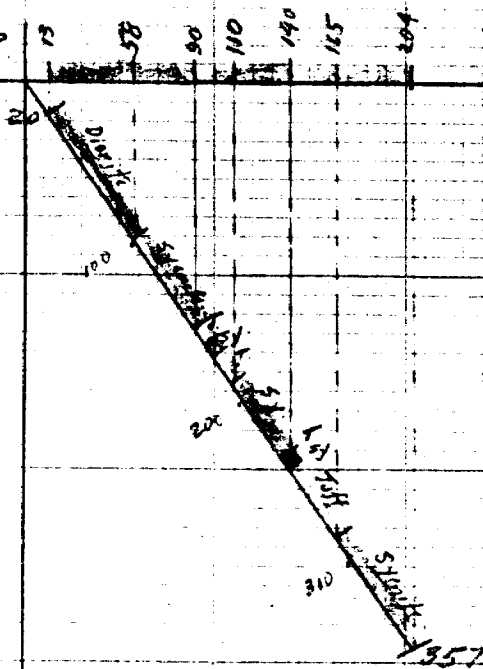
357 Ft. end of hole.

<u>DEPTH</u>	<u>DESCRIPTION</u>
100 - 105	Pink and grey syenite, very low pyrite.
140 - 145	Pink and grey syenite, low pyrite.
145 - 150	Coarse pink syenite, very low pyrite, uncut.
150 - 155	Pink syenite, low pyrite.
155 - 160	Same.
160 - 165	Pillow lava, very low pyrite.
165 - 170	16" pillow lava, rest pink syenite, low pyrite.
170 - 172	21" pink syenite, rest tuff; low pyrite.
175 - 180	Tuff, very low pyrite, uncut. very
180 - 185	10" tuff, 12" pink syenite, rest tuff, low pyrite.
185 - 190	48" tuff rest pink syenite, low pyrite.
190 - 195	Pink syenite, low pyrite.
195 - 200	Pink syenite, low pyrite.
200 - 205	Same.
205 - 210	Pink and grey syenite, very low pyrite.
210 - 225	Same as above.
237 - 240	Pink and grey syenite, low pyrite.
240 - 245	22" altered pink syenite, rest tuff, medium pyrite.
245 - 250	11" greenish quartz rest tuff and pink syenite low pyrite.
250 - 270	Uncut.
270 - 275	Tuff, medium pyrite.
275 - 280	Greenstone, low pyrite.
280 - 285	17" grey syenite, 14" elbite, rest andesite, low pyrite.
285 - 290	Pink and grey syenite, low pyrite.
290 - 300	Same as above.
300 - 305	Coarse grey syenite, low pyrite.
305 - 310	Pink and grey syenite, low pyrite.
310 - 320	Same as above.
320 - 325	Altered pink and grey syenite, low pyrite.
325 - 330	Same as above.
330 - 335	Pink syenite, very low pyrite.
335 - 340	Pink and grey syenite, low pyrite.
340 - 345	Pink and grey syenite, very low pyrite.
345 - 357	Same as above.

End of Hole #53- 357 feet.

NORTH - W. T

DDH 53



GOLDEN ARROW
DDH No. 53
1 in = 100 ft

GOLDEN ARROW MINES LIMITED

Hole No. 53A
Sheet No. 1Lat: 122 plus 60N
Dept. 136 plus 73E

Ultimate depth - 999'

Bearing S 48° E
Dip: - 55°; 800' - 47°

<u>DEPTH</u>	<u>DESCRIPTION</u>
0 - 23	CASING.
23 - 25	GREENSTONE (porphyritic andesite?) Fine grain, low mineralization. Narrow low shear @ 24.2 at 20° to core axis.
25 - 31.5	DIORITE OR DIORITIC ANDESITE low pyrite containing numerous syenite dikelets; 26.8 - 27.0 Syenite dike @ 40° to core axis.
31.5 - 46.5	BEDDED TUFFS. Beds 30° to core axis; numerous syenite dikelets; very low pyrite. 32.4 - 32.9 Felsite dike 39.0 - 39.2 " " 40.9 - 41.1 Syenite porphyry
46.5 - 50.0	DIORITIC ANDESITE low pyrite.
50.0 - 78.0	DIORITE low pyrite; high pyrite in fractures; numerous dikelets of syenite cut core axis at 30° to 40° 56.2 - 56.5 Syenite (as above) 58.7 - 59.1 Syenite fine grained. 61.5 - 62.0 Syenite coarse grained.
78 - 96	GREENSTONES Very low mineralization. Grade from bedded tuffs to diorite. Beds inclined at 45° to core axis. Numerous dikelets of syenite. 82.0 - 82.5 Syenite porphyry. 89.2 - 89.9 " "
96 - 101.5	SYENITE .. Medium red alteration, low pyrite, low quartz. 96 (Contact) High pyrite, some chalcopryrite.
101.5 - 105.9	LAMPROPHYRE. - low pyrite.
105.9 - 109.2	SYENITE - medium to low red alteration, low pyrite, quartz. 109.2 (contact) high pyrite.
109.2 - 118	TUFFS- low pyrite. become increasingly dioritized near 118.
118 - 125	DIORITE low pyrite, not disseminated.
125 - 134	GREENSTONE with red alteration, low pyrite.
134 - 137	SYENITE with greenstone inclusions.

<u>DEPTH</u>	<u>DESCRIPTION</u>
137 - 208	Massive SYENITE pink to grey.
208 - 213	GREENSTONE medium pyrite, low quartz.
213 - 215.3	SYENITE - pink alteration.
215.3 - 218.5	GREENSTONE - high pyrite.
218.5 - 280	SYENITE. Pink and grey. Chlorite on partings.
280 - 303.4	GREENSTONE - Massive fine grained and highly altered (red) for most part, but recognizable as LAMPROPHYRE at about 287 locally high pyrite.
	280.1 - 281.5 High red alteration, high quartz, low carbonates, high pyrite.
	292 - 298 Medium red alteration, high pyrite.
303.4 - 367.1	SYENITE pink and grey. Low quartz, low pyrite.
367.1 - 371.2	LAMPROPHYRE. Medium pyrite.
371.2 - 309.8	SYENITE pink and grey.
	403.2 - 404 Massive calcite and quartz vein.
	428.3 - 428.9 Quartz vein.
	412 - 412.5 Considerable chlorite.
	431 - 453.5 Bleached, low mafice.
	552.1 - High epidote.
	555.2 - 556 - High epidote.
	581.5 - 582.5 - Quartz.
609.8 - 611.8	FAULT?
611.8 - 801.5	SYENITE. Pink and grey.
	674 - 700 Considerable brick red alteration, low pyrite.
	726 - 727.5 Brick red alteration, medium pyrite.
	793 - 801.5 Brick red, medium fine pyrite.
801.5 - 823.5	GREENSTONE, strongly altered from about 805 to 823.5 with medium fine pyrite.
	804 - 805 slickensides and probable FAULT.
823.5 - 829.5	LAMPROPHYRE, reddened, coarse, very low pyrite.
829.5 - 832	SYENITE? Much altered, reddened, with medium fine pyrite.
832 - 850	GREENSTONE, medium red alteration to 840 then low, with medium low to low pyrite.
850 - 855	SYENITE medium brick red with pyrite on fractures with chlorite.
855 - 889.6	ANDESITE, massive, fine grained with threads quartz, calcite, negligible pyrite.
889.6 - 910.1	SYENITE, medium alteration but pink rather than red, continues to 895.

<u>DEPTH</u>	<u>DESCRIPTION</u>
	At 899 note 2" orange carbonate in grey syenite.
910.1 - 914.5	GREENSTONE, probably andesite fine grained, very low pyrite.
914.5 - 955.3	SYENITE, pink for 5 feet, then grey. (To 925, May 11th.)
	930 - 955.3 increasing red alteration with 950 - 955.3 high alteration, 1 ft. changed to sugary material, low pyrite.
955.3 - 960.1	FELSITE, brick red, dense, barren.
960.1 - 962.5	SYENITE, medium red.
962.5 - 963	FELSITE, as above.
963 - 999	SYENITE, grey, massive, crystals grained.

END OF HOLE 999 feet.

<u>DEPTH</u>	<u>DESCRIPTION</u>
96 - 100	Pink syenite, low pyrite.
75 - 87.7	Diorite uncut.
87.7 - 96	Pillow lava uncut.
100 - 105	19" pink syenite rest diorite low pyrite.
105 - 110	48" pink and grey syenite rest diorite low pyrite.
110 - 125	Diorite low pyrite, uncut.
125 - 130	Greenstone, small syenite dikelets high to medium pink alteration, low pyrite.
130 - 135	Same as above, but more syenite.
135 - 140	Syenite, inclusions, low to medium pyrite medium pink alteration, low quartz stringers.
150 - 145	Syenite, medium pink alteration, low pyrite.
145 - 150	Syenite, low pink alteration, low pyrite, local high pink alteration.
150 - 155	Syenite, medium pink, low pyrite, green shear at 154'
155 - 160	Syenite, medium pink, low pyrite.
160 - 165	Syenite, medium pink, low pyrite, considerable rotten rock at 161.6 some galena.
165 - 170	Pink syenite, low pyrite.
170 - 175	10" pink syenite, 15" yellow syenite, rest pink syenite, low pyrite.
175 - 180	Pink syenite, low pyrite.
180 - 185	Pink and grey syenite, low pyrite.
185 - 190	Pink syenite, low alteration, low pyrite.
190 - 195	Pink and grey syenite, low pyrite.
195 - 200	Coarse pink and grey syenite, low pyrite.
200 - 205	Coarse pink and grey syenite, low pyrite, low silicification.
205 - 210	31" pink syenite to Fault rest greenstone high alteration, medium pyrite.
210 - 215	3' Greenstone - altered, rest pink syenite, low pyrite.
215 - 220	40" greenstone - altered, rest pink syenite, low pyrite.
220 - 225	21" greenstone - altered, rest pink syenite, low pyrite.
225 - 230	Pink and grey syenite, low pyrite.
230 - 235	Coarse pink and grey syenite, low pyrite.
235 - 240	Same as above.
240 - 245	Same as above.
245 - 250	Coarse pink and grey syenite, low pyrite.
250 - 260	Uncut, pink and grey syenite, very low pyrite.
260 - 265	Pink and grey syenite, low pyrite.

<u>DEPTH</u>	<u>DESCRIPTION</u>
265 - 270	Same as above.
270 - 278.9	Same as above.
278.9 - 285	2.4' pink and grey syenite, high silicification.
285 - 290	3.7' Greenstone, medium mineralization.
290 - 295	Greenstone, low alteration, low pyrite.
295 - 300	2.2' Greenstone, 2.8' pink hard rock altered medium pyrite.
300 - 305	Pink hard rock, altered, medium mineralization.
305 - 310	3.4' Greenstone 1.5' coarse pink and gray syenite, low pyrite.
310 - 325	Coarse pink and grey syenite, low pyrite.
325 - 330	Same as above.
330 - 335	Same as above, low quartz.
335 - 340	Same as above, low silicification.
340 - 345	Same as above, low pyrite.
345 - 350	Coarse pink and grey syenite, low pyrite.
350 - 365	Pink and grey syenite, low quartz, low pyrite.
365 - 370	Same as above.
370 - 375	2.2' pink syenite, 2.8' andesite, low pyrite.
375 - 380	1.3' Andesite, 3.7' pink and grey syenite, low pyrite.
380 - 400	Pink and grey syenite, low pyrite.
400 - 405	Same as above.
405 - 410	3.3' pink syenite, 0.5 white carbonate, 2.2 pink syenite, low pyrite.
410 - 415	Pink and Grey syenite, low pyrite.
415 - 420	Same as above.
420 - 425	Green syenite, low pyrite.
425 - 430	2' Green syenite, 3' pink and green syenite, low pyrite.
430 - 435	3' green syenite, 0.8" white quartz, 1.2' gray syenite, low pyrite.
435 - 440	3' white and gray syenite, 2' pink and gray syenite, low pyrite.
440 - 450	- Pink and gray syenite, low pyrite.
450 - 455	Same as above.
455 - 460	Andesite syenite, lowpyrite.
460 - 465	Same as above.
465 - 475	Same as above (pink alteration)
475 - 480	Same as above.
480 - 525	Pink and gray syenite, low alteration, low pyrite.
525 - 530	Same as above.
530 - 535	Same as above with some slickensides.
535 - 540	Same as above, low pyrite.
540 - 545	Pink and gray syenite, low pyrite.
545 - 550	Same as above.
	Pink and grey syenite, slickensiding, low pyrite.

<u>DEPTH</u>	<u>DESCRIPTION</u>
550 - 555	Same as above.
555 - 560	1' green carbonate schist, 4' pink and gray syenite, low pyrite.
560 - 565	Syenite, medium pink alteration, low pyrite.
565 - 575	Same as above.
575 - 580	Syenite, pink and gray, low pyrite.
580 - 585	Syenite, pink and gray, low quartz, low pyrite.
585 - 590	Syenite, pink and gray, low pyrite.
590 - 600	Same as above.
600 - 605	Andesite syenite, low pyrite.
605 - 610	Same as above, low chalcopyrite, low pyrite.
610 - 615	2' chlorite andesite schist, 3' andesite syenite, medium chalcopyrite, medium pyrite.
615 - 620	Carbonatized grey syenite, medium chalcopyrite, medium pyrite.
620 - 625	- Carbonatized grey syenite, low pyrite.
625 - 630	Carbonatized grey syenite, very low pyrite.
630 - 635	Carbonatized pink and gray syenite, some slickenside, very low pyrite.
635 - 640	Carbonatized pink syenite, very low pyrite.
640 - 645	Pinkish grey syenite, some slickenside, very low pyrite.
645 - 650	Pink and grey syenite, very low pyrite.
650 - 655	Grey syenite, low pyrite.
655 - 660	Grey syenite, slickenside, low pyrite.
660 - 665	Pink and grey syenite, low pyrite.
665 - 670	Pink syenite, low pyrite.
670 - 675	Pink and grey syenite, low pyrite.
675 - 680	Brick red syenite, some slickenside, low pyrite.
680 - 685	Same as above.
685 - 690	Brick red syenite, some slickensides, low pyrite.
690 - 695	Brick red syenite, low pyrite.
695 - 700	Brick red syenite, some slickensides, low pyrite.
700 - 705	Pink syenite, low pyrite.
705 - 710	Pink syenite some slickensides, low pyrite.
710 - 715	Pink and grey syenite, slickensides, low pyrite.
715 - 720	Pink and grey syenite, slickensides, low pyrite.
720 - 725	Pink and grey syenite, low pyrite.
725 - 730	Brick red syenite, slickenside, medium pyrite.
730 - 735	Pink and grey syenite, low pyrite.
735 - 740	Grey and Pinkish syenite, low pyrite.
740 - 745	Grey and pinkish syenite, low quartz, low carbonate, low pyrite.
745 - 750	Pink and grey syenite, chlorite on partings and slickensides, low pyrite.

<u>DEPTH</u>	<u>DESCRIPTION</u>
750 - 755	Pink and grey syenite, chlorite on parting & slickensides; low pyrite.
755 - 765	Pink and grey syenite, low pyrite.
765 - 770	Pink and grey syenite, chlorite on parting; low pyrite.
770 - 775	Pink and grey syenite, chlorite on parting; slickensides; low quartz; low pyrite.
775 - 780	Brick red syenite, low pyrite.
780 - 785	Same as above.
785 - 790	Grey syenite, 2' high red syenite in middle; low quartz, low pyrite.
790 - 795	Grey syenite, high chlorite, low pyrite.
795 - 800	2.5' grey syenite, 2.5 pink syenite; low to medium pyrite.
800 - 805	See general log, good section.
805 - 850	Same.
850 - 855	Syenite and 6" greenstone; low pyrite.
855 - 860	Greenstone, low red alteration.
850 - 856	Same.
865 - 870	Same, low pyrite.
870 - 890	Same.
890 - 905	Syenite, low pyrite.
895 - 900	Syenite.
900 - 905	Pinkish grey syenite, low pyrite.
905 - 910	Same as above with more low red alteration, low pyrite.
910 - 914.6	Greenstone, very low pyrite.
914.6 - 920	Syenite, medium red alteration, low pyrite.
920 - 925	Same as above.
925 - 930	Pink and grey syenite, very low pyrite.
930 - 935	Same as above with more red alteration, low pyrite.
935 - 940	Pink syenite slickensides, low pyrite.
940 - 945	Same as above.
945 - 950	Pink syenite, very low pyrite.
950 - 955	Pink syenite, low pyrite.
955 - 960	Felsite very low pyrite.

GOLDEN ARROW MINES LIMB D

Lat: 113 plus 20N
 Dep: 128 plus 40E

Hole No. 54
 Sheet No. 1

Dip: 45°; 300-400°; 600- 380°; 800-350°; 1040 - 37°

DEPTHNOTES

0 - 42
 42 - 71.7
 71.7 - 430

CASING.
 DIABASE.
 SYENITE, pink to red
 79.5 - 1" of greenstone; red continues to 113
 150 - 210 UNCUT; all pale pink to grey syenite;
 negative pyrite.
 250 - 270 Chlorite; parting common in medium red
 syenite.
 300 - 305 Medium red; very low pyrite.
 340 - 357 Medium red; very low pyrite.
 357 - 430 Grey to pale pink.
 375 - 375.5 Bright red; medium pyrite.

430 - 430.7
 430.7 - 692

LAMPROPHYRE DIKE
 SYENITE: massive grey
 441 - 450 - Medium red chlorite on partings;
 slickensides.
 450 - 451 Rock becomes pale pink with mafies
 diminished.
 494 - Medium to high red syenite continues.
 From 530 on, increasing quartz to streaky
 red syenite: Samples 4329, 4330, 4331 look good.
 555 - 556.3 Soapstone; breccia with quartz.
 556.3 - 566 Very high quartz.
 566 on, decreasing quartz; pink and grey syenite.
 654.2 - 657 Quartz vein high galena.
 665 - 675 Very high epidote; low pyrite, Chalcopyrite,
 galena, high quartz. Continues to 675.5 then grey
 syenite.
 GREENSTONE?? or very highly chloritized syenite.
 At 693 some slickensides. FAULT??
 690 - 92 medium red; low pyrite.

692 - 693

DEPTHNOTES

693 - 813.5 SYENITE, medium red for 5 feet very low pyrite. Then
grey syenite with short sections medium red.
752 - 772 medium red; low to medium quartz; low
pyrite except 760 - 765, better.
At 762.5 - 763 quartz with high tourmaline; low
pyrite. 783 - 788 medium to low red; low pyrite.

813.5 - 817 EPIDOTIZED SYENITE, medium quartz, medium pyrite.
817 - SYENITE, medium red to 828 then grey; but with
low quartz - very low pyrite.
827 - 828, brick red.

(Logged to 875 - May 14, 1946)

GOLDEN ARROW MINES LIMITED

Hole No. 54
Sheet 1

<u>DEPTH</u>	<u>DESCRIPTION</u>
77 - 80	Pink and grey syenite, low pyrite.
80 - 85	Pink syenite; low pyrite.
85 - 90	Epidotized pink syenite, very low pyrite.
90 - 95	Same.
95 - 100	Pink syenite, low silicification, low pyrite.
100 - 105	Pink syenite.
105 - 110	Pink syenite, very low pyrite.
110 - 115	Same
115 - 120	Pink and grey syenite; very low pyrite.
120 - 125	Coarse pink syenite, very low pyrite.
125 - 130	Coarse pink and grey syenite, very low pyrite.
130 - 135	Same
135 - 140	Same
140 - 145	Same
145 - 150	Same
150 - 210	Epidotized grey syenite
210 - 215	Coarse pinkish syenite; very low pyrite.
215 - 220	Grey syenite, low pyrite.
220 - 225	Same
225 - 230	Same
230 - 235	Grey syenite, very low pyrite.
235 - 240	Pinkish syenite; very low pyrite.
240 - 245	Same
245 - 250	Same
250 - 255	Pink syenite, low pyrite.
255 - 260	Same; low alteration.
260 - 265	Same
265 - 270	Pink and grey syenite, low pyrite.
270 - 275	Same
275 - 280	Same
280 - 285	Same
285 - 290	Same
290 - 295	Same
295 - 300	Same
300 - 305	Pink syenite, low silicification, low pyrite.
305 - 310	Pink syenite, low pyrite.
310 - 315	Same
315 - 320	Same
320 - 325	Same
325 - 330	Same

<u>DEPTH</u>	<u>DESCRIPTION</u>
330 - 335	Pink syenite, low pyrite.
335 - 340	Same
340 - 345	Same
345 - 350	Pink syenite, low red alteration, low pyrite.
350 - 355	Pink syenite, low pyrite.
355 - 360	Same
360 - 365	Same
365 - 370	Grey syenite, low pyrite.
370 - 375	Same
375 - 380	Coarse pinkish syenite, low pyrite.
380 - 385	Same
385 - 390	Same
390 - 395	Same
395 - 400	Pinkish syenite, low pyrite.
400 - 405	Grey syenite, low pyrite.
405 - 410	Coarse grey syenite, low pyrite.
410 - 415	Same
415 - 420	Same
420 - 425	Same
425 - 430	Grey syenite, low pyrite.
430 - 430.8	Lamprophyre, low pyrite.
430.8 - 435	Pinkish grey syenite, low pyrite.
435 - 440	Pinkish grey syenite, low alteration; low pyrite.
440 - 445	Pink and grey syenite, some slickensides, low pyrite.
445 - 450	Pink and grey syenite, low pyrite.
450 - 455	Pinkish grey syenite, medium pyrite.
455 - 460	2' grey syenite, rest red syenite, medium pyrite.
460 - 465	Pinkish grey syenite, some slickensides, low pyrite.
465 - 470	Pink and grey syenite, low quartz, low pyrite.
470 - 475	3' red syenite, rest pink and grey syenite, low pyrite.
475 - 480	Pinkish grey syenite, some slickensides, low pyrite.
480 - 485	Pinkish grey syenite, low quartz, low pyrite.
485 - 490	Same
490 - 495	Pinkish grey syenite, some slickensides, broken up, low pyrite.
495 - 500	Pink syenite, some slickenside, low alteration, low pyrite.
500 - 505	Coarse medium red syenite, low pyrite.
505 - 510	Coarse medium red syenite, some slickenside, low alteration, low pyrite.
510 - 515	Coarse medium red syenite, low alteration, low pyrite.
515 - 520	Same as above, low pyrite.

<u>DEPTH</u>	<u>DESCRIPTION</u>
520 - 525	Coarse medium red syenite, low alteration, low quartz, low pyrite.
525 - 530	Pink syenite, with greenish alteration, low quartz, medium pyrite.
530 - 535	Coarse pink syenite, fairly silicified low quartz, medium pyrite.
535 - 540	Brick red syenite, well silicified, high quartz, medium pyrite.
540 - 545	Same as above, with low quartz, medium pyrite.
545 - 550	Same as above, medium pyrite.
550 - 555	30" brick red syenite rest broken up white quartz with green carbonate; low pyrite.
555 - 560	16" green carbonated schist rest well altered pink syenite, white and blue quartz; medium pyrite.
560 - 565	Pinkish grey syenite high quartz, medium pyrite.
565 - 570	Pink and grey syenite, low quartz stringer, medium pyrite.
570 - 575	Same as above, medium pyrite.
575 - 580	Coarse pink syenite low alteration, low quartz, medium pyrite.
580 - 585	Pink syenite, low quartz, low green alteration, low pyrite.
585 - 590	Medium red syenite, high quartz alteration, medium pyrite.
590 - 595	Pink syenite, low greenish alteration, medium pyrite.
595 - 600	Same as above, low pyrite.
600 - 605	Pink and grey syenite, medium pyrite.
605 - 610	Pink and grey syenite, low quartz, medium pyrite.
610 - 615	Pink and grey syenite, medium pyrite.
615 - 620	Pink and grey syenite, low quartz, low pyrite.
620 - 625	Pink and grey syenite, low quartz stringer, medium pyrite.
625 - 630	Coarse carbonatized pinkish grey syenite, low pyrite.
630 - 635	Same as above, low pyrite.
635 - 640	Coarse pink and grey syenite, low alteration, low pyrite.
640 - 645	Carbonatized pink and grey syenite, low pyrite.
645 - 650	Carbonatized pink syenite, low pyrite.
650 - 655	Carbonatized pinkish syenite, 9" white quartz at end; galena and chalcopryite in quartz rest low pyrite.
655 - 660	22" white quartz, some galena, low green carbonate, rest pink syenite; low pyrite.
660 - 665	Pink syenite, low pyrite.
665 - 670	39" white quartz low green alteration; rest epidotized syenite, low quartz, low pyrite.
670 - 675	10" low quartz rest epidotized syenite; low pyrite.
675 - 680	Grey syenite, low quartz stringer, low pyrite.
680 - 685	Pinkish and grey syenite, low quartz stringer, low pyrite.

<u>DEPTH</u>	<u>DESCRIPTION</u>
685 - 690	Same as above, no quartz; low pyrite.
690 - 695	Pink and grey syenite; low pyrite.
695 - 700	Pink syenite, low pyrite.
700 - 705	Pink syenite, low pyrite.
705 - 710	Pinkish grey syenite, low pyrite.
710 - 715	Same as above, low pyrite.
715 - 720	Pinkish grey syenite, low pyrite.
720 - 725	Same as above, low pyrite.
725 - 730	Grey syenite, low pyrite.
730 - 735	Same as above, low pyrite.
735 - 740	Grey syenite, low pyrite.
740 - 745	Same.
745 - 750	Grey syenite, low pyrite.
750 - 755	Grey and pink syenite, low pyrite.
755 - 760	Medium pink syenite, slickensides, medium pyrite.
765 - 770	Medium red syenite, medium pyrite.
770 - 775	Same as above.
775 - 780	Carbonated pink and grey syenite, slickensides, low pyrite.
780 - 785	Pink and grey syenite, slickenside, low pyrite.
785 - 790	Same
790 - 795	Same
795 - 800	Same
800 - 805	Carbonated pink and grey syenite; fairly mineralized.
805 - 810	Same as above.
810 - 815	43" Same as above, rest epidotic schist with low quartz, low pyrite.
815 - 820	26" epidotized syenite, rest pink and grey syenite, low pyrite.
820 - 825	Medium red syenite, low pyrite.
825 - 830	Pink and grey syenite, slickensides, low pyrite.
830 - 835	Pink and grey syenite, low pyrite.
835 - 840	Pink and grey syenite, low quartz, low pyrite.
840 - 845	Pink and grey syenite, low pyrite.
845 - 850	Same as above, low pyrite.
850 - 855	Carbonated pink syenite, low quartz, medium pyrite.
855 - 860	Same as above, slickensides.
860 - 865	Pink and grey syenite, low pyrite.
865 - 870	Same
870 - 875	Same

DEPTHDESCRIPTION

875 - 887	SYENITE, pink and grey, low pyrite, low red alteration.
887 - 896	FELSITE - brown, low pyrite.
896 - 1040	SYENITE, pink and grey, low pyrite.
	902.4 - low molybdenite?
	911.9 - 912.4 Quartz stringer cuts core at acute angle.
	932.4 - 932.8 Same as above.
	950 - 955 Not split.
	965 - 970 Medium to high red alteration. Syenite viggy in spots, medium pyrite in spots.
	985 - 990 Medium red alteration, medium pyrite, low chalcopyrite some molybdenite and 986.5.
	1000 - 1025 Pink and grey syenite, negative pyrite.
	1025 - 1040 Same as above - low quartz, short sections of red felsite.

END OF HOLE

<u>DEPTH</u>	<u>DESCRIPTION</u>
875 - 880	SYENITE, pink and grey, low pyrite.
880 - 885	Same as above.
885 - 888.2	SYENITE, 12" felsite, low pyrite.
888.2 - 891	UNCUT, felsite, No mineral.
891 - 895	FELSITE, low pyrite.
895 - 900	10" felsite, rest pink and grey syenite, low pyrite.
900 - 905	Pink and grey syenite, low pyrite.
905 - 910	Pink and grey syenite, low red alteration, low pyrite.
910 - 915	Same as above, with low quartz, low pyrite.
915 - 920	Pink and grey syenite, low red alteration, low pyrite.
920 - 925	Pink and grey syenite, low pyrite.
925 - 930	Coarse pink and grey syenite, low pyrite.
930 - 935	Same as above, low quartz, low pyrite.
935 - 940	Coarse pink and grey syenite, low pyrite.
940 - 945	Same as above slickensides.
945 - 950	Same as above slickensides.
955 - 960	Pink and grey syenite, very low pyrite.
960 - 965	Pink and grey syenite, low red alteration at end, low pyrite.
965 - 970	Brick red syenite, medium pyrite.
970 - 975	Pink and grey syenite, low pyrite.
975 - 980	Grey syenite, low red alteration, slickensides.
980 - 985	Same as above.
985 - 990	Coarse pink and grey syenite, low alteration, low pyrite.
990 - 995	Pink and grey syenite, low pyrite.
995 - 1005	Same as above.
1005 - 1010	Grey syenite, low pyrite.
1010 - 1025	Same as above.
1025 - 1040	Grey syenite, uncut, very low pyrite.

NORTH W. E. S.

32'
D1762
52'

500' FAULT

Point to Red S1

Point to Red S1

Plane Fault?

Syncline

GOLDEN ARROW
DDH # 54
1 in = 100 ft.

GOLD. ARROW MINES LIMITED

Hole No. 55

Dip: - 45°; 300-42°; 632 - 39°

Sheet No. 1

Ultimate depth - 633.2ft.

DEPTHNOTES0 - 25
25 - 624

CASING

SYENITE, coarse grained grey with short sections
brick red or pink. Low pyrite.
47 - 47.5 FELSITE or APLITE.
52 - 52.5 FELSITE or Aplite.
red, sugary, low pyrite.
140 - 144 Brick red, very low pyrite.
171.5 - 177 Brick red syenite, low to
medium pyrite.
207.5 - CHALCOPYRITE splash in quartz.
208.5 - 210 EPIDOTIZED SYENITE with medium
quartz, low pyrite.
210 - 224 numerous sections brick red, low
pyrite throughout.
238 - 239 Lamprophyre?
248 - 249 LAMPORPHYRE (minette) Biotite &
feldspar, etc.
289.2 - Chlorite & quartz, slickensides.
320 - 325 High quartz, streaky red alteration
medium pyrite.
340 - 345 Green altered wyeinite, epidote,
serpentine & quartz, negative
pyrite.
358 - 372 Medium to high red alteration,
low pyrite.
377.5 - 379 In sample #4720 brick red
alteration, high shiny pyrite.
396 - 397.5 Brick red alteration, high
quartz, high pyrite.
463 - 476.5 Brick red alteration, high
quartz, medium pyrite.
476.5 - 495 Medium to high red alteration,
high quartz, medium pyrite.
557 - 558 Rotten, vuggy, rock high carbonate,
low pyrite.
600 - 624 Streaky low red alteration, high
quartz, negative pyrite.

DEPTH

NOTES

624 - 633.2

DIABASE

633.2 END OF HOLE - May 23rd. 1946.

GOLDEN . . . ROW MINES LIMITED

Hole No. 55
Sheet No. 1

Dip - 45°

May 9th, 1946.

DEPTHNOTES

250 - 255	Pink & grey syenite, low pyrite.
255 - 260	" " " " " "
260 - 265	Same as above, with low quartz, low pyrite.
265 - 270	Pink & grey syenite, low pyrite.
270 - 275	Same as above, slickensides, low pyrite.
275 - 280	Pink & grey syenite, low pyrite.
280 - 285	Same as above.
285 - 290	Same as above.
290 - 295	Same as above.
295 - 300	Pink & grey syenite, slickensides, low pyrite.
300 - 305	Pink & grey syenite, low pyrite.
305 - 310	Same as above slickensides, low pyrite.
310 - 315	Pink & grey syenite, low quartz, brick red alteration at end, low pyrite.
315 - 320	Pink & grey syenite, brick red alteration, medium pyrite.
320 - 325	Well altered brick red syenite, medium quartz, medium pyrite.
325 - 330	Pink & grey syenite, red alteration, medium pyrite.
330 - 335	Pink & grey syenite, low alteration, medium pyrite.
335 - 340	Same as above, with low red alteration, low pyrite.
340 - 345	12" Pink & grey, rest all green syenite, low pyrite.
345 - 350	Green syenite, low red alteration, low quartz, low pyrite.
350 - 355	Pink & grey syenite, low alteration, medium pyrite.
355 - 360	Same as above, medium pyrite.
360 - 365	Pink syenite, low to medium brick red syenite, medium pyrite.
365 - 370	Same as above.
370 - 375	Pink & grey syenite, low pyrite.
375 - 380	Pink & brick red syenite, medium pyrite.
380 - 385	Pink & grey syenite, low alteration, medium pyrite.

<u>DEPTH</u>	<u>NOTES</u>
385 - 390	Pink & grey syenite, medium pyrite.
390 - 395	Same as above.
395 - 400	Same as above.
400 - 405	Pink & grey syenite, low quartz, low pyrite.
405 - 410	Pink syenite, brick red alteration, low to medium pyrite.
410-415	Same as above, with low quartz, medium pyrite.
415 - 420	Pink & grey syenite, low pyrite.
420 - 425	Same as above, slickensides, low pyrite.
425 - 430	Pink & grey syenite, brick red alteration, low pyrite.
430 - 435	Same as above, with slickensides, low pyrite.
435 - 440	Pink & grey syenite, low pyrite.
440 - 445	Same as above.
445 - 450	Same as above.
450 - 455	Same as above.
455 - 460	Same as above, with slickensides.
460 - 465	Pink & grey syenite, brick red alteration, medium pyrite.
465 - 470	Brick red syenite - 8" white & blue quartz, fairly mineralized.
470 - 476.7	Brick red syenite, fairly mineralized.

<u>DEPTH</u>	<u>NOTES</u>
50 - 55	Pink & grey syenite, very low pyrite.
55 - 60	Grey syenite, very low pyrite.
60 - 65	Same as above.
65 - 70	Coarse pink and grey syenite.
72 - 73.7	Same as above with low quartz, low pyrite.
70 - 72-73; 7-75	Same as above with low quartz, low pyrite.
75 - 80	Pink and grey syenite, low quartz stringer, low pyrite.
80 - 85	Same as above.
85 - 90	Grey syenite, low pyrite.
90 - 95	Same as above.
95 - 100	Same as above.
100 - 105	Coarse pink & grey syenite, very low pyrite.
105 - 110	Pink and grey syenite, slickenside, low pyrite.
110 - 115	Same as above, some slickensides, low pyrite.
115 - 120	Pink and grey syenite, low red alteration, low pyrite.
120 - 125	Pink and grey syenite, low pyrite.
125 - 130	Pink and grey syenite, very low pyrite.
130 - 135	Same as above.
135 - 140	Same as above.
140 - 145	Medium to brick red syenite, medium pyrite.
145 - 150	Same as above, very low pyrite.
150 - 155	Pink and grey syenite, low pyrite.
155 - 160	Same as above, slickensides.
160 - 165	Same as above.
165 - 170	Pink and grey syenite, low quartz, low pyrite.
170 - 175	Brick red and grey syenite, fairly mineralized.
175 - 180	Brick red and pink syenite, medium pyrite.
180 - 185	Pink and grey syenite, low quartz, low pyrite.
185 - 190	Pink and grey syenite, low pyrite.
190 - 195	Same as above, slickensides.

DEPTHNOTES

195 - 200	Same as above.
200 - 205	Pink and grey syenite, low pyrite.
205 - 210	Carbonate pink and grey syenite, low pyrite.
210 - 215	Well altered brick red syenite, medium pyrite.
215 - 220	Same as above.
220 - 225	Pink syenite, low quartz, low pyrite.
225 - 230	Pink and grey syenite, low pyrite.
230 - 235	Pink and grey syenite, low quartz, low pyrite.
235 - 240	Pink and grey syenite 15" greenstone, low pyrite.
240 - 245	Pink and grey syenite, low pyrite.
245 - 250	Pink and grey syenite, 17" altered Gabbro dike, low pyrite.

DDH 55

133.2

GOLDEN ARROWS.
DDH No. 55.
1 in. = 100 ft.

GOLDEN ARROW

Hole No. 56
Sheet No. 1

DIAMOND DRILL RECORD

(250' S. of camp)

Started;- June
Completed:- June
Ultimate Depth:- 728 feet

Dip:- 45⁰, 300-40⁰, 728 - 39⁰

<u>DEPTH FEET</u>	<u>FORMATION</u>	<u>SAMPLE NO.</u>	<u>WIDTH OF SAMPLE</u>	<u>GOLD</u>
0 - 100	CASING			
100 - 433	SYENITE-, massive, low pink, low pyrite 128 - 130 medium pink, quartz with low to medium fine pyrite, remainder grey syenite, low to negative pyrite. WATERWORN PEBBLES, 176.5 to 177.0 Adjacent syenite has low to medium pyrite, medium pink to red 221 - 233 MEDIUM RED Syenite low fine pyrite. At 223.5 1/16 carries galena 247 - 249 ruggy quartz with carbonate, syenite fractured, with seams quartz, low pyrite			
	200 - 225	5275	5'	
	245 - 250	5280	5'	
	270 - 275	5285	5'	
	295 - 300	5290	5'	
	307 - 309 medium quartz, medium pink, low pyrite	5291		
	370 - 375 Grey syenite	5305	5'	
	395 - 400 Grey syenite	5310	5'	
433 - 482	SYENITE, altered, pink streaks, well fract- ured, with seams pyrite, quartz, pink car- bonate and low disseminated pyrite. From 455 to 482 strong alteration to High brick Red in sections, with medium dissemi- nated pyrite, rather coarse			
	455 - 460	5322	5'	
	460 - 465	5323	5'	
	465 - 470	5324	5'	
	470 - 475	5325	5'	
	x 475 - 480	5326	5'	
	480 - 485	5327	5'	

GOLDEN ARROW

DIAMOND DRILL RECORD

Hole No. 56
Sheet No. 2

<u>DEPTH FEET</u>	<u>FORMATION</u>	<u>SAMPLE NO.</u>	<u>WIDTH OF SAMPLE</u>	<u>GOLD</u>
482 - 645	SYENITE, grey, with some short altered sections at beginning.			
645 - 654	587 - 588, Fault? core in small pieces, medded, with some alteration and chlorite SYENITE, strongly altered and fractured, medium to high quartz and silicification, medium disseminated pyrite.			
	645 - 650	5410	5'	
	650 - 655	5411	5'	
654 - 728	SYENITE, coarse, grey.			
	<u>BOTTOM OF HOLE, 728 feet</u>			

GOLDEN ARROW MINES LIMITED

Hole No. 56
 Sheet No. 1
 June 7, 1946.

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
0 - 100	CASING		
100 - 105	Pink & grey syenite, low pyrite.	5251	5'
105 - 110	Same as above.	5252	5'
110 - 115	Same as above with some green alteration.	5253	5'
115 - 120	Grey & brick red syenite, low pyrite.	5254	5'
120 - 125	Pink & grey syenite, low pyrite.	5255	5'
125 - 130	Grey & pink syenite, low pyrite.	5256	5'
130 - 135	Same as above.	5257	5'
135 - 140	Grey syenite, low pyrite.	5258	5'
140 - 145	Same as above.	5259	5'
145 - 150	Same as above.	5260	5'
150 - 155	Grey & pink syenite, very low pyrite.	5261	5'
155 - 160	Grey & brick red syenite, low pyrite.	5262	5'
160 - 165	Grey syenite, very low pyrite.	5263	5'
165 - 170	Grey & pink syenite, low pyrite.	5264	5'
170 - 175	Same as above.	5265	5'
175 - 180	Pink brick red & grey syenite, low pyrite.	5266	5'
180 - 185	Grey syenite with brick red alteration some pyrite.	5267	5'
185 - 190	Grey syenite, low pyrite.	5268	5'
190 - 195	Grey syenite, with some red alteration low pyrite.	5269	5'
195 - 200	Same as above.	5270	5'
200 - 205	Grey & pink syenite, low pyrite.	5271	5'
205 - 210	Grey syenite, low pyrite.	5272	5'
210 - 215	Same as above.	5273	5'
215 - 220	Same as above.	5274	5'
220 - 225	Pink & grey syenite, low pyrite.	5275	5'
225 - 230	Pink & grey syenite, low pyrite.	5276	5'
230 - 235	Brick red & grey syenite, some pyrite.	5277	5'
235 - 240	Same as above.	5278	5'
240 - 245	Grey syenite, low pyrite.	5279	5'
245 - 250	Pink & grey syenite, low pyrite.	5280	5'
250 - 255	Grey syenite, low pyrite.	5281	5'
255 - 260	Grey & pink syenite, low pyrite.	5282	5'
260 - 265	Grey syenite, low pyrite.	5283	5'
265 - 270	Grey syenite, low pyrite.	5284	5'

GOLDEN ARROW MINES LIMITED

Hole No. 56
 Sheet No. 2
 June 7, 1946.

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
270 - 275	Same as above.	5285	5'
275 - 280	Pink & grey syenite, low pyrite.	5286	5'
280 - 285	Grey & brick red syenite, low pyrite.	5287	5'
285 - 290	Grey syenite, low pyrite.	5288	5'
290 - 295	Pink syenite, low pyrite.	5289	5'
295 - 300	Pink & grey syenite, low pyrite.	5290	5'
300 - 305	Pink & grey syenite, low pyrite.	5291	5'
305 - 310	Same as above.	5292	5'
310 - 315	Grey syenite, low pyrite.	5293	5'
315 - 320	Same as above.	5294	5'
320 - 325	Same as above.	5295	5'
325 - 330	Grey syenite, low pyrite.	5296	5'
330 - 335	Same as above.	5297	5'
335 - 340	Same as above.	5298	5'
340 - 345	Same as above.	5299	5'
345 - 350	Same as above.	5300	5'
350 - 355	Grey syenite, very low pyrite.	5301	5'
355 - 360	Same as above.	5302	5'
360 - 365	Same as above.	5303	5'
365 - 370	Same as above.	5304	5'
370 - 375	Same as above.	5305	5'
375 - 380	Grey syenite, low pyrite.	5306	5'
380 - 385	Pink & grey syenite, very low pyrite.	5307	5'
385 - 390	Same as above.	5308	5'
390 - 395	Same as above.	5309	5'
395 - 400	Same as above.	5310	5'
400 - 405	Pink & grey syenite, low pyrite.	5311	5'
405 - 410	Pink & grey syenite, low pyrite.	5312	5'
410 - 415	Grey syenite, low pyrite.	5313	5'
415 - 420	Same as above.	5314	5'
420 - 425	Same as above.	5315	5'
425 - 430	Grey & pink syenite, low pyrite.	5316	5'
430 - 435	Grey & pink syenite, low pyrite.	5317	5'
435 - 440	Brick red and pink syenite, some pyrite.	5318	5'
440 - 445	Same as above.	5319	5'
445 - 450	Same as above.	5320	5'
450 - 455	Brick red & grey syenite, medium pyrite.	5321	5'
455 - 460	Brick red & pink syenite, medium pyrite.	5322	5'

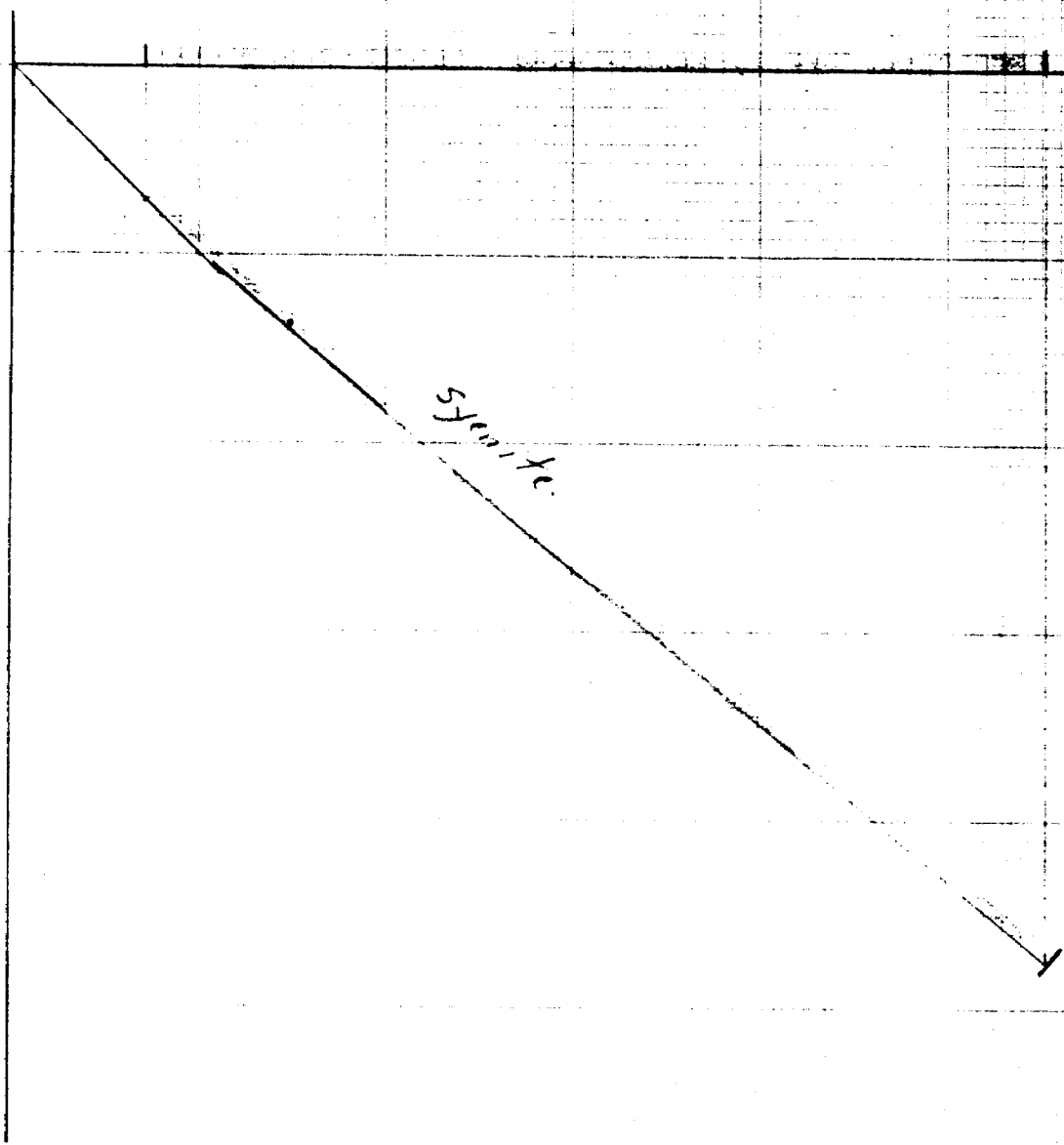
<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
460 - 465	Same as above.	5323	5'
465 - 470	Same as above.	5324	5'
470 - 475	Pink syenite, medium pyrite.	5325	5'
475 - 480	Pink & brick red syenite, some pyrite.	5326	5'
480 - 485	Pink & grey syenite, some pyrite.	5327	5'
485 - 490	Pink & grey syenite, low pyrite.	5328	5'
490 - 495	Grey & pink syenite, low pyrite.	5329	5'
495 - 500	Grey syenite, very low pyrite.	5330	5'
500 - 505	Grey syenite, low pyrite.	5331	5'
505 - 510	Grey syenite, low quartz, low pyrite.	5332	5'
510 - 515	Pink & grey syenite, low pyrite.	5333	5'
515 - 520	Same as above.	5334	5'
520 - 525	Grey syenite, low pyrite.	5335	5'
525 - 530	Pink, grey & brick red syenite, low pyrite.	5336	5'
530 - 535	Grey & pink syenite, low pyrite.	5337	5'
535 - 540	Grey syenite, low pyrite.	5338	5'
540 - 545	Same as above.	5339	5'
545 - 550	Same as above.	5340	5'
550 - 555	Grey syenite, low pyrite.	5341	5'
555 - 560	Same as above.	5342	5'
560 - 565	Pink & grey syenite, low pyrite.	5343	5'
565 - 570	Grey syenite, low pyrite.	5344	5'
570 - 575	Same as above.	5345	5'
575 - 580	Pink & grey syenite, low pyrite.	5346	5'
580 - 585	Grey syenite, low pyrite.	5347	5'
585 - 590	Same as above.	5348	5'
590 - 595	Same as above.	5349	5'
595 - 600	Pink & grey syenite, low pyrite.	5350	5'
600 - 605	Pink & grey syenite, low pyrite.	5351	5'
605 - 610	Grey syenite, low pyrite.	5402	5'
610 - 615	Grey & pink syenite, low pyrite.	5403	5'
615 - 620	Same as above.	5404	5'
620 - 625	Same as above.	5405	5'
625 - 630	Pink & grey syenite, low pyrite.	5406	5'
630 - 635	Same as above.	5407	5'
635 - 640	Same as above.	5408	5'
640 - 645	Same as above with 6" quartz	5409	5'
645 - 650	Some grey and brick red syenite, with low quartz, medium pyrite.	5410	5'

OLDEN A. OW MINES LIMITED

Hole No. 56
 Sheet No. 4
 June, 1946

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
650 - 655	Pink & grey syenite, some pyrite.	5411	5'
655 - 660	Grey syenite, low pyrite.	5412	5'
660 - 665	Grey & pink syenite, low pyrite, quartz stringer	5413	5'
665 - 670	Grey syenite, low pyrite.	5414	5'
670 - 675	Same as above.	5415	5'
675 - 680	Grey syenite, low pyrite.	5416	5'
680 - 685	Same as above.	5417	5'
685 - 690	Same as above.	5418	5'
690 - 695	Same as above.	5419	5'
695 - 700	Same as above.	5420	5'
700 - 705	Grey syenite, low pyrite.	5421	5'
705 - 710	Grey & pink syenite, low pyrite.	5422	5'
710 - 715	Same as above.	5423	5'
715 - 720	Grey syenite, low pyrite.	5424	5'
720 - 725	Same as above.	5425	5'
725 - 727.9	Pink & grey syenite, low pyrite.	5426	33"

DDH 56.



GOLDEN ARROW.

DDH N° 56.

1 in. = 100 Ft.

GOLDEN ARROW

Hole No. 57

Sheet No. 1

DIAMOND DRILL RECORD

Ultimate Depth - 592'

(near 55)
DIP;- 45°

<u>DEPTH FEET</u>	<u>FORMATION</u>	<u>SAMPLE NO.</u>	<u>WIDTH OF SAMPLE</u>	<u>GOLD</u>
0 - 31	CASING			
31 - 51	SYENITE, grey, coarse. At 34.5-34.7, LAMPROPHYRE dyke			
51 - 72	SYENITE, medium red alteration, low pyrite			
72 - 99.7	SYENITE, grey massive			
99.7-101	LAMPROPHYRE, hornblende, massive with chilled margins			
101 - 300	SYENITE, coarse, massive, grey			
	145.5 - 147 QUARTZ, neg. pyrite	5191	5'	
	230 - 235, 231 to 231.5 brick red, then quartz in slickensided syenite to 234. Medium pyrite in brick red.			
300 - 317	SYENITE, ALTERED, in part to dense grey green rock, in part to brick red with high quartz, low to medium disseminated pyrite, epidote			
	300 - 305	5205	5'	
	305 - 310	5206	5'	
	310 - 315	5207	5'	
	315 - 320	5208		
317 - 329	SYENITE, altered zone continues at least to 325 but less intense			
329 - 400	SYENITE, ALTERED to high brick red			
	330 - 335 Medium pyrite, high brick	5211	5'	
	335 - 340 AS Above	5212	5'	
	340 - 345 AS Above	5213	5'	
	345 - 350 High quartz	5214	5'	
	350 - 355 High quartz	5215	5'	
	355 - 360 Medium quartz, low alteration	5216	5'	
	360 - 365 Short sections high alteration	5217	5'	
	365 - 370 AS Above	5218	5'	
	370 - 375 High brick with quartz	5219	5'	
	372 - 374, medium to low pyrite in syenite			
	375 - 380 High brick, low pyrite. <u>NOTE</u> RUSTY SECTIONS	5220		

DIAMOND DRILL RECORD

<u>DEPTH FEET</u>	<u>FORMATION</u>	<u>SAMPLE NO.</u>	<u>WIDTH OF SAMPLE</u>	<u>GOLD</u>
	380 - 385 As Above Rock continues a remarkable brick red to 406 with strongly <u>RUSTED</u> fractures through out. Samples to 5226 in this zone.			
406 - 493	SYENITE, grey massive, coarse with rare rusted fractures.			
493 - 500	SYENITE, sheared, altered pink and sili- cified, with quartz, carbonate, epidote, but low pyrite.			
500 - 592	SYENITE, grey to pink, low pyrite.			
	495 - 500	5244	5'	
	BOTTOM OF HOLE, 592 feet			

(N.B.) No Diabase

GOLDEN ARROW MINES LIMITED

Hole No. 57
 Sheet No. 3
 June 1st, 1946

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
350 - 355	Pink syenite, grey syenite, with some quartz medium pyrite.		
355 - 360	Grey & pink syenite, some pyrite.	5215	5'
360 - 365	Brick red pink & grey syenite, some pyrite.	5216	5'
365 - 370	Pink & brick red syenite, some pyrite.	5217	5'
370 - 375	From 370' to 372' brick red syenite, medium pyrite. From 372' to 373' 8" quartz, low mineral rest brick red syenite some pyrite.	5218	5'
375 - 380	Rusty red syenite, low pyrite.	5219	5'
380 - 385	Rusty pink and brick red syenite, low pyrite.	5220	5'
385 - 390	Rusty brick red syenite, very low pyrite.	5221	5'
390 - 395	Same as above.	5222	5'
395 - 400	Rusty brick red syenite, very low pyrite.	5223	5'
400 - 405	Rusty brick red syenite, very low pyrite.	5224	5'
405 - 410	7" rusty brick red syenite, rest grey syenite very low pyrite.	5225	5'
410 - 415	Rusty grey syenite, very low pyrite.	5226	5'
415 - 420	Same as above.	5227	5'
420 - 425	Grey and some brick red syenite, with rust, very low pyrite.	5228	5'
425 - 430	Pink & grey syenite, very low mineral.	5229	5'
430 - 435	Same as above.	5230	5'
435 - 440	Same as above.	5231	5'
440 - 445	Same as above.	5232	5'
445 - 450	Same as above.	5233	5'
450 - 455	Grey syenite, very low pyrite.	5234	5'
455 - 460	Pink & grey syenite, very low pyrite.	5235	5'
460 - 465	Same as above.	5236	5'
465 - 470	Same as above.	5237	5'
470 - 475	Same as above.	5238	5'
475 - 480	Pink & grey syenite, very low pyrite.	5239	5'
		5240	5'

GOLDFIELD ARROW MINES LIMIT

Hole No. 57
 Sheet No. 2
 June 1st, 1946

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
190 - 195	Same as above.	5183	5'
195 - 200	Same as above.	5184	5'
200 - 205	Pink & grey syenite, low pyrite.	5185	5'
205 - 210	Same as above.	5186	5'
210 - 215	Same as above.	5187	5'
215 - 220	Same as above.	5188	5'
220 - 225	Same as above.	5189	5'
225 - 230	Grey syenite, low pyrite.	5190	5'
230 - 235	Brick red & grey syenite with 6" quartz, low pyrite.		
235 - 240	Grey syenite, low pyrite.	5191	5'
240 - 245	Same as above.	5192	5'
245 - 250	Same as above.	5193	5'
250 - 255	Grey syenite, low pyrite.	5194	5'
255 - 260	Pink & grey syenite, low pyrite.	5195	5'
260 - 265	Same as above.	5196	5'
265 - 270	Same as above.	5197	5'
270 - 275	Same as above.	5198	5'
275 - 280	Pink & grey syenite, low pyrite.	5199	5'
280 - 285	Pink & grey syenite with 6" quartz, some pyrite.	5200	5'
285 - 290	Brick red & pink syenite, low pyrite.	5201	5'
290 - 295	Grey & pink syenite, low pyrite.	5202	5'
295 - 300	Pink & grey syenite, low pyrite.	5203	5'
300 - 305	Brick red syenite, some pyrite.	5204	5'
305 - 310	Brick red & pink syenite with some green alteration, some pyrite.	5205	5'
310 - 315	Pink & light colored syenite, some green alteration, some pyrite.	5206	5'
315 - 320	Brick red & grey syenite, some green alteration some pyrite.	5207	5'
320 - 325	Grey syenite, low pyrite.	5208	5'
325 - 330	Pink & Grey syenite, some pyrite.	5209	5'
330 - 335	Brick red syenite, medium pyrite.	5210	5'
335 - 340	Brick red & pink syenite, medium pyrite.	5211	5'
340 - 345	Pink & grey syenite, medium pyrite.	5212	5'
345 - 350	Grey & brick red syenite, some quartz, medium pyrite.	5213	5'
		5214	4'

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
0 - 31	CASING.	5151	4'
31 - 35	Grey and pink syenite with 4" diorite. Low pyrite.	5151	4'
35 - 40	Pink and grey syenite, low pyrite.	5152	5'
40 - 45	Same as above.	5153	5'
45 - 50	Same as above.	5154	5'
50 - 55	Pink syenite, low pyrite.	5155	5'
55 - 60	Pink & Brick red syenite, low pyrite.	5156	5'
60 - 65	Brick red and grey syenite, low pyrite.	5157	5'
65 - 70	Pink & brick red syenite, low pyrite.	5158	5'
70 - 75	Pink syenite with some red alteration 3" diorite, low pyrite.	5159	5'
75 - 80	Pink & grey syenite, low pyrite.	5160	5'
80 - 85	Same as above.	5161	5'
85 - 90	Same as above.	5162	5'
90 - 95	Same as above.	5163	5'
95 - 100	Same as above with last 2" diorite.	5164	5'
100 - 105	First 10" diorite rest pink syenite, low pyrite.	5165	5'
105 - 110	Same as above.	5166	5'
110 - 115	Same as above.	5167	5'
115 - 120	Same as above.	5168	5'
120 - 125	Same as above.	5169	5'
125 - 130	Pink syenite, low pyrite.	5170	5'
130 - 135	Pink syenite, low pyrite.	5171	5'
135 - 140	Pink syenite, some red alteration, low pyrite.	5172	5'
140 - 145	Grey syenite, low pyrite.	5173	5'
145 - 150	First 11" grey syenite, then 10" quartz, rest pink syenite, low pyrite.	5174	5'
150 - 155	Pink syenite, low pyrite.	5175	5'
155 - 160	Same as above.	5176	5'
160 - 165	Same as above.	5177	5'
165 - 170	Same as above.	5178	5'
170 - 175	Same as above.	5179	5'
175 - 180	Pink syenite, low pyrite.	5180	5'
180 - 185	Same as above.	5181	5'
185 - 190	Same as above.	5182	5'

JLDEN A. JW MINES LIMITED

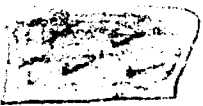
Hole No. 57
 Sheet No. 4
 June 1st, 1946

<u>DEPTH</u>	<u>NOTES</u>	<u>SAMPLE NO.</u>	<u>WIDTH</u>
480 - 485	Same as above.	5241	5'
485 - 490	Same as above.	5242	5'
490 - 495	Grey syenite, very low pyrite.	5243	5'
495 - 500	From 495 - 497.5 greatly altered material with some broken up quartz rest light grey syenite low mineral.		
500 - 505	Pink & grey syenite, low pyrite.	5244	5'
505 - 510	Same as above.	5245	5'
510 - 515	Same as above.	5246	5'
515 - 520	Same as above.	5247	5'
520 - 525	Same as above.	5248	5'
525 - 530	Pink & grey syenite, low pyrite.	5249	5'
530 - 535	Pink syenite, low pyrite.	5250	5'
535 - 540	Grey & pink syenite, low pyrite.	5351	5'
540 - 545	Same as above.	5352	5'
545 - 550	Same as above.	5353	5'
550 - 555	Pink and grey syenite, low pyrite.	5354	5'
555 - 560	Same as above.	5355	5'
560 - 565	Same as above.	5356	5'
565 - 570	Same as above.	5357	5'
570 - 575	Same as above.	5358	5'
		5359	5'

C

Wind Zone

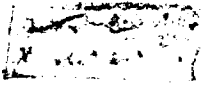
01					1
02					2
03					3
04			31		4
05	11 (lag)	21	30		5
06	2 (lag)	22	31	40	
	13	23	33	43	
	14 (lag)	24	34	47	8 (lag)
	15	25	35	47	9
	16	26	36	47	10
	17	27 (lag)	37	47	
	18	28 (lag)	38	47	
	19	21	31	47	
	20				



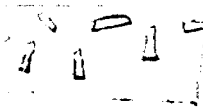
1. 1. 1.



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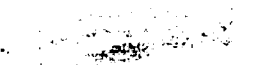
Dec. 13 1892



years



full



On 1/1/92

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GOLDEN ARROW PROPERTY (Erie Canadian Mines Ltd.)

NOTE:

The rock called diorite in these logs is probably merely the relatively coarser centre and lower parts of a fairly thick lava flow and not an intrusive rock. However, it is called "diorite" here to differentiate it from the definite flow rocks called greenstone which are probably andesite and basalts. A definite contact is traceable on surface.

All co-ordinates are referred to the northwest corner of the shaft -- outside timbers as N 1000.00 - E 1000.00. Azimuth is determined from the west claim boundary.

All values are in dwts.

14-1

1-1

DIAMOND DRILL RECORD

Hole No. 1 Sheet No. 1

Property GOLDEN ARROW PROPERTY (429) Hislop Twp.
 Location Erie Canadian Mines Ltd.

0° Dip 30°

Total Footage 154.3

Elev. Collar _____
 Datum _____
 Date Started August 28, 1937
 Date Completed August 31, 1937
 Drilled by Heath & Sherwood
 Logged by G. L. Holbrooke

Latitude _____
 Departure N 1051.3 E. 1003.0
 Bearing S 20° 30' E

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
0.0	10.0	Casing/						
10.0	12.3	Diorite - weak pyrite.						
12.3	12.6	Lost core.	C70413	10 - 20	5.2	Trace	Trace	
12.6	15.2	Diorite - weak pyrite.						
15.2	17.7	Diorite - fine-grained - medium pyrite.	C70401		2.5	Trace		
17.7	20.7	Diorite - weak pyrite.	02		3.0	0.40		
20.7	21.9	Diorite - medium pyrite.	03		1.2	Trace		
21.9	27.0	Diorite - weak to medium pyrite - 0.1 quartz at 25.7	04	20 - 30	5.1	0.40	Trace	
27.0	30.9	Diorite - medium-grained - weak to medium mineralization - occasional quartz streaks.	05		3.9	Trace		
30.9	31.2	Quartz - no mineralization.						
31.2	32.5	Diorite - medium-grained - no mineralization.						
32.5	32.7	Quartz - no mineralization	C70406	30 - 40	1.8	Trace	Trace	
32.7	34.7	Diorite - medium to coarse-grained - weak to medium pyrite.	07		2.0	Trace		
34.7	37.2	Diorite - fine to medium-grained - medium pyrite.	08		2.5	Trace		
37.2	38.7	Diorite - sheared 75° - medium to strong pyrite.	09		1.5	Trace		
38.7	43.7	Diorite - medium-grained - weak to medium pyrite - occasional quartz streaks.	10		5.0	Trace		
43.7	45.0	Diorite - medium-grained - weak to medium pyrite.	11		1.3	Trace		
45.0	48.0	Diorite - medium-grained - medium pyrite - aplite streaks.	12	40 - 50	3.0	Trace	Trace	
48.0	53.0	Diorite - medium-grained - weak to medium pyrite.	14		5.0	Trace		
53.0	58.0	Diorite - medium-grained - reddish aplite streaks - weak to medium pyrite.	15		5.0	3.60		
58.0	61.0	Diorite - medium-grained - reddish aplite streaks - medium to strong pyrite.	16	50 - 60	3.0	8.80	3.60	
61.0	62.0	Strong shear 70°						

Date of Examination _____

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DIAMOND DRILL RECORD

Hole No. 1 Sheet No. 2

Property GOLDEN ARROW PROPERTY (429) Hislop Twp.
 Location Erie Canadian Mines Ltd.

 Latitude
 Departure
 Bearing

Dip

Total Footage 154.5

Elev. Collar
 Datum
 Date Started
 Date Completed
 Drilled by
 Logged by

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
62.0	66.0	Diorite - medium-grained - occasional aplite streaks - weak to medium pyrite.	C70417					
66.0	70.2	Diorite - medium-grained - occasional aplite streaks - weak to medium pyrite.	18	60 - 70	5.0	1.20	2.40	
70.2	71.2	Diorite - fine-grained - aplite streaks - medium to strong pyrite.	19		4.2	2.40		
71.2	76.2	Diorite - fine-grained - occasional reddish aplite streaks - medium pyrite.	20	70 - 80	1.0	0.40		
76.2	80.0	Diorite - fine-grained - occasional reddish aplite streaks - medium pyrite.	21		5.0	Trace	0.80	
80.0	80.5	Quartz.			3.8	Trace		
80.5	81.0	Diorite - fine-grained - occasional aplite streaks - weak to medium pyrite.	22					
81.0	83.2	Diorite - fine-grained - aplite streaks - strong pyrite.	23		1.0	0.80		
83.2	86.0	Diorite - fine-grained - weak pyrite.	24	80 - 90	2.2	1.60		
86.0	91.0	Diorite - fine-grained - sheared 80° to 85° - weak to medium pyrite - streaks aplite.	25		2.8	Trace	0.80	
91.0	93.5	Greenstone - fine-grained - sheared 80° to 85° - weak to medium pyrite - aplite streaks - (pillows?) (flow top).	26		5.0	Trace		
93.5	98.5	Greenstone - fine-grained - sheared 80° to 85° - weak to medium pyrite - aplite streaks - (pillows?) (flow top).	27	90 - 100	2.5	0.80		
98.5	99.3	Greenstone sheared 80° - weak to nil pyrite						
99.3	103.6	Greenstone - fine-grained.						
103.6	105.3	Greenstone - fine-grained - weak to medium pyrite - (quartz streaks - fine galena).	28		1.7	Trace		

Date of Examination

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DIAMOND DRILL RECORD

Hole No. 1 Sheet No. 3

GOLDEN ARROW PROPERTY (429) Hislop Twp.
Erie Canadian Mines Ltd.

Property.....
Location.....
.....
.....
Latitude.....
Departure.....
Bearing.....

Dip

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Total Footage 154.3

Elev. Collar.....
Datum.....
Date Started.....
Date Completed.....
Drilled by.....
Logged by.....

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
105.3	122.5	Greenstone - fine-grained - occasional quartz streaks.		100 -- 110			Trace	
122.5	123.6	Greenstone - fine-grained - aplite streaks - heavy pyrite	C70429		1.1	1.20		
123.6	126.2	Greenstone - fine to medium-grained - occasional quartz streaks.		110 -- 120			Trace	
126.2	127.7	Greenstone - fine-grained - aplite streaks - weak to medium pyrite.	C70430		4.1	Trace		
127.7	130.0	Greenstone - fine-grained.		120 -- 130			Trace	
130.0	130.5	Greenstone - fine-grained - aplite streaks - medium pyrite (1/10 syenite porphyry).	C70431		0.5	0.80		
130.5	135.5	Greenstone - fine-grained - sheared - quartz streaks - weak pyrite.	32		5.0	Trace		
135.5	137.7	Quartz - greenstone - breccia - weak pyrite.	33		2.2	Trace		
137.7	139.7	Lost core.		130 -- 140			0.80	
139.7	149.9	Greenstone - fine-grained - occasional weak streaks (aplite pyrite.)		140 -- 150			1.60	
149.9	151.1	Lost core.						
151.1	152.3	Syenite porphyry - fragments fine greenstone.						
152.3	153.1	Syenite porphyry.		150 -- 154			0.40	
153.1	154.3	Greenstone - streaks aplite and syenite porphyry.						
154.3		END OF HOLE						

Date of Examination.....

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DIAMOND DRILL RECORD

Hole No. 2 Sheet No. 1

Property..... GOLDEN ARROW PROPERTY, Hislop Twp.
 Location..... Erie Canadian Mines Ltd.
 Latitude.....
 Departure..... N 1036.6 - 957.3 E
 Bearing..... S 25° 45' E

Dip

 Total Footage..... 157.8

Elev. Collar.....
 Datum.....
 Date Started.....
 Date Completed.....
 Drilled by..... Heath & Sherwood
 Logged by..... D. K. Burke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
0.0	14.0	Casing.						
14.0	20.3	Diorite - weak to nil mineralization - occasional aplite streaks and quartz-calcite streaks.	C70123		6.3	Trace		
20.3	22.5	Diorite - medium-grained - numerous aplite-quartz streaks - strong pyrite.	C70124	20 - 25			2.40	
22.5	36.0	Diorite - medium-grained - occasional quartz-aplite streaks - weak pyrite.		25 - 30	2.2	Trace	Trace	
			25		3.5	Trace		
	31.0		26		5.0	Trace		
31.0	33.6	Diorite - medium-grained - occasional quartz streaks - very weak pyrite.	27		2.6	Trace		
33.6	36.1	Diorite - medium-grained - quartz-aplite streaks - weak to medium pyrite.	28	30 - 35			0.80	
			29		2.5	Trace		
36.1	41.1		29	35 - 40	5.0	Trace	0.80	
41.1	45.6	Diorite --occasional quartz streaks - weak pyrite - medium-grained.	30	40 - 45	4.5	Trace	0.40	
45.6	46.9	Diorite - medium-grained - altered - quartz-aplite streaks - weak to medium pyrite.	31		1.3	Trace		
46.9	47.8	Diorite - medium-grained - altered 40% quartz streaks - weak to medium pyrite.	32	45 - 50			Trace	
			32		0.9	Trace		
47.8	50.2	Diorite - medium-grained - weak shear - weak mineralization.	33		2.4	Trace		
50.2	51.1	Diorite - medium-grained - aplite streaks -- medium to strong pyrite.	34	50 - 55			Trace	
			34		0.9	Trace		
51.1	54.0	Diorite - medium-grained - aplite-quartz streaks - weak to medium pyrite.	35	55 - 60	2.9	Trace	Trace	
54.0	61.2	Greenstone? - weak shear 75° - calcite streaks - weak pyrite.	36	60 - 65	7.2	Trace	Trace	

Date of Examination.....

T-41

DIAMOND DRILL RECORD

Hole No. 2 Sheet No. 2

GOLDEN ARROW PROPERTY, Hislop Twp.
 Erie Canadian Mines Ltd.
 Property.....
 Location.....
 Latitude.....
 Departure N 1036.6 E 957.3
 Bearing S 25° 45' E

Dip

 Total Footage 157.8

Elev. Collar.....
 Datum.....
 Date Started.....
 Date Completed.....
 Drilled by Heath & Sherwood
 Logged by D. K. Burke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
61.2	63.7	Greenstone? - weak shear 75° - calcite streaks - weak pyrite.	C70137		2.5	0.40		
63.7	66.0	Greenstone? - aplite streaks - medium pyrite - weak shear.	38	65 - 70	2.3	0.40	Trace	
66.0	71.0	Greenstone? - aplite streaks - weak pyrite - weak shear.	39		5.0	Trace		
71.0	73.1	Greenstone? - weak shear - numerous aplite streaks - strong pyrite.	40	70 - 75	2.1	Trace	1.20	
73.1	73.5	Quartz.						
73.5	75.0	Greenstone - fine-grained - aplite streaks - strong pyrite - ½" quartz streaks.	41		1.5	Trace		
75.0	82.1	Greenstone - strong shear 75° - 80° - occasional quartz streaks - weak to medium pyrite.	42	75 - 80	5.0	Trace	Trace	
82.1	87.7	Greenstone - diorite fine-grained - weak shear - weak pyrite - occasional quartz streaks.	43	80 - 85	5.6	Trace	Trace	
87.7	92.0	Diorite - fine-grained - occasional quartz-calcite streaks - very weak pyrite.	44	85 - 90	4.3	Trace	Trace	
92.0	106.5	Diorite - medium-grained - occasional quartz streaks.		90 - 95			Trace	
106.5	109.3	Diorite - aplite streaks - medium to strong pyrite.	45	95 - 100	2.8	2.40	Trace	
109.3	112.3	Diorite - medium-grained - occasional quartz streaks - very weak pyrite.	46	100 - 105	3.0	Trace	0.80	
112.3	114.0	Diorite - fine-grained - aplite streaks - medium to strong pyrite.	47	105 - 110	1.7	0.80	Trace	
114.0	117.1	Diorite - fine-grained - occasional aplite stringers - weak pyrite.	48	110 - 115	3.1	0.80	Trace	
117.1	122.0	Diorite - fine to medium-grained - occasional quartz-calcite streaks.		115 - 120			Trace	
122.0	123.8	Diorite - medium-grained - numerous ½ quartz streaks - weak pyrite.	49	120 - 125	0.8	Trace.		

Date of Examination.....

T. 47

DIAMOND DRILL RECORD

Hole No. 2 Sheet No. 3

GOLDEN ARROW PROPERTY, Hislop Twp.
 Erie Canadian Mines Ltd.
 Property _____
 Location _____

 Latitude _____
 Departure N 1036.6 E 957.3
 Bearing S 25° 45' E

Dip

 Total Footage 157.8

Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by D. K. Burke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
123.8	125.9	Greenstone - weak shear - occasional quartz-calcite streaks - very weak pyrite.	C70151		1.9	Trace		
125.9	129.5	Diorite - fine-grained - no mineralization - occasional epidote streaks.	52	125 - 130	3.6	Trace	Trace	
129.5	132.0	Diorite - fine-grained - sheared - quartz streaks - aplite streaks - weak to medium pyrite.	53	130 - 135	2.5	Trace	Trace	
132.0	133.0	Diorite - fine-grained - $\frac{1}{2}$ " quartz vein 10° to core -- weak to medium pyrite.	54		1.0	Trace		
133.0	136.0	Diorite - fine-grained - weak pyrite - occasional aplite streaks.	55	135 - 140	3.0	Trace	Trace	
136.0	138.0	Diorite - medium-grained -- epidote streaks - weak pyrite.	56		2.8	Trace		
138.0	138.7	Diorite - medium-grained - sheared 70° to core - weak pyrite.	57	140 - 145	0.7	Trace	0.40	
138.7	143.0	Diorite - medium-grained - occasional aplite streaks - weak pyrite.	58		4.3	Trace		
143.0	145.5	Diorite - heavy shear - occasional quartz streaks - weak to medium pyrite - aplite streaks.	59	145 - 150	2.5	0.40	Trace	
145.5	146.6	Lost core.			1.1			
146.6	148.6	Diorite - fine-grained -- occasional quartz streaks - weak pyrite.	60	150 - 155	2.0	0.40	Trace	
148.6	149.6	Lost core.			1.0			
149.6	152.5	Diorite - medium-grained - occasional quartz-calcite streaks - very weak mineralization.	61		2.9	Trace		
152.5	155.5	Diorite - sheared - aplite streaks - medium to strong pyrite - occasional quartz streaks.	62	155 - 157.8	3.0	Trace	Trace	
155.5	157.8	Diorite - medium-grained - very weak mineralization.	63		2.3	Trace.		
157.8		END OF HOLE						

Date of Examination _____

DIAMOND DRILL RECORD

Hole No. 5 Sheet No. 2

Property GOLDEN ARROW PROPERTY, Hislop Twp.
 Location Erie Canadian Mines Ltd.

Latitude
 Departure N 1088.4 E 1117.0
 Bearing S 17° 40' E

Dip

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Total Footage 156.4

Elev. Collar
 Datum
 Date Started
 Date Completed
 Drilled by Heath & Sherwood
 Logged by D. K. Burke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
77.0	79.7	Diorite - fine-grained - sheared - medium mineralization.	C70470		2.7	0.40		
79.7	86.0	Diorite - fine-grained - occasional quartz streaks - weak to nil pyrite.	71	70 - 80	5.3	Trace	0.40	
86.0	100.0	Diorite - medium to fine-grained - occasional aplite-pyrite streaks		80 - 90			Trace	
100.0	104.0	Diorite - fine-grained (greenstone?) - weak shear 70° - weak to medium pyrite.	72	90 - 100	4.0	0.40	Trace	
104.0	106.0	Diorite - strong mineralization - in part diorite - aplite breccia.	73	100 - 110	2.0	7.60	0.80	
106.0	110.0	Diorite - medium mineralization - occasional aplite streaks and shears.	74		4.0	0.40		
110.0	112.0	Diorite - medium mineralization - occasional aplite streaks.	75		2.0	Trace		
112.0	115.0	Diorite - numerous quartz-aplite streaks - medium pyrite.	76	110 - 120	3.0	Trace	Trace	
115.0	120.0	Diorite - fine-grained - occasional quartz-aplite streaks - weak mineralization.	77		5.0	Trace		
120.0	121.0	Diorite - fine-grained - two streaks quartz-aplite (20%) strong mineralization.	78		1.0	0.80		
121.0	124.3	Diorite - fine-grained - weak pyrite.	79	120 - 130	2.3	Trace	Trace	
124.3	125.6	Heavy quartz - strong pyrite.	80		2.3	0.80		
125.6	138.0	Diorite - fine-grained - occasional quartz streaks - weak pyrite - 2" quartz streak at 131.0	81	130 - 140	12.4	Trace	Trace	
138.0	138.9	Diorite - fine - quartz streaks - medium to strong pyrite.	82		2.5	0.40		
138.9	140.5	Quartz diorite breccia - strong pyrite.						
140.5	144.0	Diorite - fine - medium pyrite - quartz streaks.	83		3.5	0.80		
144.0	145.0	Diorite - fine - fine aplite streaks - strong pyrite.- occasional quartz streaks.	84		1.0	3.20		

Date of Examination _____

7-11

DIAMOND DRILL RECORD

Hole No. 5X Sheet No. 1

GOLDEN ARROW PROPERTY, Hislop Twp.
 Property Erie Canadian Mines Ltd.
 Location _____

 Latitude _____
 Departure 1088.4 N. 1115.5 E.
 Bearing S 17° 40' E

Dip

 Total Footage 84.8

Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by D. K. Burke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
0.0	10.8	Casing above solid.						
10.8	14.1	Medium-grained diorite - nil to weak kpyrite.						
14.1	14.3	Lost core.		10 - 20			Trace	
14.3	14.7	Medium-grained diorite.	C70443		6.0	Trace		
14.7	15.5	Lost core.						
15.5	16.8	Medium-grained diorite - weak to nil pyrite.						
16.8	17.3	Lost core.						
17.3	18.0	Medium-grained diorite - medium to strong pyrite - red aplite streaks.	C70434		0.7	Trace		
18.0	18.3	Lost core.						
18.3	18.7	Medium-grained diorite - weak to nil pyrite.	35		0.4	Trace		
18.7	19.2	Lost core.						
19.2	20.0	Medium-grained diorite - medium to weak pyrite.	36		0.8	0.40		
20.0	21.0	Medium-grained diorite - medium to weak pyrite.	37	20 - 30	1.0	0.40	Trace	
21.0	23.0	Lost core.						
23.0	30.0	Medium-grained diorite - weak pyrite.	38		7.0	0.40		
30.0	35.0		39	30 - 40	5.0	Trace	Trace	
35.0	40.0	Medium-grained diorite - weak pyrite.	40		5.0	Trace		
40.0	45.0	Medium-grained diorite - weak to nil pyrite - occasional spec. streaks.	41	40 - 50	5.0	Trace	Trace	
45.0	50.0		42		5.0	Trace		
50.0	55.0	Medium-grained diorite - weak to nil pyrite.	44		5.0	Trace		
55.0	60.0	Diorite - fine-grained - numerous red aplite-pyrite streaks - weak to medium pyrite.	45		5.0	Trace		
60.0	65.0	Diorite - fine-grained - numerous red aplite streaks - also epidote and occasional quartz-calcite streaks - med. min.	46		5.0	Trace		

Date of Examination _____

DIAMOND DRILL RECORD

Hole No. 5X Sheet No. 2

Property GOLDEN ARROW PROPERTY, Hislop Twp.
 Location Erie Canadian Mines Ltd.

Latitude _____
 Departure N 1088.4 E 1115.5
 Bearing S 17° 40' E.

Dip

 Total Footage 84.8

Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by D. K. Burke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
65.0	68.0	Diorite - fine-grained - sheared 70° to core - numerous aplite streaks - medium mineralization.	C70447		3.0	0.40		
68.0	71.0	Diorite - fine-grained - sheared 70° - medium to strong pyrite.	48		3.0	0.40		
71.0	74.0	Diorite - fine-grained - quartz streaks -- medium to strong pyrite - sheared.	49		3.0	0.40		
74.0	74.5	Quartz - no mineralization.	50		0.5	0.4		
74.5	76.5	Diorite - fine-grained - numerous aplite streaks -- medium mineralization - weak shear.	51		2.0	Trace		
76.5	76.9	Diorite - quartz streaks 40% - strong pyrite.						
76.9	78.8	Diorite - fine-grained - numerous aplite streaks - medium mineralization - weak shear.	53		1.9	Trace		
78.8	84.8	Diorite - medium-grained - occasional quartz streaks - weak pyrite.	54		6.0	Trace		
84.8		Hole lost.						

Date of Examination _____

DIAMOND DRILL RECORD

Hole No. 6 Sheet No. 1

GOLDEN ARROW PROPERTY, Hislop Twp.
 Erie Canadian Mines Ltd.

Property _____
 Location _____

Latitude _____
 Departure N 1058.2 E 836.2
 Bearing S 19° 30' E

Dip

0.0 45.°

|

Total Footage 212.7

Elev. Collar _____
 Datum _____
 Date Started October 6, 1937
 Date Completed October, 1937
 Drilled by Heath & Sherwood
 Logged by G. L. Holbrooke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
0.0	45.0	Casing.						
45.0	55.8	Diorite - weak to nil mineralization.		40 - 50			Trace	
55.8	58.0	Sand and gravel (cement).		50 --55			Trace	
58.0	64.0	Diorite - medium-grained - weak to nil pyrite.		60 --65			Trace	
64.0	67.2	Diorite - quartz and aplite streaks - weak to medium pyrite.		65 - 70			1.60	
67.2	89.0	Diorite - medium-grained - occasional calcite streaks - weak to nil pyrite.	670164	70 - 75	3.0	2.00	0.40	
89.0	91.0	Diorite - medium-grained - quartz aplite streaks - medium to strong pyrite.		75 - 80			0.80	
91.0	96.0	Diorite - medium to fine-grained - occasional quartz streaks - weak pyrite.	65	80 - 85			0.40	
96.0	101.0	Diorite - medium to fine-grained - occasional quartz streaks - weak pyrite.	66	85 - 90	2.0	1.60	0.80	
101.0	103.5	Diorite - medium-grained - occasional aplite streaks - quartz stringers - weak pyrite.	67	90 - 95	5.0	Trace		
103.5	136.0	Diorite - medium-grained.	68	95 -100	5.0	0.40	0.80	
136.0	138.0	Diorite - fine-grained - weak shear - calcite streaks - very weak pyrite.		100 - 105	2.5	0.80		
138.0	142.3	Diorite - fine-grained? - sheared 80° - aplite streaks - medium pyrite.	69	105 - 110			Trace	
142.3	142.8	Lost core.	70	110 - 115	2.0	Trace	Trace	
142.8	145.8	Greenstone sheared - aplite streaks - medium to strong pyrite.		115 - 120			0.40	
145.8	148.8	Greenstone - sheared - aplite streaks - medium to strong pyrite.	71	120 - 125	4.3	Trace	Trace	
148.8	152.0	Greenstone - (coarse phase - possibly diorite) - sheared - aplite streaks - weak pyrite.	72	125 - 130			0.40	
			73	130 - 135			Trace	
				135 - 140			Trace	
				140 - 145	3.5	Trace	0.40	
				145 - 150			Trace	
				150 - 155	3.0	Trace	Trace	
					3.2	Trace		

Date of Examination _____

T-17

DIAMOND DRILL RECORD

Hole No. 6 Sheet No. 2

Property GOLDEN ARROW PROPERTY, Hislop Twp.
 Location Erie Canadian Mines Ltd.
 Latitude _____
 Departure N 1058.2 E 836.2
 Bearing S 19° 30' E

0.0° Dip 45°

 Total Footage 212.7

Elev. Collar _____
 Datum _____
 Date Started October 6, 1937
 Date Completed October, 1937
 Drilled by Heath & Sherwood
 Logged by G. L. Holbrooke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
152.0	155.0	Greenstone - strong shear 80° - aplite streaks - medium to strong mineralization - quartz streaks.	C70174	150 - 155	3.0	Trace	Trace	
155.0	160.0	Greenstone - strong shear 80° - occasional quartz aplite streaks - weak pyrite.	75	155 - 160	5.0	Trace	Trace	
160.0	161.0							
161.0	161.1	Quartz - probably past vein.						
161.1	165.0	Greenstone - fine-grained - aplite and quartz streaks - medium to strong pyrite.	76	160 -- 165	5.0	Trace	Trace	
165.0	170.0	Greenstone - fine-grained - aplite and quartz streaks - weak to medium pyrite.	77	165 - 170	5.0	Trace	Trace	
170.0	191.5	Greenstone - medium-grained - numerous epidote streaks - occasional quartz - very weak to nil pyrite.		170 - 175			Trace	
191.5	206.6	Greenstone? - Diorite? - epidote streaks - very weak pyrite - dark - medium-grained.		175 - 180			Trace	
206.6	208.1	Fine-grained - light green greenstone - aplite streaks - weak pyrite.	78	180 - 185 185 - 190 190 - 195	1.5	Trace	Trace	
208.1	211.9	Grey Greenstone - occasional quartz streaks,		195 - 200			Trace	
211.9	212.7	Grey greenstone - occasional quartz streaks -- medium pyrite.	79	200 - 205 205 - 210	0.8	Trace	Trace	
212.7		END OF HOLE.						

Date of Examination _____

T 47

DIAMOND DRILL RECORD

Hole No. 9 Sheet No. 1

Property GOLDEN ARROW PROPERTY, Hislop Twp.
 Location Erie Canadian Mines Ltd.
 Latitude _____
 Departure N 1113.9 E 1191.0
 Bearing S 21° 30' E

Dip

 Total Footage 141.2

Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by D. K. Burke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
0.0	9.1	Casing above solid.						
9.1	14.0	Diorite - medium-grained - occasional pyrite specks and blebs.	C70489		4.9	Trace		
14.0	19.0	Diorite - medium-grained - weak shear at 14.7 - occasional pyrite specks.	90	10 - 20	5.0	Trace	Trace	
19.0	24.0	Diorite - medium-grained - calcite epidote streaks.	91		5.0	Trace		
24.0	27.7	Diorite - medium-grained - occasional pyrite.	92	20 - 30	3.7	Trace	Trace	
27.7	31.1	Diorite - medium-grained - occasional pyrite.	93		3.4	Trace		
31.1	32.1	Aplite - strong pyrite mineralization.	94		1.0	Trace		
32.1	37.1	Diorite - medium-grained - occasional pyrite.	95	30 - 40	5.0	Trace	Trace	
37.1	40.7	Diorite - medium-grained - occasional pyrite - calcite streaks.	96		3.6	Trace		
40.7	41.9	Diorite - medium-grained - red aplite streaks - weak pyrite mineralization.	97		1.2	0.40		
41.9	44.2	Diorite - medium-grained - occasional red aplite and quartz streaks - weak pyrite.	98	40 - 50	2.3	Trace	Trace	
44.2	49.2	Diorite - medium-grained - occasional pyrite.	99		5.0	Trace		
49.2	54.2	Diorite - medium-grained - occasional pyrite.	500		5.0	Trace		
54.2	58.7	Diorite - medium-grained - occasional calcite threads and pyrite specks.	C70101	50 - 60	4.5	0.40	Trace	
58.7	63.1	Diorite - medium-grained - occasional aplite and quartz - calcite streaks - scattered pyrite streaks.	02		4.4	0.80		
63.1	67.4	Diorite - medium-grained - occasional reddish aplite streaks - weak pyrite mineralization occurring as scattered streaks.	03	60 - 70	4.3	0.40	Trace	
67.4	71.7	Greenstone - sheared - calcite threads - weak to medium pyrite mineralization.	04		4.3	Trace		

Date of Examination _____

T-117

DIAMOND DRILL RECORD

Hole No. 9 Sheet No. 2

GOLDEN ARROW PROPERTY, Hislop Twp.
Erie Canadian Mines Ltd.

Property.....
Location.....

Dip

Elev. Collar.....
Datum.....
Date Started.....
Date Completed.....
Drilled by Heath & Sherwood
Logged by D. K. Burke

Latitude.....
Departure N 1113.9 E 1191.0
Bearing S 21° 30'E

Total Footage 141.2

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
71.7	74.3	Greenstone - sheared - quartz-calcite threads - 2" quartz streak at 74.4 - weak to medium pyrite.	C70105	70 - 75	2.6	0.40	Trace	
74.3	77.0	Greenstone - quartz-calcite threads - 1" quartz streaks at 74.3, 2" streak at 74.9, 5" streak at 76.0 and 1" streak at 77.0 - weak to medium mineralization.	06	75 - 80 80 - 85 85 - 90	2.7	Trace	Trace	
77.0	80.0	Greenstone - sheared 70° - quartz-calcite threads - weak to medium pyrite.	07	90 - 95	3.0	0.80	Trace	
80.0	83.0	Greenstone - sheared - 70° - occasional red aplite streaks - streaks pyrite - weak mineraliza.	08		3.0	Trace		
83.0	84.6	Greenstone - sheared - weak pyrite.	09		1.6	Trace		
84.6	86.1	Greenstone - 2 1/4" quartz ribbons 2" apart - weak to medium pyrite.	10		1.5	Trace		
86.1	89.2	Diorite - weak shear - calcite threads - occasional streaks pyrite.	11		3.1	0.40		
89.2	91.2	Diorite -- medium shear - calcite threads - 1/2" quartz weak mineralization.	12	95 - 100	3.0	Trace	Trace	
91.2	95.5	Diorite -- reddish patches weak streaks pyrite - calcite threads.	13		4.3	0.80		
95.5	99.2	Diorite - calcite threads - weak pyrite.	14		3.7	Trace		
99.2	100.9	Diorite - weak pyrite.	15	100 - 110	1.7	Trace	0.40	
100.9	104.0	Diorite - shear - 75° - calcite streaks, weak pyrite.	16		3.1	Trace		
104.0	107.4	Diorite - occasional calcite thread - weak pyrite.	17		3.4	Trace		
107.4	108.7	Diorite - sheared - weak to medium pyrite - 1/2" quartz at 108.4	18	110 - 120	1.3	0.40	Trace	
108.7	112.7	Diorite - calcite threads - very weak pyrite.	19		4.0	0.40		
112.7	117.5	Diorite - quartz-calcite streaks - weak pyrite.	20		4.8	5.60		

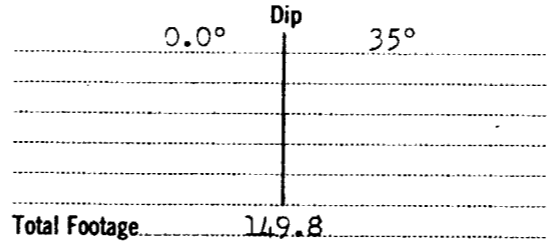
Date of Examination.....

1977

DIAMOND DRILL RECORD

Hole No. 13 Sheet No. 1

Property GOLDEN ARROW PROPERTY, Hislop Twp.
 Location Erie Canadian Mines Ltd.



Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by G. L. Holbrooke

Latitude _____
 Departure N 1146.8 E 1294.5
 Bearing S 17° 05' E

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
0.0	13.0	Casing.						
13.0	19.0	Diorite - coarse-grained.		13 - 20			Trace	
19.0	21.8	Lost core.						
21.8	24.2	Diorite - coarse-grained.		20 - 25			0.40	
24.2	25.4	Diorite - coarse-grained - aplite streaks - weak pyrite.	070180		1.2	0.80		
25.4	31.5	Diorite - medium to coarse-grained.		25 - 30			Trace	
31.5	32.0	Diorite - medium-grained - aplite streaks - medium to strong pyrite.	81		0.5	Trace		
32.0	33.0	Diorite - medium-grained aplite streaks - weak pyrite.	82	30 - 35	1.0	0.40	Trace	
33.0	40.0	Diorite - fine-grained - occasional weak pyrite streaks.						
40.0	41.5	Diorite - fine-grained - quartz-aplite streaks - weak to medium pyrite.	83	35 - 40			0.40	
41.5	43.1	Diorite - fine-grained - aplite streaks - medium pyrite.	84	40 - 45	1.5	1.20		
43.1	47.0	Diorite - fine-grained.			1.6	1.60	0.80	
47.0	48.0	Diorite - fine-grained? shear @ 80° - aplite-pyrite streaks.		45 - 50			Trace	
48.0	49.5	Diorite - fine-grained?	85		1.0	0.40		
49.5	50.4	Diorite - medium-grained - aplite-quartz streaks -- medium pyrite.		50 - 55			Trace	
50.4	51.2	Diorite - fine-grained - very weak pyrite.	86		0.9	0.40		
51.2	54.5	Diorite - medium to fine-grained - quartz and aplite streaks - medium pyrite.	87		0.8	Trace		
54.5	59.5	Diorite - medium to fine-grained - occasional quartz streaks - very weak pyrite.	88	55 - 60	3.3	0.80	Trace	
59.5	65.0	Diorite - medium to fine-grained - occasional quartz streaks - very weak pyrite.	89		5.0	Trace		
65.0	70.0	Diorite - medium to fine-grained - reddish aplite streaks - weak pyrite.	90	60 - 65			0.40	
			91	65 - 70	4.5	Trace	Trace	

Date of Examination _____

7-11-7

DIAMOND DRILL RECORD

Hole No. 13 Sheet No. 2

Property GOLDEN ARROW PROPERTY, Hislop Twp.
Erie Canadian Mines Ltd.
 Location _____

 Latitude _____
 Departure N 1146.8 E 1294.5
 Bearing S 17° 05' E

Dip
 0.0° | 35°

 Total Footage 149.8

Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by G. L. Holbrooke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
70.0	73.8	Diorite - medium to fine-grained - reddish aplite streaks - weak pyrite.	C70192			0.80		
73.8	73.9	Quartz	93	70 - 75	2.8	Trace	Trace	
73.9	76.6	Diorite - fine-grained - aplite streaks - medium pyrite.						
76.6	76.7	Quartz.		75 - 80			0.40	
76.7	78.2	Diorite - fine-grained - aplite streaks - medium to strong pyrite.	94		1.6	1.20		
78.2	80.2	Diorite - fine-grained - occasional quartz streaks - very weak pyrite.	95	80 - 85			2.00	
80.2	83.0	Greenstone - Sheared @ 70° - aplite streaks - weak pyrite.	96		2.3	Trace		
83.0	87.0	Greenstone -- Sheared @ 70° - aplite streaks - medium to strong pyrite.	97	85 - 90	2.8	0.40	0.40	
87.0	93.0	Greenstone - sheared @ 70° - occasional aplite streaks - weak pyrite.	98		4.0	2.00		
93.0	101.0	Diorite - medium-grained - very weak shear.						
101.0	104.8	Diorite? - alteration streaks - aplite streaks - weak to medium pyrite.		95 - 100			Trace	
104.8	106.5	Diorite - medium-grained - aplite streaks - weak pyrite.	99	100 - 105	3.8	0.40	Trace	
106.5	141.3	Diorite - medium-grained - occasional quartz streaks - weak to medium pyrite. $\frac{1}{2}$ " quartz @ 127.	200	105 - 110	1.7	Trace	Trace	
141.3	149.0	Diorite - fine-grained? Greenstone? sheared @ 60° - occasional quartz and epidote streaks - weak to nil pyrite.		110 - 115			Trace	
				115 - 120			0.40	
				120 - 125			Trace	
				125 - 130			Trace	
				130 - 135			Trace	
149.0	149.8	Diorite - medium-grained - no mineralization.		135 - 140			Trace	
149.8		END OF HOLE.		140 - 145			Trace	
				145 - 149			Trace	

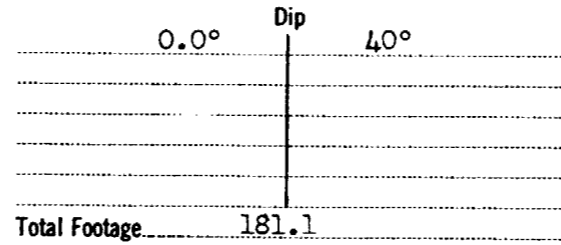
Date of Examination _____

DIAMOND DRILL RECORD

Hole No. 35 Sheet No. 1

Property GOLDEN ARROW PROPERTY, Hislop Twp.
Erie Canadian Mines Ltd.
 Location _____

 Latitude _____
 Departure N 1094.9 E 2018.0
 Bearing S 15° 30' W



Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by G. L. Holbrooke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
0.0	4.0	Casing.						
4.0	23.0	Diabase - coarse.						
23.0	26.0	Greenstone - occasional epidote streaks - pyrite streaks medium mineralization.	071701		3.0	0.40		
26.0	33.8	Greenstone - no mineralization.						
33.8	35.1	Greenstone - occasional aplite streaks - quartz streaks - weak to medium pyrite.	02	35 - 40 40 - 45	1.3	0.80	Trace	
35.1	66.0	Greenstone or fine diorite.		45 - 50				
66.0	81.0	Diorite - medium-grained.		50 - 55			Trace	
81.0	81.8	Diorite - medium-grained - reddish streaks.		55 - 60			Trace	
81.8	82.5	Quartz - weak pyrite mineralization.		60 - 65			Trace	
82.5	83.3	Diorite - medium-grained - reddish streaks.	03	65 - 70	2.3	0.80	Trace	
83.3	87.1	Diorite - fine-grained - very weak pyrite.		70 - 75			0.40	
87.1	87.4	Syenite porphyry - weak pyrite - quartz streaks.	04	75 - 80	4.1	0.40	Trace	
87.4	96.5	Diorite - medium-grained.		80 - 85			Trace	
96.5	114.0	Red syenite.		85 - 90			0.40	
114.0	115.1	Diorite - altered.		90 - 95			Trace	
115.1	118.1	Diorite - medium-grained - quartz streaks - epidote streaks - weak pyrite.	05	105 - 110	1.3	0.40	Trace	
119.4	121.5	Diorite - medium-grained - occasional quartz streaks.		110 - 115			Trace	
121.5	125.0	Diorite - medium-grained - reddish aplite streaks - weak to medium pyrite.	07	120 - 125	3.5	Trace	Trace	
125.0	129.0	Diorite - fine-grained? (greenstone) weak shear @ 70°		125 - 130			Trace	
129.0	132.0	Diorite - fine-grained? (greenstone) aplite streaks - weak to medium pyrite.	08	130 - 135			Trace	
132.0	136.9	Diorite - fine-grained? (greenstone) very occasional aplite streaks - weak to nil pyrite.	09		4.9	Trace		
136.9	138.4	Aplite greenstone - breccia - streaks pyrite.	10		1.5	2.40		

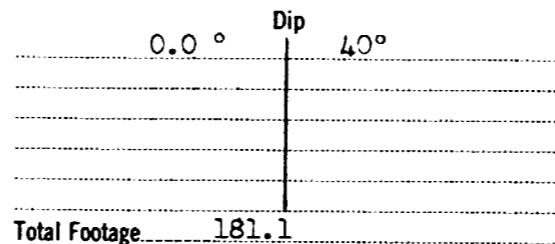
Date of Examination _____

DIAMOND DRILL RECORD

Hole No. 35 Sheet No. 2

Property GOLDEN ARROW PROPERTY, Hislop Twp.
 Location Erie Canadian Mines Ltd.

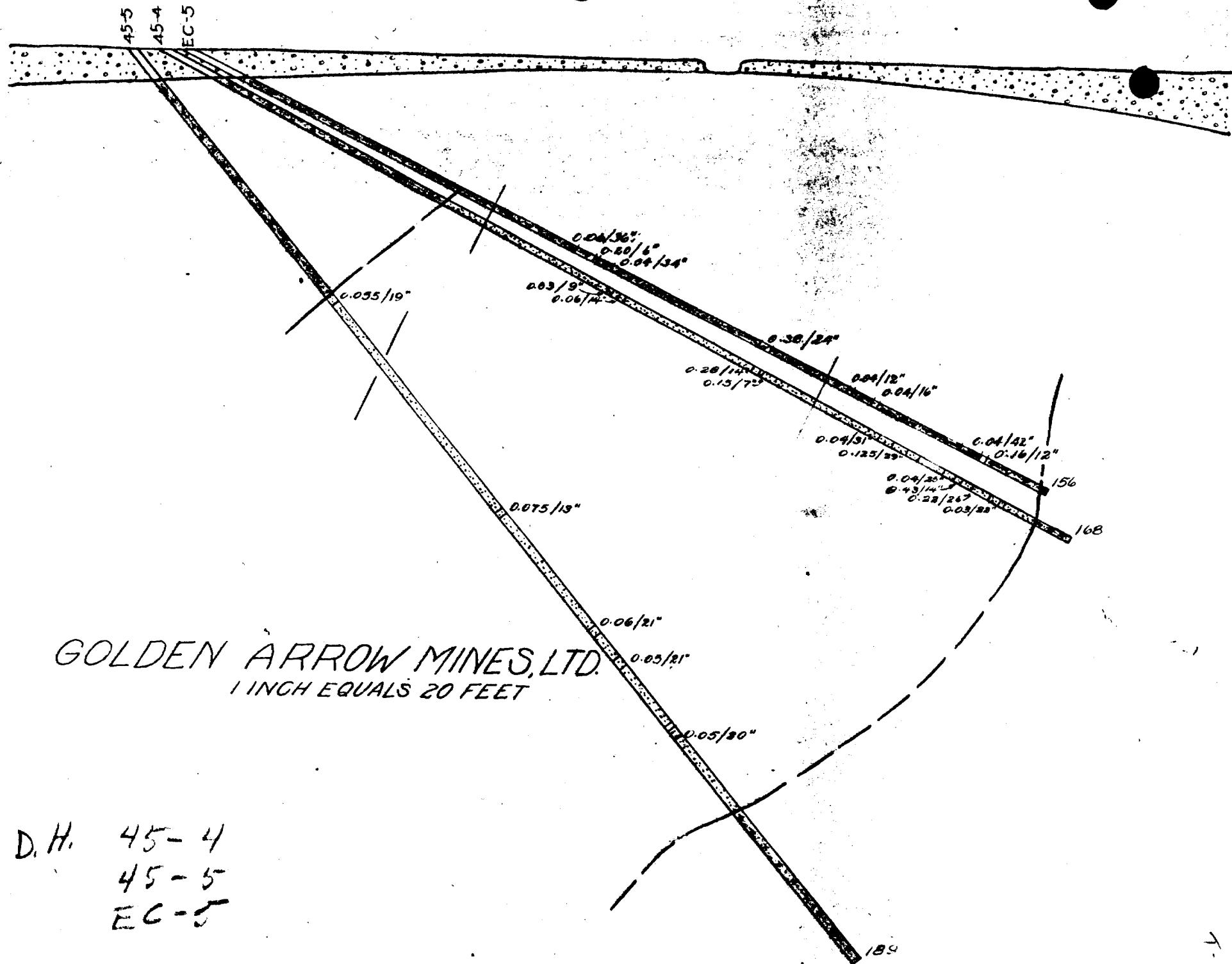
Latitude N 1094.9 E 2018.0
 Departure S 15° 30' W
 Bearing S 15° 30' W



Elev. Collar _____
 Datum _____
 Date Started _____
 Date Completed _____
 Drilled by Heath & Sherwood
 Logged by G. L. Holbrooke

Footage		Formation	Sample Number	Sample Footage	Sample Width	Gold Sample	Gold Sludge	Remarks
From	To							
138.4	141.9	Diorite - fine-grained - occasional aplite streaks - medium pyrite.	C71711	135 - 140	3.5	Trace	0.80	
141.9	146.5	Diorite - medium to fine-grained - very occasional aplite streaks - quartz streaks - weak pyrite.	12	140 - 145 145 - 150	4.6	Trace	Trace	
146.5	147.0	Syenite porphyry.						
147.0	165.6	Diorite - fine to medium-grained - occasional syenite porphyry streaks - quartz streaks - very rare apl. str. wk to nil pyrite.						
165.6	168.2	Diorite - fine to medium-grained, aplite streaks - weak to medium pyrite.	13		2.6	0.40		
168.2	168.2	Syenite - quartz streaks.						
168.2	169.2	Diorite - aplite streaks - medium pyrite.						
169.2	171.2	Syenite - no mineralization.	14		3.0	2.00		
171.2	176.0	Diorite - medium-grained - occasional aplite streaks - very weak pyrite.	15		3.8	Trace		
176.0	177.0	Diorite - Altered - quartz streaks - aplite streaks -- medium pyrite.						
177.0	177.5	Quartz - medium pyrite.						
177.5	178.5	Diorite - plus 80° aplite streaks - medium to strong pyrite.	16		2.5	0.40		
178.5	180.0	Diorite - altered (grey) epidote streaks - very occasional aplite streaks - weak to nil pyrite.						
180.0	181.1	Syenite - no mineralization.						
181.1		END OF HOLE.						

Date of Examination _____



GOLDEN ARROW MINES, LTD.
 1 INCH EQUALS 20 FEET

D. H. 45-4
 45-5
 EC-5

117-4

Hislop Township

Notes on visit with Dr. W. Ambrose, and Mr. and Mrs. MacMillan, to examine drifting and crosscutting on the first level.

The shaft is in diorite and volcanics, to the north of the syenite plug with which the ore is associated.

The diorite is a dark-green, dense, fine grained type, impossible to distinguish underground from the andesites, but on surface there are places where it displays intrusive phenomena.

The drift southwest from the shaft is in diorite and volcanics for probably 100 feet, before entering the syenite plug. The volcanics are altered in patches near the contact to a dull, purplish-red felsite, and in local patches to brick-red, jasper-like material.

At the north contact of the syenite, the contact is faulted, and the syenite forms a small projection into the lavas to the north.

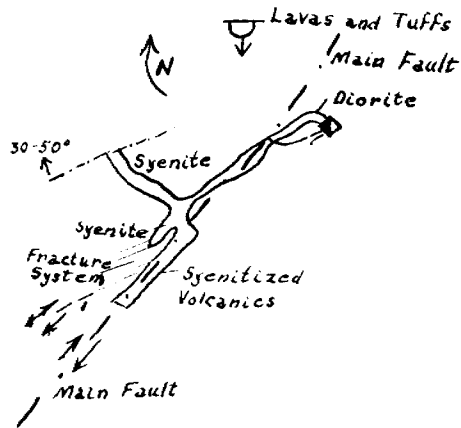


Displacement on the main fault is thought by Dr. Ambrose to be in the order of 150 feet with the west side moving north. Vertical displacement is not known.

The west contact of the syenite, where it projects into the greenstone may also be faulted, but has not been explored.

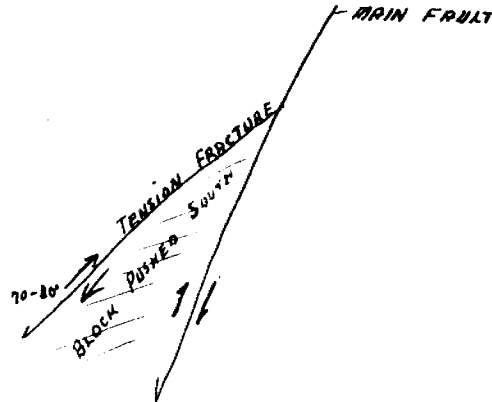
GOLDEN ARROW MINES LTD.

Hislop Twp.



Rough Sketch of Level

Several rather prominent subsidiary faults, of the breccia type were noted, striking south of west, away from the main fault. These are probably tension fractures, but have a small displacement. A quartz vein, appeared to be displaced about three feet on one such fault, displacement being opposite to the main fault, or to the south-west on the south side.



Drifting south is largely west of the fault in the greenstone, but in the syenite a crosscut is driven back to the fault and drifting follows it for about 80 feet to the face. The dip is nearly vertical and the fault very straight along the strike. In places there is a white calcite filling, in other places, several inches of gouge, and in other places, only a narrow slip. The general impression, through, is of a fairly strong fault.

The east wall in this section is a purplish, very hard, syenitized volcanic, of flinty nature. It is mineralized with extremely fine disseminated pyrite and fine pyrite filling tight fractures. This type apparently is the best ore.

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In this red, altered syenite, there is a very plain set of fractures angling off to the west from the main fault. This pattern can be seen all along the drift, although some larger fractures accentuate it.

The syenite in the large body is a dark grey type with white feldspar and ferromagnesian which has been largely altered to chloritic material. The brick-red variety is an altered type, in general close to the contact and cut by veinlets of quartz and calcite.

In drilling, values were concentrated on the east and west contacts of the projection of syenite, and along the strike in the main body. There were also erratic intersections between the two, in the syenite. These may be explained by the cross-fracture system.

Nelson Hogg,
Resident Geologist.

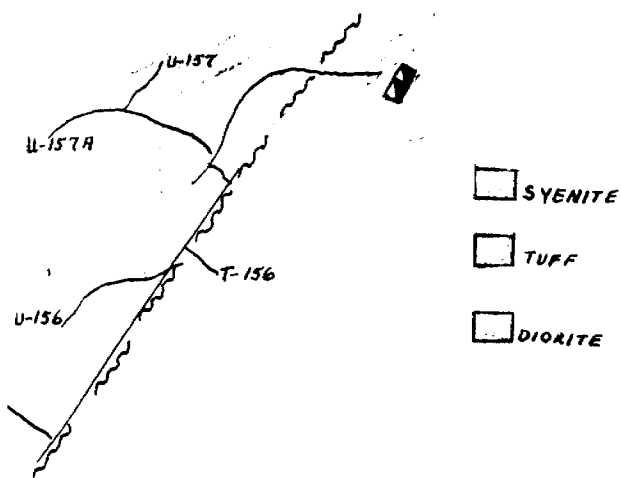
Timmins, Ontario
December 14, 1946

GOLDEN ARROW MINES LTD.

Hislop Township

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The lamprophyre is a unique rock, dark red in colour and granular in texture, and characterized by well rounded pebbles of brick-red syenite.

The felsite is a dull red colour, felsitic and very tough. It has a sheeted structure and the sheeting is at an angle of about 50 degrees to the main fault. Both these dykes are picked up again on the 400-foot level.

The most consistent ore developed is in the syenite to the west of the main fault. It occurs in a lenticular body 150 feet long and about 40 feet wide, lying between the main fault and a subsidiary, thought to be the same as the subsidiary developed in U-156 drift. The ore is in grey, silicified syenite, with disseminated pyrite. The east wall of the main fault at this point is red syenite, which does not make ore. The orebody averages about 0.15 ounces.

This orebody is terminated to the south along a fault striking obliquely across the drift at about 20 degrees, to the southwest. The main fault is also lost at this point, and may be faulted to the west. However, there is also evidence of weakening prior to reaching the oblique fault.

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Development on the 400-foot level has been more straightforward than on the 250. A drive was laid out from the station to intersect the main fault where it enters the northern extremity of the syenite. Drifting was confined to following the main break to the southwest. The main fault is dipping about 85 degrees southeast.

The station is in diorite and the drive to the main fault is in diorite and andesite. No contact could be found and the two rocks are very similar in nature.

The first 60 feet of the drift on the main fault, along the contact, between syenite and volcanics, averaged 0.25 ounces in muck samples, which is the best section of ore developed in the mine. Values are in a bluish quartz which carries very fine pyrite and some visible gold in finely divided form.

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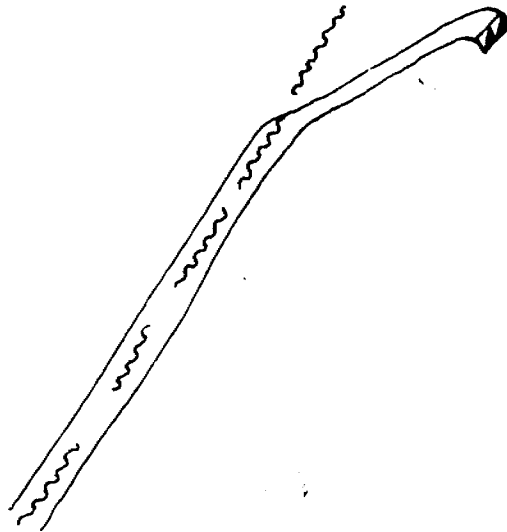
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Nelson Hogg,
Resident Geologist.

Timmins, Ontario,
June 11, 1947

GOLDEN ARROW MINES LTD.

Hislop Township



400-FOOT LEVEL

October 10, 1935

GOLDEN ARROW MINES LTD.

The property of the Golden Arrow Mining Co. Ltd. consists of four 40 acre mineral claims located on the Ferguson Highway approximately five miles northeast of Kamore. A good camp, capable of accommodating about 20 men, has been built.

Development of the claims, which so far consists of trenching, stripping and a small amount of diamond drilling has been limited to a sheared altered zone which runs in a general east-west direction across the north side of claims L24661, L24662 and L24663. All of the work done to date lies within 600 feet of the north boundary, and the greatest part is within 200 feet of the line. As the structures already opened up show a decided tendency to dip to the north the ground adjoining the Golden Arrow property in this direction must contain the exposed veins at a comparatively shallow depth. For instance, the shear zone at the west end, if projected downward on the dip as indicated at surface, would cross the north boundary at about 600 feet vertical depth.

Trenching has disclosed vein material in several sheared and silicified zones which run in two general directions. The first, which strikes approximately east and west, is associated with the north contact of a large mass of syenite porphyry; the other is a definite, narrower shear zone striking N. 35° E.

1. East-west Zone

The zone, which is apparently about 100 feet wide, lies in greenstone immediately north of a mass of syenite porphyry and extends across the north part of the three claims mentioned above. Near the centre of the three claims the zone is covered by a swampy area approximately 900 feet long and shorter lengths of swamp occur at each end. Within this contact zone the greenstone is much broken and disturbed and contains several heavy shearings. The rock is generally well altered and much vein material is found usually in irregular patches. Sulphide mineralization, for the most part pyrite, while sometimes heavy, is not uniform in distribution but occurs much more plentifully in some places than in others. Some samples taken from very heavily mineralized sections failed to assay over 0.40 per ton. Vein alteration is for the most part to carbonate schist but some silicification was noticed close to the syenite porphyry contact. The zone contains some stringers and masses of white quartz. One consistent rib of quartz at the west end is up to 1 foot wide.

2. Northeast Zone

This is a definite, much narrower shear which strikes N. 35° E. and crosses the north boundary at about the center of the east claim. The vein which appears to follow a narrow dyke of syenite porphyry consists of sheared altered rock with stringers and veinlets of quartz. Sulphide mineralization is usually sparse. The width is not clearly defined but probably is from 6 to 8 feet. The vein enters a swamp where it crosses the north boundary at which point it is headed straight for the vein opened up on the Vimy Gold Mines. It is possible

that these two veins may be the same. On the accompanying map the line of trenches on this vein and some on the east-west sheared zone are apparently shown too far to the north by about 60 feet.

In all, 34 samples were taken, the locations of which are marked on the accompanying map.

<u>Number</u>	<u>Width</u>	<u>Value</u>	<u>Remarks</u>
1	36"	\$0.40	Sheared mineralized greenstone
2	36"	0.40	Sheared mineralized greenstone $\frac{1}{2}$ quartz stringer
3	30"	0.40	Sheared mineralized greenstone
4	42"	6.40	Sheared mineralized reddish colored greenstone.
5	48"	5.60	Sheared mineralized reddish colored greenstone.
6	42"	1.20	Sheared greenstone, not so much reddened.
7	26"	0.40	Sheared greenstone, not so much reddened 2" quartz
8	60"	0.40	Mineralized greenstone 2" quartz stringers.
9	42"	0.40	Mineralized greenstone.
10	36"	0.40	Mineralized greenstone 1' white quartz
11	40"	0.40	Mineralized greenstone
12	60"	0.40	Mineralized greenstone, some quartz
13	grab	0.80	From quartz rib at west end.
14	54"	0.80	Mineralized greenstone quartz stringers.
15	grab	0.40	Silicified mineralized greenstone.
16	grab	0.40	Silicified mineralized reddish greenstone
17	grab	6.00	From 3" wide quartz stringers.
18	49"	0.40	Sheared greenstone at diabase contact.
19	48"	2.40	quartz and mineralized syenite.
20	34"	1.20	Altered greenstone. Sparse sulphides.
21	36"	0.40	reddened syenite with white quartz
22	37"	1.20	Altered red syenite & white quartz. Scattered pyrite
23	27"	0.80	Altered red syenite. Scant mineral.
24	72"	0.40	reddened greenstone. Little fine sulphides
25	72"	0.80	Altered greenstone. Small amount of quartz.
26	53"	0.40	Altered greenstone & syenite. Very heavy sulphides.
27	60"	2.80	rusty greenstone
28	67"	1.20	Altered greenstone. Sparse mineral.
29	60"	0.80	Altered greenstone and quartz.
30	36"	0.80	Altered greenstone
31	36"	2.80	reddened greenstone. Heavy fine sulphides.
32	66"	3.60	Mineralized reddened greenstone.
33	41"	1.20	Finely mineralized greenstone.
34	grab	1.20	From same stripping as samples 31, 32 and 33.

Values given are based on a price of \$20.67 per ounce for gold.

Conclusions

While the sampling is not complete a sufficient number of samples were taken to form our estimate of the worth of the deposit. Nearly all of the places which are in proper shape for sampling were sampled and care was taken to secure good samples from all of the spots from which the present operators have secured good values. The results show only three samples above \$4.00 and one of these is a grab from a 3" quartz stringer. It is quite likely that similar low values could be obtained almost anywhere in the 100 foot altered zone but values are too much scattered to provide a mineable lode.

"W. T. Robson"

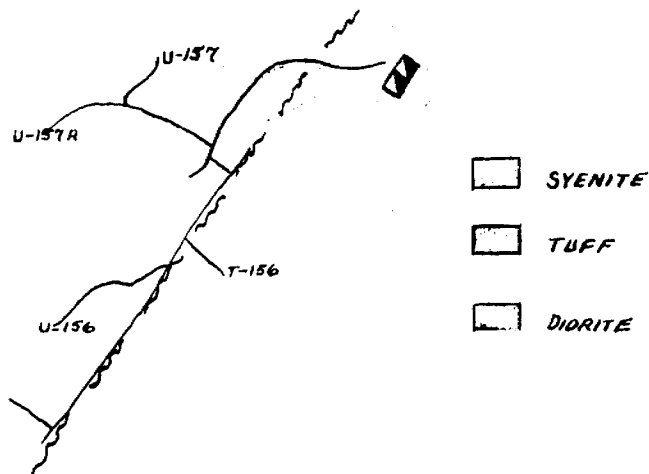
GOLDEN ARROW MINES LTD.

T-47

Hislop Township

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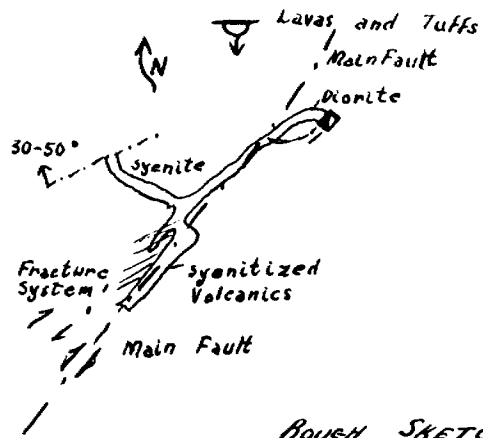


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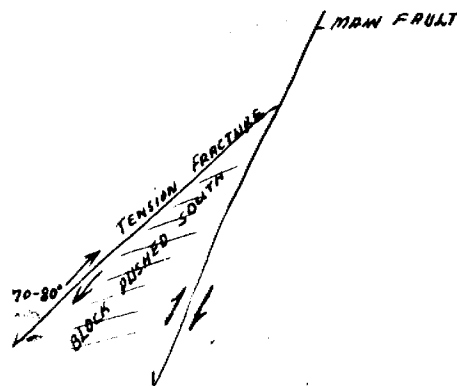
GOLDEN ARROW MINES LTD.

Hislop Twp.



ROUGH SKETCH OF LEVEL

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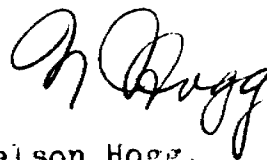
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Timmins, Ontario
December 14, 1946

GOLDEN ARROW MINES LTD.

T-47

Hislop Township

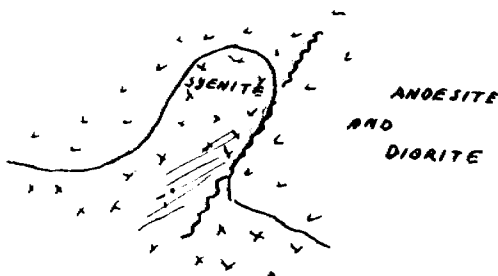
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T. 27

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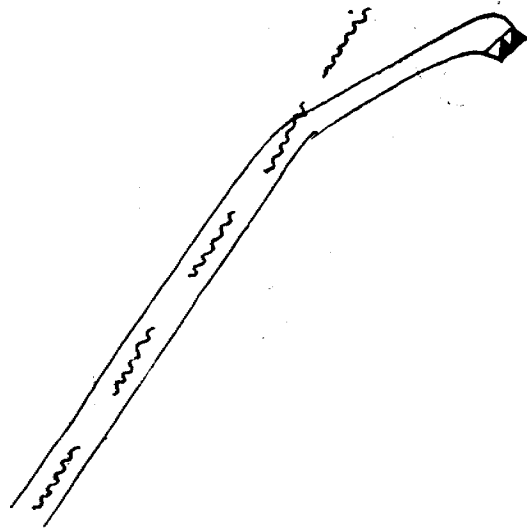
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Nelson Hogg,
Resident Geologist.

Timmins, Ontario,
June 11, 1947

GOLDEN ARROW MINES LTD.

Hislop Twp.



400-FOOT LEVEL

T-47

ERIE CANADIAN MINES LTD.

HOLE NO. 5

PROPERTY Golden Arrow Property, Hislop Twp.

LOCATION _____
 PURPOSE _____
 DRILLED BY Heath & Sherwood
 LOGGED BY G. L. Holbrooke
 DATE STARTED October, 1937
 DATE FINISHED October, 1937
 CORE RECOVERY _____

BEARING S 19° 30' E
 DIP 45°
 CO-ORDINATES - N 1058.2 S _____
 E 836.2 W _____
 ELEV. _____
 DIP TESTS _____
 BEARING TESTS _____

FOOTAGE	SAMPLE NO.	VALUE	WIDTH	AV.	ROCK
0.0					Collar.
45.0					Casing.
55.8					Diorite - weak to nil mineralization.
58.0					Sand and gravel (cement).
64.0					Diorite - medium-grained - weak to nil pyrite.
57.2	C70164	2.00	3.0		Diorite - quartz and aplite streaks - weak to medium pyrite.
89.0					Diorite - medium-grained - occasional calcite streaks - weak to nil pyrite.
91.0	C70165	1.60	2.0		Diorite - medium-grained - quartz aplite streaks - medium to strong pyrite.
96.0	66	Trace	5.0		Diorite - medium to fine-grained - occasional quartz streaks - weak pyrite.
101.0	67	0.40	5.0		Diorite - medium to fine-grained - occasional quartz streaks - weak pyrite.
103.5	68	0.80	2.5		Diorite - medium-grained - occasional aplite streaks - quartz stringers - weak pyrite.
136.0					Diorite - medium-grained.
138.0	C70169	Trace	2.0		Diorite - fine-grained - weak shear - calcite streaks - very weak pyrite.
142.3	70	Trace	4.3		Diorite - fine-grained? - sheared 80° - aplite streaks - medium pyrite.
142.8					Lost core.
145.8	C70171	Trace	3.5		Greenstone sheared - aplite streaks - medium to strong pyrite.
148.8	72	Trace	3.0		Greenstone - sheared - aplite streaks - medium to strong pyrite.
152.0	73	Trace	3.2		Greenstone (coarse phase - possibly diorite) - sheared - aplite streaks - weak pyrite.
155.0	74	Trace	3.0		Greenstone - strong shear 80° - aplite streaks - medium to strong mineralization - quartz streaks.
160.0	75	Trace	5.0		Greenstone - strong shear 80° - occasional quartz aplite streaks - weak pyrite.
161.0					
161.1					Quartz - probably past vein.
165.0	C70176	Trace	5.0		Greenstone - fine-grained - aplite and quartz streaks - medium to strong pyrite.
170.0	77	Trace	5.0		Greenstone - fine-grained - aplite and quartz streaks - weak to medium pyrite.
191.5					Greenstone - medium-grained - numerous epidote streaks - occasional quartz - very weak to nil pyrite.
206.6					Greenstone? - Diorite? - epidote streaks - very weak pyrite - dark - medium-grained.
208.1	C70178	Trace	1.5		Fine-grained - light green greenstone - aplite streaks - weak pyrite.
211.9					Grey greenstone - occasional quartz streaks.
212.7	C70179	Trace	0.8		Grey greenstone - occasional quartz streaks - medium pyrite.

End of Hole.

SLUDGE SAMPLES

45 - 50	Trace	130 - 135	0.40
50 - 55	Trace	135 - 140	Trace
60 - 65	Trace	140 - 145	0.40
65 - 70	1.60	145 - 150	Trace
70 - 75	0.40	150 - 155	Trace
75 - 80	0.80	155 - 160	Trace
80 - 85	0.40	160 - 165	Trace
85 - 90	0.80	165 - 170	Trace
90 - 95	0.80	170 - 175	Trace
95 - 100	0.80	175 - 180	Trace
100 - 105	2.40	180 - 185	Trace
105 - 110	Trace	185 - 190	Trace
110 - 115	Trace	190 - 195	Trace
115 - 120	Trace	195 - 200	Trace
120 - 125	0.40	200 - 205	Trace
125 - 130	Trace	205 - 210	Trace

ERIE CANADIAN MINES LTD.

PROPERTY Golden Arrow Property (429)

HOLE NO. 9

LOCATION _____
 PURPOSE _____
 DRILLED BY Heath & Sherwood
 LOGGED BY D. E. Burke
 DATE STARTED _____
 DATE FINISHED _____
 CORE RECOVERY _____

BEARING S 21° 30' E
 DIP _____
 CO-ORDINATES - N 1113.9 S _____
 E 1191.0 W _____
 ELEV. _____
 DIP TESTS _____
 BEARING TESTS _____

FOOTAGE	SAMPLE NO.	VALUE	WIDTH	AV.	ROCK
0.0					Collar.
9.1					Casing above solid.
14.0	070489	Trace	4.9		Diorite - medium-grained - occasional pyrite specks and blebs.
19.0	90	Trace	5.0		Diorite - medium-grained - weak shear at 14.7 - occasional pyrite specks.
24.0	91	Trace	5.0		Diorite - medium-grained - calcite epidote streaks.
27.7	92	Trace	3.7		Diorite - medium-grained - occasional pyrite.
31.1	93	Trace	3.4		Diorite - medium-grained - occasional pyrite.
32.1	94	Trace	1.0		Aplite - strong pyrite mineralization.
37.1	95	Trace	5.0		Diorite - medium-grained - occasional pyrite.
40.7	96	Trace	3.6		Diorite - medium-grained - occasional pyrite - calcite streaks.
41.9	97	0.40	1.2		Diorite - medium-grained - red aplite streaks - weak pyrite mineralization.
44.2	98	Trace	2.3		Diorite - medium-grained - occasional red aplite and quartz streaks - weak pyrite.
49.2	99	Trace	5.0		Diorite - medium grained - occasional pyrite.
54.2	500	Trace	5.0		Diorite - medium-grained - occasional pyrite.
58.7	070101	0.40	4.5		Diorite - medium-grained - occasional calcite threads and pyrite specks.
63.1	02	0.80	4.4		Diorite - medium-grained - occasional aplite and quartz-calcite streaks - scattered pyrite streaks.
67.4	03	0.40	4.3		Diorite - medium-grained - occasional reddish aplite streaks - weak pyrite mineralization occurring as scattered streaks.
71.7	04	Trace	4.3		Greenstone - sheared - calcite threads - weak to medium pyrite mineralization.
74.3	05	0.40	2.6		Greenstone - sheared - quartz-calcite threads - 2" quartz streak at 74.4 - weak to medium pyrite.
77.0	06	Trace	2.7		Greenstone - quartz-calcite threads - 1" quartz streaks at 74.3, 2" streak at 74.9, 5" streak at 76.0 and 1" streak at 77.0 - weak to medium mineralization.
80.0	07	0.80	3.0		Greenstone - sheared 70° - quartz-calcite threads - weak to medium pyrite.
83.0	08	Trace	3.0		Greenstone - sheared - 70° - occasional red aplite streaks - streaks pyrite - weak mineralization.
84.6	09	Trace	1.6		Greenstone - sheared - weak pyrite.
86.1	10	Trace	1.5		Greenstone - 1/2" quartz ribbons 2" apart - weak to medium pyrite.
89.2	11	0.40	3.1		Diorite - weak shear - calcite threads - occasional streaks pyrite.
91.2	12	Trace	3.0		Diorite - medium shear - calcite threads - 1/2" quartz - weak mineralization.
95.5	13	0.80	4.3		Diorite - reddish patches weak streaks pyrite - calcite threads.
99.2	14	Trace	3.7		Diorite - calcite threads - weak pyrite.
100.9	15	Trace	1.7		Diorite - weak pyrite.
104.0	16	Trace	3.1		Diorite - shear - 75° - calcite streaks, weak pyrite.
107.4	17	Trace	3.4		Diorite - occasional calcite thread - weak pyrite.
108.7	18	0.40	1.3		Diorite - sheared - weak to medium pyrite - 1/2" quartz at 108.4.
112.7	19	0.40	4.0		Diorite - calcite threads - very weak pyrite.
117.5	20	5.60	4.8		Diorite - quartz-calcite streaks - weak pyrite.
121.3	21	Trace	3.8		Syenite porphyry - red - quartz streaks - weak pyrite mineralization near contact.
141.2					Syenite - occasional quartz streaks - fades from porphyry to normal syenite.

End of Hole.

SLUDGE SAMPLES

10 - 20	Trace	70 - 75	Trace	100 - 110	0.40
20 - 30	Trace	75 - 80	0.80	110 - 120	Trace
30 - 40	Trace	80 - 85	0.40	120 - 125	Trace
40 - 50	Trace	85 - 90	Trace	125 - 130	Trace
50 - 60	Trace	90 - 95	Trace	130 - 135	Trace
60 - 70	Trace	95 - 100	Trace	135 - 140	0.40

ERIE CANADIAN MINES LTD.

PROPERTY Golden Arrow Property (429)

HOLE NO. 13

LOCATION _____ PURPOSE _____ DRILLED BY <u>Heath & Sherwood</u> LOGGED BY <u>G. L. Holbrooke</u> DATE STARTED _____ DATE FINISHED _____ CORE RECOVERY _____	BEARING <u>S 17° 05' E</u> DIP <u>35°</u> CO-ORDINATES - N <u>1148.8</u> S _____ E <u>1284.5</u> W _____ ELEV. _____ DIP TESTS _____ BEARING TESTS _____
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FOOTAGE	SAMPLE NO.	VALUE	WIDTH	AV.	ROCK
0.0	-----	-----	-----	-----	Collar.
13.0	-----	-----	-----	-----	Casing.
19.0	-----	-----	-----	-----	Diorite - coarse-grained.
21.8	-----	-----	-----	-----	Lost core.
24.2	-----	-----	-----	-----	Diorite - coarse-grained.
28.4	C70180	0.80	1.2	-----	Diorite - coarse-grained - aplite streaks - weak pyrite.
31.5	-----	-----	-----	-----	Diorite - medium to coarse-grained.
32.0	C70181	Trace	0.5	-----	Diorite - medium-grained - aplite streaks - medium to strong pyrite.
33.0	82	0.40	1.0	-----	Diorite - medium-grained aplite streaks - weak pyrite.
40.0	-----	-----	-----	-----	Diorite - fine-grained - occasional weak pyrite streaks.
41.5	C70183	1.20	1.5	-----	Diorite - fine-grained - quartz-aplite streaks - weak to medium pyrite.
43.1	84	1.50	1.6	-----	Diorite - fine-grained - aplite streaks - medium pyrite.
47.0	-----	-----	-----	-----	Diorite - fine-grained.
48.0	C70185	0.40	1.0	-----	Diorite - fine-grained? shear @ 80° - aplite-pyrite streaks.
49.5	-----	-----	-----	-----	Diorite - fine-grained?
50.4	C70186	0.40	0.9	-----	Diorite - medium-grained - aplite-quartz streaks - medium pyrite.
51.0	87	Trace	0.8	-----	Diorite - fine-grained - very weak pyrite.
54.5	88	0.80	3.3	-----	Diorite - medium to fine-grained - quartz and aplite streaks - medium pyrite.
59.5	89	Trace	5.0	-----	Diorite - medium to fine-grained - occasional quartz streaks - very weak pyrite.
65.0	90	0.40	5.5	-----	Diorite - medium to fine-grained - occasional quartz streaks - very weak pyrite.
70.0	91	Trace	4.5	-----	Diorite - medium to fine-grained - reddish aplite streaks - weak pyrite.
73.8	92	0.80	8.8	-----	Diorite - medium to fine-grained - reddish aplite streaks - weak pyrite.
73.9	93	Trace	2.8	-----	Quartz.
76.5	-----	-----	-----	-----	Diorite - fine-grained - aplite streaks - medium pyrite.
76.7	-----	-----	-----	-----	Quartz.
78.2	C70194	1.20	1.6	-----	Diorite - fine-grained - aplite streaks - medium to strong pyrite.
80.2	95	Trace	2.3	-----	Diorite - fine-grained - occasional quartz streaks - very weak pyrite.
83.0	96	0.40	2.8	-----	Greenstone - Sheared @ 70° - aplite streaks - weak pyrite.
87.0	97	2.00	4.0	-----	Greenstone - sheared @ 70° - aplite streaks - medium to strong pyrite.
93.0	98	Trace	5.0	-----	Greenstone - sheared @ 70° - occasional aplite streaks - weak pyrite.
101.0	-----	-----	-----	-----	Diorite - medium-grained - very weak shear.
104.8	C70199	0.40	3.8	-----	Diorite? - alteration streaks - aplite streaks - weak to medium pyrite.
106.5	200	Trace	1.7	-----	Diorite - medium-grained - aplite streaks - weak pyrite.
141.3	-----	-----	-----	-----	Diorite - medium-grained - occasional quartz streaks - weak to medium pyrite. 1/8" quartz @ 127.
149.0	-----	-----	-----	-----	Diorite - fine-grained? Greenstone? sheared @ 50° - occasional quartz and epidote streaks - weak to nil pyrite.
149.8	-----	-----	-----	-----	Diorite - medium-grained - no mineralization.

End of Hole.

SLUDGE SAMPLES

13 - 20	Trace
20 - 25	0.40
25 - 30	Trace
30 - 35	Trace
35 - 40	0.40
40 - 45	0.80
45 - 50	Trace
50 - 55	Trace
55 - 60	Trace
60 - 65	0.40
65 - 70	Trace
70 - 75	Trace
75 - 80	0.40
80 - 85	2.00
85 - 90	0.40
90 - 95	0.40
95 - 100	Trace
100 - 105	Trace
105 - 110	Trace
110 - 115	Trace
115 - 120	0.40
120 - 125	Trace
125 - 130	Trace
130 - 135	Trace
135 - 140	Trace
140 - 145	Trace
145 - 149	Trace

ERIE CANADIAN MINES LTD.

PROPERTY Golden Arrow (429)

HOLE NO. 35

LOCATION _____ PURPOSE _____ DRILLED BY <u>Heath & Sherwood</u> LOGGED BY <u>G. L. Holbrooke</u> DATE STARTED _____ DATE FINISHED _____ CORE RECOVERY _____	BEARING <u>S 15° 30' W</u> DIP <u>40°</u> CO-ORDINATES - N <u>1094.9</u> S _____ E <u>2018.0</u> W _____ ELEV. _____ DIP TESTS _____ BEARING TESTS _____
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FOOTAGE	SAMPLE NO.	VALUE	WIDTH	AV.	ROCK
0.0	---	---	---	---	Collar.
4.0	---	---	---	---	Casing.
23.0	---	---	---	---	Diabase - coarse.
26.0	C71701	0.40	3.0	---	Greenstone - occasional epidote streaks - pyrite streaks - medium mineralization.
33.8	---	---	---	---	Greenstone - no mineralization.
35.1	C71702	0.80	1.3	---	Greenstone - occasional aplite streaks - quartz streaks - weak to medium pyrite.
55.0	---	---	---	---	Greenstone or fine diorite.
81.0	---	---	---	---	Diorite - medium-grained.
81.8	---	---	---	---	Diorite - medium-grained - reddish streaks.
82.5	---	---	---	---	Quartz - weak pyrite mineralization.
83.3	C71703	0.80	2.3	---	Diorite - medium grained - reddish streaks.
87.1	---	---	---	---	Diorite - fine-grained - very weak pyrite.
87.4	C71704	0.40	4.1	---	Syenite porphyry - weak pyrite - quartz streaks.
96.5	---	---	---	---	Diorite - medium-grained.
114.0	---	---	---	---	Red syenite.
115.1	---	---	---	---	Diorite - altered.
118.1	C71705	0.40	3.0	---	Diorite - medium-grained - quartz streaks - epidote streaks - weak pyrite.
119.4	06	0.40	1.3	---	Diorite - quartz streaks - 20° to core - weak pyrite.
121.5	---	---	---	---	Diorite - medium-grained - occasional quartz streaks.
125.0	C71707	Trace	3.5	---	Diorite - medium-grained - reddish aplite streaks - weak to medium pyrite.
129.0	---	---	---	---	Diorite - fine-grained? (greenstone) weak shear @ 70°.
132.0	C71708	Trace	3.0	---	Diorite - fine-grained? (greenstone) aplite streaks - weak to medium pyrite.
135.9	09	Trace	4.9	---	Diorite - fine-grained? (greenstone) very occasional aplite streaks - weak to nil pyrite.
138.4	10	2.40	1.5	---	Aplite greenstone - breccia - streaks pyrite.
141.9	11	Trace	3.5	---	Diorite - fine-grained - occasional aplite streaks - medium pyrite.
145.5	12	Trace	4.6	---	Diorite - medium to fine-grained - very occasional aplite streaks - quartz streaks - weak pyrite.
147.0	---	---	---	---	Syenite porphyry --
155.6	---	---	---	---	Diorite - fine to medium-grained - occasional syenite porphyry streaks - quartz streaks - very rare aplite str. weak to nil py
169.2	C71713	0.40	2.6	---	Diorite - fine to medium-grained, aplite streaks - weak to medium pyrite.
168.2	---	---	---	---	Syenite - quartz streaks.
169.2	---	---	---	---	Diorite - aplite streaks - medium pyrite.
171.2	C71714	2.00	3.0	---	Syenite - no mineralization.
175.0	15	Trace	3.8	---	Diorite - medium-grained - occasional aplite streaks - very weak pyrite.
177.0	---	---	---	---	Diorite - altered - quartz streaks - aplite streaks - medium pyrite.
177.5	---	---	---	---	quartz - medium pyrite.
178.5	C71716	0.40	2.5	---	Diorite - plus 80° aplite streaks - medium to strong pyrite.
180.0	---	---	---	---	Diorite - altered (grey) epidote streaks - very occasional aplite streaks - weak to nil pyrite.
181.1	---	---	---	---	Syenite - no mineralization.

End of Hole.

SLUDGE SAMPLES

5 - 10	
10 - 15	
15 - 20	
20 - 25	
25 - 30	
30 - 35	
35 - 40	Trace
40 - 45	Trace
45 - 50	Trace
50 - 55	Trace
55 - 60	Trace
60 - 65	Trace
65 - 70	Trace
70 - 75	0.40
75 - 80	Trace
80 - 85	Trace
85 - 90	0.40
90 - 95	Trace
95 - 100	Trace
100 - 105	Trace
105 - 110	Trace
110 - 115	Trace
115 - 120	Trace
120 - 125	Trace
125 - 130	Trace
130 - 135	Trace
135 - 140	0.80
140 - 145	Trace
145 - 150	Trace

Sylvanite Gold

(NO PERSC

42A08NW8814 63.3096 HISLOP



300 ERIE CO.
BUFFALO, N. Y.

900

January 10,
1935.

Mr. G.L.Holbrooke, Superintendent,
Erie Canadian Mines, Ltd.,
c/o Sylvanite Gold Mines, Ltd.,
Kirkland Lake, Ontario.

Re: Birch Option

Dear Mr. Holbrooke:

Very briefly, it seems to me that if the further assays are still high-grade, we should be warranted in paying \$500.00 to investigate this situation. The chances are that drilling or other further work will convince us that the property should be dropped, that the payment is not large and there is at least a chance of finding something here.

After making the payment, if we do not like the claim, perhaps we could assign our option to the Jones people and get something back.

Yours very truly,

Managing Director.

WVM:e

January 8, 1935.

Mr. W. V. Moot, Managing Director,
Erie Canadian Mines Limited,
300 Erie County Bank Building,
Buffalo, N. Y.

Dear Mr. Moot:

Enclosed please find a copy of a memo of a conversation between Mr. Tom Montgomery and myself.

As you know, Mr. Montgomery has been active for many years in various prospecting and mining enterprises. I have known him well for several years, and see no reason why his statements to me should not be reliable.

Possibly you may be able to gather a little information concerning this property down in Buffalo.

The work on the Birch option is now completed, and we will have the assay returns by Thursday or Friday. Birch has granted us an extension of our first payment until the fifteenth.

When we get the assays plotted, I will probably phone you about this property.

My own feeling is, on one hand, that this property does not warrant further work. On the other hand, I do not like the thought of someone else taking up our option, putting in a drill hole under our small high-grade patch, and possibly finding a sizeable ore-body. At the same time, interest is still keen in this district, and Birch would have no trouble finding another optionee who would probably follow up the procedure I have outlined.

The Jones Syndicate, holding the lot immediately to the west, are now building extensive camps.

In view of the fact that a \$500 payment will hold this ground for us until May 6, I am tempted to suggest that we make this payment, in spite of the meagre showings.

Yours very truly,

ERIE CANADIAN MINES LIMITED



Superintendent

GLH/D
Encl.

Sylvanite Gold Mines, Limited

(NO PERSONAL LIABILITY)

300 ERIE CO. BANK BUILDING

BUFFALO, N. Y.

January 5, 1935

Mr. George L. Holbrooke
Superintendent
Erie Canadian Mines, Limited
Kirkland Lake, Ontario
CANADA

Re: Birch Claims

Dear Mr. Holbrooke:

As I recall it, there is a payment due January 6th if we are to hold these claims. I am content to leave it to you to decide whether to make this payment because I agree with you that the situation in this locality is not very favorable and that values, even when found, are likely to be very spotty and of small extent and not worth mining. At the same time, I realize that the work you have done since I was up there may warrant continuing the option.

Yours very truly

SYLVANITE GOLD MINES, LIMITED

BY

Welles J. Inroat
Managing Director

WVM:SHK

Kirkland Lake,
December 21, 1934.

Mr. W. T. Birch,
Vimy Ridge, Ontario.

Dear Mr. Birch:

On account of Alex Smith demanding possession of his camp, this move disorganizes our whole crew at a critical moment, when we were making every effort to try and have the necessary information that would guide us in future operations on your property. We spread the work over as large an area as possible where we thought the chances were the best. Unfortunately the long list of two hundred and four channel samples were all nil with the exception of about ten samples taken from the trench between No. 4 and No. 5 diabase dykes. You thoroughly understand the effort we have made in trying to pick up a showing of merit on your property. Weather conditions all fall made conditions practically impossible for us to get the information that a company has to have before making the payments called for in option. All we are asking is a reasonable chance to try and prove the section to the west, where values were secured.

Now, Mr. Birch, I feel that you have played the game square with us from the very start, and we have with you and will continue to do so. If it should be necessary for the Erie Canadian Mines Limited to ask you for a short extension of time, I feel that you will be well advised to give it to them, and we will make every possible effort to give your property the try-out it deserves.

Hoping these suggestions meet with your approval,
I remain,

Yours truly,

D. A. Campbell,
on behalf of Erie Canadian Mines.

Wishing you all a Merry Christmas and a
Happy and Prosperous New Year.

SYLVANITE GOLD MINES, LIMITED

E-C

ASSAY SHEET

From *General* Date *Dec 17*

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
<i>D33328</i>	<i>Special Jordan Birch Property Check</i>	<i>Reject</i>	<i>1.60</i>
<i>29</i>			<i>71.60</i>
<i>29</i>		<i>Pulp</i>	<i>72.10</i>
<i>36</i>		<i>Reject</i>	<i>3.60</i>
<i>D33173</i>	<i>Special Campbell Birch Property Check</i>	<i>Reject</i>	<i>8.50</i>
<i>76</i>			<i>1.20</i>

From *General* Date *Dec 17*

SAMPLE NO.	DESCRIPTION	WIDTH	VALUE PER TON
<i>D33173</i>	<i>Special Campbell Birch Property</i>		<i>8.50</i>
<i>71</i>			<i>1.10</i>
<i>74</i>			<i>1.10</i>
<i>76</i>			<i>6.60</i>

[Signature]
Assayer

Kirkland Lake, Ontario.
December 17, 1934.

Mr. Vick Jordan,

Ramore, Ontario.

Dear Vick:

You will have work already planned cleaned up and your sampling done before the end of this week. Pack up all the camp outfit and check it over and store it Mr. Birch's. Make a list of tools on the job, and do not order too heavy a list of supplies, just sufficient to finish the job. Pack the blankets and leave them at Birch's some place where they will be protected.

DAC
D. A. Campbell

For Erie Canadian Lines Ltd.

Kirkland Lake,
December 14, 1934.

Mr. Vick Jordan,
Ramore, Ontario.

Dear Vick:

I wrote you a couple of days ago, regarding re-checking of certain samples in trench between No. 4 and 5 diabase dykes. You will know by your plans and sample book just where they came from. Now, as this trenching program is getting nearly completed, I feel that it would be advisable to trench west of No. 5 diabase dyke. If this trench is put East and West across the old winter road, we should get some information that will have some bearing on future operations. My object in suggesting this trenching to the west, is that we are working toward the swamp where the diabase dykes are more widely spaced. After you go west of No. 5 dyke on the Birch property, there is no sign of any more dykes till you get well towards the west side of the Vahey property--this is over $\frac{3}{4}$ of a mile to the west. It will be in this section where the Jones vein occurs and also where any veins of the West Veir Vet are most likely to be, with a north-easterly turn, and I feel that the most likely place to find ore, if there is any in that section. This is pretty well proven by the sampling on the Birch property. The only place we got any values at all encouraging was to the west side of the property. Start your trench where the quartz float showed on the surface. There is a considerable stretch of fairly high ground at this point. Continue the trench west as far as possible. Then we will decide what will be done later on.

Hoping these suggestions meet with your approval, I remain,

Yours truly,

D.A.C.
D. A. Campbell,
for Erie Canadian Mines Ltd.

P. S. Sample when this trench is finished.

D.A.C.

Vern *Redge*, Ontario
October 6, 1934

Erie Canadian Mines, Limited,
Kirkland Lake, Ontario.

Gentlemen:

In consideration of Three Hundred and Twenty Dollars (\$320.00), the receipt whereof is hereby acknowledged, I give you a sole and exclusive option to purchase surface and mineral rights in my farm property, being North half of Lot 10, Concession 1, Township of Hislop, District of Cochrane, in the Province of Ontario, on the following additional terms:

1. I am to deposit, within fifteen days from this date, with The Canadian Bank of Commerce, Kirkland Lake, *Documents of Transfer now in my possession until such time as patent is issued* Ontario, good transfers of the above farm property, free and clear, and the Bank will hold the transfers and deliver them to you when the final payment is made, or give them back to me whenever you fail to make a payment.

2. To keep this option in force, you must pay me at The Canadian Bank of Commerce, Kirkland Lake, Ontario, the following sums on the following dates:

Five Hundred Dollars on or before January 6, 1935
Two Thousand One Hundred and Eighty Dollars (\$2180.00) on or before May 6, 1935
Four Thousand Dollars (\$4000.00) on or before October 6, 1935
Four Thousand Dollars (\$4000.00) on or before February 6, 1936
Nine Thousand Dollars (\$9000.00) on or before June 6, 1936
Ten Thousand Dollars (\$10,000.00) on or before October 6, 1936.

3. Ninety days after the last payment is made as above specified, and the properties turned over to you, I am to

receive ten per cent (10%) of the shares of stock set aside for the purchase of my property by a company of not over three million (3,000,000) shares, and not over One Dollar (\$1.00) par value, to which company it is understood you will transfer this property.

4. You are to have the usual rights to work the property, and we are to sign, within fifteen days from this date, an option agreement on the above terms and in all other respects on your usual form of option agreements.

*in the event of one Canadian bond making all payments before Ref. date due
W. J. Birch is to receive 6 months notice
for removal of his farm equipment*

W. J. Birch

Dated: October 6, 1934

Mrs W. J. Birch

Witness:

R. J. Birch

3

7

ERIE CANADIAN MINES LIMITED

NO PERSONAL LIABILITY

HEAD OFFICE

KIRKLAND LAKE, ONT.

P. O. BOX 525

PLEASE ADDRESS ALL CORRESPONDENCE TO THE COMPANY, NOT TO INDIVIDUALS

October 3, 1934.

Mr. C. E. Rodgers, Manager,
Sylvanite Gold Mines Limited,
Kirkland Lake, Ontario.

Dear Sir:

I have gathered considerable information from the diamond drillers on the J. Jones Property, N $\frac{1}{2}$ Lot 11, Concession 1, Hislop township. When I was on the Jones Property, the Drill Hole was down to a depth of 760 feet. 60° at 484 feet, the drill cut between 12 and 14 feet of syenite porphyry and quartz, heavily mineralized. This vein is striking north-east and dipping south 80°. This vein will not cross any portion of W. T. Birch property. But owing to the developments on the Jones Property and on the J. Weir and F. Weir Vets to the south. Now, while my report in August was not favourable owing the wide field of formation covered by wide diabase dikes and syenite formations covering a considerable portion on the south side of the property, on the west side of the Birch property there is quite a wide spruce swamp. This same swamp covers a considerable portion of the south-east corner of the Jones Property. Owing to developments on the west and south, the Noranda Mines have a crew of six men working on the J. Weir property. I feel that although our surface assays were too low to be of commercial value, they were just surface samples when practically no work had been done. The Noranda mines and the Macassa mines have been trying to option the Birch Property. I feel that the payment of \$320.00 is justified owing to the developments on the surrounding properties, and it will give us sufficient time to do a little work and resample.

(Signed)

D. A. Campbell.

D. A. C.

Aug 7/34

Agreement between J. J. Bell on behalf of Erie Canadian Mines Ltd
W. J. Birch of Province ont N 1/2 Sec 10 Con 1 N 47. W. P.

I have by agreement to extend an agreement drawn
up Aug 7/34 till Aug 27/34 on payment of Twenty
Five Dollars, & all payments specified to be extended
Ten days ahead. Payment of Twenty Five Dollars which
is hereby acknowledged

Witness

J. J. Bell

W. J. Birch
Mrs W. J. Birch

Kamrose Aug 7th 1934

FILE IN VAULT

153

Letter of agreement, dated this 7th day of August 1934
Between D. A. Campbell on Behalf Erie Canadian Mines Limited
& W. T. Birch, Owner of N 1/2 Lot 10 Const 11120 T.W.P.
In Consideration of Payment of one Dollar of Lawful money of Canada
I hereby agree to give Ten days from date of this letter for drawing up
Drawing up of final Option

17 of August 1934	\$ 500.00
17 of September 1934	\$ 500.00
17 of January 1935	\$ 2000.00
17 of May 1935	\$ 4000.00
17 of September 1935	\$ 4000.00
17 of January 1936	\$ 9000.00
17 of May 1936	10,000.00

& 10% interest in stock of company to be formed, 10% interest to be set
Stock set aside for purchase price of this property. Ours to hold agricultural
Rights & Buildings until bond & stock is paid in full. if claims are found
across any portion of this property the Company has full & exclusive Rights
for mining operations on any part of this property. If the Company should decide
on making payments in full before specified dates in Option.

Mr. W. T. Birch Requires from Company 6 months notice for Removal
of Chain & Hog crops & Stocks. The usual clauses covering Lease etc to
be embodied in final Option to be drawn up as soon as Reasonably possible
before Aug 16th 1934 W. T. Birch further agrees to put all the necessary titles in
His possession in Escrow in the Bank of Commerce in Kirkland Lake Ont

& when Patent deal is granted to Him to Deposit Deal in Escrow
Witness *George Pearson* W. T. Birch
Mrs W. T. Birch

(C O P Y)

Letter of agreement dated this seventh day of August, 1934, between D. A. Campbell, on behalf of Erie Canadian Mines Limited, and W. T. Birch, Owner of N 1/4 lot 10 Concession 1 Hislop township. In consideration of payment of one dollar of lawful money of Canada, I hereby agree to give ten days from date of this letter for sampling and drawing up of final Option.

17th of August, 1934	\$ 500.00
17th of September, 1934	500.00
17th of January, 1935	2,000.00
17th of May, 1935	4,000.00
17th of September, 1935	4,000.00
17th of January, 1936	9,000.00
17th of May, 1936	10,000.00

and 10% interest in stock of Company to be formed. 10% interest to be amount of stock set aside for purchase price of this property. Owners to hold agricultural surface rights and buildings until cash and stock is paid in full. If veins are traced across any portion of this property the company has full and exclusive rights for mining operations on any part of this property. If the company should decide on making payments in full before specified dates in option, Mr. W. T. Birch required six months notice for removal of grain and hay crops and stock. The usual clauses covering liens, etc. to be embodied in final option to be drawn up as soon as reasonably possible before August 16, 1934. W. T. Birch further agrees to put all the necessary titles in his possession in escrow in the Bank of Commerce in Kirkland Lake, Ontario and when patent deed is granted to him to deposit deed in escrow.

Witness:

118 / Memo Re. J. G. Miles X

along with Renewal Young
Working Option 6 weeks
1st Payment 500⁰⁰
Aug 1/34

Total Price \$50,000⁰⁰
with 10% Interest
Payments spread over 3 years
Renewal - Young,
J. G. Miles,
Miles
to the Nat. Agent

June 9/34

No Agreement made.
Permission given
to Salvant to do
whatever sampling
they wished.

J. G. Miles 3 claims - State
Renewal 2 " - Pat.
Geo Young 4 " Homestead

118

Pluvante Gold Mines Ltd
Kirkland Lake, Ont.

Vein Ridge
Ont.
June 23/1934

~~115~~ 115

Gentlemen,

Re your offer of Fifty Thousand dollars and a ten per cent interest for the mining claims situated on Lots 12 and 13, Con. 1, Hishop Township, owned by
H. Miles, J. G. Rennie, and G. Young.

We the undersigned agree to accept as our share of the above mentioned sum: Thirty Thousand dollars (\$30,000.00) together with interest in proportion thereof payable as follows:

1934.	Aug. 15 th	\$ 2500.00
	Nov. 15 th	500.00
1935.	Feb. "	500.00
	May. "	500.00
	Aug. "	1000.00
1936.	Nov. "	1000.00
	Feb. "	2000.00
	May. "	4000.00
	Aug. "	4000.00
1937	Nov. "	5000.00
	Feb. "	5000.00
	Aug. "	6250.00
		<u>30000.00</u>

Yours very truly
J. G. Rennie
George Young

advising that these payments
 may meet with your approval.
 they will be divided equally between
 us until the final payment.
 Then "G. Young" shall receive \$3,925⁰⁰.
 J. G. Rennie, \$2,325⁰⁰ and all interest
 allotted in this sale.

Yours very truly

signed: Thos. G. Rennie

George Young

118

P. C. MILLER
CLAIMS
file # 115
HISLOP TWP.
Ranmore June 9th 34 T-47

FG. MILLER

Mr. C. E. Rodgers

Sylvanite Gold Mines

Dear Sir

Kubland Lake Ont

inclosed please find sampling sketch
 of J. S. Miles Property 12-13 Hislop T.W.P. I am going out
 to-morrow morning, to look the Vincent claim over &
 Resample if I can get the 16' shaft emptied. The weather
 makes things bad for sampling, & also reasons of transportation
 is impossible, just when it is needed for to have
 a lot of lost time. I am expressing Miles samples on Monday
 if this Miles Property & the two farms North & the 80 acres
 to the west could all be tied up in a reasonable deal, then
 it would probably be worth a try out of at least some surface
 work, How ever the assays will be the best indicator of
 what is best to do in the way of a deal, The Hollinger have
 two men bustling all around the country sampling every
 thing whether they have permission of owners or not, Gibson
 told me that they were trying around every prospect in Hislop Twp.
 & he also told me that the strike was North East & dipping 40° South
 He is probably right, but there was considerable Bux bank of it all,
 Bill Murdoch & J. S. Bigham, are to be in to the Property, Tuesday
 for a final decision, after I get every thing straightened up here, I will
 go to Burkess & check up on this Wickstead Property in Middle T.W.P.
 or anything else I may hear of that is worth while, if needed I will be in
 this section till Tuesday Ranmore^{PO} will get me.

Hoping this will be OK I remain yours truly

D. Campbell
Ranmore Ont

11
Ma. B. E. Rodgers

Bygonite Gold Mines

1100 St. ... Kirkland Lake Ont

Dear Earl

I arrived here about 2:30 yesterday afternoon, but could not get a taxi, to go to Miles Property which is about five miles from Rosseau. This morning I got the School Teacher to drive me up to Long Ridge where Miles lives on his farm, when I arrived, Young Miles told me that he would have to see his father who is at present living in Swastika before he could do any business in the way of getting Price or signing Option. Then I went out to the claims with Young Miles & travelled them as closely as possible, going over the Rock outcroppings thoroughly. By the time we got started in the morning the whole day was practically gone & it started to rain about 3:30 I came on to Rosseau & decided the best thing for Young Miles to do would be to go to Swastika & get his father & go from there to the mine & get the Option signed up by the both of them while there. Tomorrow morning I will go out to Miles Property & give it a thorough re-sampling. Then send the samples on for assay. After this I will go out to the Vincent Property & re-sample it again & get all available information on the surrounding Properties if Vincent is reasonable in his price & a group of claims sufficient to get strike & dip can be secured, then I will tie him up, if this cannot be done I will for ward samples, then look over the West side group in the Twp. Now regarding those three claims of Miles, the assays probably justify doing a little work for there is practically nothing done, but in the event of any thing being found. it would be absolutely necessary to have an Option on the Long Farm & also on the T.J. Peahy Farm. You will see by inclosed sketch from approximate measurements, that the Miles claims

are too close to their North Boundary line, James Miles told me that
His Father - could secure an option from Geo. Young for a very small
Price, if this can be done it will protect the Northern dip of the Vein
on Claim 24663. But it would also be necessary to have T.J. Fisher
Tied up as His Farm Property lies due North of 24662-24661.

How ever when we get the Rechecking of assays, then we will be in a
better Position to decide, The vein on the East side of Diabase
dyke on claim 24661 is badly broken & split up in shingles, this vein
can not be definitely traced until there is more work done & picketed out.

I believe there can be a easy deal made with Miles, that is what
the Boy told me, it will have to be Easy Terms for other wise
a Company is just doing the assessment work for a ungrateful
Squaw of Prospectors, Miles may be the exception to the Rule.

Well I will shoot samples along as soon as possible &
if sufficient valuable information can be secured Re Hallen's
Option I may come to the Office after looking over & sampling the Vein.

Hoping this meets with your approval

I Remain Yours Truly

D. Campbell

Remore Oms

Ramore, May 25, 1934.

F. G. Miles, Hislop Township
D. Chalmers, Carr Township

I am forwarding eleven samples of F. G. Miles property, Lots 12 and 13, Hislop Township. I found some old pits where a few shots had been put in a good many years ago, and a few shots this last winter, but no trenching done to determine what the veins may amount to. This part of the township is well fractured by a diabase dike, about 200 feet wide, with basalt on the North-west side and syenite on the South-east. But as there is no useful work done, it is hard to say what it may amount to. If the assays give a kick worth while, then we will have some guide as to whether or not it is worthy of further investigation. Every one of these wild-cat prospects is an assessment work proposition, and unless assays justify taking an option, money can be saved by paying no further attention to this wild-cat correspondence.

I lost all day yesterday trying to locate this man, F. G. Miles. I mailed a letter to Vimy Ridge on last night's train, and young Miles called for me this forenoon. I finished sampling about 3 o'clock, and by the time I got to Ramore, it was too late to start on the trip to Guibord Township. I am leaving here in the morning and will be back in a couple of days. While in there I will sample this Doonan and McDonough Property and get any other dope I can on this section of the country.

Enclosed you will find sketch of sampling D. Chalmers' Property, Carr Township, and also sampling sketch of F. G. Miles property in Hislop Township.

DAC
D. A. Campbell.

Sylvanite
File
#429

November 5, 1937.

Mr. O. E. Kristensen,
Box 1019,
TIMMINS, Ontario.

Dear Mr. Kristensen:

Enclosed please find copies of the logs for diamond drill holes numbers 1, 2, 5, 5X, 6, 9, 13 and 35, together with a short explanatory note covering the drilling. Also please find a geological sketch map showing roughly the rock distributions as we interpret them on surface. This sketch map also shows the location of the collars of the holes. The reason for hole numbers 5 and 5X being so close together is that hole number 5X was lost at a footage of 84.8, due to a bit jamming in the hole.

You will understand that this drilling which we have done was merely a substitution for surface trenching which, due to the condition of the rock near surface, would have been very expensive. Of course, we have not investigated the possibilities of the "ore zone" at depth, as from the results of our drilling, we do not believe that we would be justified in so doing. However, as in most properties, there is a possibility, of course, that deeper work would show something of interest.

This will, therefore, serve as formal notice of our abandonment of the option between Golden Arrow Mining Company and Erie Canadian Mines Limited.

With reference to our use of the camp and Golden Arrow equipment during our stay there, Mr. McDermott is complaining about several articles which have been lost. These are listed below:

- 1 Striking Hammer
- 1 Handle
- 1 Stilson Wrench
- 1 Oil Lantern
- 1 5-gal. Oil Can
- 2 Flannelette Blankets

T-47

The first five items, I am sure, were inadvertently removed by the diamond drillers when they left. I have made inquiry regarding this of the drill contractor and will let you know as soon

Mr. O. E. Kristensen, November 5, 1937, Page 2.

as I hear from him. With regard to the two flannelette blankets, if you will let us know the value of these, we will be glad to send you a cheque to cover this amount.

In order that there may be no misunderstanding at a later date, following is a list of materials sent to a laundry in Remore for cleaning. This laundry was selected by Mr. McDermott.

22	Single Blankets
9	Flannelette Blankets
16	Pillow Slips
7	Cotton Sheets
5	Roller/Towels
6	Flat Towels
1	Bed Spread

The laundry charges on these have been paid in full, the amount of \$10.85. Arrangements have been made with Mr. Lauzon at Remore to deliver the laundry when it is finished. This service has been paid for.

Enclosed please find the key to the bunkhouse.

Should we be able to assist you in any way with regard to this property, please let us know.

Yours very truly,

ERIE CANADIAN MINES LIMITED,
(No Personal Liability)

P.A.M.

Superintendent.

GLH:MO
Encls.

C.C. - P. A. McDermott

T-47

October 25, 1937.

Mr. W. V. Moot, Managing Director,
Eric Canadian Mines Limited,
209 Erie County Bank Building,
BUFFALO, New York.

Re: Golden Arrow

Dear Mr. Moot:

The two holes discussed with you on your last visit here have been completed, number 15 100 feet east of number 9, and number 35 on the edge of the swamp to the east of the large discharge pipe. You will remember that this latter place was where Dan obtained a 10 dwts. assay across 2 1/2 feet on a vein running at an angle to the main shearing.

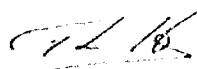
Neither of these holes showed anything of interest beyond a 2 dwts. assay over 2 feet in hole number 35 and accordingly I am notifying the owners that we are abandoning the option. This I believe was your wish should neither of these holes show anything of interest.

Personally I am in complete agreement with this action, as the results of the drilling seem to indicate that what values are present are localized in small erratically distributed pods and, therefore, are not mineable at the grade indicated.

T-47

Yours very truly,

ERIE CANADIAN MINES LIMITED,
(No Personal Liability)



Superintendent.

GIM:MO

429

September 25, 1937.

Mr. W. V. Moot, Managing Director,
Eric Canadian Mines Limited,
319 Erie County Bank Building,
BUFFALO, New York.

Re: Golden Arrow

Dear Mr. Moot:

I visited this property yesterday and logged and sampled the remainder of hole #2. They are at present working on hole #6 and have just encountered rock at a vertical depth of 30 feet. Hole #6 should be completed by Monday.

Hole #9 showed only one assay of interest from 112.7 to 117.5; This sample showed 5.60 dwts. This area lies in the greenstone at the syenite contact. Hole #2, drilled 50 feet west of #1, showed only one assay from 106.5 to 109.5, 2.40 dwts. across 2.8 feet.

It is beginning to look as if the values are occurring as short irregular pods in the shearing. Of course, we have not as yet enough information to prove this, but if hole #6 does not yield interesting results, I plan to move the drill to another showing about 1000 feet east where a very strong and well mineralized quartz vein previously gave us an assay of 11.20 dwts. across 3 feet. One or two holes here should show whether or not this showing will warrant further work. In addition, in the northeast corner of the property occurs the extension of the Viny vein. On surface this has yielded values from grab samples up to \$12.00 and should, I believe, warrant one or two holes.

I am preparing a sketch map of the surface geology and will forward it to you as soon as it is completed.

T-47

Yours very truly,

ERIC CANADIAN MINES LIMITED,
(No Personal Liability)



Superintendent.

GLM:MO

September 18, 1927.

Mr. W. V. Moot, Managing Director,
Eric Canadian Mines Limited,
319 Eric County Bank Building,
BUFFALO, New York.

Re: Golden Arrow

Dear Mr. Moot:

To date holes #1, 2, 5, 5x, and 9 have been completed. As you know hole #1 was drilled under the showing where Campbell got the 4.70 dwts. across the 15-foot average. This hole, as reported, showed one assay of 8.80 dwts. across 3 feet with bordering low grade material which gave an average of 3.50 dwts. across 17.2 feet. Hole #5x was next drilled 111 feet east of #1. This hole was lost at 84.8 feet and from 60 to the end of the hole the core was sheared and well mineralized. However, this hole did not give any good returns, the only value of interest was from 76.5 to 76.9 which assayed 6.80 dwts. After the hole was lost, hole #5 was drilled 1.5 feet farther east and parallel. This hole was stopped at 155.4 feet in syenite. This hole showed well mineralized and sheared material from 54 to 80 feet. From 100 to 151 feet were numerous streaks of well mineralized material up to 2 feet in width. The assays from hole #5 are not all in as yet, but so far the only material which returns any values of interest at all was from 70.5 to 73.5, 3.20 dwts.; 73.5 to 74.0, 4.00 dwts.; 104.0 to 106.0, 7.60 dwts.; from 144.0 to 145.0, 3.20 dwts. Four samples are not yet received. These samples covered from 145.0 to 155.4.

The remaining two holes were logged and sampled yesterday and it will be Monday at the earliest before the assay returns are received. Hole #9, located 200 feet east of #1, showed sheared mineralized material from 67.4 to 91.2 and from 108 to 117. The hole ended in syenite at 141.2.

An attempt was made to drill hole #4 100 feet west of #1, but the overburden here was too deep for the flat hole as laid out so this was abandoned and hole #2 was drilled. This hole is located 50 feet west of #1. This hole showed well mineralized material from 20.5 to 22.5 which appears to be something new and from 46.9 to 82.1. From 106.5 to 122.8 occur several streaks of mineralized material in otherwise

Mr. W. V. Moot, September 18, 1937, Page 2.

uninteresting rock. At the time of my visit the bottom of the hole was at 122.8 with the machine broken down probably until to-morrow. This hole will probably be bottomed at about 150 feet.

As soon as hole #2 is completed it is planned to move 100 feet farther west to #6. All of the above holes are drilled at 30° and intersect the vein from 20 to 30 feet vertically below the surface. Due to the overburden to the west of hole #1, hole #6 is stepped back from the line of the other holes a distance of 61 feet and drilled at an angle of 45°. From this location and at this dip the hole will intersect the vein at 141 feet, which point will be at a vertical depth of 100 feet. The total length of the hole should be not over 200 feet and probably about 175 feet. To my mind this area under the swamp, if it is possible for us to get a hole down, may prove quite interesting, as so far our results have been obtained from this probable westward extension of the ore zone.

Hole #2 should be completed and #6 well started by the middle of next week in spite of the recent breakdown.

The assays from the remainder of hole #5 have just been received and show nothing over 40 cents.

Yours very truly,

ERIC CANADIAN MINES LIMITED,
(No Personal Liability)



GLR:MO

Superintendent.

September 3, 1937.

Mr. W. V. Moot, Managing Director,
Erie Canadian Mines Limited,
319 Erie County Bank Building,
BUFFALO, New York.

Re: Golden Iron

Dear Mr. Moot:

Diamond drill hole #1 has been completed. From footage 53 to 70.2 it returned an average of 3.50 dwts. across 17.2 feet. This is the approximate position of the north vein which the hole cuts at a vertical depth of about 30 feet. No assays were obtained on the south vein.

From 15.2 to 17.5 the drill core assayed 14.40 dwts. This is being checked as, from the appearance of the core, there should be nothing at this point. Should this assay be correct, then there is a possibility of an additional parallel vein north of the north vein. This should be cut by our various holes to the east.

On hole #4 the drillers were unable to get through more than 17 feet of overburden with the equipment available, so this hole was temporarily abandoned and #5 drilled. No. 5 will now be completed and I am going up to-morrow to sample it.

It is planned to drill hole #9 next and then have another try at #4 with the drop hammer which I understand Heath & Sherwood have sent up.

Yours very truly,

ERIE CANADIAN MINES LIMITED,
(No Personal Liability)

T-47



GDM:EO

Superintendent.

August 30, 1937.

Mr. V. Jordan,
c/o Cloutier's Store,
RAMORE, Ontario.

Dear Vic:

Following is the necessary data for the diamond drilling:

- (a) All holes are at 30° to the horizontal.
- (b) The drilling order is 1, 4, 5, 9.
- (c) The length of the holes should be between 130 and 135 feet.
- (d) The holes should enter the mineralized zone of the north vein at 38.5 feet and continue in it to the footwall at 73.2. The holes should cut the south vein at 120.4 and will probably continue in it for from 8 to 10 feet.
- (e) Should the drill go to 30 feet and still be in overburden on any hole, please stop that hole and move to the next. Also advise the office either by phone or wire.
- (f) Please see that the core is carefully stored in the boxes, the boxes plainly numbered with the hole number and all the core stored in the core shack.

Please also be careful about letting anyone, aside from the setter and yourself, in the core shack and see that the core shack is locked at all times except when either the setter or yourself is there. I would suggest that you buy a padlock and substitute it for the one already on the core shack, as I believe Mr. MacDermot has an extra key to the old lock.

Enclosed please find our cheque, number ~~405~~, for \$25.00, which you requested.

T-47

Yours very truly,

ERIE CANADIAN MINES LIMITED,
(No Personal Liability)

[Signature]
Superintendent.

GJM:MO
Encls.

August 28, 1937.

Mr. W. V. Moot, Managing Director,
Erie Canadian Mines Limited,
519 Erie County Bank Building,
BUFFALO, New York.

Re: Golden Arrow Diamond Drilling

Dear Mr. Moot:

The drill arrived at the property yesterday and will be started on the first hole this morning. The holes are laid out as shown on the accompanying sketch, the even numbered holes being to the west of hole #1 and the odd numbers to the east. Hole #1 is drilled opposite the trench where we got the 4.70 dwts. across 15.8 foot average. The other holes are spotted parallel to the strike of the vein at 50-foot intervals both east and west of #1. It is planned to drill first #1 then move 100 feet west to #4, then 100 feet east to #5, then 100 feet farther east to #9. You will notice that these holes are spaced 100 feet apart and if any of them give encouragement the intermediate hole can be drilled. The line of the collars is placed as close to the hangingwall side of the north or main vein as is practical to have the hole intersect fresh vein material. You will remember that we had a north zone and paralleling at 50 feet to the south another zone indicated by one pit. The holes are designed to cut the north zone at a vertical depth of about 30 feet and the south zone at a vertical depth of about 80 feet. The holes are being drilled as flat as possible, that is, at 50° and as the vein dips north at 70° , the intersection angle will be 80° .

I have received all the necessary option forms signed by the Golden Arrow and I am submitting them to Mr. Lillico for checking with instructions to forward them to you for Erie Canadian's signature, if they are in order. Will you please keep one copy and return the rest to me.

Yours very truly,

ERIE CANADIAN MINES LIMITED,
(No Personal Liability)



Superintendent.

GLM:MO

T-47

July 7, 1937.

Mr. W. V. Moot, Managing Director,
Erie Canadian Mines Limited,
319 Erie County Bank Building,
BUFFALO, New York.

Dear Mr. Moot:

I have been investigating the four claims owned by the Golden Arrow Mining Company lying to the southwest of the Vimy in Hislop Township. This outfit has done quite a lot of work in here, mostly surface stripping with an inclined two-compartment shaft down 50 feet. Their "vein" shows as an eastwest striking shear zone about 12 feet wide. In the shear zone are two persistent quartz stringers plus many irregular ribbon-like zones of fine reddish aplitic material. Wherever the red aplite is present there seems to be a heavy pyrite-chalcopyrite mineralization and the assay returns from some of this zone are quite good. They have six diamond drill holes drilled on the main zone, three of which passed over the vein in overburden, one of which was drilled parallel to the vein and two which apparently cut the zone at about 130-foot depth. Of these last two holes one showed 10 feet assaying about \$9.00 and the other $\frac{1}{2}$ foot assaying \$25.60.

In addition to their four claims, they have an option for \$20,000.00 and ten per cent on four claims lying immediately to the north covering the showing on the dip. I believe that a reasonable option would be possible here if we are interested and I am going to sample the main showing shortly. Another interesting feature is that they have opened up the southwest extension of the Vimy break for about 100 feet. Grab samples of this material have run as high as \$21.00.

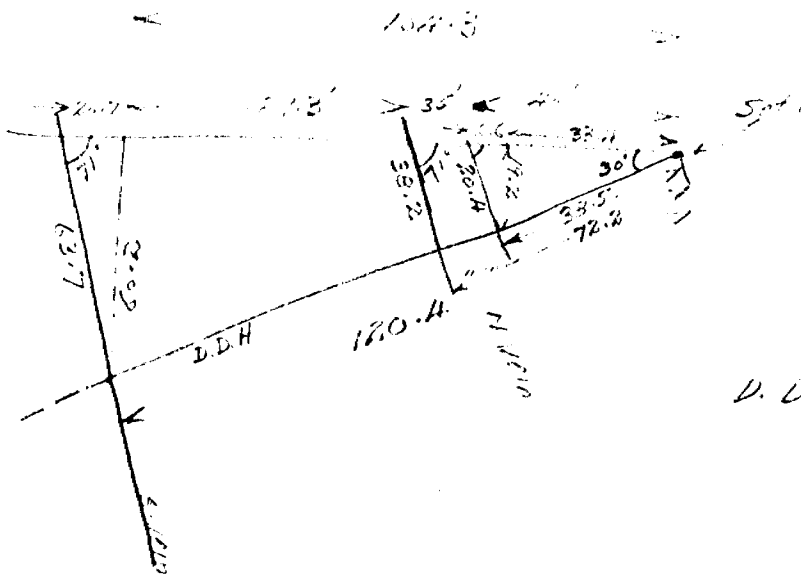
Yours very truly,

ERIE CANADIAN MINES LIMITED,
(No Personal Liability)

T-47

GLH:MO

Superintendent.



*Admission
D. DeLong for 3
11/10*

T-47

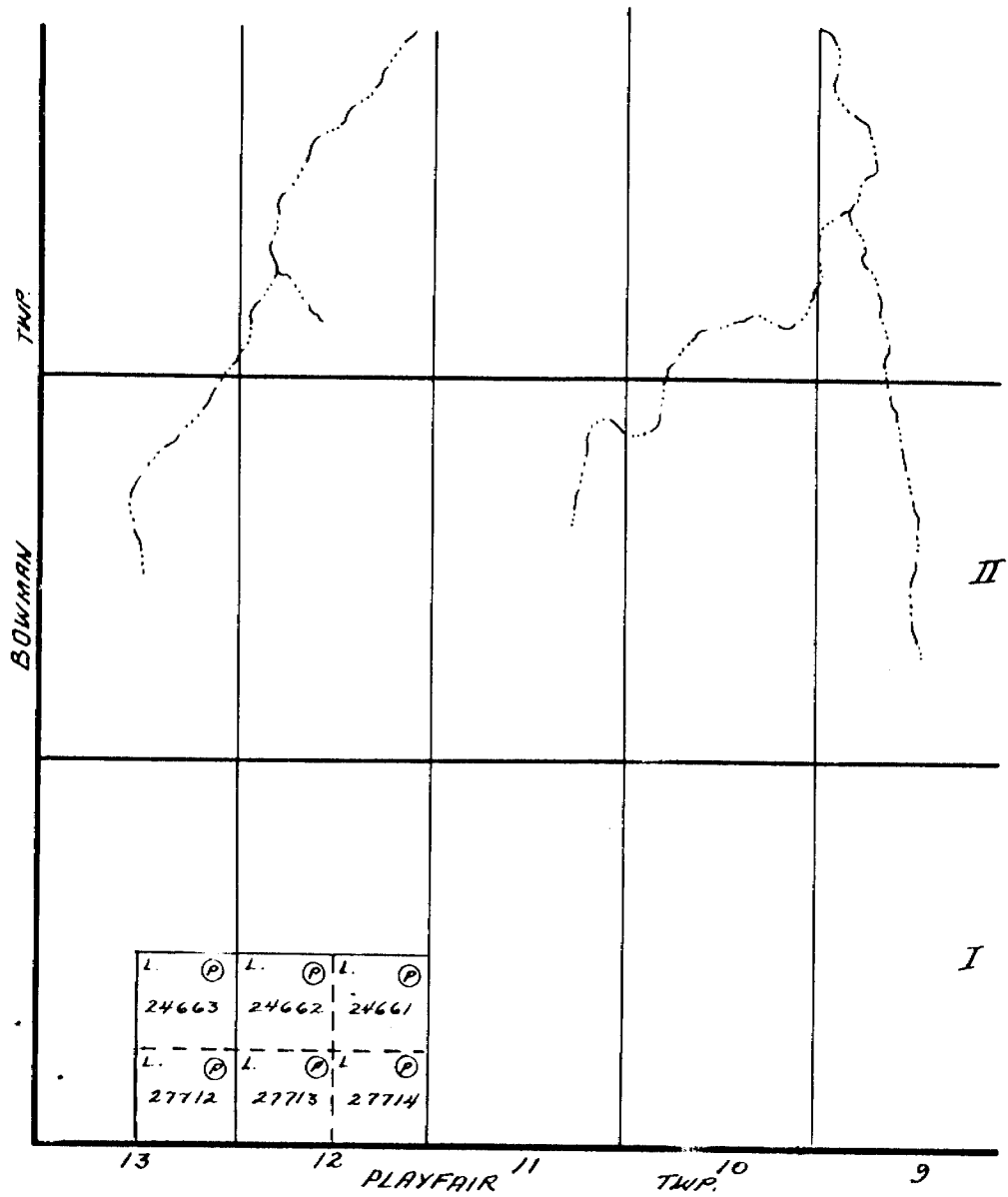
Look up 11

T-47

DEPTH	BEARING	DIP	LAT.	DEP.
* 1			1031.3	1003.0
* 2			1036.6	957.3
* 6			1058.2	836.2
* 8 X			1088.4	1115.5
* 9			1113.9	1191.0
* 12			1146.8	1294.5
* 15			1088.4	1117.0
* 23			1094.9	2018.0

NOTE -
CORRS. FROM ADJUSTED
LAT. 1000 DEP. 1000
FOR N-W CORNER OF
SHAFT.

T-47



CONSOLIDATED GOLDEN ARROW MINES LTD.

Hislop Township

Scale: 1 inch - 40 chains

7-27

GOLDMINE AREA. - BISHOP TWP.

List of Specimens - Dec. 1946

Specimens from 1st level.

1. Ore - Mineralized syenite west of main fault.
2. Ore - Mineralized Volcanics from east of main fault, along syenite contact.
3. Altered Syenite - Brick red colour from fractured zone.
4. Syenite - Unaltered
5. Diorite - Station - 1st level
6. Banded Cherty Tuff - 250 level - U157
7. Syenite - 250 level - U157A - Face
8. Vein Breccia - 250 level - U156 - Subsidiary Vein
9. Tuff? or Andesite? - 250 level - T-156 - East of main fault and north of syenite.
10. Syenite Ore - 250 level, 0.15 oz. - 150' x 40'
11. Talcite - 250 level Main fault - Carries erratic values.
12. Pebble Lamprophyre - 250 level - carries erratic values.
13. Diorite - 400 level - Station
14. Ore - Main Fault - 400' level
1. Ore - High grade from 250 level U156 Subsidiary.

~~XXXXXX~~
Resident Geologist

April 30th, 1946.

Dr. J.W. Ambrose,
428--67 Yonge St.,
Toronto, Ont.


Dear Dr. Ambrose:

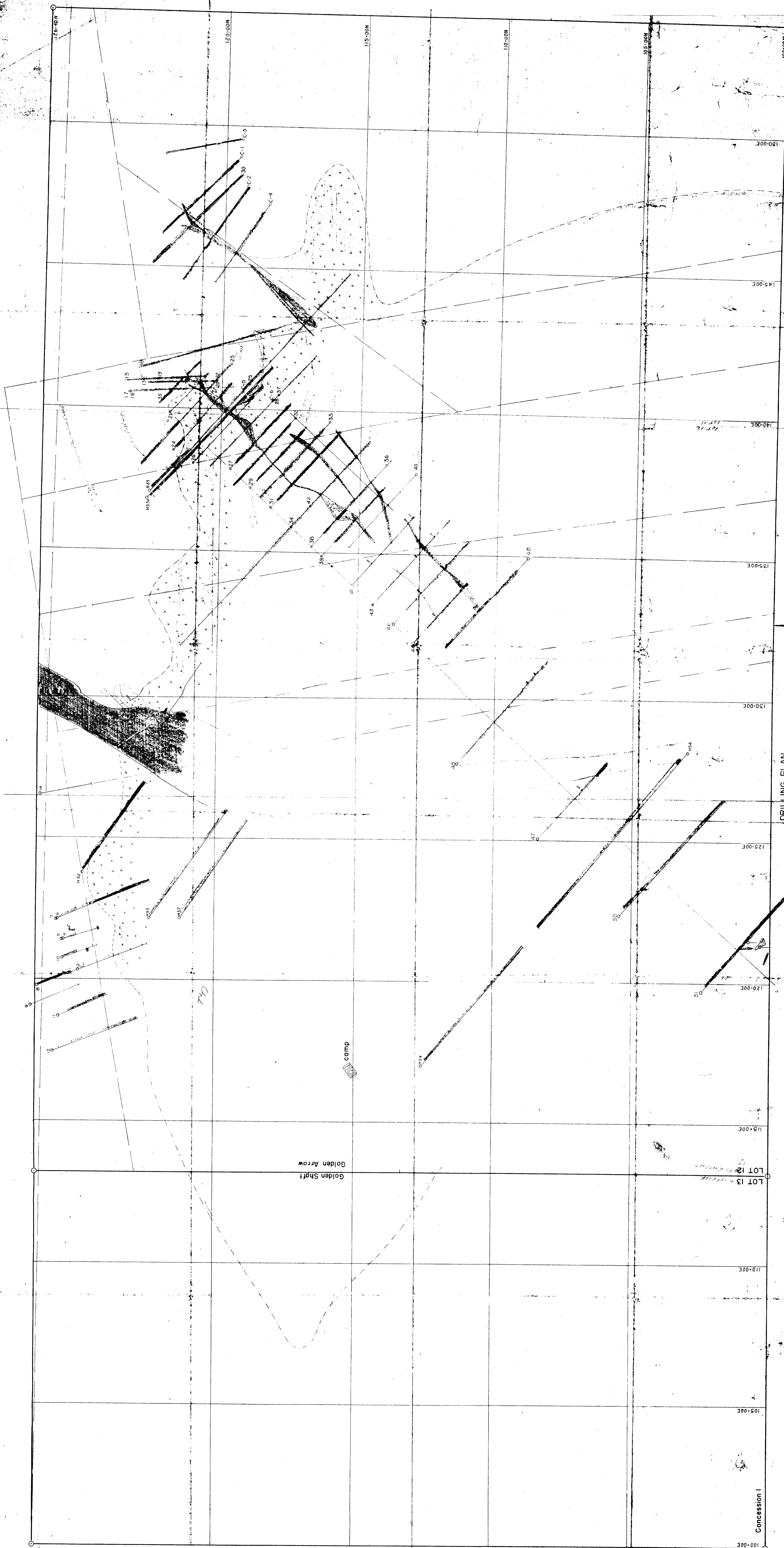
The logs of diamond drill holes 31, 32 and 42-49 inclusive, from the Golden Arrow Mines, have been received.

Since talking to you in Toronto on April 23, the Department has decided to deal directly with the question of building a road in to the Golden Arrow shaft. Therefore, the information just received, as well as the information which I receive in Toronto has been turned over to Dr. Hurst.

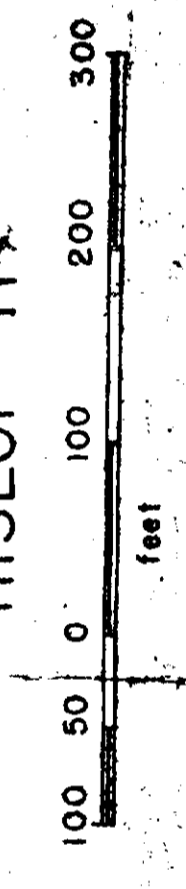
I assume that the geological portion of these data is available for use in compiling a regional map of Hislop Twp. and would like to thank you for your co-operation in this matter.

Yours very truly,


Nelson Hogg,
Resident Geologist,
59 Third Ave.,
Timmins, Ont.



DRILLING PLAN
GOLDEN ARROW MINES LTD.
HISLOP TP.



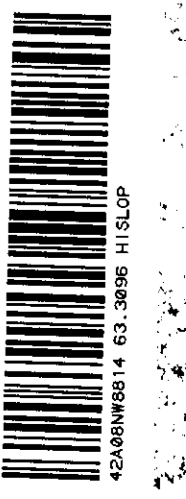
Concession 1

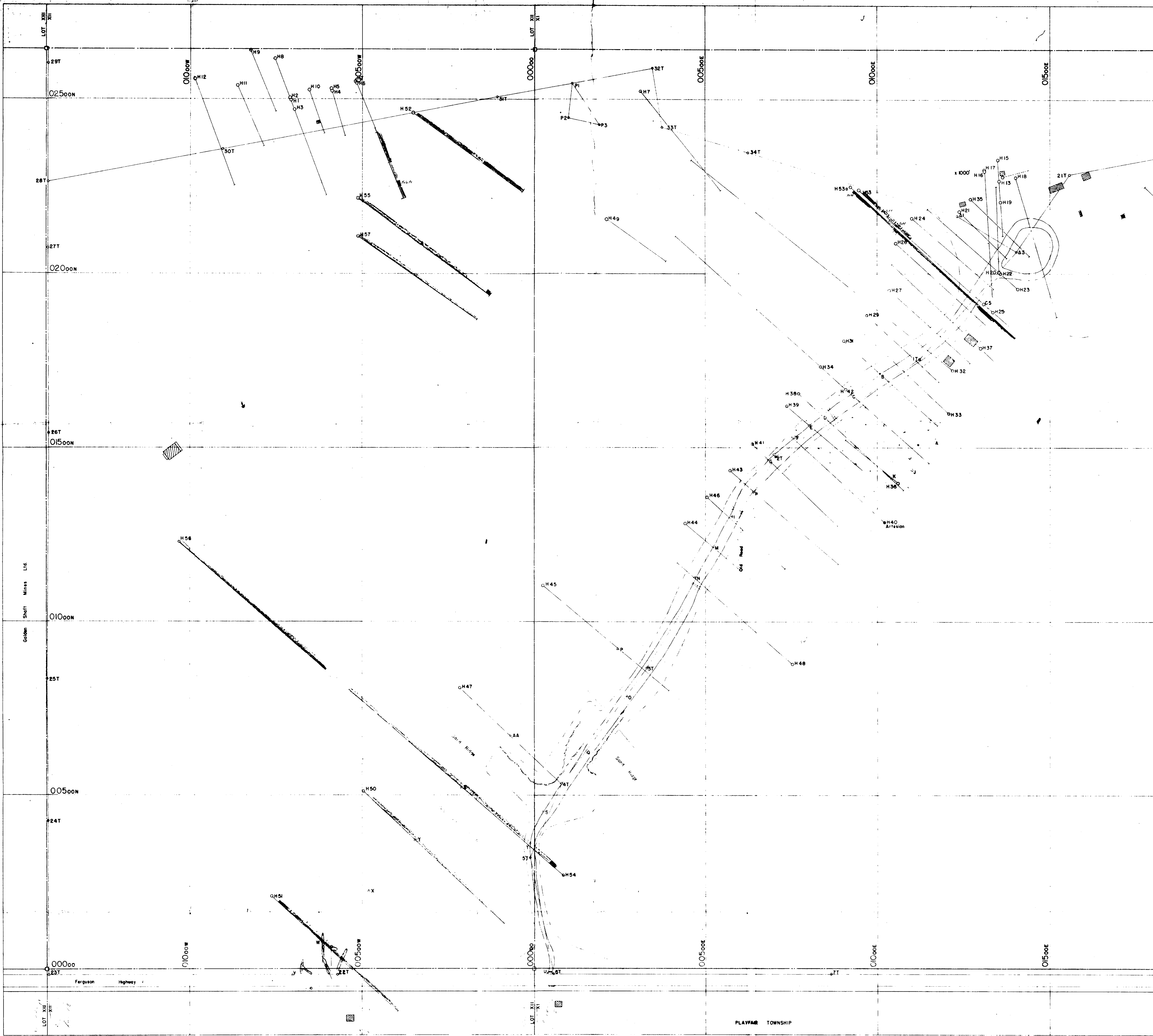
LOT 13
LOT 12

Golden Shaft
Golden Arrow

camp

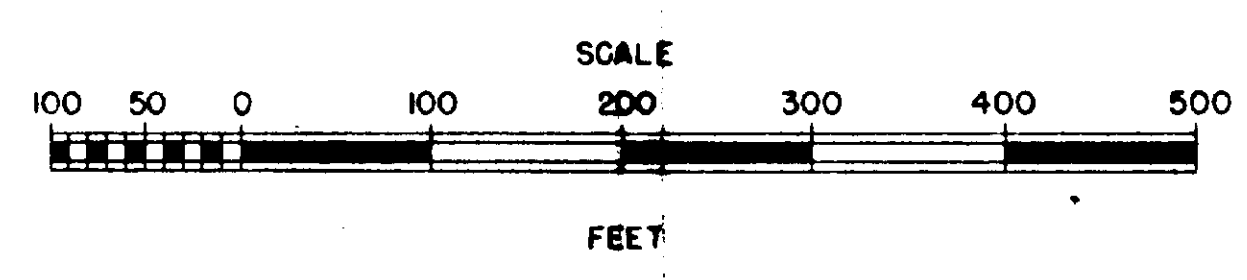
747



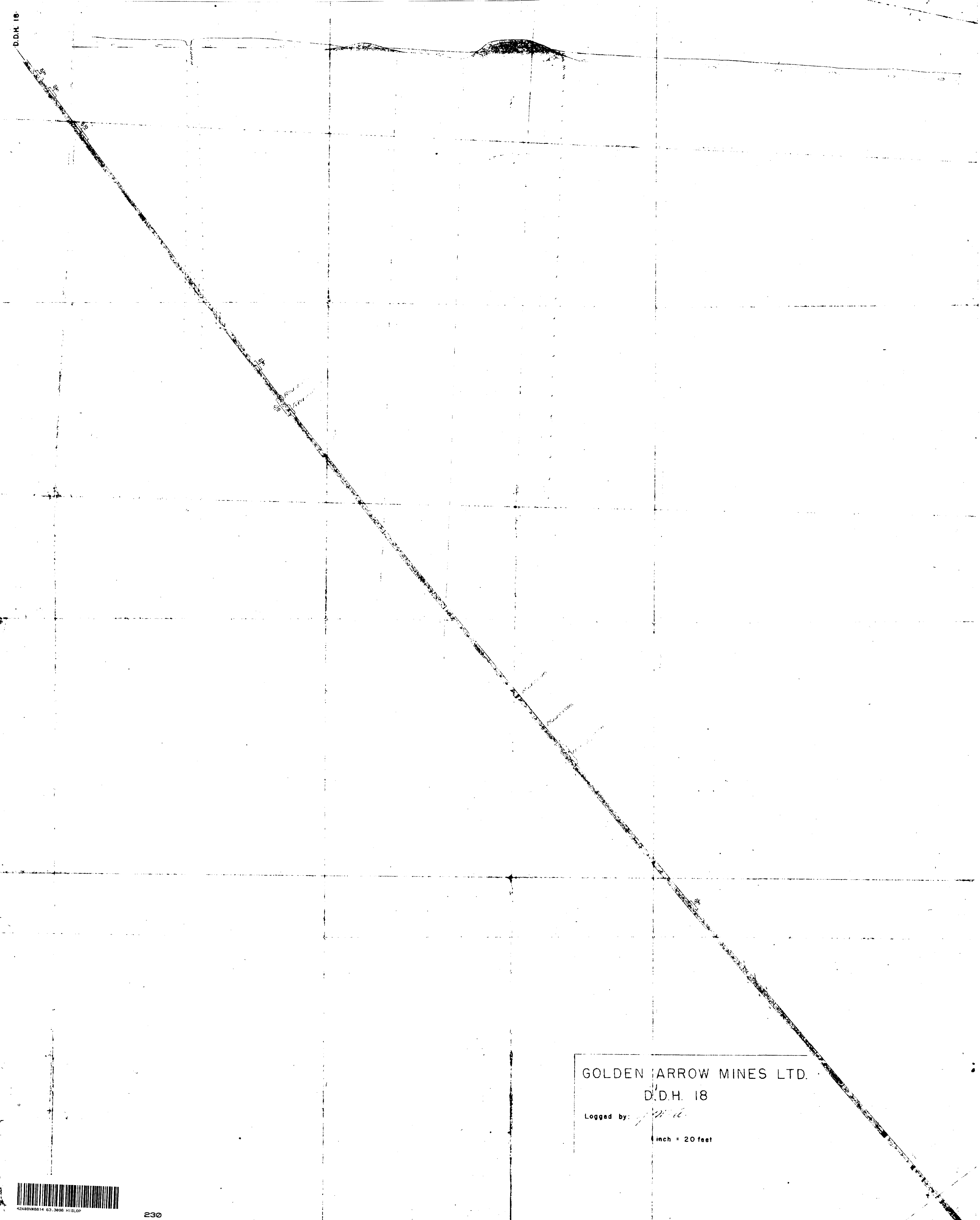


SURFACE PLAN
of
GOLDEN ARROW MINES LTD.
HISLOP TOWNSHIP
ONTARIO

- LEGEND**
- Building.....
 - Mine Shaft.....
 - Water Tower.....
 - Transit Station.....
 - Plane Table Station.....
 - Permanent Monument.....
 - Corner Post.....
 - Bench Mark.....
 - Township Boundary.....
 - Lot Boundary.....
 - Grid Line.....



D.D.H. 18



GOLDEN ARROW MINES LTD.

D.D.H. 18

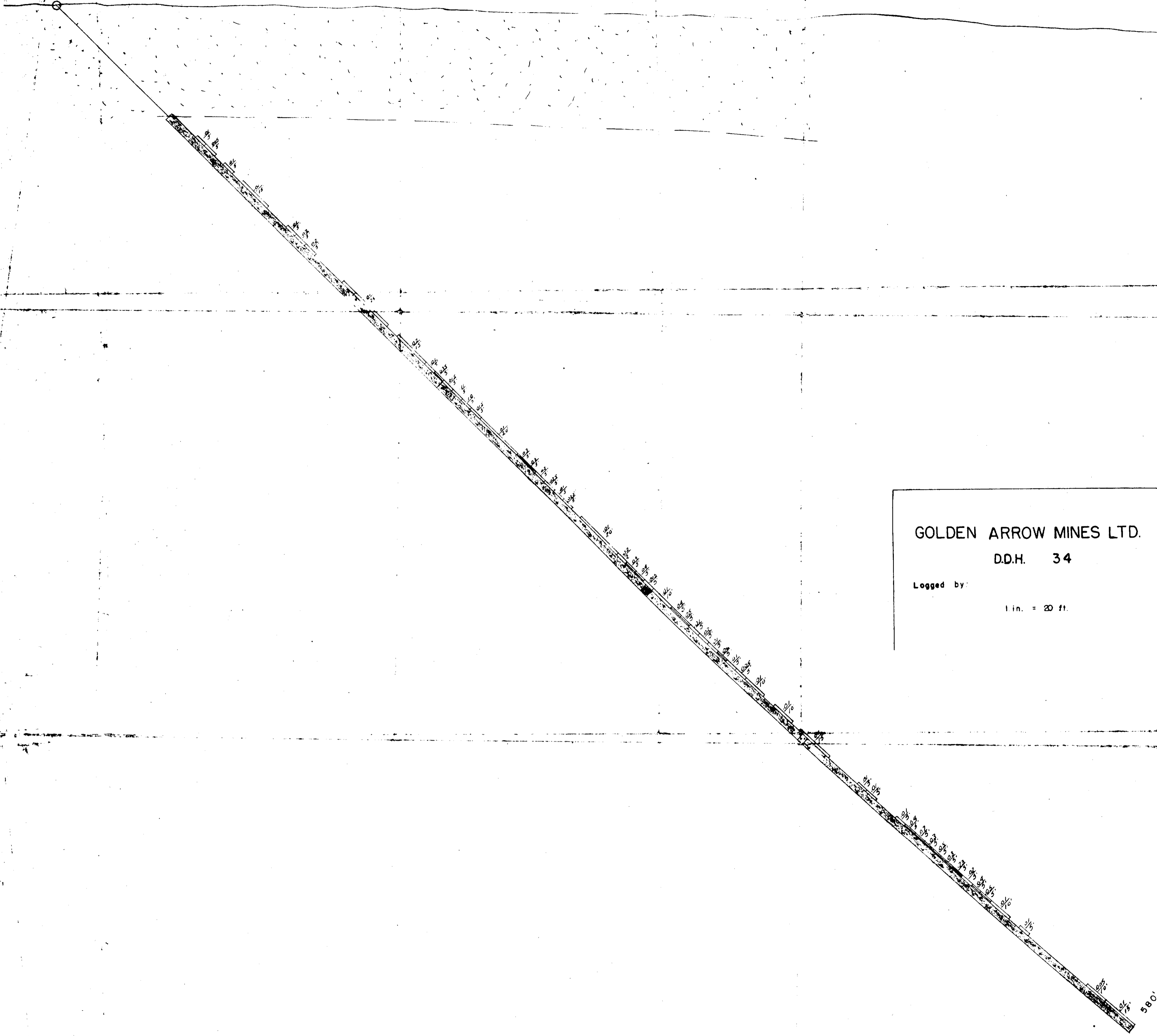
Logged by: *[Signature]*

1 inch = 20 feet



4248088814 63-3906 HIGLOP

34



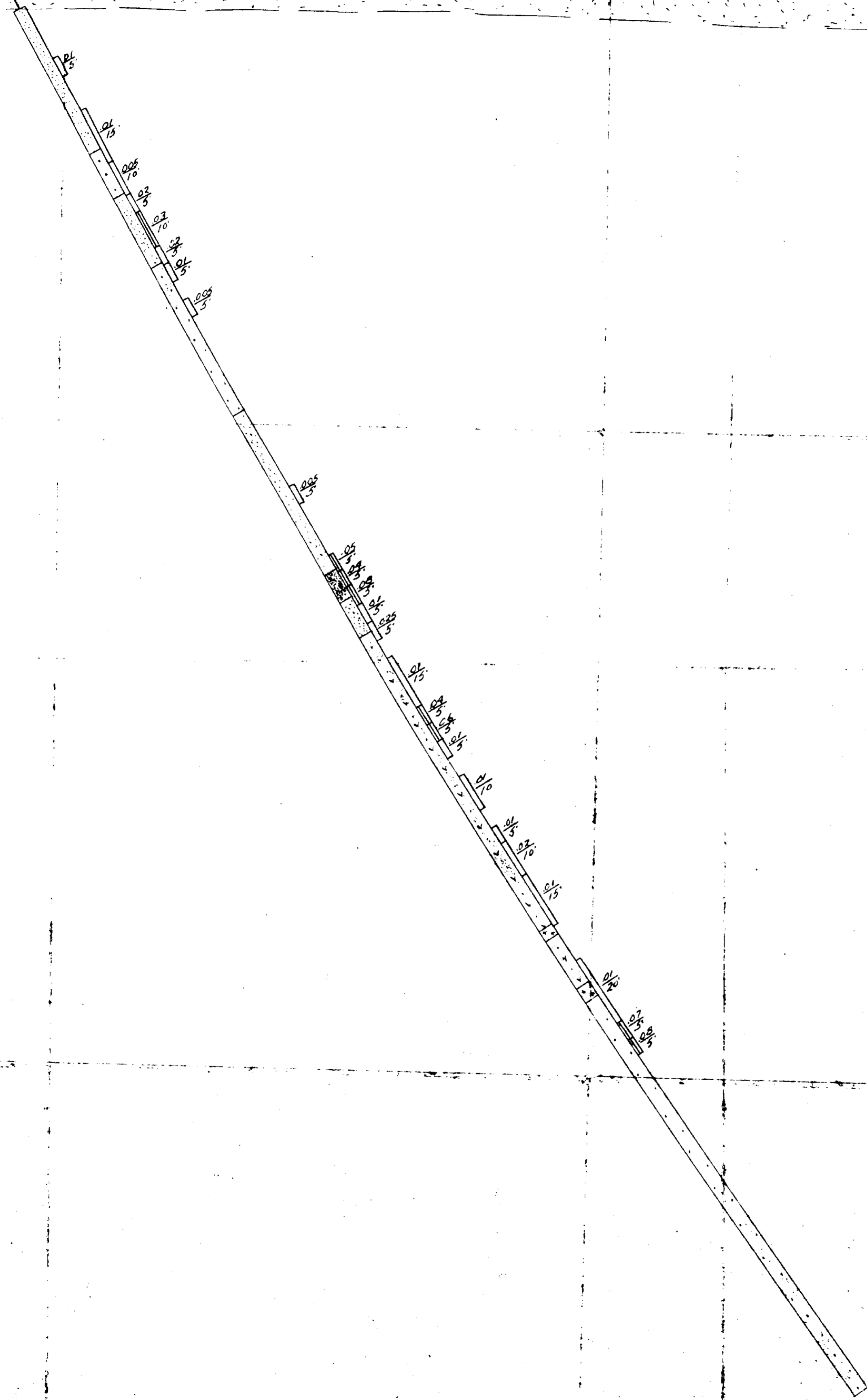
GOLDEN ARROW MINES LTD.
D.D.H. 34
Logged by:
1 in. = 20 ft.

T-47

580'



35



GOLDEN ARROW MINES LTD.
D.D.H. 35

Logged by:

1 in. = 20 ft.

T-47



42A89NW8814 63.3086 HISLOP

260

412.6'



GOLDEN ARROW MINES LTD.

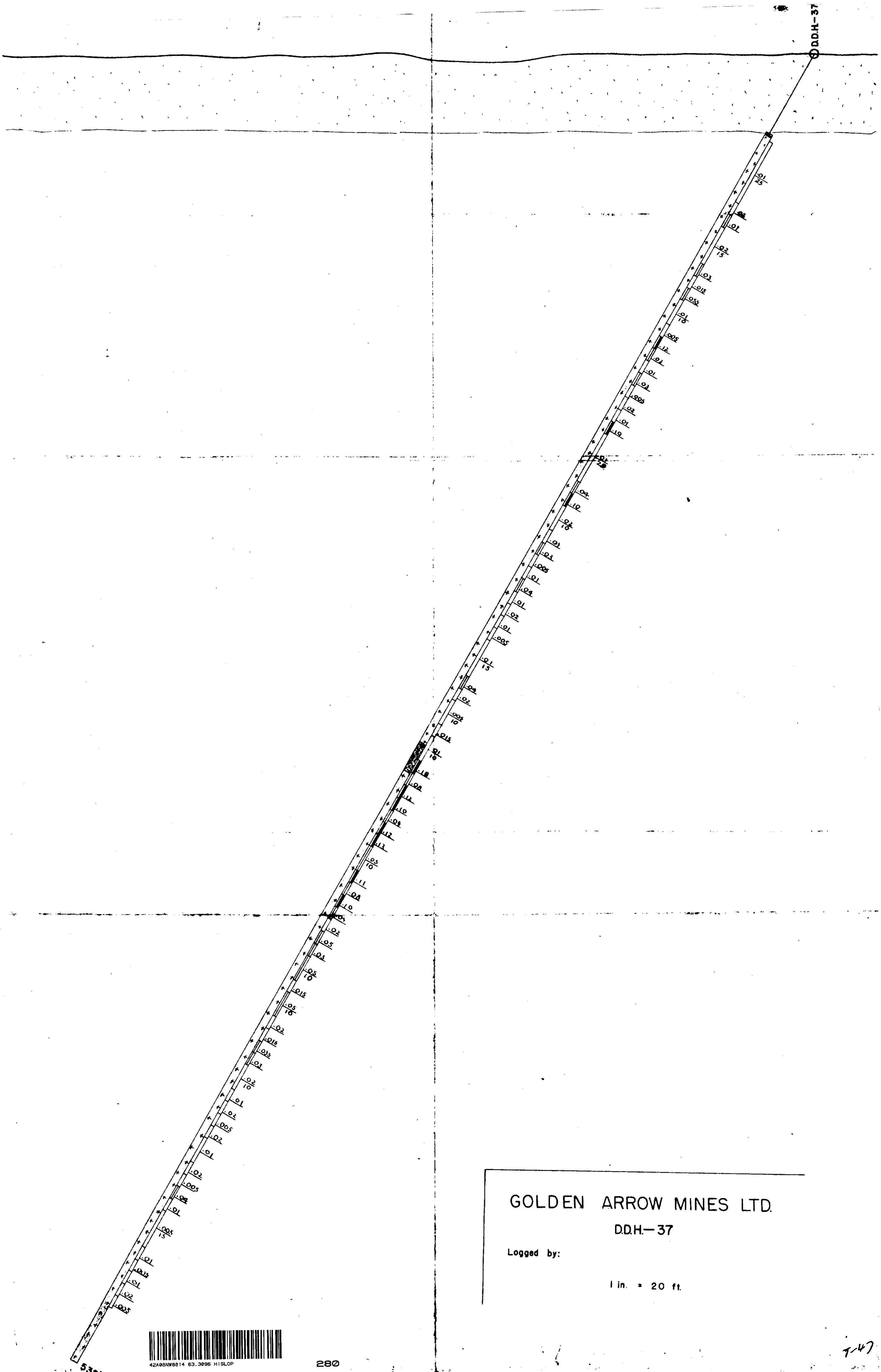
D.D.H. 36

Logged by:

1 in. = 20 ft.



42A00NW8814 63.3096 H1SLOP



GOLDEN ARROW MINES LTD.

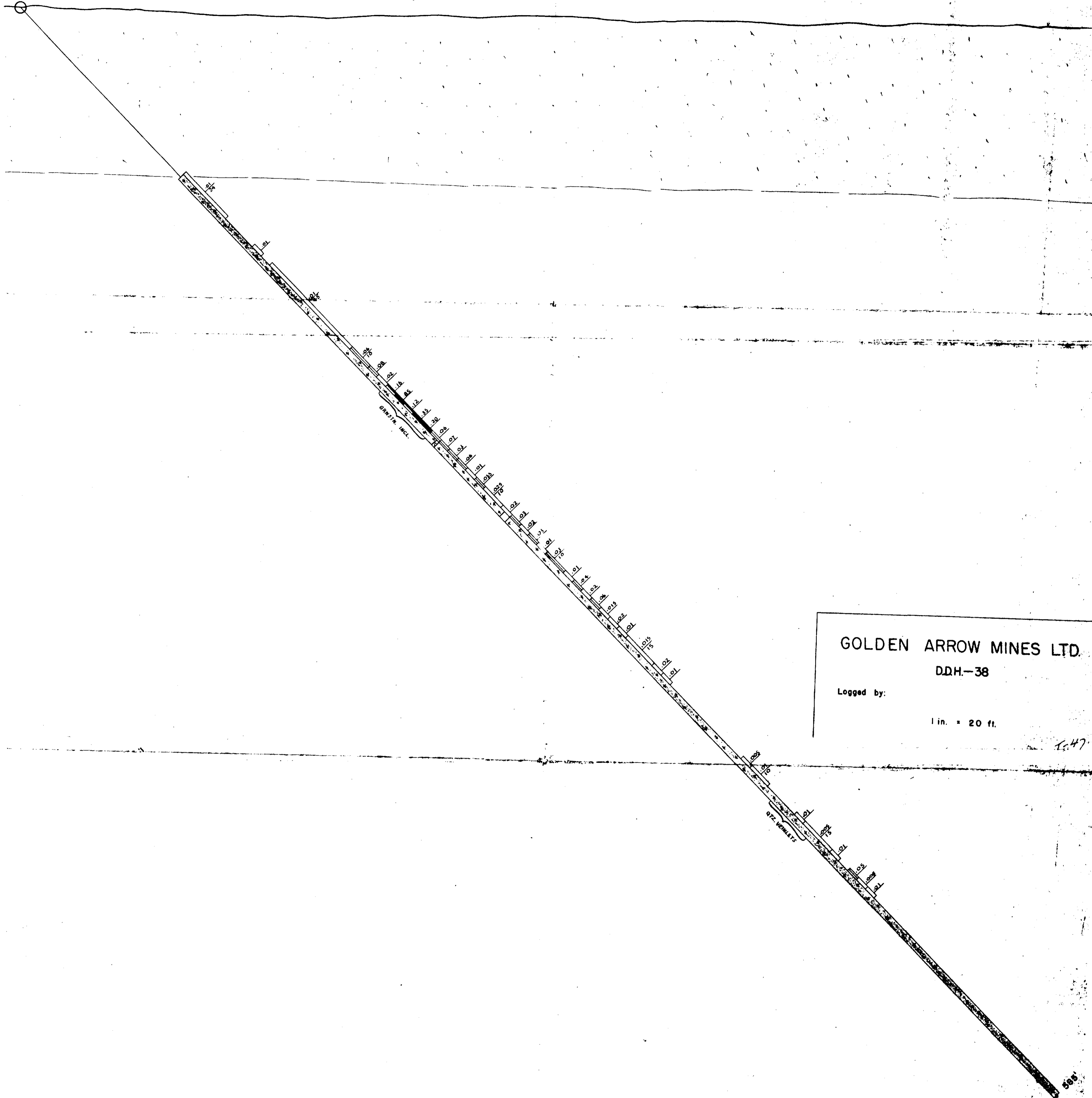
DDH-37

Logged by:

1 in. = 20 ft.



D.D.H.-38

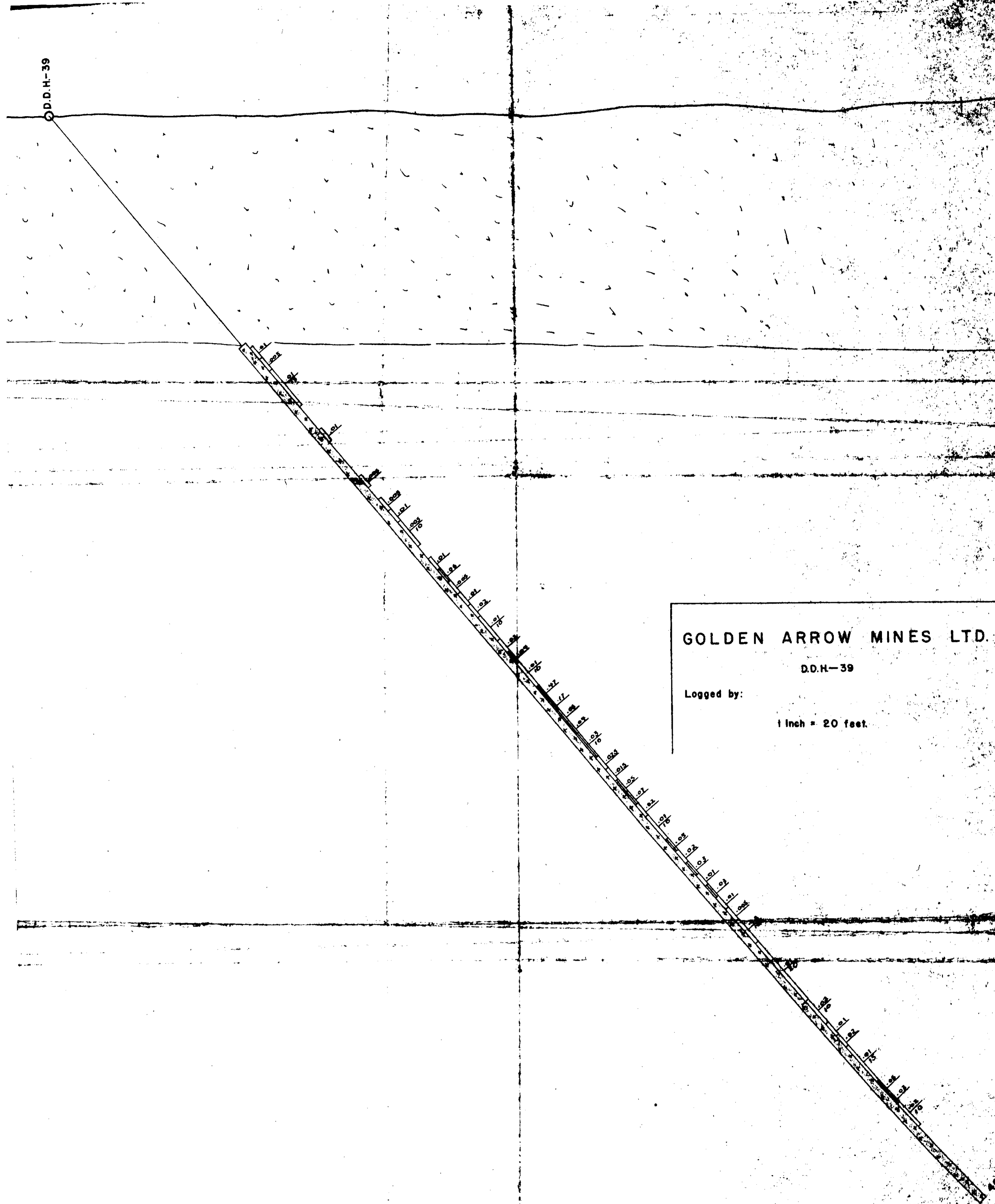


GOLDEN ARROW MINES LTD.
 D.D.H.-38
 Logged by:
 1 in. = 20 ft.

591



D.D.H.-39



GOLDEN ARROW MINES LTD.

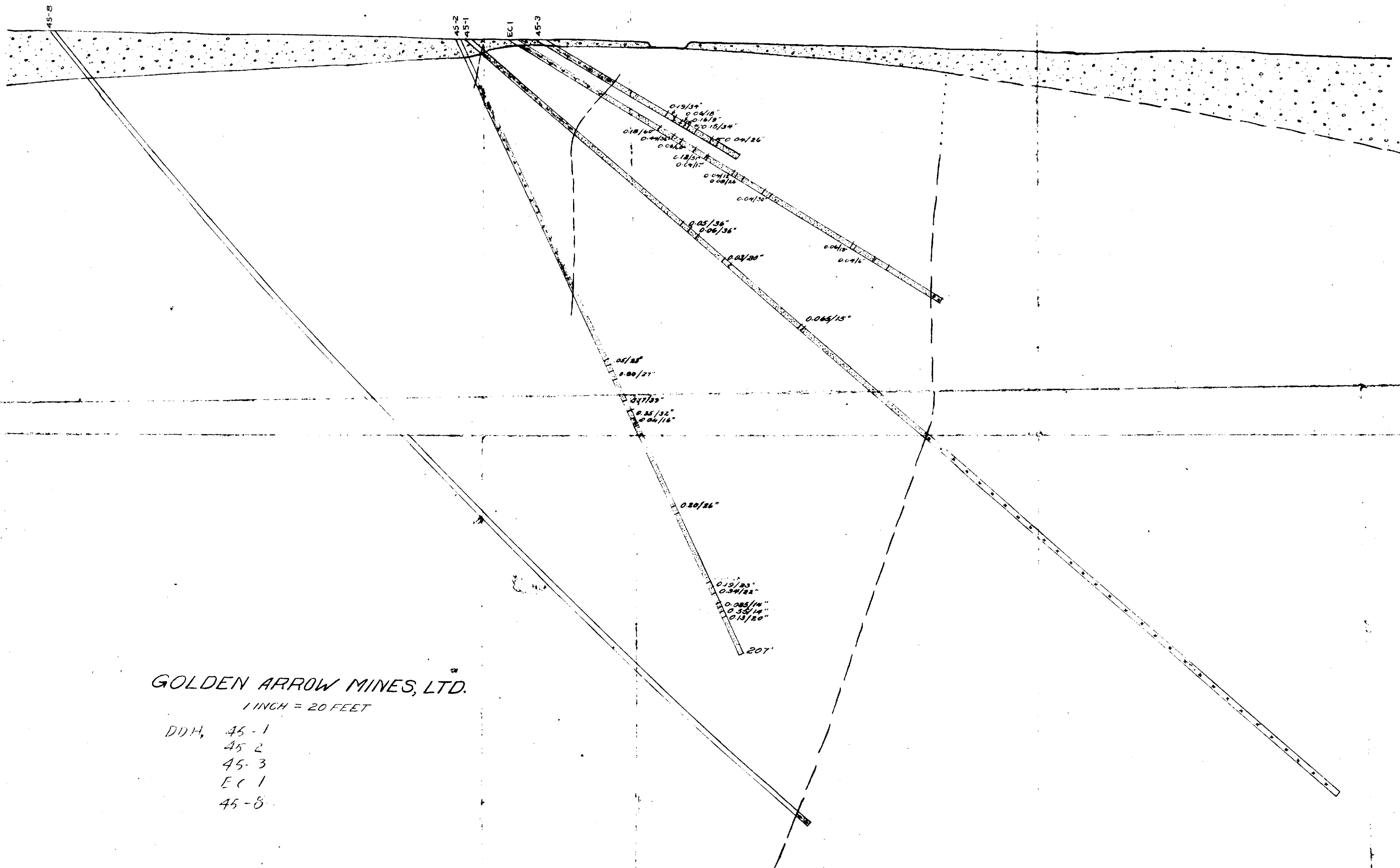
D.D.H.-39

Logged by:

1 Inch = 20 feet.



42A08NW8814 63.3896 H1SL0P



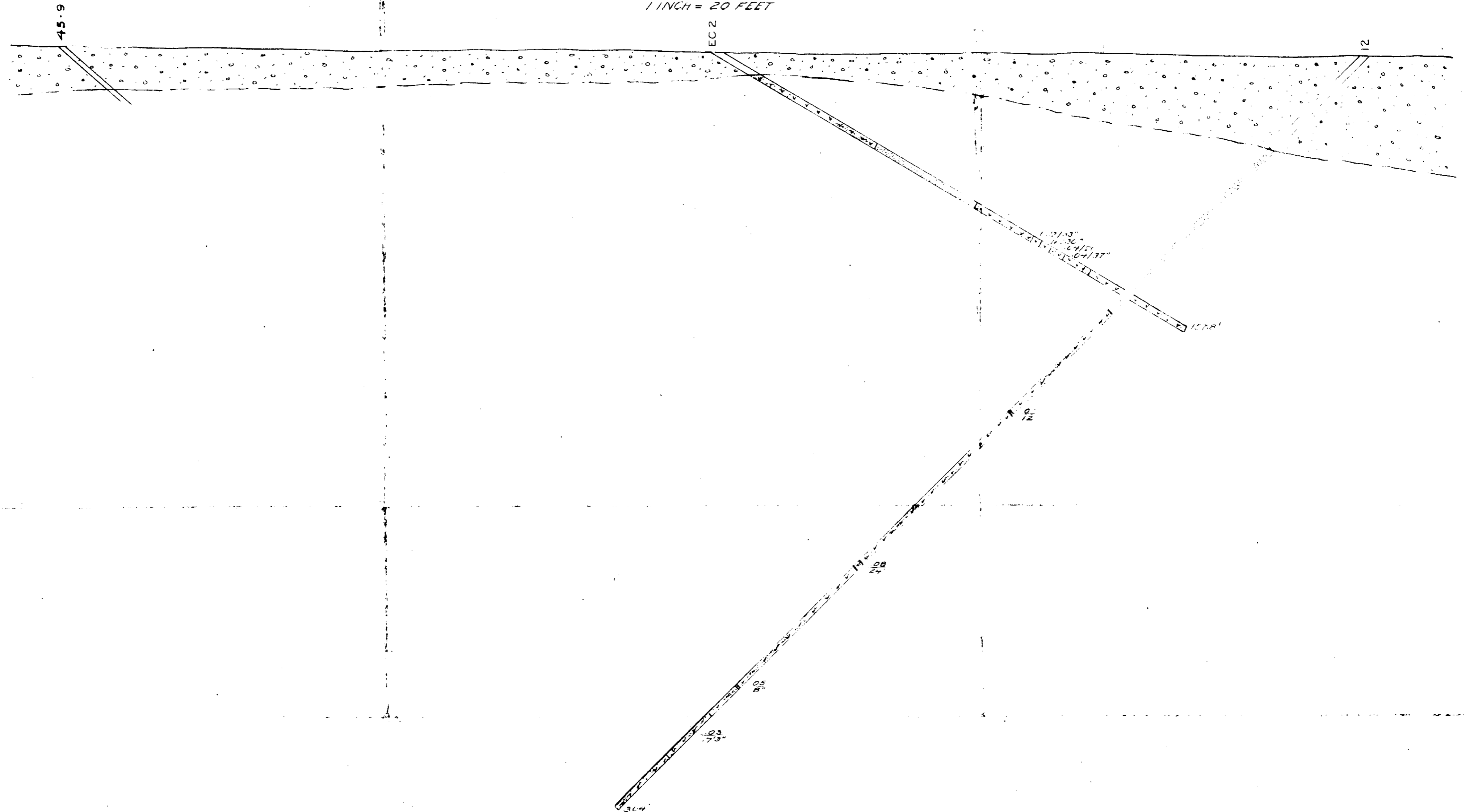
GOLDEN ARROW MINES, LTD.

1 INCH = 20 FEET

- DDH, 45-1
- 45-2
- 45-3
- EC1
- 45-8



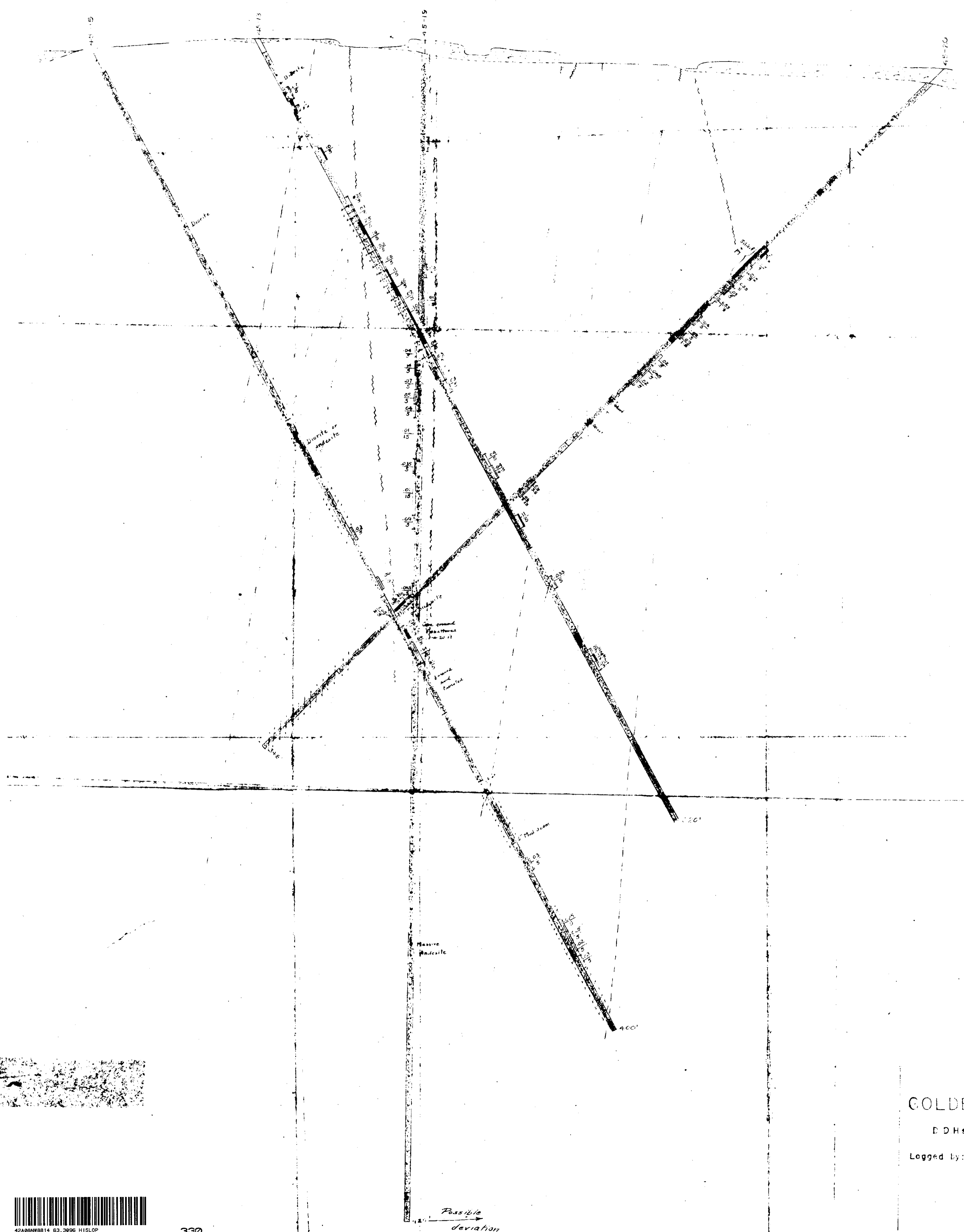
DDH EC 2 + 45-12 T-47
GOLDEN ARROW MINES LTD.
1 INCH = 20 FEET



DDH 45-12
& EC-2



42A00N8814 63.3096 HISLOP



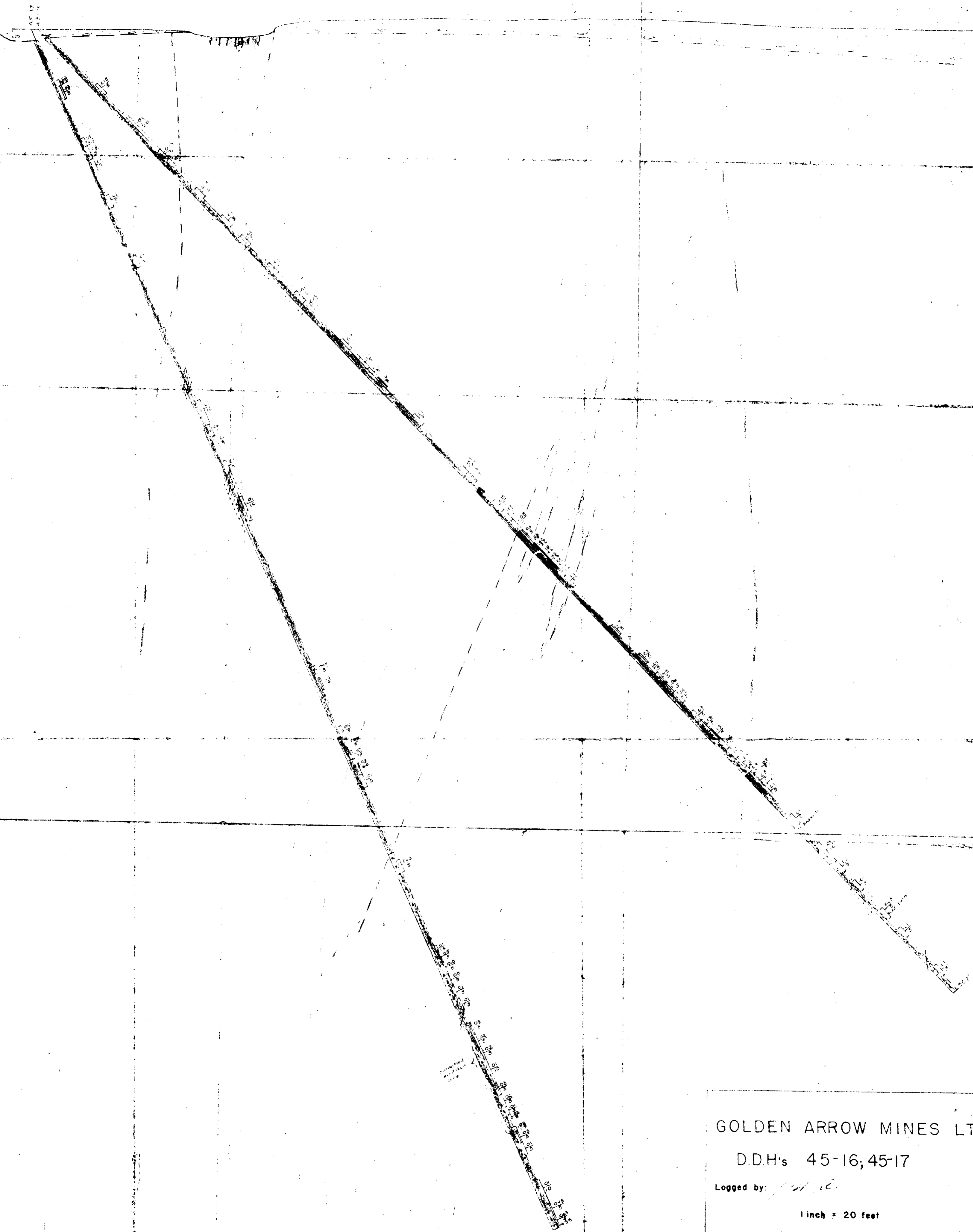
GOLDEN ARROW MINES LTD.

D.D.H.s 45-13, 45-15, 45-19, 45-20

Logged by: *[Handwritten Signature]*

1 inch = 20 feet





GOLDEN ARROW MINES LTD.

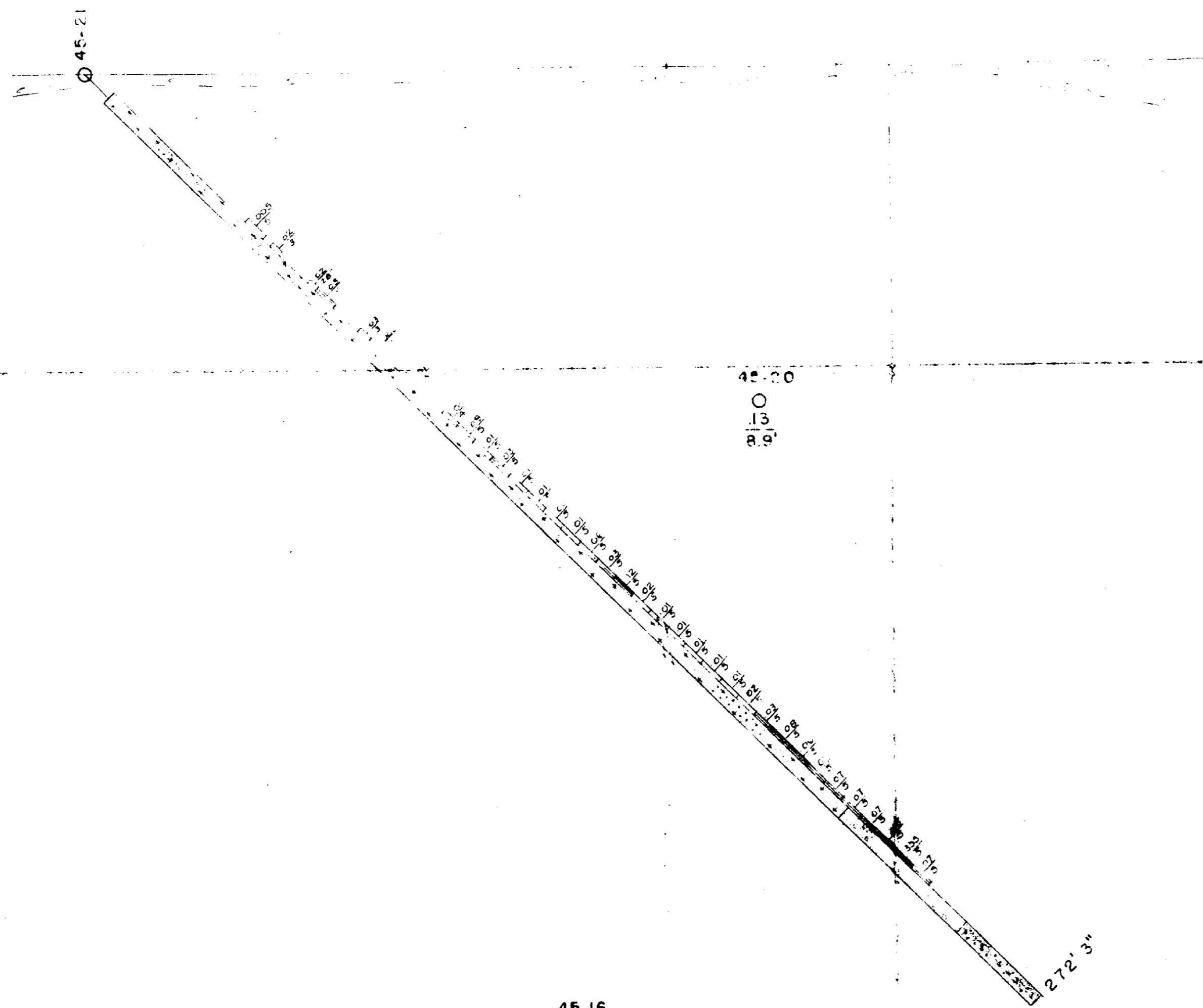
D.D.H's 45-16, 45-17

Logged by: *[Signature]*

1 inch = 20 feet



42480N0514 63.3866 HISLOP

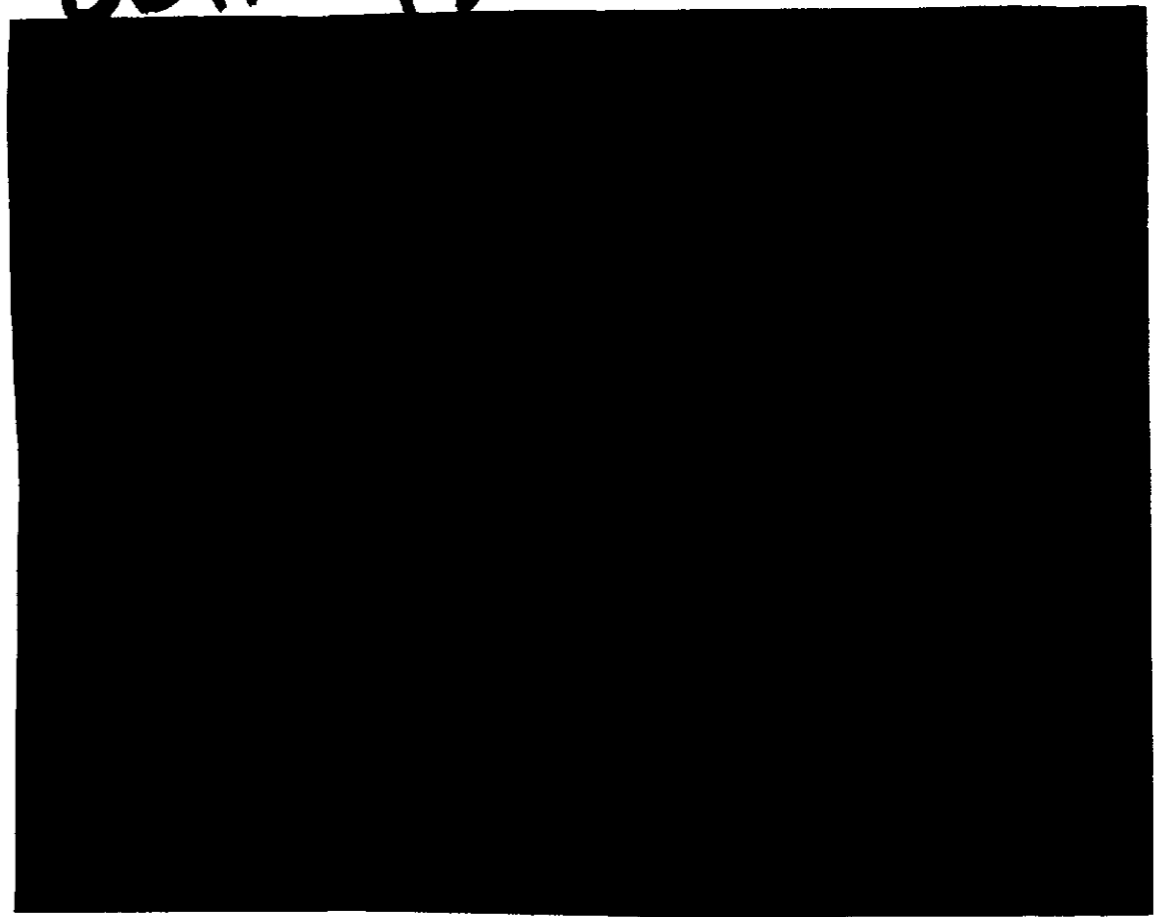


45-20
 ○
 .13
 8.9'

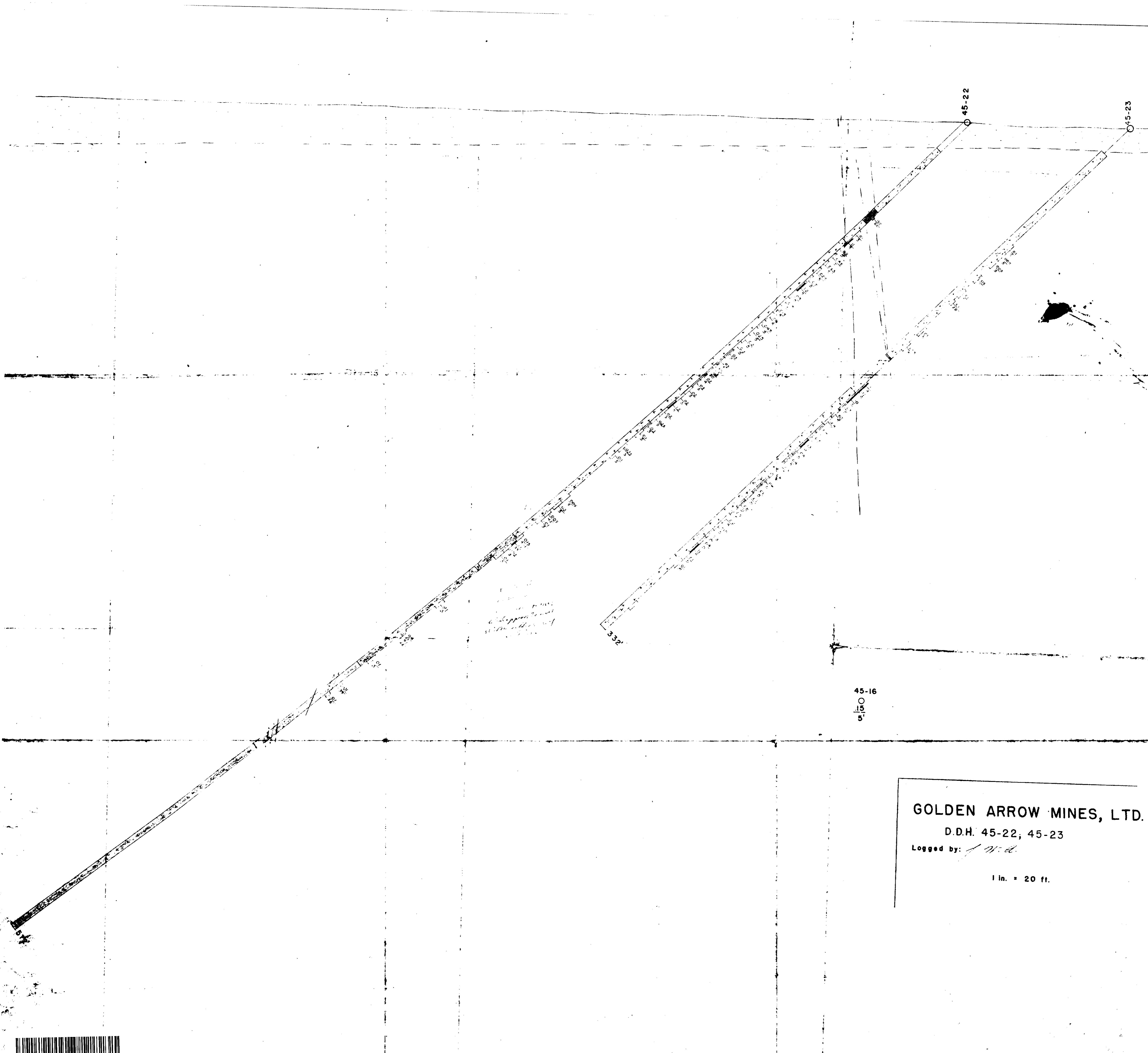
45-16
 ○
 .27
 15.1'

272' 3"

DDH 45-21



42A08N8814 63.3886 HISLOP



GOLDEN ARROW MINES, LTD.

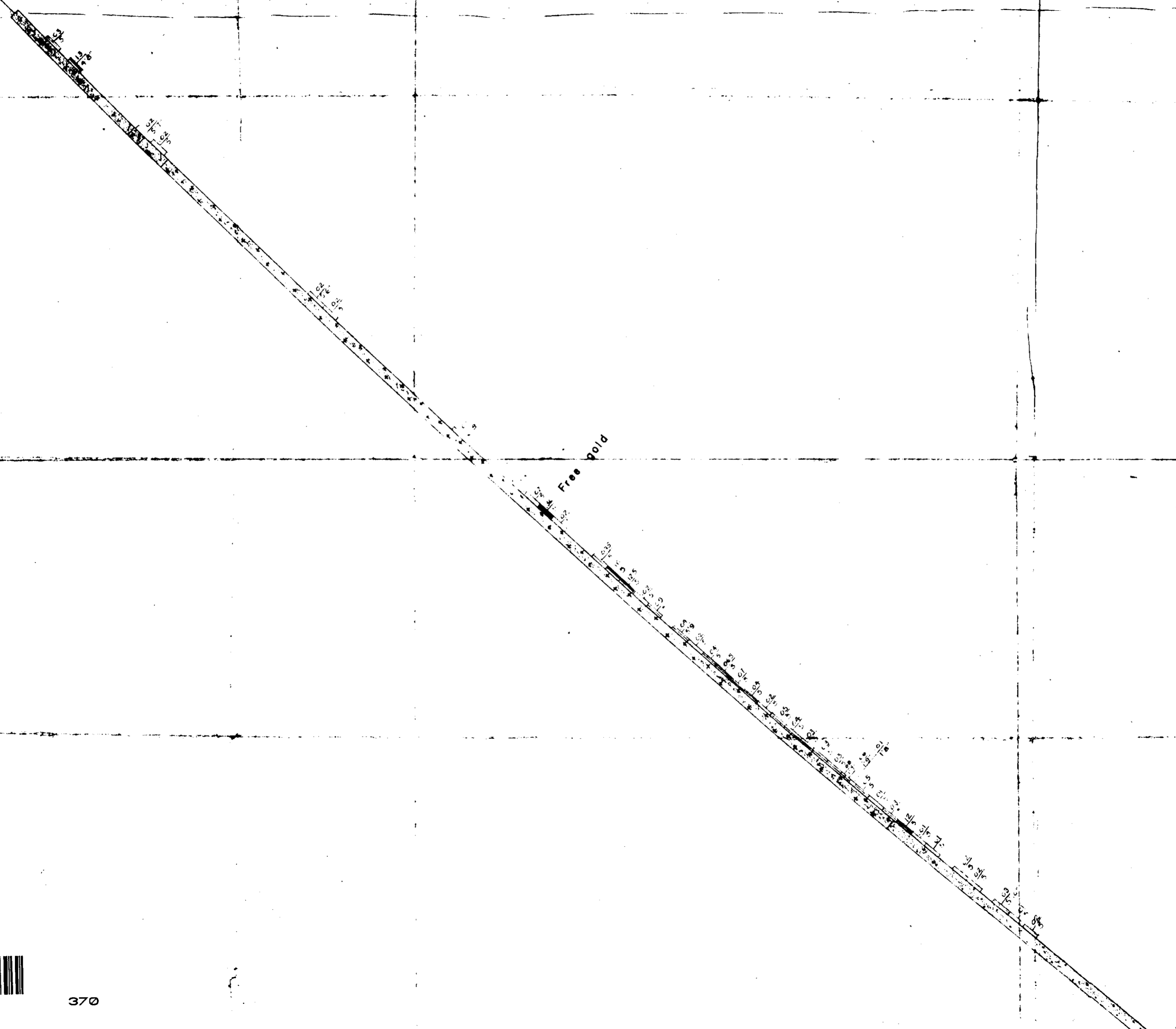
D.D.H. 45-22, 45-23

Logged by: *W. d.*

1 in. = 20 ft.



45-24



GOLDEN ARROW MINES LTD.

D.D.H. 45-24

Logged by: *J.W.R.*

1 in. = 20 ft.

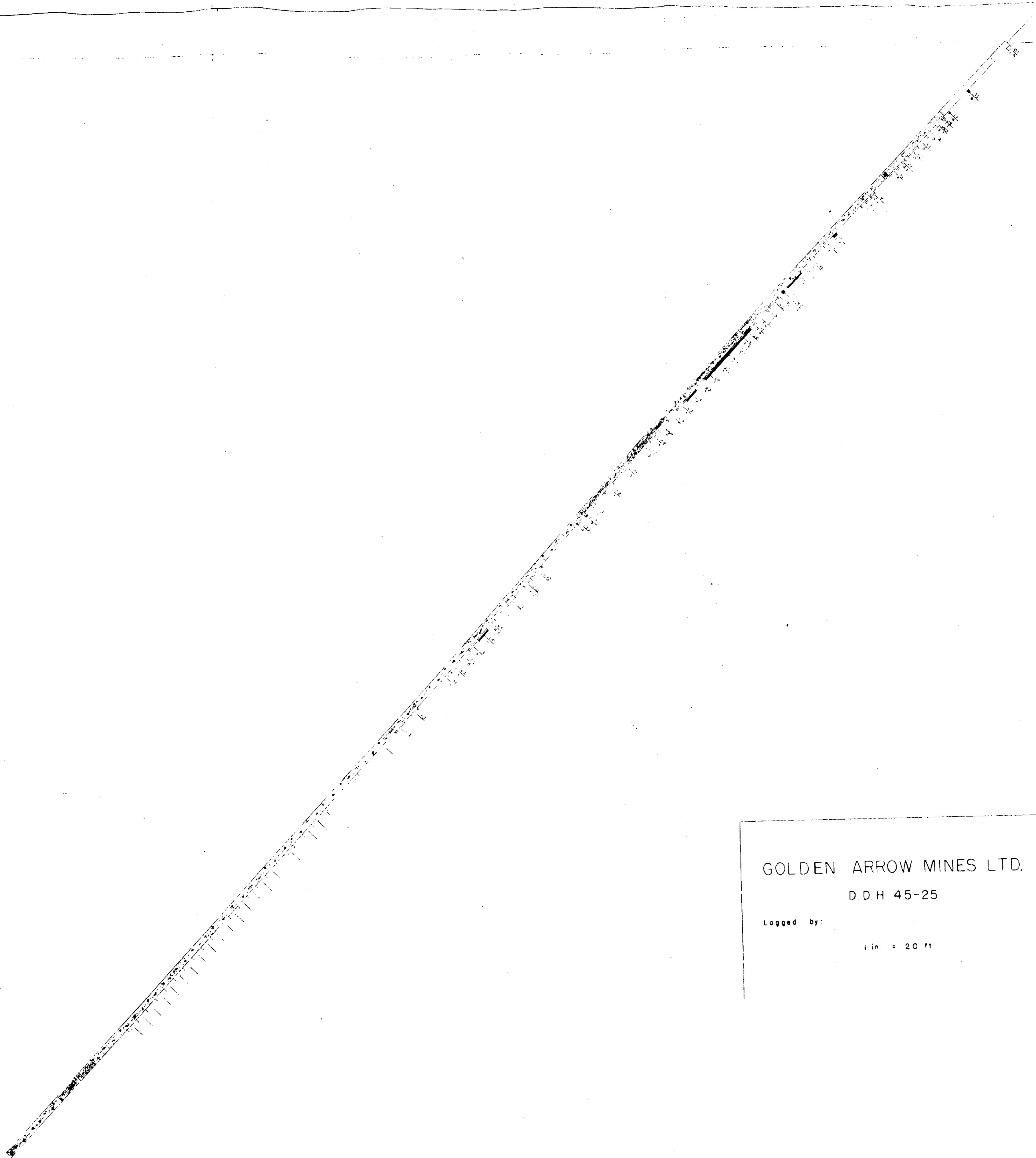


42A88N8814 63.3896 HISLOP

370

442'

45-25



GOLDEN ARROW MINES LTD.

D.D.H. 45-25

Logged by:

1 in. = 20 ft.



42AR0006014 03.3096 H1SL0P

45-26

775

GOLDEN ARROW MINES LTD.

D.D.H. 45-26

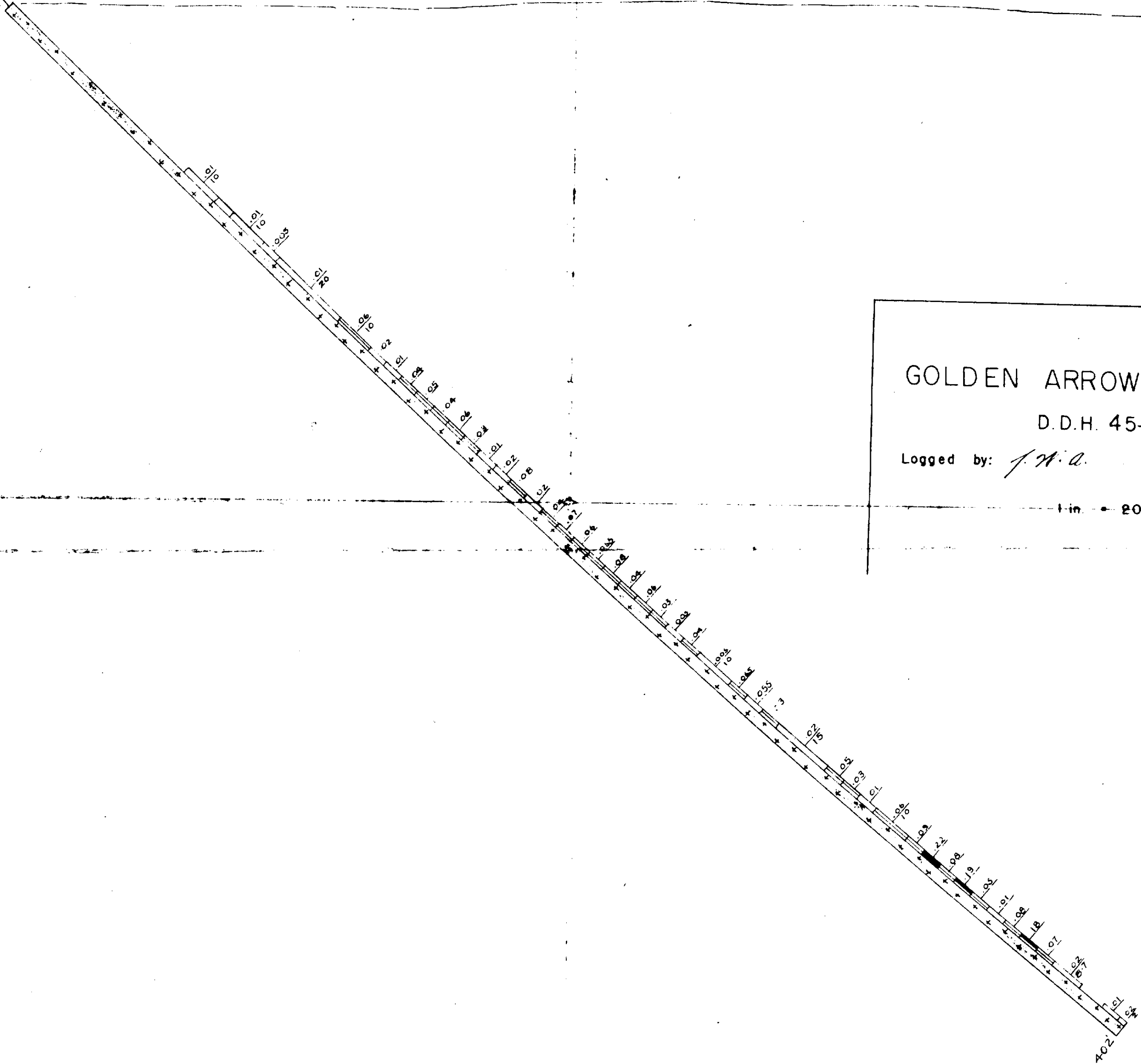
7-47

1 in. = 20 ft.



42489W814 63.3896 H1SL0P

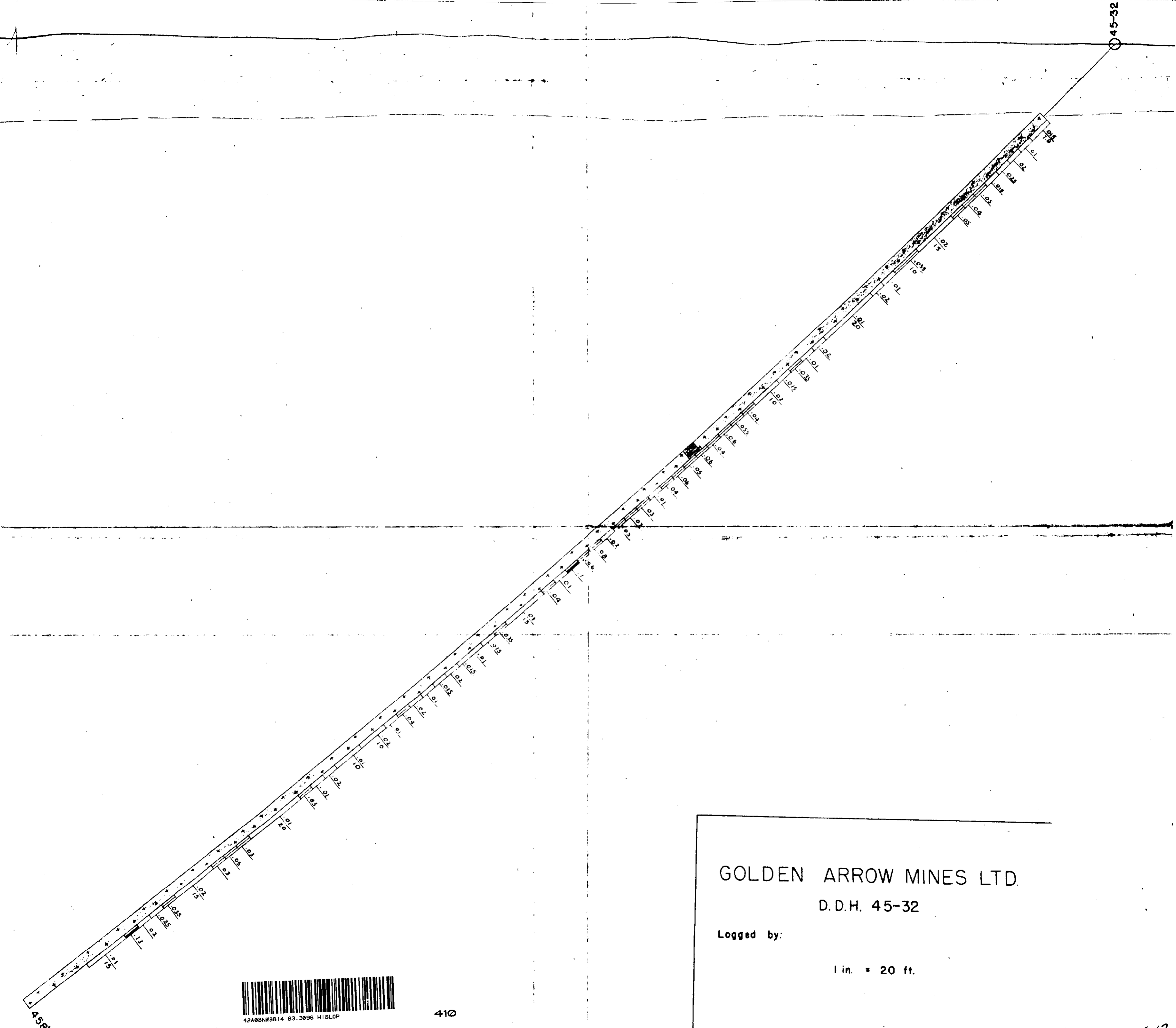
45-29



GOLDEN ARROW MINES LTD.
D.D.H. 45-29
Logged by: J.N.A.
1 in. = 20 ft.
T-47



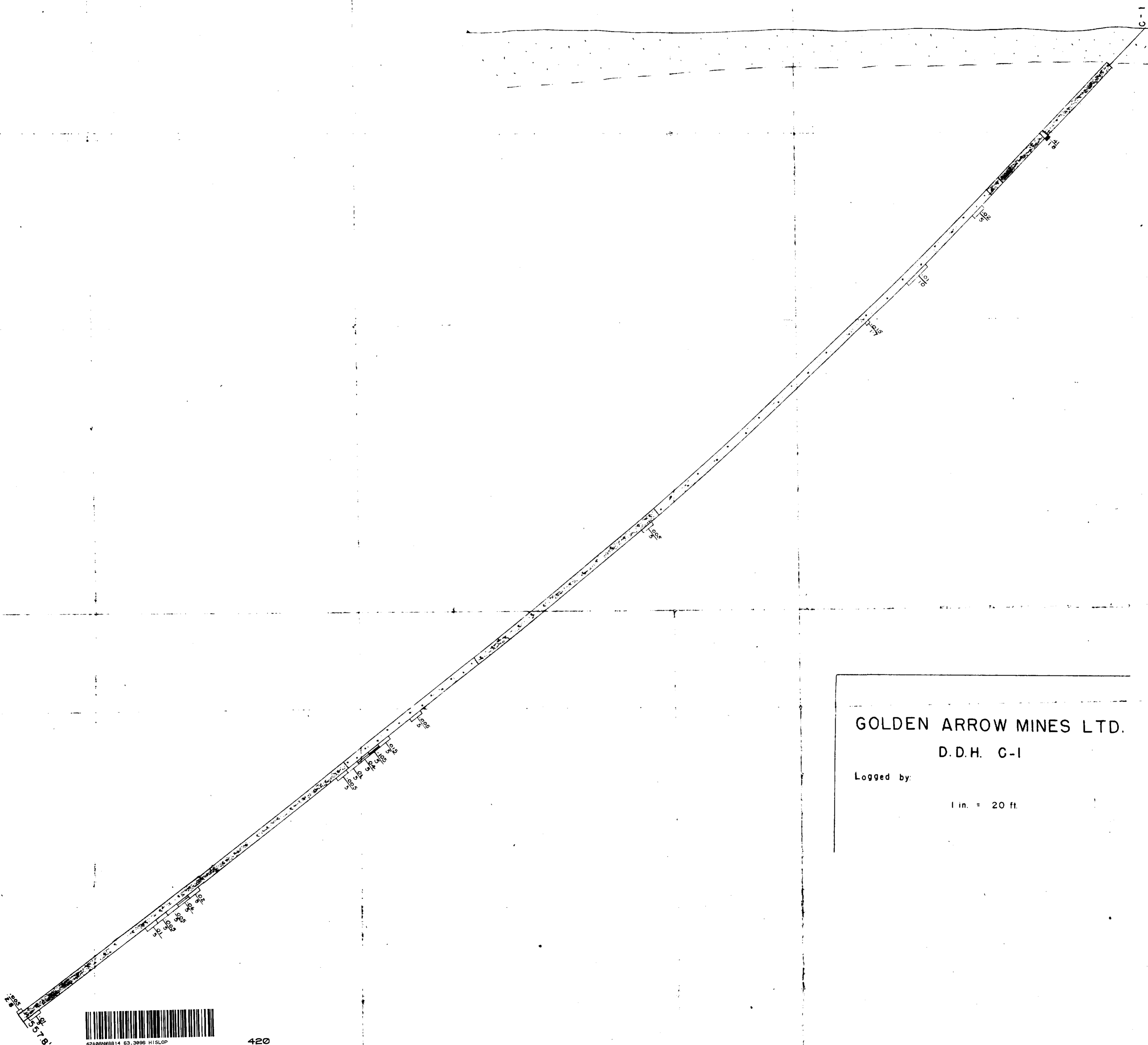
42A08NW6814 63.3096 HISLOP



GOLDEN ARROW MINES LTD.
 D.D.H. 45-32
 Logged by:
 1 in. = 20 ft.



T-47



GOLDEN ARROW MINES LTD.

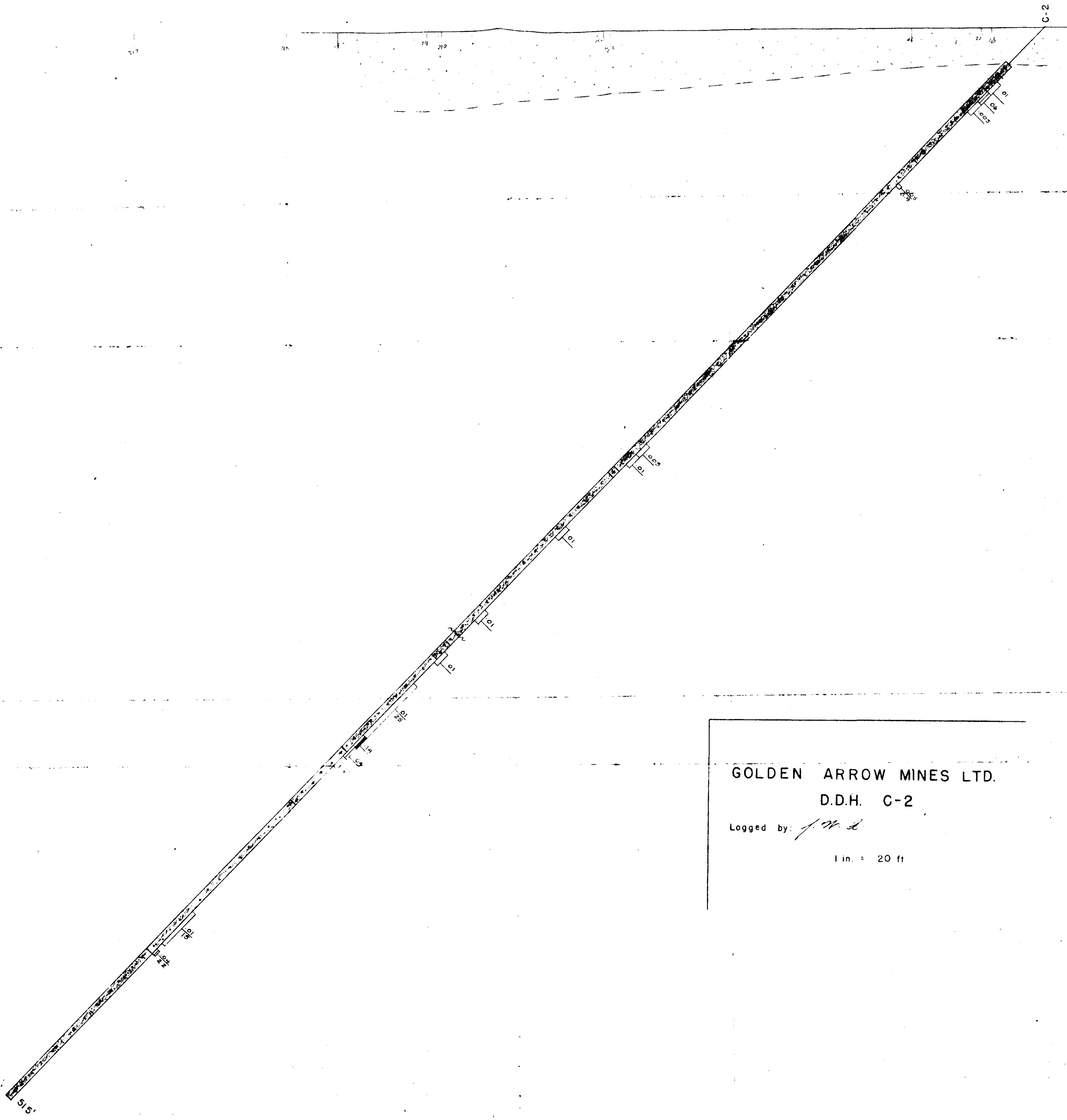
D.D.H. G-1

Logged by:

1 in. = 20 ft.

78-1-15-78





GOLDEN ARROW MINES LTD.

D.D.H. C-2

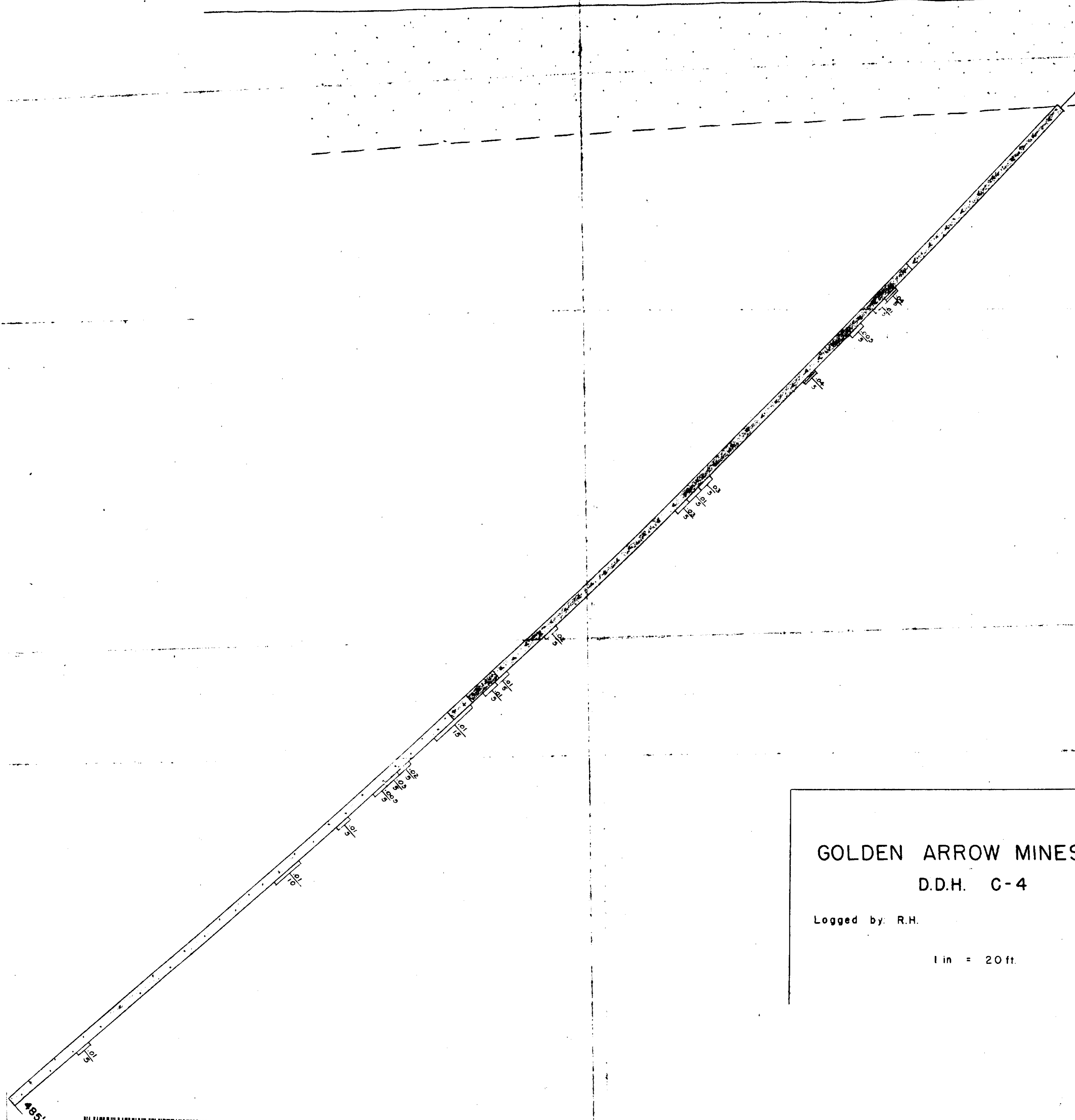
Logged by: *J. M. L.*

1 in. = 20 ft



42A88N8814 63.3896 H1SL0P

C-4



GOLDEN ARROW MINES LTD.

D.D.H. C-4

Logged by: R.H.

1 in = 20 ft.

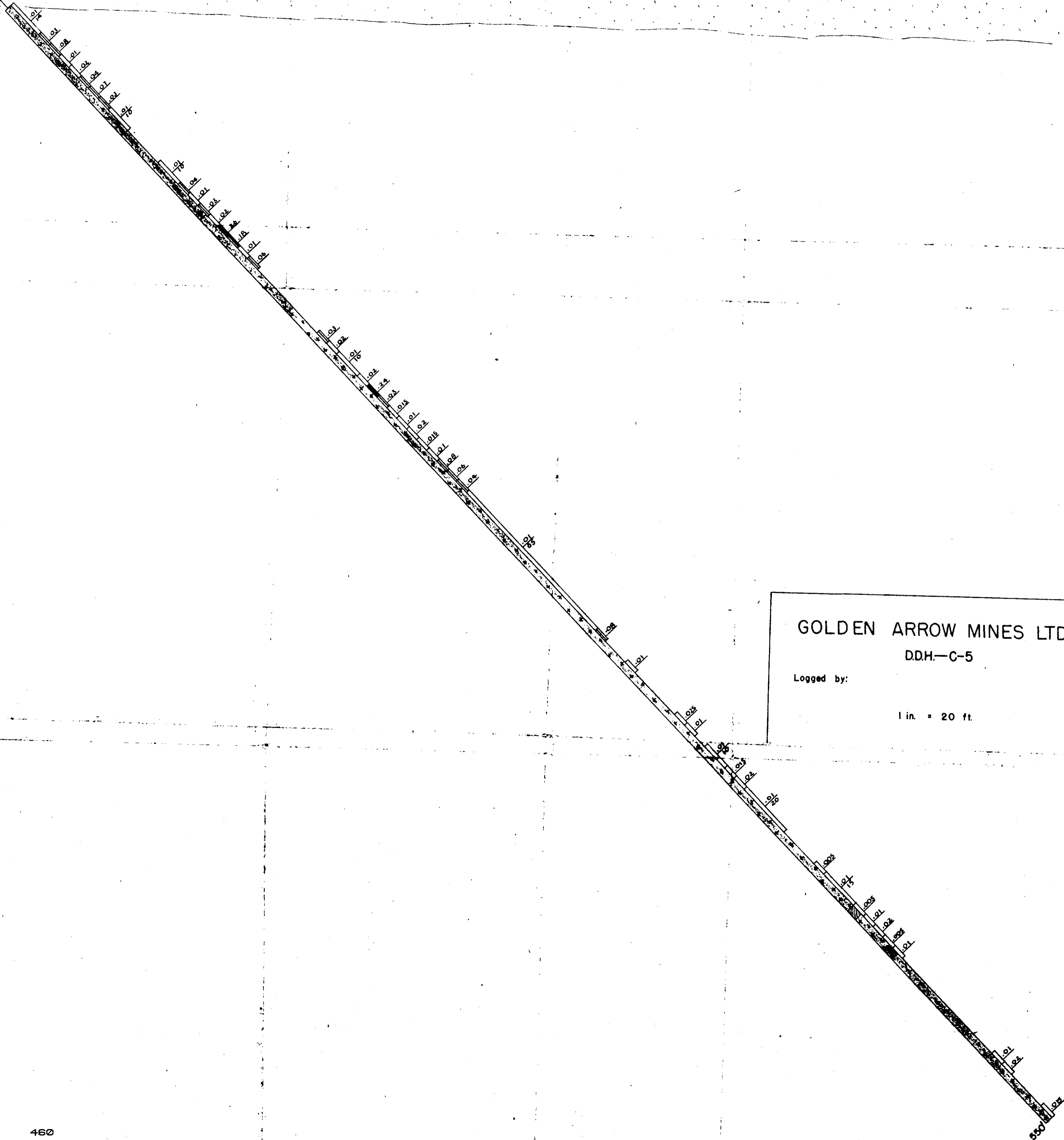


42A08NW8814 63.3896 HISLOP

450

T-42

DDH-C-5



GOLDEN ARROW MINES LTD.

DDH-C-5

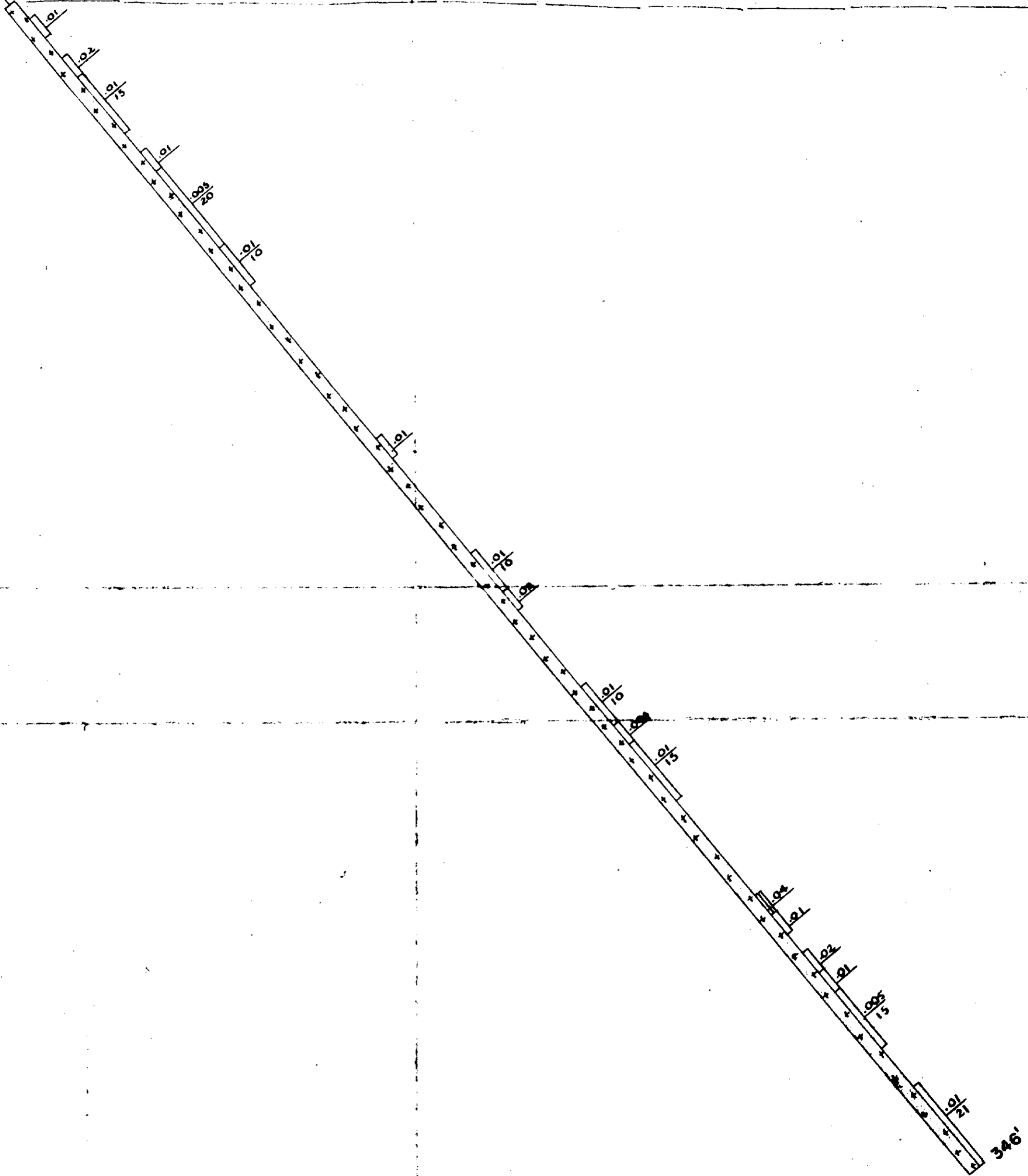
Logged by:

1 in. = 20 ft.



42A88N8014 63 3896 H1SLOP

DDH.-C-6



42A00NW8B14 63.3096 HISLOP

470

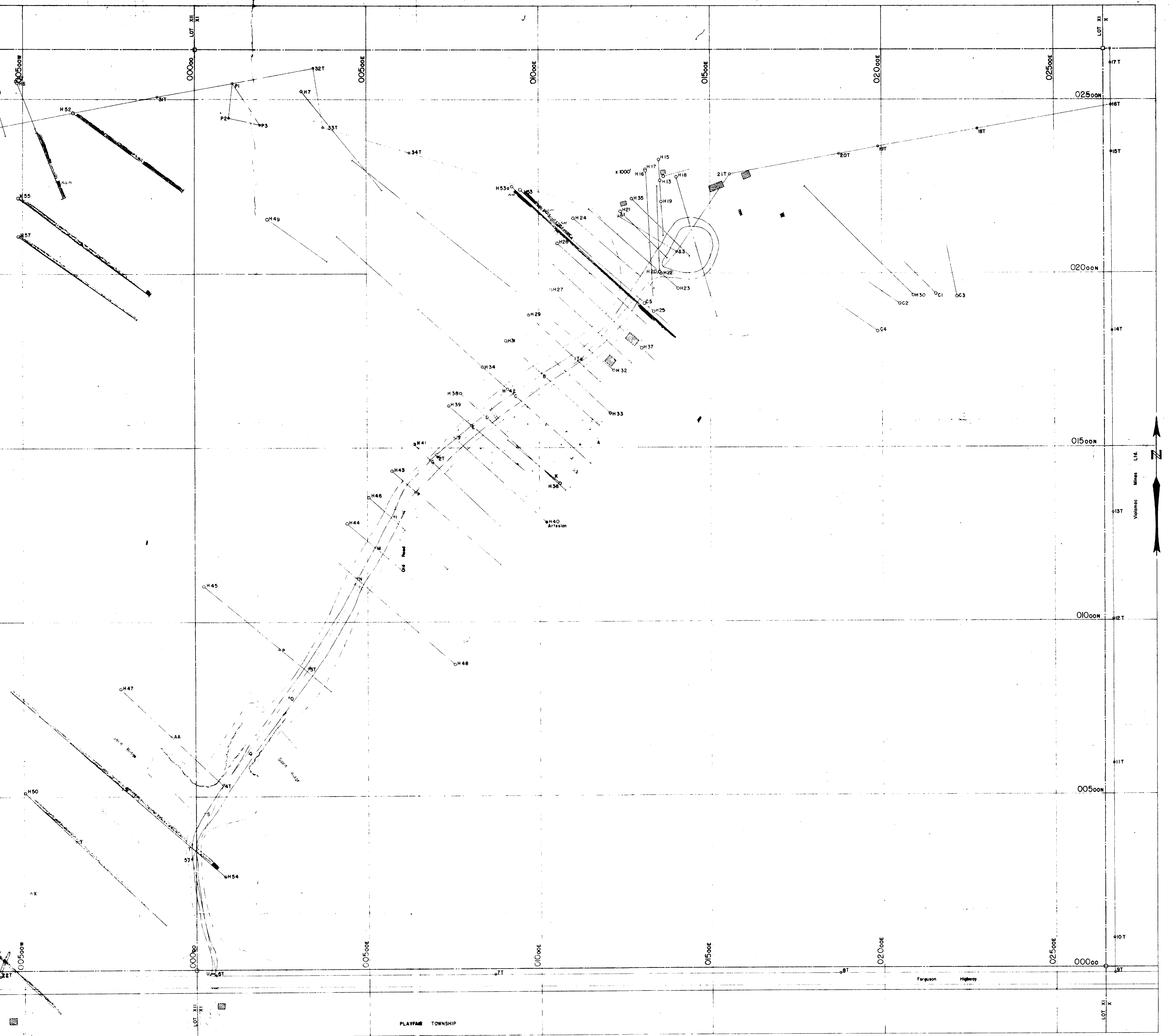
GOLDEN ARROW MINES LTD.

DDH.-C-6

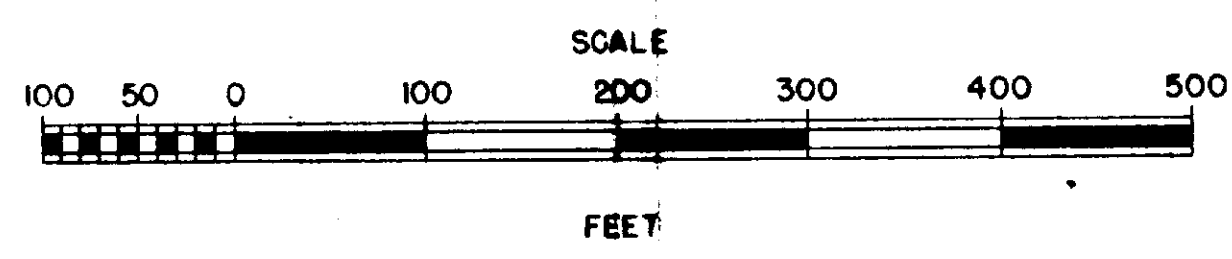
Logged by:

1 in. = 20 ft.

F-47



SURFACE PLAN
of
GOLDEN ARROW MINES LTD.
HISLOP TOWNSHIP
ONTARIO



LEGEND

- Diamond Drill Hole..... H 42
- Trench.....
- Edge of Clearing.....
- Surface of Road.....
- Culvert.....
- Spring.....
- Stream.....
- Swamp or Muskeg.....
- Sand Banks.....

1/2
1/2
3