



52A15SE0005 OP93-062 GLEN

010

L.

DORION ONTARIO
DORION Pb, Zn PROJECT
DORION AND GLEN TOWNSHIPS
LATITUDE $48^{\circ} + 50'$
LONGITUDE $88^{\circ} + 40'$
N.T.S. 52A / 15 S.E.
EAST OF THUNDER BAY ONT.
AND NORTH OF
DORION ONTARIO

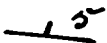

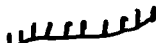


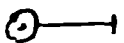




GEOLOGY PROSPECTING AND
SAMPLING
MAIN MINERALS - ZINC + LEAD
FIELD SEASON 1993

O.P.A.P. FILE NUMBER
OP93 - 062

ONTARIO PROSPECTORS
ASSISTANCE PROGRAM

LEGEND

2.

IG	GRANITE
S2	SANDSTONE
SH	DOLOMITE
BB	MUDSTONE
BB	DIABASE
⋯⋯⋯	OUTCROP BOUNDARY
X	SMALL OUTCROP
	BEDDING
	FAULT
	SCARP - LEDGE
	SHAFT
	TRENCH
	DIAMOND DRILL HOLE
	ACCESS ROAD
	STREAM
	CLAIM POST
	SWAMP
ZN	SPHALERITE
Pb	GALENA
▲	SAMPLE LOCATION
217312	SAMPLE NUMBER

SCALE - METRES



1 : 2,500

Darion and Alton Townships 3.
Darion Lead Zinc Property

Darion Claims

1195852	-	(2 units)
1195853	-	(3 units)
1195854	-	(8 units)
1195855	-	(3 units)
1195856	-	(1 unit)
1195857	-	(2 units)

The claims straddle the North
boundary of Darion Twp. and
the South Boundary of Alton
Twp.

See Claim Prints E-651
Darion Twp and
E 100 Wolf Lake sheet.

Property Location

4.

1. Travel by motor vehicle from
Thunder Bay to Parion Village
fish hatchery road via
highway 17-11 =
80 Km. one way

2. Then travel northerly on main
gravel access road 10.5 Km.

3. From main access road westerly
to claim group 3.5 Km.

4. 80.0 Km

+ 10.5 Km

+ 3.5 Km

= 94 Km x 2 = 188 Km

Round trip return from
Thunder Bay to Parion claims

188 Km. travel return trip.

Geology and Prospecting

5

The mining claims will be identified with their claim number, number of units in the claim, and an alphabetical letter will identify the Claim Unit. Eg.

1195854

(8 UNITS) and
Claim Unit "A", "B", "C" and
so on as the case may be.

To identify rock type and mineral locations, traverses will be made along claim lines and generally north and south faces and compass traverses in each claim and claim unit, at \pm 100 Metres apart.

May 30/93

6.

From access road prospected
North on east claim line claim

1195852 North Unit "A"

small o/c S^4 mapped on road. o/c

i/c mapped at 90 meters, found
claim post #1 at 125 meters

North. o/c i/c mapped north of
claim line at \pm 200 meters West.

Found Post #4 400 meters west.

Small swamp around Post #4. o/c

i/c at 90 meter S. large o/c.

at 190 M. South Post #1 for

Claim 1195853 found 70 meters S.

of Post o/c S^4 found. (2 o/c

i/c found at Post #1 Claim

1195853 and at \pm 10 meters West.

P.B. 2W. found at post o/c S^4 .

Access Road found at 280 meters S.

At Road small o/c S^4 Worked

in the N. Part of North Unit

"A" to finish the day. See

Plate #1 North Unit "A"

CLAIM 1195852



May 31 / 193

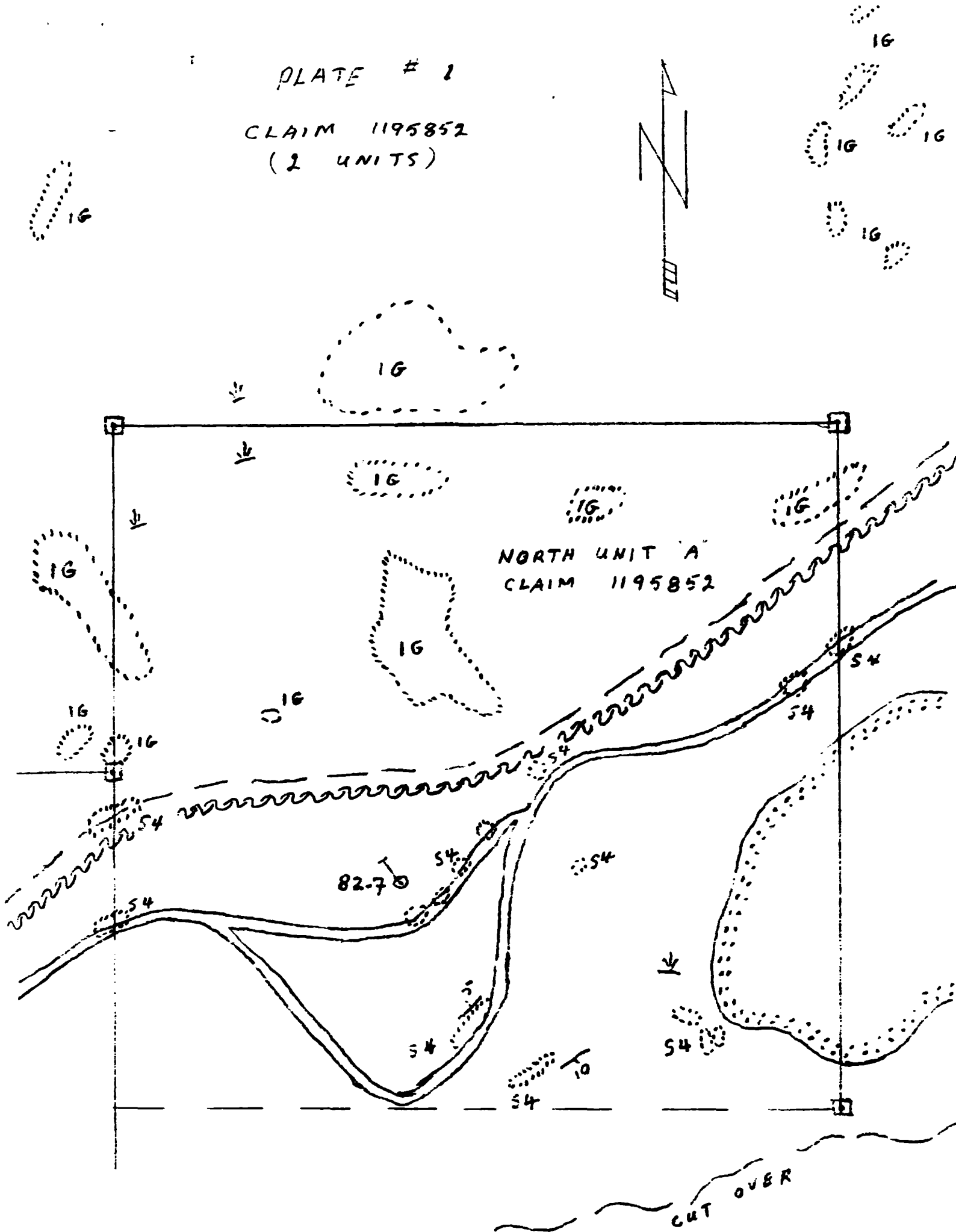
Prospecting S. part of
North Unit "A" Claim 1195852
Lake found 50 metres South
on east line. Traversed access
Road west and mapped small
o/c (54) where seen along road
and at W. claim line claim
1195852. @ 100 Metres S.

found line part marked 400 M.
North of Post # 3 on west line
claim 1195852. Traversed
and worked area between North
unit "A" and South Unit "B"
claim 1195852. Encountered
sparse o/c and thick bush
South of access road.

See Plate # 1 North Unit
"A" Claim 1195852.
o/c Mapped is (54)

C

PLATE # 1
CLAIM 1195852
(2 UNITS)



June 1193

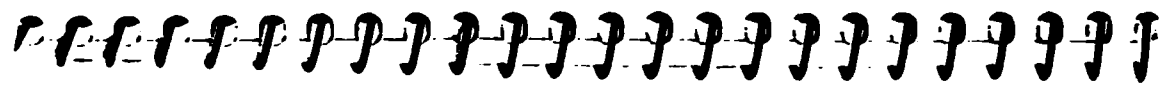
Began prospecting the West line South from line Post 400 M. North of Post # 3 and at \pm 215 Meters S Found Post # 2 for Claim 1195853. No C/c Found.

Continued S. 185 Meters to Post # 3 Claim 1195852 (2 units) South Unit "B" No C/c.

135 Meters in cut over area, Second Growth Poplar and thick Brush. Worked and prospected the west $\frac{1}{2}$ of Unit "B" claim 1195852. ~~no~~ No C/c.

From South line 1195852 Unit "B" \pm 160 Meters N. found Small Pond. The Pond is N. of the Cut over area. Prospected North to access Road. No Outcrop found.

See Plate # 2



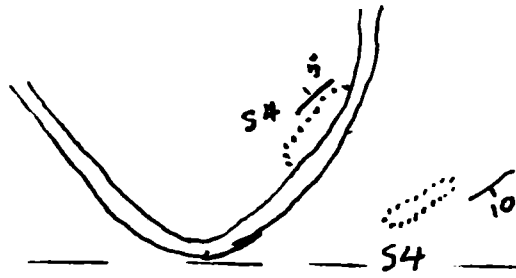
June 2/93

9.

From Post #3 1195852
South Unit "B". Traversed
to Post #2 claim 1195852
No c/c. Found lake just east
of post #2 and east of
the east line claim 1195852.
At 185 Metres N. on the east
line found Post #3 of claim
1195856 just inside cut over
area. Traversed N. \pm 215 Metres
to Post #4 of claim 1195856
and Line Post marked 400 m.
South of Post #1 claim
1195852. Marked and prospected
the east $\frac{1}{2}$ of 1195852
South Unit "B" No c/c.
Most of the area is cut over,
and populated with Second
Growth Poplar and thick
Brush.

See Plate #2

PLATE # 2



1195852
2 UNITS

SOUTH UNIT "B"

NO
o/c

CUT OVER

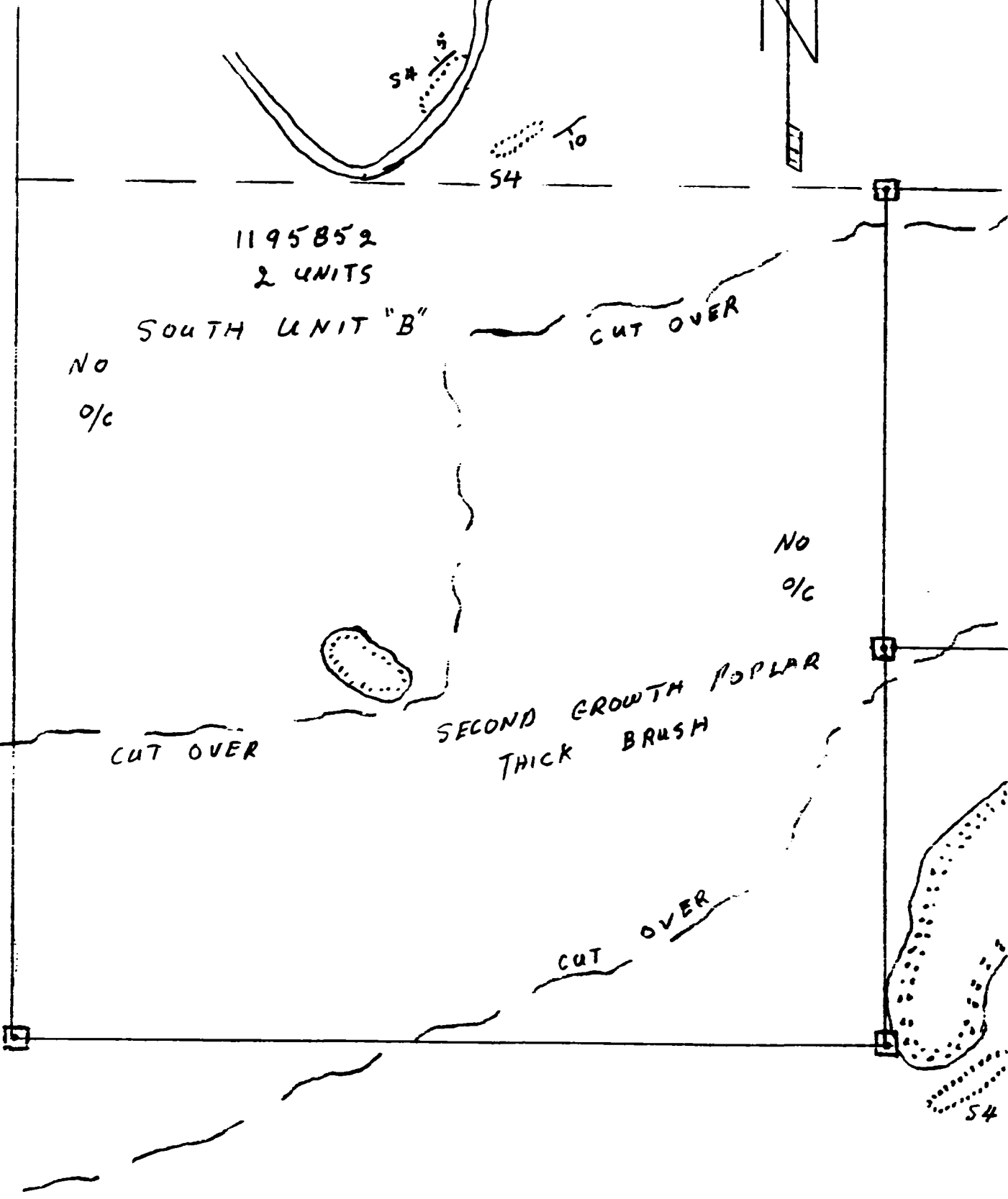
NO
o/c

SECOND GROWTH POPLAR
THICK BRUSH

CUT OVER

CUT OVER

S4

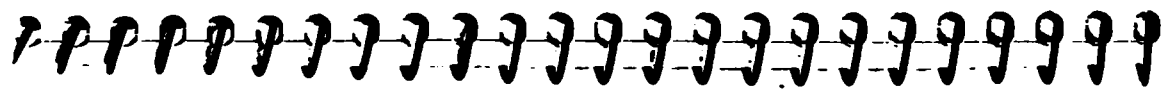


June 5/93

From line post 400 Metres east of Post #3 Claim 1195853 Unit "A" Traversed west, mapped small o/c (16) 10 Metres west of line post. Walked west to Post #3 claim 1195853 Then north to Post #4 1195853.

Bad bush put crap Nil. From Post #4 traversed east to line Post 400 Metres. o/c (16) at line post. Traversed South from the line post end of and found a small creek at + 200 Metres S.

Creek flows N.E. Walked 50 metres S.W. along creek to a depression and mapped it as a fault. Walked out to starting point. A depression is seen west of starting point line post. Mapped this as a fault. Continued South along fault and at 100 Metres S. found Pb. Zn. at a trench at the contact of Granite and Palomite. See Plate #3



June 6/93

Prospected and worked in the west part of claim 1195853 Unit "A" Thick Bush and some old Poplar and a few pine trees.

June 19/93

Prospected the east part of Unit "A" claim 1195853 Outcrop sparse or poor. Some in the N. E. Part of Unit "A" a little swamp in the South central part of the claim Unit. 2 outcrops (15) prospected in the southern part of the east part of Unit "A" Thick bush and sand and clay Till under the Homes. See Plate #3.

PLATE # 3



UNIT "A"
CLAIM 1195853
(3 UNITS)

16

16

16

NO
o/c

NO
o/c

NO
o/c

NO
o/c



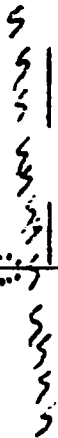
16

GLEN T.W.P.

16

DORION T.W.P.

16



June 20/93

Prospected west side of Unit "B"
 Claim 1195853. Traversed N.
 from \pm 50 Metres E of Line
 Post 400 Metres east of Post #3
 Claim 1195853 Unit "A". No
 o/c to North claim line. \pm 85
 Metres east of Line Post 400
 metres east of Post #4 found a
 lake. Traversed S. along water
 course to another lake. mapped
 2 (16) granite outcrops west of
 a long swampy lake shore. o/c
 (16) West of S. end of Lake. Walked
 S. to Road. Bad Bush. Thick.

June 21/93

Returned to Line Post 400
 Metres east of Claim Post #3
 Claim 1195853 Unit "B" and
 traversed east. The South line
 of claim 1195853 is also
 the Township line between Dorion
 and Ylon Townships.

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF

June 21/93

13

at 80 metres east found and mapped a large c/c (16). A fault was seen and mapped into the S. part of the east lobe of the (16) Granite c/c. The outcrop extends S. of the claim and T.W.P. line. At \pm 110 metres east of the line Post 400 metres east of Post #3 Claim 1195853 Unit B a Survey post and an S.I.B. "Steel clean Bar is found, locating the old Mining Location 7L N.E. Corner. Traversed the claim and T.W.P. line east where an old adit is found fin^d. S. of the claim + T.W.P. line. Crossed a creek feeding water to the line of lakes seen June 20/93. From the creek 150 metres east is Post (Line Post) 400 metres west of Post #2 Claim 1195853. No c/c found. Traversed N. 140 metres to Road access, N.E. trending fault and contact

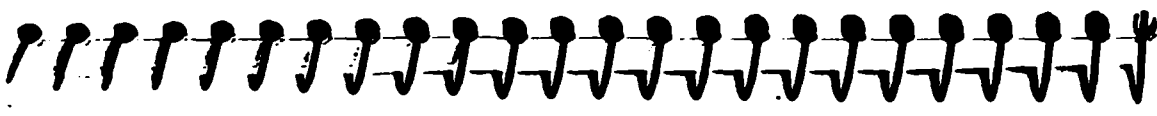
between granite to the North (16)¹⁴
and Sandstone (52) Dolomite
mudstone (54) to the South.

East of this location Pb. 2N is
found in a long trench across
the Dolomite Mudstone (54)
outcrop. West of this point is
the Bishop shaft where Pb. 2m.
is seen.

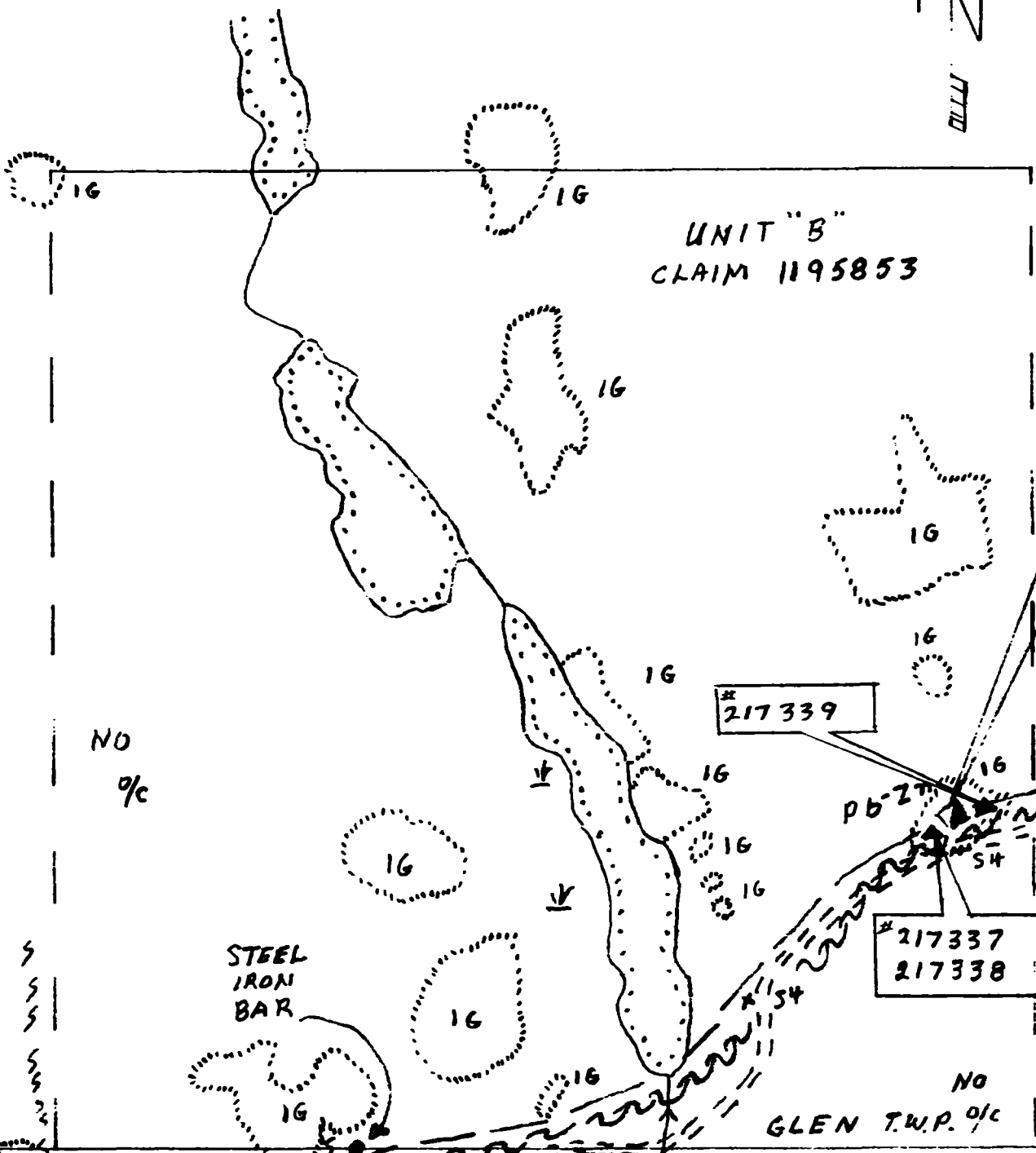
Prospected N. to line Post
800 Metres east of Loc #4 Claim
1195853 Unit "B" Traversed W.
50 Metres then South where
(16) outcrops were prospected & mapped
South to Bishop Pit.

June 22/93

Prospected granite c/c
(16) on the east side of a water
course flowing N. and the east
side of the line of lakes seen
(3 lakes) June 20/93, to the
N. boundary of Claim 1195853
Unit "B" SEE PLATE #4



UNIT "B"
CLAIM 1195853
(3 UNITS)



NO
o/c

STEEL
IRON
BAR

217339

217337
217338

NO
GLEN T.W.P. o/c
DORION T.W.P.

SANDOW
ADIT

June 23/93

Prospected the North part of Plot "C."
Claim 1195853 north of the access
road. Prospected and mapped
"16" outcrops where seen on
traverses to Post # 1 claim
1195853 (3 units.) The fault
separating granite "16" to the
North and "S.4" outcrop to
the south was noted and
prospected on all traverse lines.
The fault was followed and
Pb. Zn. minerals were seen in
the Dolomite mudstone fault
contact area just North of
the access Road. The
Granite "16" and sedimentary rocks
"S.4" mark the Fault contact which
tends N.E. across the claim.
1195853 Unit "C." see
Plate # 5

C

June 24/93

Traversed and prospected
the South part of claim
1195853 Unit "C"

An access road \pm 80 metres
east of the Bishop shaft in
the west part of Unit "C"
claim 1195853 trends S.E.
in the S.W. part of Claim
1195853 Unit "C" and
crosses the claim line about
160 metres east of line post
400 metres west of post #2.

No O/C was found in the
south part of Unit "C"
S. of the road O/C "3, 4"
was mapped along the road
in Unit "C" claim 1195853.

See plate # 5.

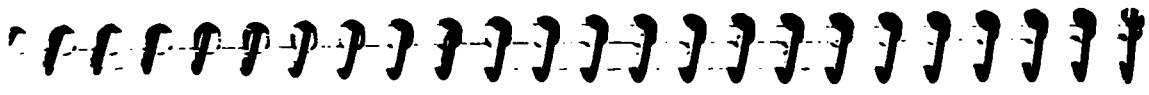


PLATE # 5



16

16

16

UNIT "C"
CLAIM 1195853 - (3 UNITS)

16

54

54 NN

54

54

16

BISHOP
SHAFT

16

54

54

Pb-Zn

54 Pb-Zn

Pb-Zn

54

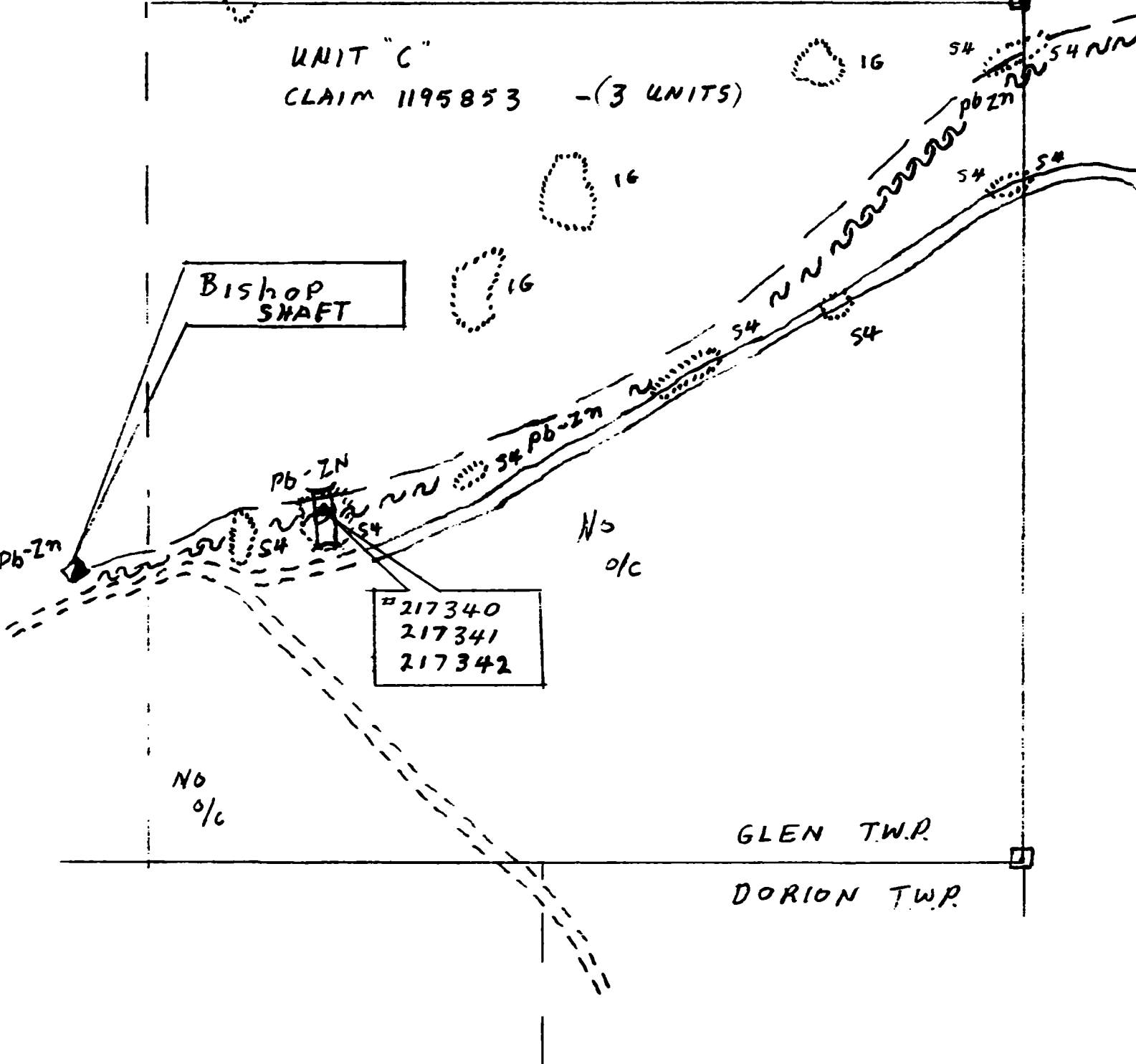
#217340
217341
217342

No
o/c

No
o/c

GLEN T.W.P.

DORION T.W.P.



June 25/93

17.

Claim 1195854 (8 Units)
Prospected the west part of
Unit "A" 1195854. Traversed
North from line post 400 Metres
N. of Post # 2 along west claim
line and the Bat Cave Provincial Park
boundary, to post # 4. Found
S.I.B. ("Steel Iron Bar") marking
the N.W. corner of old Location
72 and the Bat Cave Park boundary.
Found small diabase C/c 165 metres
North of line post. 16 C/c
were found in the S. part of
the west part of the claim Unit "A"
1195854. Thick Brush and
a few scattered old Poplar
trees mixed with scattered
Spruce and Pine were seen.
Prospected the Pavilion Mine Shaft.
The granite contact is Brecciated
and the S.I.B. Unit is Brecciated.

— See Plate # 6. —

The S.I.B. at N.W. Corner of Location 76
is also the N. Boundary of Pavilion and Ybr. Twp.

July 1/93

19.

Prospected the west part of Unit "B" claim 1195854 from Line Part 400 Metres N. of Post #3. Traversed S. o/c (S.G.) 50 metres S. and at \pm 95 Metres S. the (S.G.), (S.H.) contact was found. A few metres N.W. along the fault contact two old pits with P.b. Zn. Minerals were found. The P.b. Zn. contact fault area will be sampled at a later date. Sparse or poor outcrop is found. Some outcrop (S.H.) and (S.Z.) was found on the N. shore of Cavern Lake.

See Plate #7

July 2/93

Continued Prospecting the centre part of UNIT "B" 1195854 South of Porcupine Mine shaft. Only some small o/c found (S.H.) and (S.Z.) o/c was found along the N. shore of CAVERN Lake.

See Plate #7

July 3/93

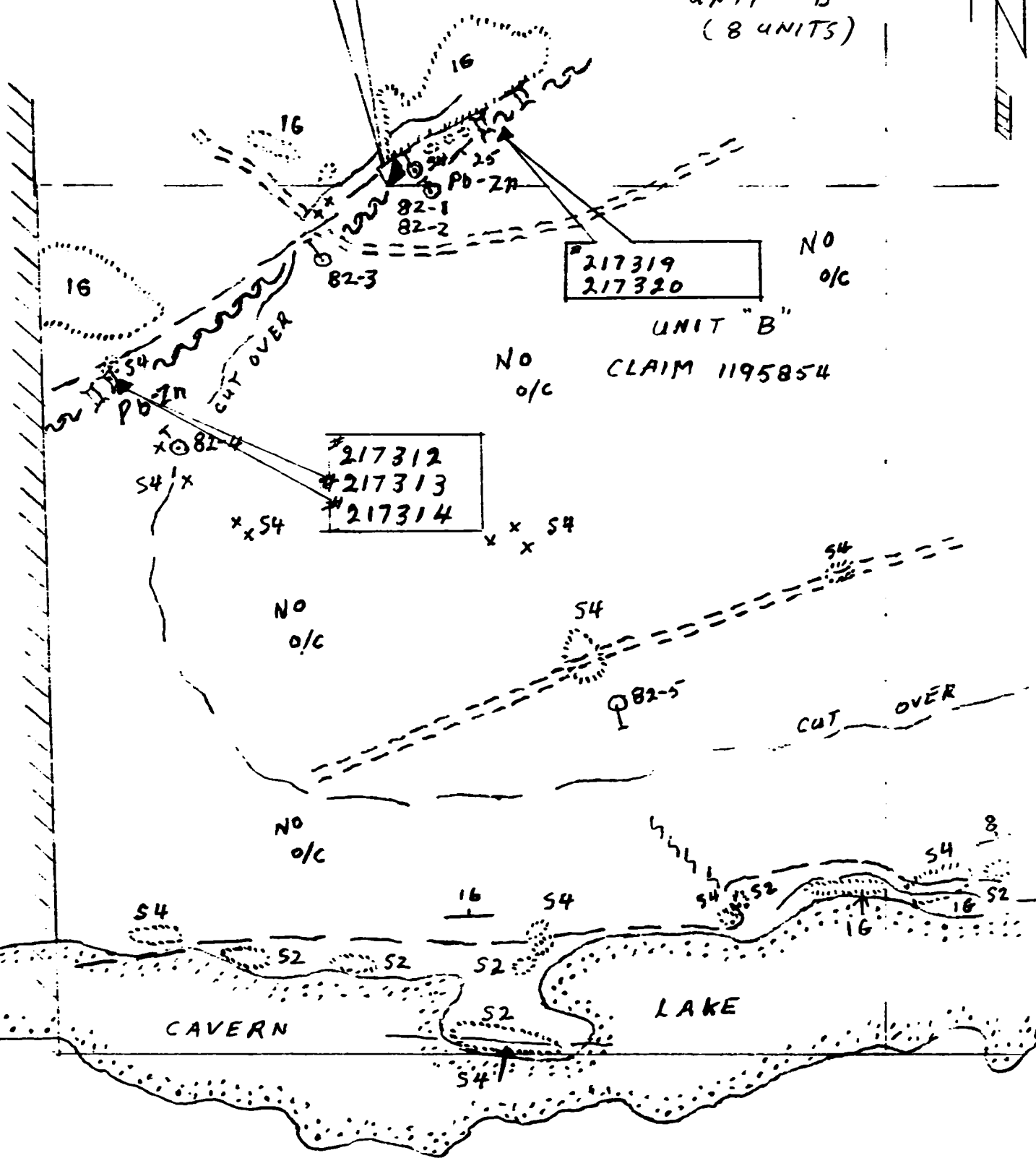
Inspected the east part of claim
 1195854 UNIT "B". Small
 poor out crop is found. An
 access Road is found in a cut
 over area from midway on
 the east side of Unit "B" trending
 South Westerly. C/c (54)
 found and mapped on this road.
 C/c (54) and (52) is found
 on the N. shore of Cavern L.
 One c/c (16) was found on the
 N. shore of Cavern Lake on the
 east side of UNIT "B".
 just west of the east line of
 Unit "B". About 70 Metres
 west a N.W. trending fault
 is found near. The contacts
 between (16) and (52) Rocks
 and (54) and (52) Rocks
 is mapped with bedding \pm 16

See Plate # 7.

DORION
MINE

PLATE # 7

CLAIM 1195854
UNIT "B"
(8 UNITS)



BAT CAVE PROVINCIAL PARK

217319
217320

NO
o/c

UNIT "B"
CLAIM 1195854

NO
o/c

217312
217313
217314

NO
o/c

NO
o/c

CAVERN

LAKE

S4

S2

S2

16

S4

S4

S4

S2

S4

S2

16

S2

82-4

S4/x

x S4

x S4

x

S4

S4

S4

82-5

CUT OVER

CUT OVER

Pb-Zn

82-1

82-2

82-3

16

16

16

S4

Pb-Zn

25

Pb-Zn



July 4/93

21.

Prospected the N.W. Corner of Unit "C" claim 1195854. North of the N.E. trending access road. ± 110 Meters N. of the access road on the west side of Unit "C". Pb. Zn. minerals are found along a fault contact between granite rocks (16) and sediment rocks (54). Much of this area is cut over. (16) and (54) c/c is mapped where found.

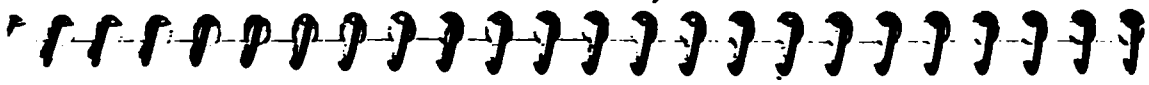
See Plate # 8

July 5/93

Prospected the N.E. part of Unit "C" claim 1195854 North of the access road. North of the access road. Pb. Zn. minerals are again found along the fault contact between (16) rocks to the N. and (54) rocks to the S. The fault contact with Pb. Zn. minerals passes just S. of N.E. Corner of Unit "C" where S.I.B. and corner post for the N.E. corner of old location

76 is located. a Brass plate is fixed to the S.I.B. "Steel drum Box and inscribed - Ontario Natural Resources Crown Survey 1984. The only place Pb, Zn. Minerals are found is along the Brecciated fault contact between the Granite and sedimentary rocks. Along the contact the granite is seen fragmented and Pb, Zn. mineral is seen in the granite and around the granite fragments and Breccia for up to 2 metres. The (S4) sedimentary rocks Dolomite, mudstone in the fault hosting Pb, Zn. mineral is grey in colour + bleached white on surface. This unit is also Brecciated and is up to 25 Metres wide. The best Mineral seen on surface is near the granite contact 1 to 3 metres wide, with narrow lenses of Mineral seen out from the contact.

See Plate #8.



July 17/93.

23

Prospected the South part
of ~~the~~ Unit "C" claim 1195854
No net trap was found.

Swamp is found in the S.E.
Corner of Unit "C" 1195854.

N. of the swamp a till
covered scarp is found.

An access road is found
trending S. to S.W. in the
S.E. Corner of Unit "C"
Claim 1195854.

See Plate # 8

Plate # 8 covers work
performed on July 4/93
July 5/93 and to-day
July 12/93.

PLATE # 8
CLAIM 1195854
UNIT "C"
(8 UNITS)

GLEN TWP.

DORION TWP.

STEEL
IRON
BAR

217331
217332
217333

217325

217329

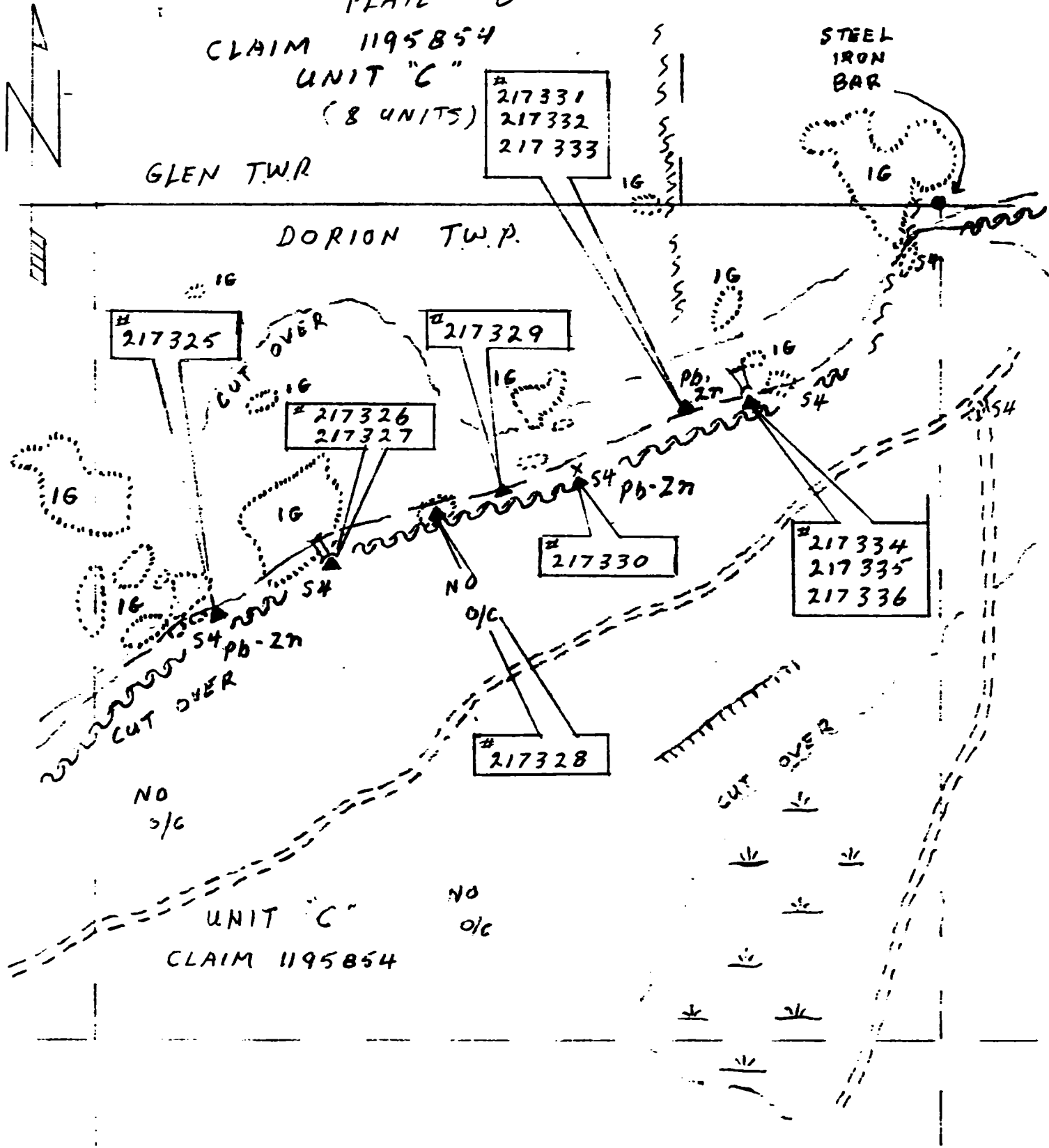
217326
217327

217330

217334
217335
217336

217328

UNIT "C"
CLAIM 1195854



July 14/93.

Unit "D" claim 1195854.

Prospected the west part of Unit "D" north of Cavern L.

Outcrop is scarce except along the N. shore of Cavern lake in the S.W. Part of Unit "D"

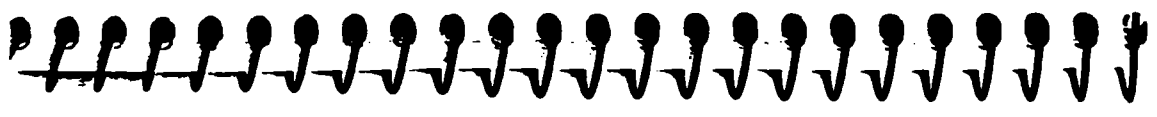
On the lake shore out crop (S2), (S2) and (S4) is found. Bedding is 8° ±, 10° ±, and 20° ±.



Some small o/c is found on the access road trending from the West side of Unit "D" 1195854 N.E. then east in the North Part of Unit "D". The Prospected is mostly out over except along the shore of Cavern L.

Brush is second growth. Poplar and thick Brush.

See Plate # 9.



July 16/93

Prospected the east part of
Unit "D" 1195854 North of
Cavern Lake. Little c/c
found. Second growth
Poplar and thick brush
covers the area.

SEE PLATE # 9.

July 17/93

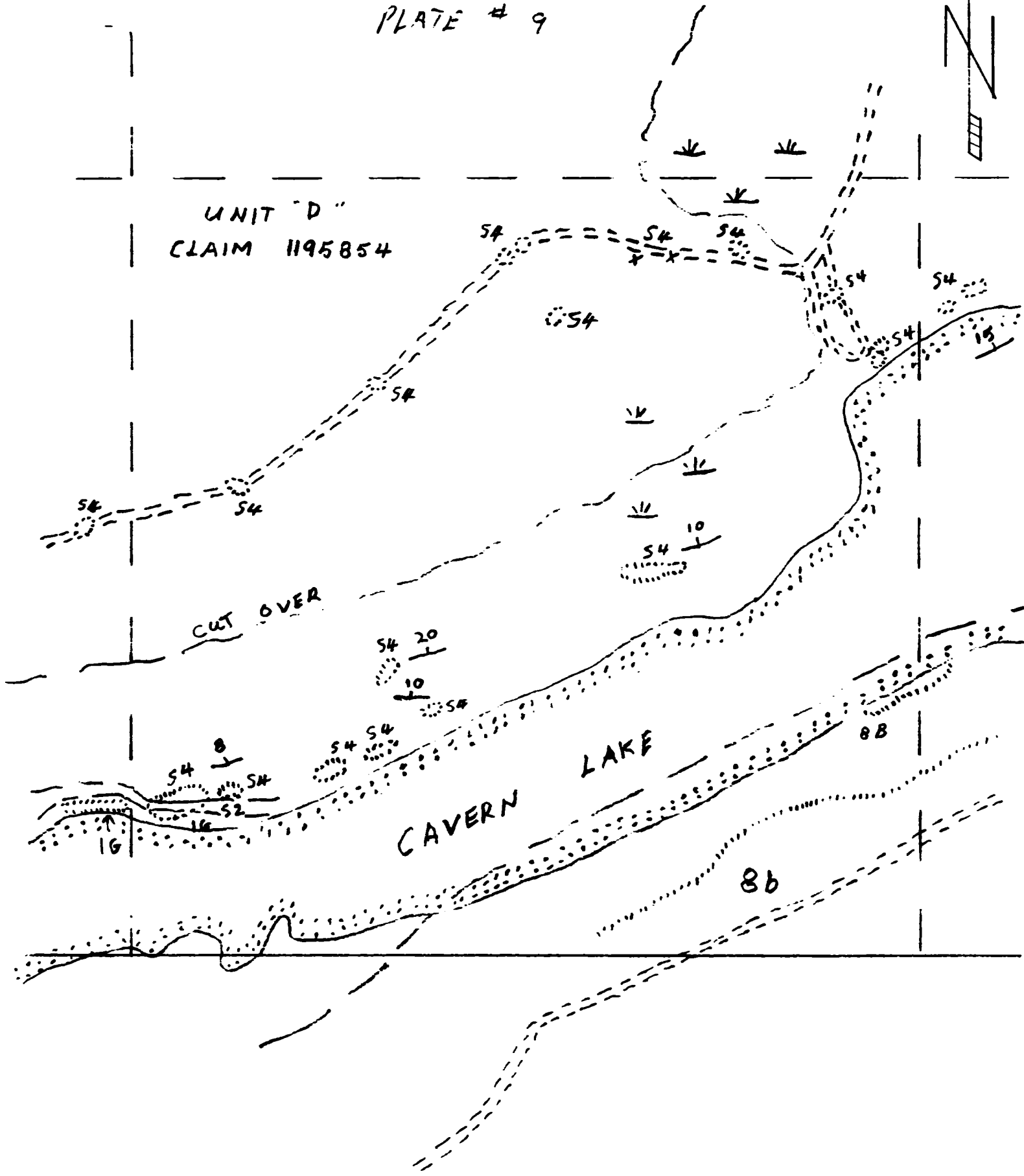
Prospected
Unit "D" claim 1195854
South of Cavern Lake.
An access road services this
area trending around the
east end of Cavern Lake.
Found Diabase on the shore
of Cavern L. on the east
side of Unit "D". A large
outcrop ^(S.B.) overlooks
Cavern Lake. ^(S.B.) outcrop
was mapped into the S.W. corner
of Unit "7" claim 1195854.

See Plate # 9.

PLATE # 9



UNIT "D"
CLAIM 1195854



CUT OVER

CAVERN LAKE

86

88

16

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

S4

UNIT "D"
CLAIM 1195854

PLATE # 9

July 18/93

Prospected the west part of
UNIT "E" claim 1195854 and
the NW Corner of Unit "F"

North of Cavern Lake. Some
O/C ⁵⁴ ₅₄ found along the
shore of Cavern L. in Unit "F"
and Unit "E" 1195854. Very

little outcrop found in the
west part of Unit "E". A
small lake is located N. of the
east end of Cavern Lake. An
access road is located near the

W. side of Unit E trending
S. to Cavern L. where road
is cut. An adit called the

SANDOW ADIT is found west of
the creek flowing north and
along side of the access road.

The Porcupine + Glen Turp's
Boundary Township line is just
North of the Adit.

See Plate # 10.

July 19/93

Unit "E" claim 1195854
 Prospected the N.E. part
 North of Cavern Lake and
 east of the North flowing creek
 and lake seen from the west
 part of unit "E" 1195854.

No o/c Found.

The area is covered with
 second growth Poplar \pm 15
 years old and thick brush.

See Plate # 10.

July 20/93

Prospected the West part
 UNIT "F" claim 1195854 S. of
 Cavern Lake. o/c (88) was found
 on the shore of Cavern L. and a
 large (88) o/c in the S.W.
 Corner of UNIT "F" overlooking
 Cavern Lake. An access road
 crosses this large o/c.

SEE PLATE # 11

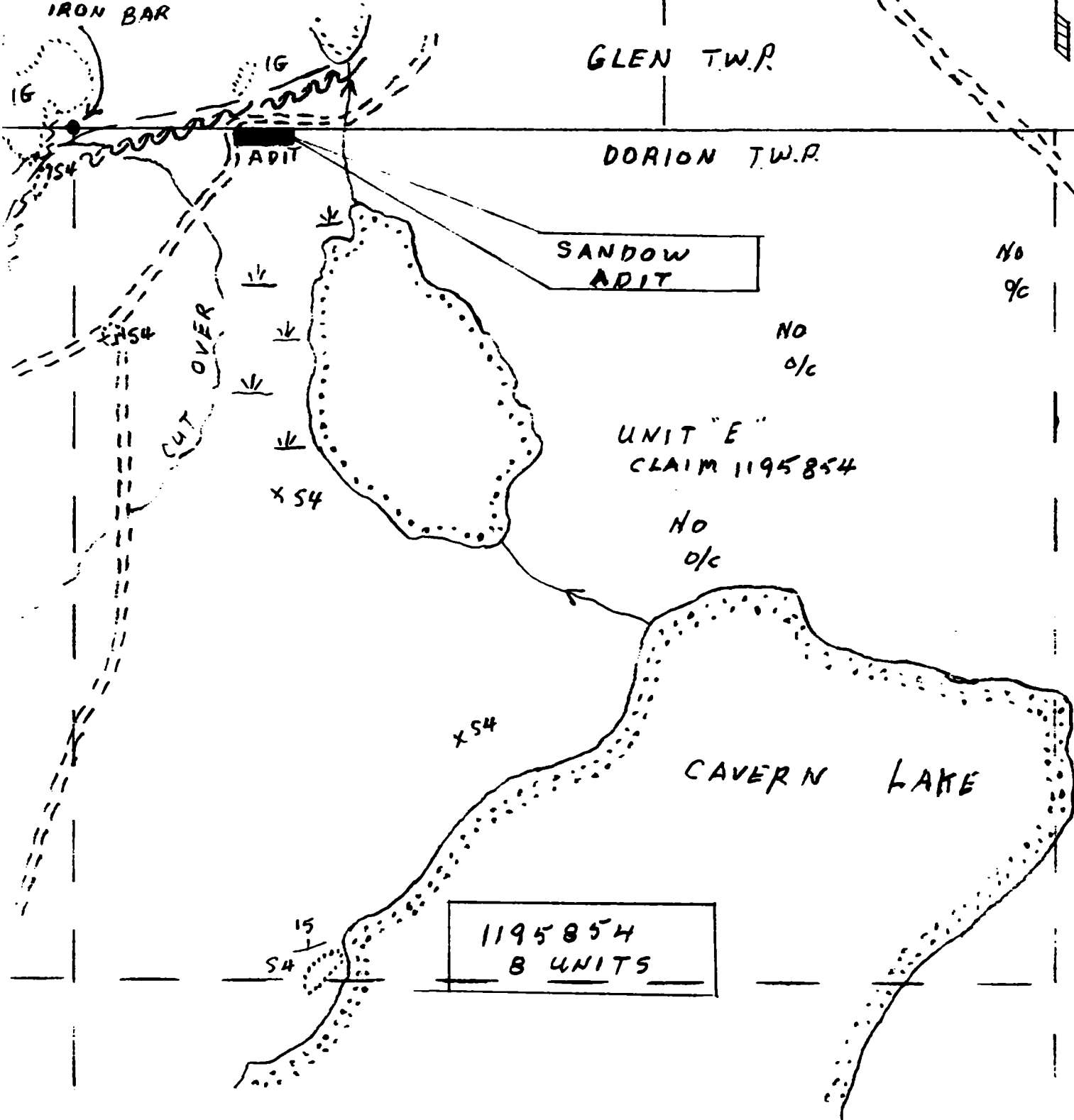
PLATE # 10



STEEL
IRON BAR

GLEN T.W.P.

DORION T.W.P.



ADIT

SANDOW
ADIT

UNIT "E"
CLAIM 1195854

1195854
B UNITS

CAVERN LAKE

CUT OVER

NO
o/c

NO
o/c

NO
o/c

16

16

x 54

x 54

x 54

15
54

July 21/93

28.

Prospected the East Part of
UNIT "F" claim 1195854
between Cavern Lake and the
South boundary of claim 1195854

Found a few old Poplar
trees and thick brush
No c/c Found.

See Plate # 11.

July 22/93

UNIT "E" claim 1195854

Prospected the west Part of Unit "E"
claim 1195854 - An access road
from about 20 Metres east of
the BISHOP shaft trends S.E.
through the North West Corner
of Unit "E" 1195854 and is \pm
100 Metres east of Cavern Lake
still trending S.E. at \pm 110 metres
S.E. along the road from the North
Claim line claim 1195854 also
the Porcupine and Glen Twp line

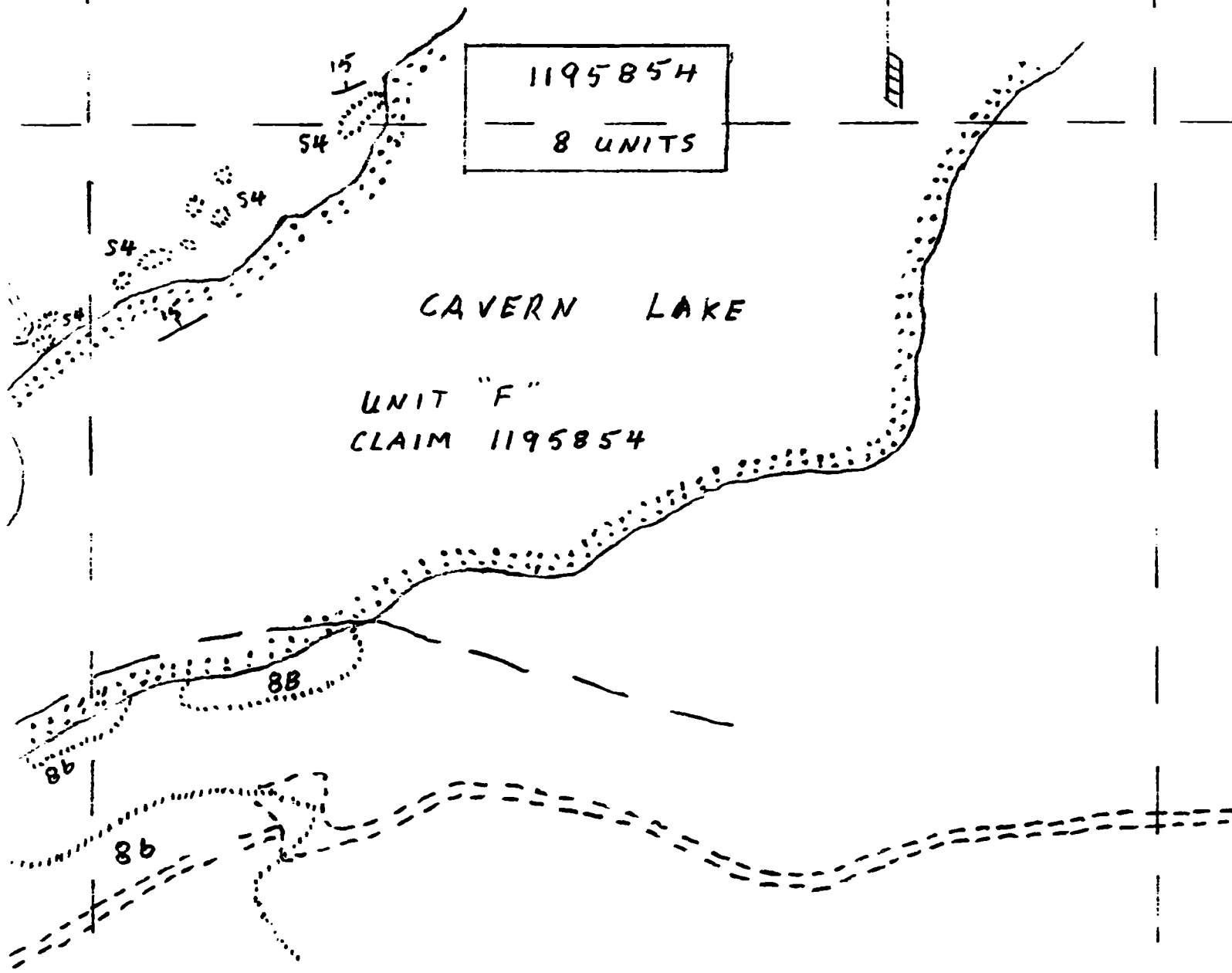
PLATE # 11




1195854
8 UNITS

CAVERN LAKE

UNIT "F"
CLAIM 1195854



29.
a small o/c (54) was found
on the east side of the access
road. And 60 metres east of
the (54) o/c a high overburdened
hill or scarp  is
found in a cut over area.
No other "outcrop" o/c was
found in the west part of
UNIT "6" claim 1195854.

SEE PLATE # 12.

July 23/93

Prospected the east part of
UNIT "6" claim 1195854 South
of the south boundary of claim
1195852. The area has been
cut over 15 years ago or more.

Second growth Poplar and
thick brush cover the area.
There are areas that appear to
have been cut over more
recently.

SEE PLATE # 12

July 26/93

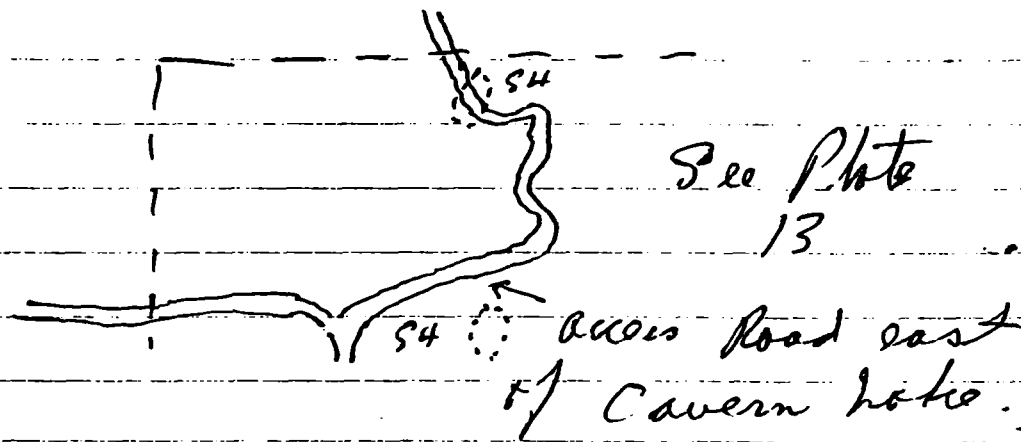
(Unit "H" claim 1195854

Prospected the west part of
Unit "H" No c/c found.

Second growth poplar and
thick brush populate the area.

Access is gained travelling
an access road around the east
end of ~~Cavern~~ ^{CAVERN} Lake and on to
the south side of ~~Cavern~~ ^{CAVERN} Lake.

CAVERN LAKE.



See Photo 13.

July 27/93
 UNIT "H" claim 1195854
 Prospected the centre portion of Unit "H". A small o/c (S4) was found on the access road in the Northern part of Unit "H". A small o/c (S4) was found just South of where the road turns west trending toward the S. side of CAVERN LAKE. See Previous Page. Page 30. No other o/c was found. Only Second growth poplar and thick brush.
 See PLATE # 13

July 30/93
 UNIT "H" claim 1195854.
 North of Post #2 of claim 1195854 about 50 Metres a small pond and swamp is found. At 150 Metres N. of Post #2 and 15 Metres east of the east line of claim 1195854 o/c (S4) is found. o/c (S4) found 350 Metres N. of Post #2.

line. The o/c is \pm 30 metres S.^{32.}
of Post #3 of claim 1195855.
A small swamp is found just
west of the o/c. No other
outcrop was found in the
eastern part of UNIT "H"
claim 1195854. A cut
over area is found in the
east side of the claim.

See Plate # 13

July 31/93

UNIT "A" claim 1195855
Prospected the west part of Unit
"A" just east of Post #2 claim
1195852. The south east end of
a lake is found, and just S. of
the S.E. end of the lake o/c (S4)
is found. The S.W. part of
UNIT "A" claim 1195855 is cut
over. No other o/c found.

See Plate # 14

32.

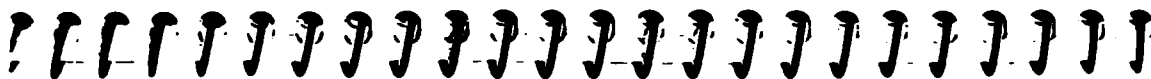


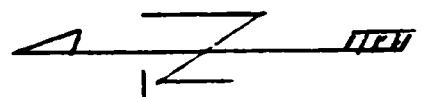
PLATE # 13

UNIT "H"
CLAIM 1195854

SECOND GROWTH POPLAR
THICK BUSH

NO
0%

NO
0%

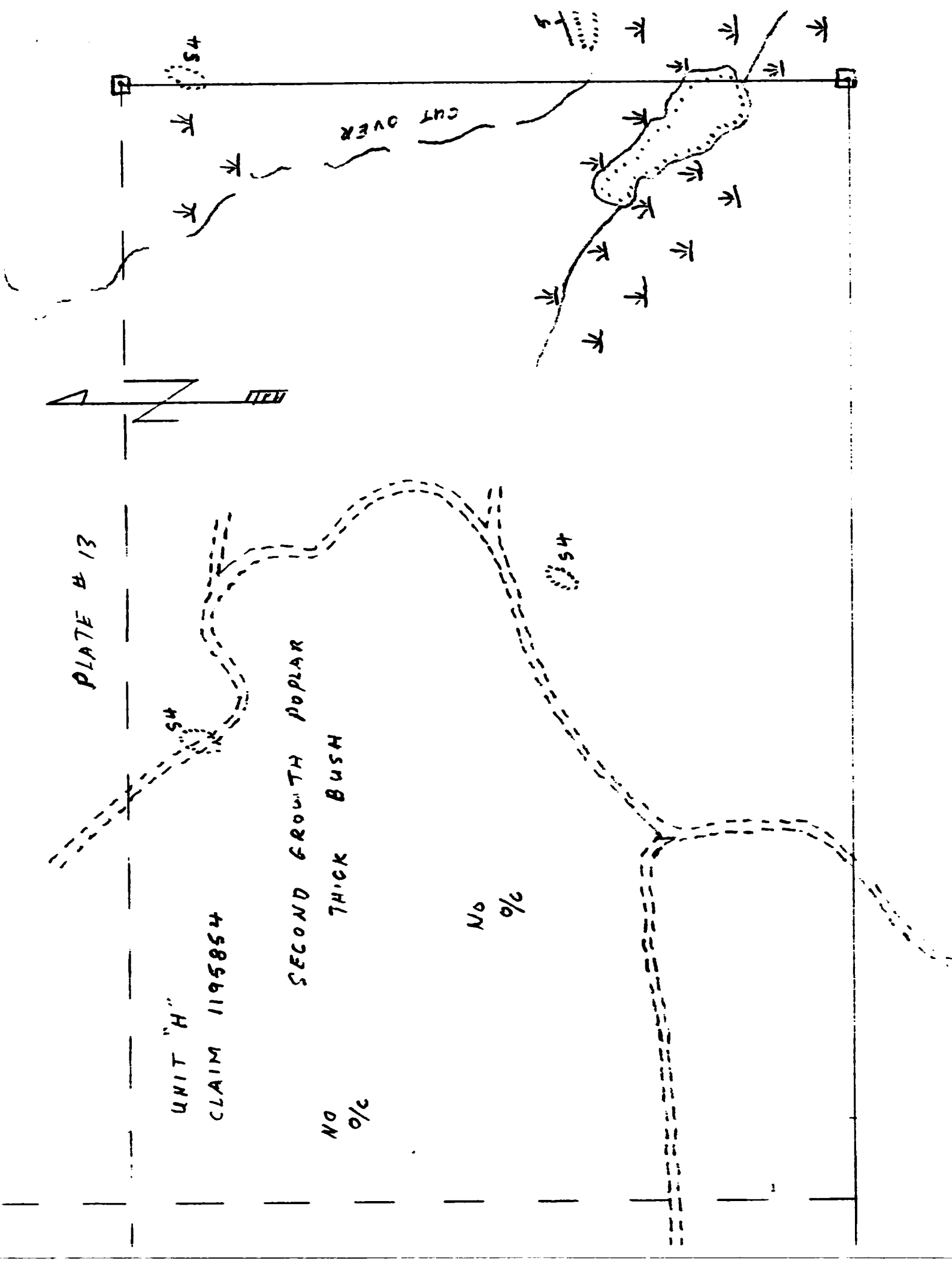


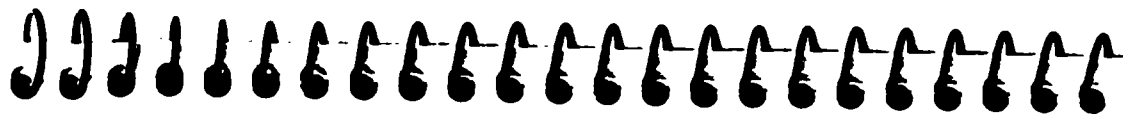
454

454

454

CUT OVER





Aug. 1/93

UNIT "A" claim 1195855
Prospected the east part of
Unit "A" o/c (54) found
South of the claim line at 270
metres east and 15 metres S. of
the claim line. And at 320
metres east of Post # 3 Unit
"A" claim 1195855 o/c (54) found
line Post found at 400 metres East.
Traversed N. 400 metres to North
claim line and line Post 400
metres east of Post # 4 Unit
claim 1195855. Traversed N.
line west 95 metres to lake.
No o/c found inside east
part of Unit "A"

See Plate # 14

PLATE # 14



CUT OVER

GLEN T.W.P.

DORION T.W.P.

UNIT "A"
CLAIM 1195855
(3 UNITS)

No
o/c

S4

CUT OVER

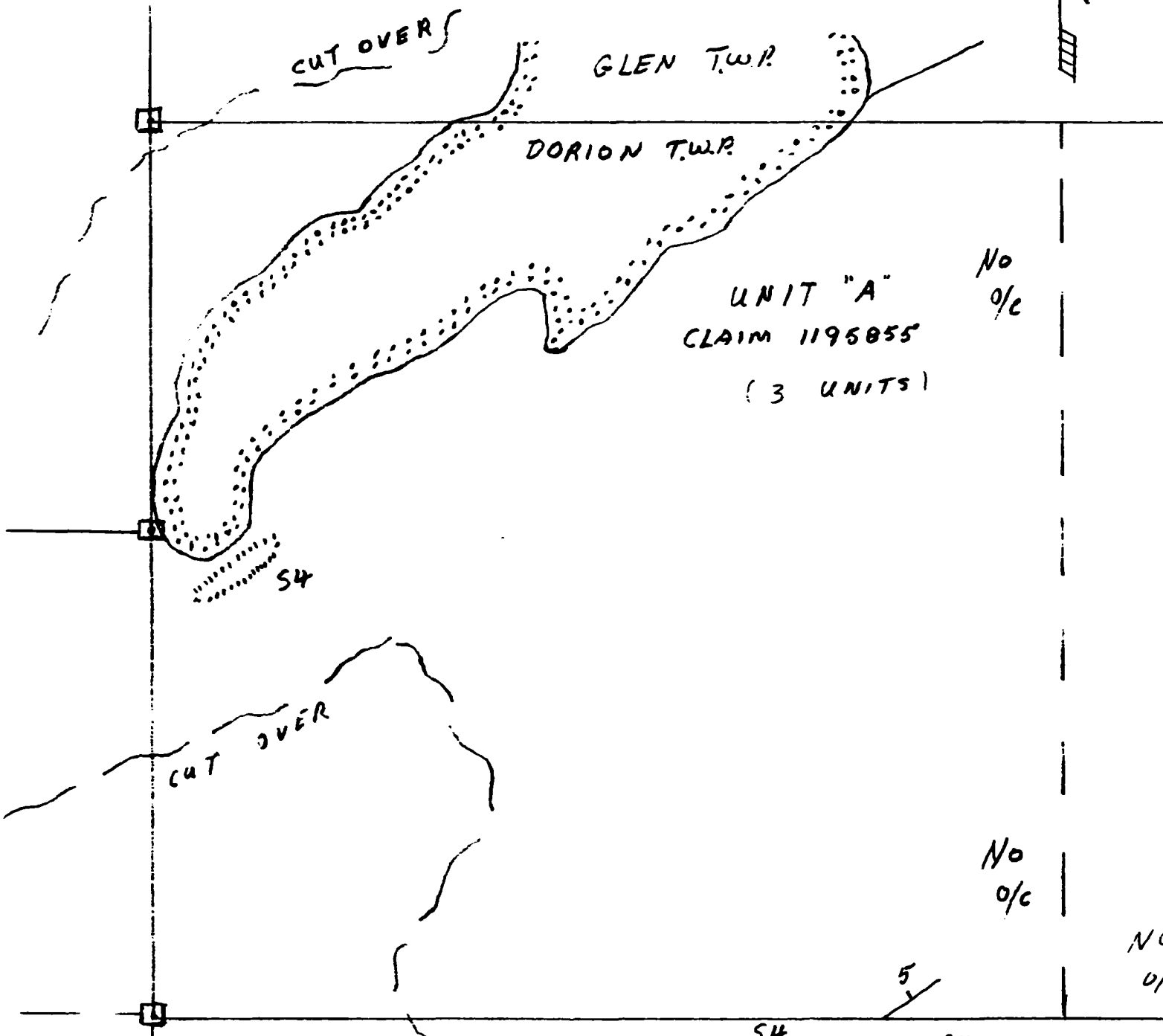
No
o/c

No
o/c

S4

S4
5

S4



Aug. 2/93

Prospected West part of
UNIT "B" claim 1195855.

At 70 metres east of Line Post
400 metres east of Post #4 claim
1195855 a lake is seen just
North of the North claim line.

And a creek is found at \pm 85
metres east. No o/c found
in the West part of UNIT "B"
claim 1195855. ^{o/c 54 found 10 metres}
_{3 of S. claim line.}

SEE PLATE 15.

Aug 3/93

UNIT "B" claim 1195855

Prospected east part of Unit B.
Traversed North to North
claim line and Dorion and Glen
Townships survey line. ~~NO~~
No o/c found in the east
part of claim 1195855 UNIT "B"

SEE PLATE # 15



PLATE # 15



8b

GLEN T.W.P.

DORION T.W.P.

No
o/c

No
o/c

No
o/c

UNIT "B"

1195855-

3 UNITS

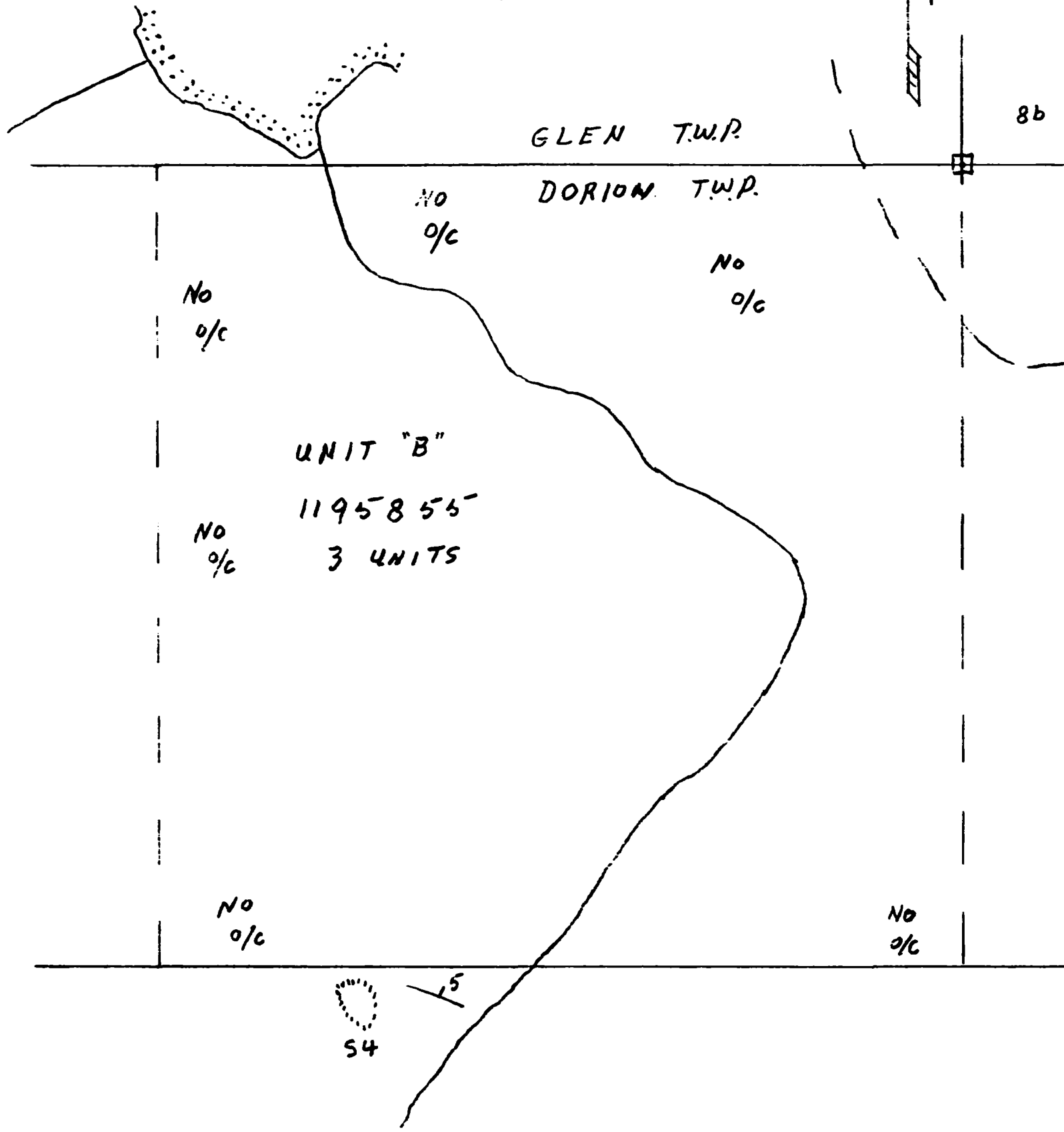
No
o/c

No
o/c

No
o/c

54

15



Aug 4/93

Prospected west Part of
 UNIT "C" claim 1195855
 Prospected from S. claim
 line to north claim line
 also the Porion and Glen
 Townships Survey line. A
 Small o/c (8b) found on the
 north line \pm 80 metres east of
 Post #3 of claim 1195857
 This is the only o/c seen
 in the west Part of UNIT "C"
 claim 1195855.

See PLATE # 16

Aug 5/93

UNIT "C" claim 1195855
 Found some o/c (S2) S. of
 Post #2 and 70 metres west
 of Post #2 claim 1195855.
 At \pm 80 metres and \pm 100 metres west
 of Post #1 claim 1195855
 Found two small (8b) o/c.

No other o/c found.

SEE PLATE # 16.

PLATE # 16



GLEN T.W.P.

DORION T.W.P.

8b

8b

8b

UNIT "C"
CLAIM 1195855
3 UNITS

No
o/c

No
o/c

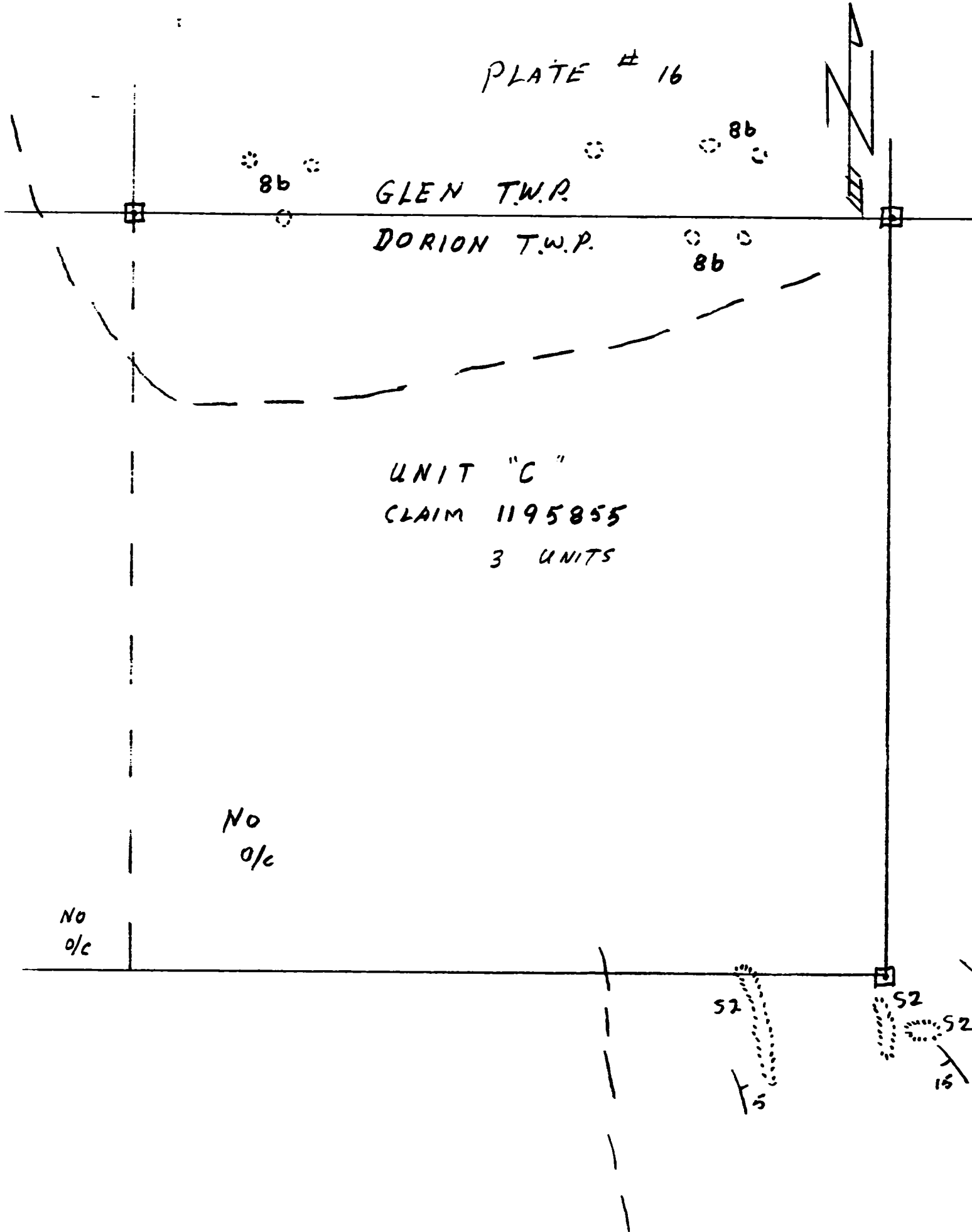
S2

S2

S2

15

15



Aug 6/93

36.

Claim 1195856 1 Unit

The claim is a narrow 200 metres deep and 800 metres long claim.

Prospected the west part of the claim. Found the west part cut over. A lake is found at 150 metres east of post # 3. The east side of the lake is 310 metres east of post # 3 and loops around to about 130 metres north of the south claim line also the Pearson Glen

Townships Survey line. Another lake is found about 90 metres east and crosses the claim from the south claim line and crosses the north claim line.

NO O/C Found.

Second growth Poplar and thick brush is abundant.

SEE PLATE # 17



NORTH UNIT "A"
CLAIM
1195852

PLATE # 17



CLAIM 1195856
1 UNIT
WEST PART.

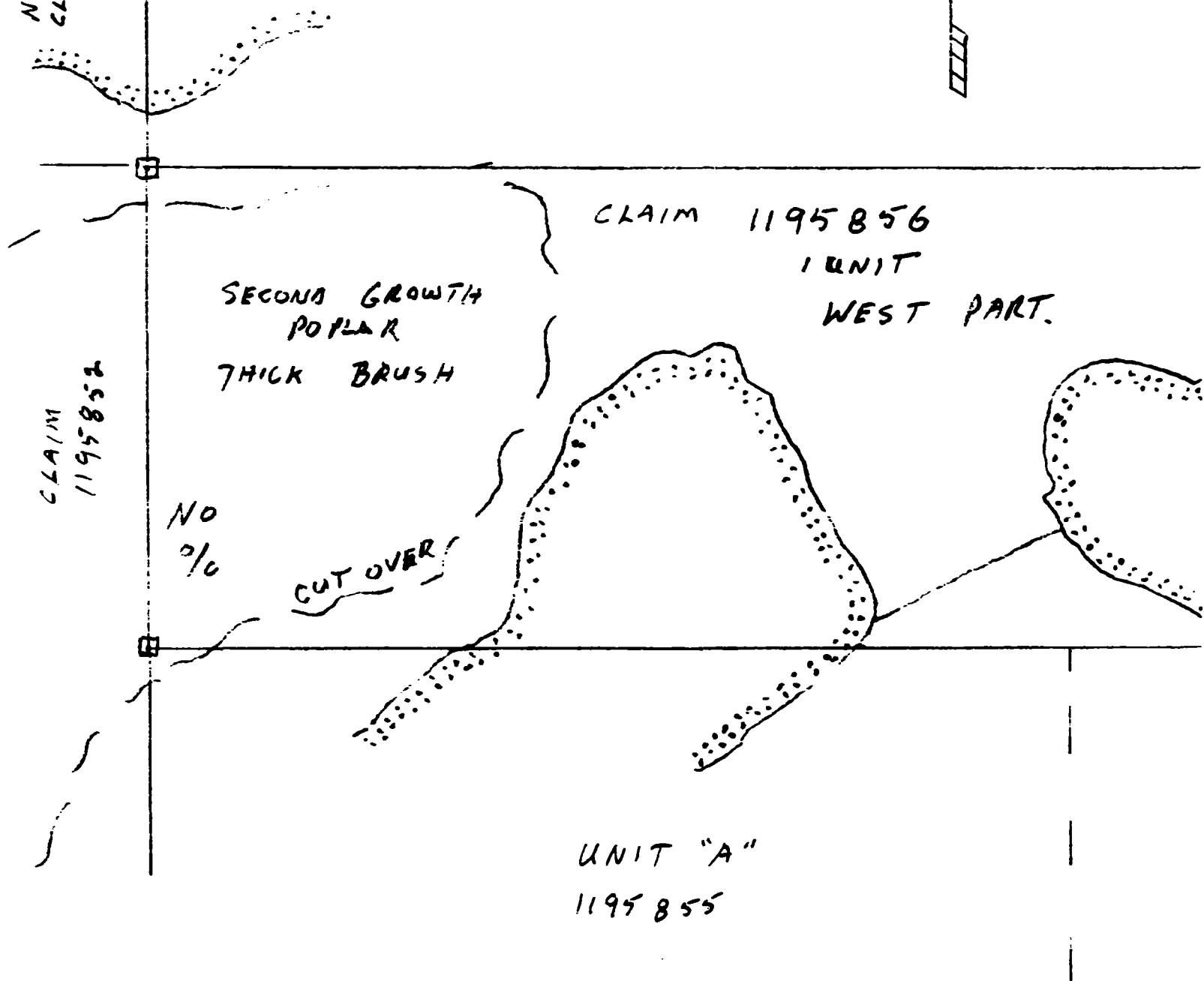
SECOND GROWTH
POPLAR
THICK BRUSH

CLAIM
1195852

NO
%

CUT OVER

UNIT "A"
1195855



Aug 7/93

37.

Claim 1195-856 1 unit
Prospected the east part of
this narrow claim
Found Post #1 and 25
metres South found an east
flowing stream. From this
stream on the west side of
the east claim line Found O/C
(S. 2). Found Post #2 at
400 Metres South. Traversed
West on the south line about
315 metres to a creek and
a lake just N. of the S. claim
line also the Dionion Glen
Tuspi's Survey Line Traversed
~~westward~~ easterly S. of the lake
shore then north to North
claim line No further
O/C Found.

See Plate 18.

PLATE # 18



52

16

CLAIM
1195857

CLAIM
1195856

1 UNIT
EAST PART.

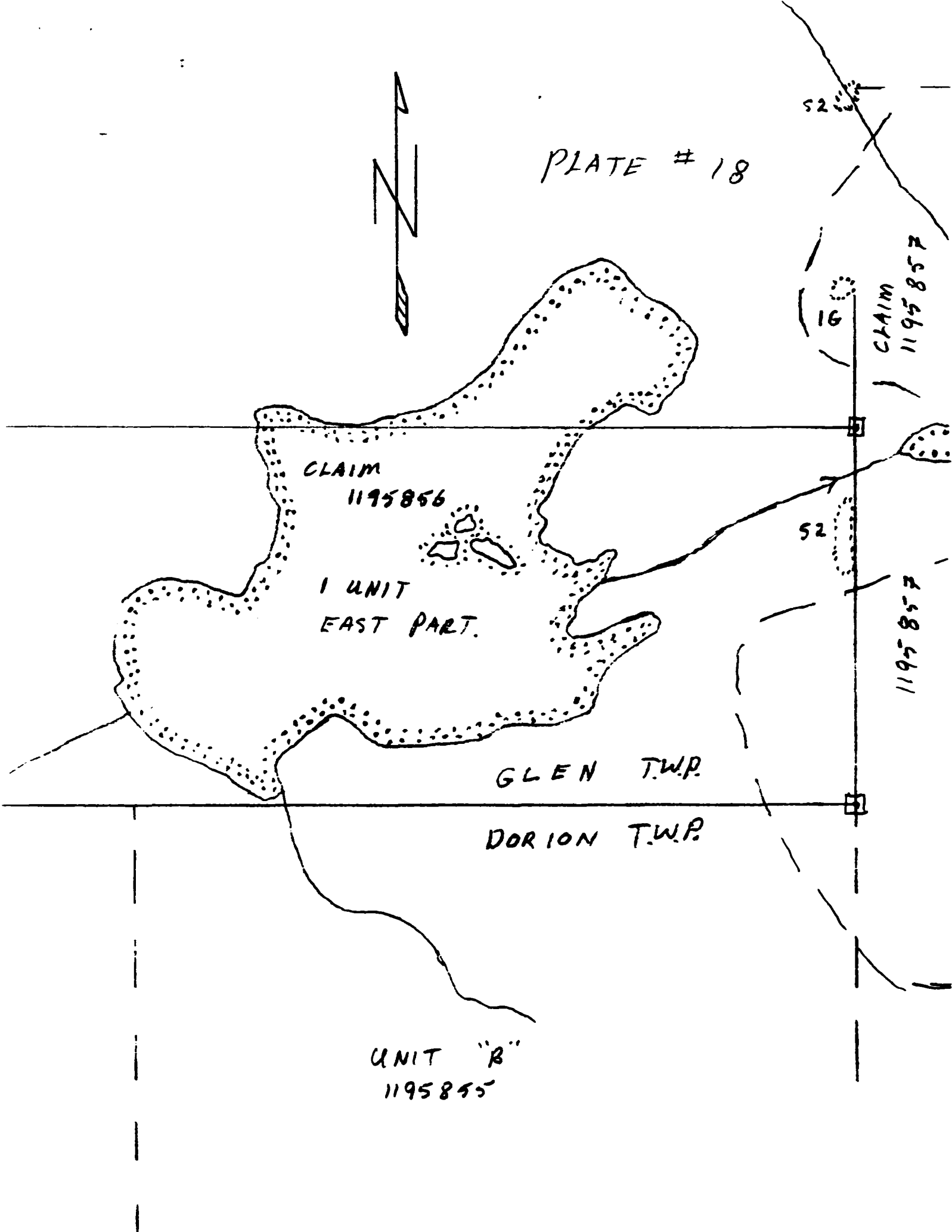
52

CLAIM
1195857

GLEN T.W.P.

DORION T.W.P.

UNIT "B"
1195855



Aug 8 / 93

38.

North Unit "A" claim 1195857

Prospected west part of claim
Unit "A". Traversed North
claim line west to post # 4
Then South 230 Metres to access
Road and S. 170 Metres to
Line Post. Just west of the
west claim line found o/c (S₂)
and a stream flowing S.E.
No other o/c Found.

SEE PLATE # 19

Aug 10 / 93

North Unit "A" claim 1195857

Prospected east part of Unit
"A" Found o/c (S₂) about
90 Metres west of Post # 1
and 65 Metres South. No
other o/c Found in east part
of North Unit "A" claim 1195857.

SEE PLATE # 19.

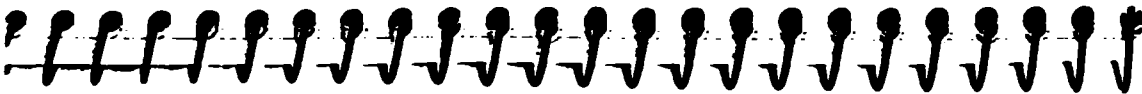
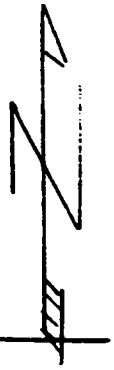


PLATE # 19



NO
o/c

NO
o/c

NO
o/c



NORTH
UNIT "A"
CLAIM 1195857
2 UNITS

NO
o/c

NO
o/c

NO
o/c

S2

S2

16



Aug 10/93

39.

Prospected west Part of South
Unit "B" claim 1195857.

110 Metres S. of line Part 400
Metres S. of Part #4 found o/c
(15) just west of claim line.
Traversed S. to Part #1 of claim
1195856. 25 Metres S. found
stream flowing easterly. At 40
metres S. and just west of the
west claim line 1195857 found
o/c (52) o/c seen for 40 or 50
metres along claim line found
Part #3. At 80 Metres east
found o/c (85) on claim line and
at 25 metres North and 60 metres
and 90 metres found small o/c (83).
North 200 Metres found small lake.
No other o/c found

SEE PLATE # 20

August 11/193

40

Inspected east Part of
South UNIT "B" claim 1195857.
At 70, 100 and 150 Metres
west of east line and 30
metres N. of the S. line found
3 o/c (86) very small. And
at 80 and 100 metres west of
Post #2 and 10 metres south of
the South line of claim
1195857 found 2 o/c (86) very
small. A small lake was
found 240 Metres N. of Post
#2 on the east line of claim
1195857. A stream was found
flowing into the west side of
the lake from the lake seen
yesterday.
No other o/c Found.

SEE PLATE [#] 20

PLATE # 20



No
o/c

SOUTH UNIT "B" No
CLAIM 1195857 o/c
2 UNITS.

16

S2

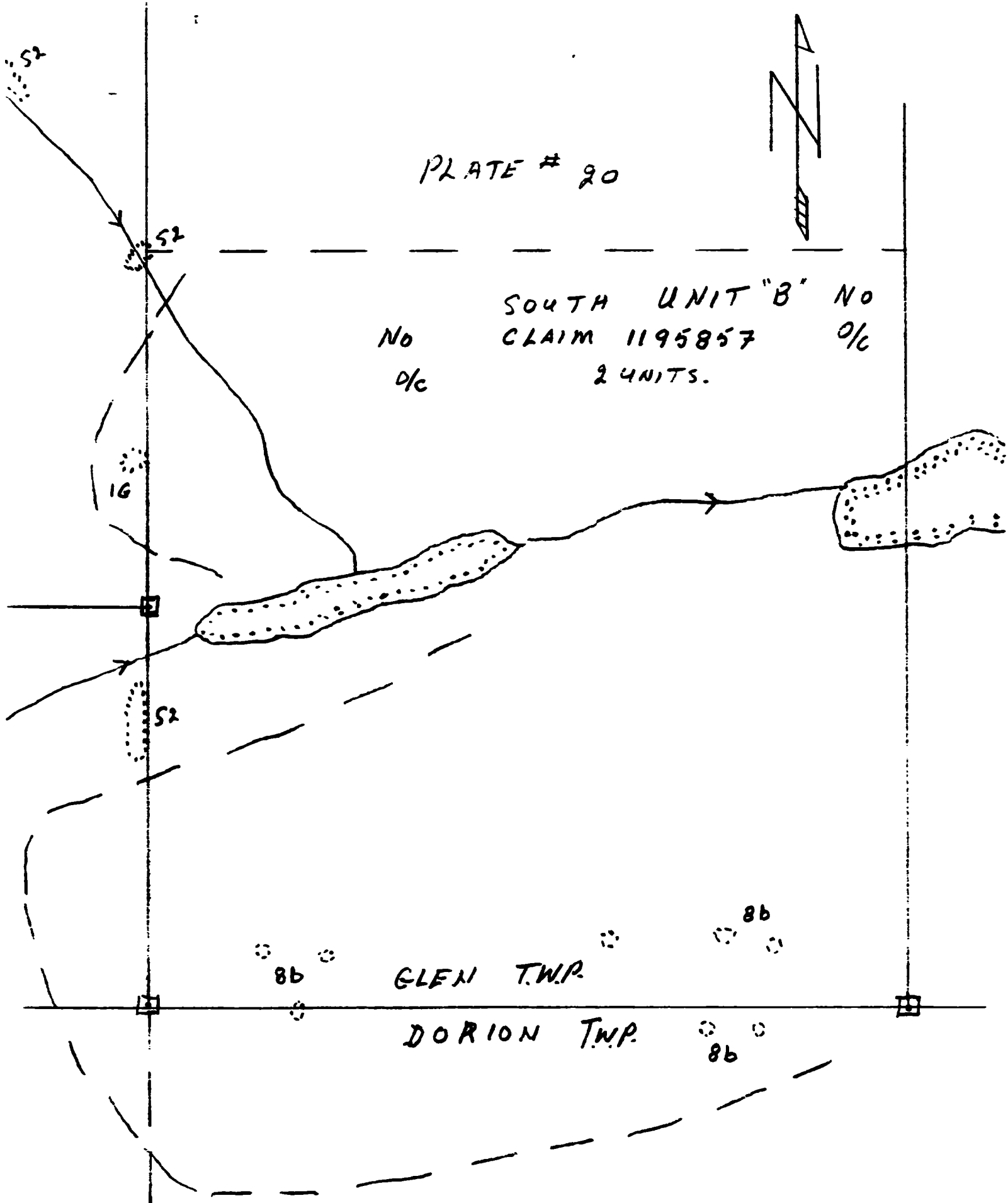
8b

GLEN TWP.

8b

DORION TWP.

8b





Aug 12/93

41.

Prospected an area North and N.E. of Post #1 North Unit "A" Claim 1195852. Found and mapped o/c (SE) to the east side of a small lake to try and locate any Pb. Zn. bearing rocks. No mineralized rocks were found. This area is North of the granite sediment contact where Pb. Zn. minerals are seen in (S4) Dolomite and related rocks along the Granite sediment contact trending N.E.

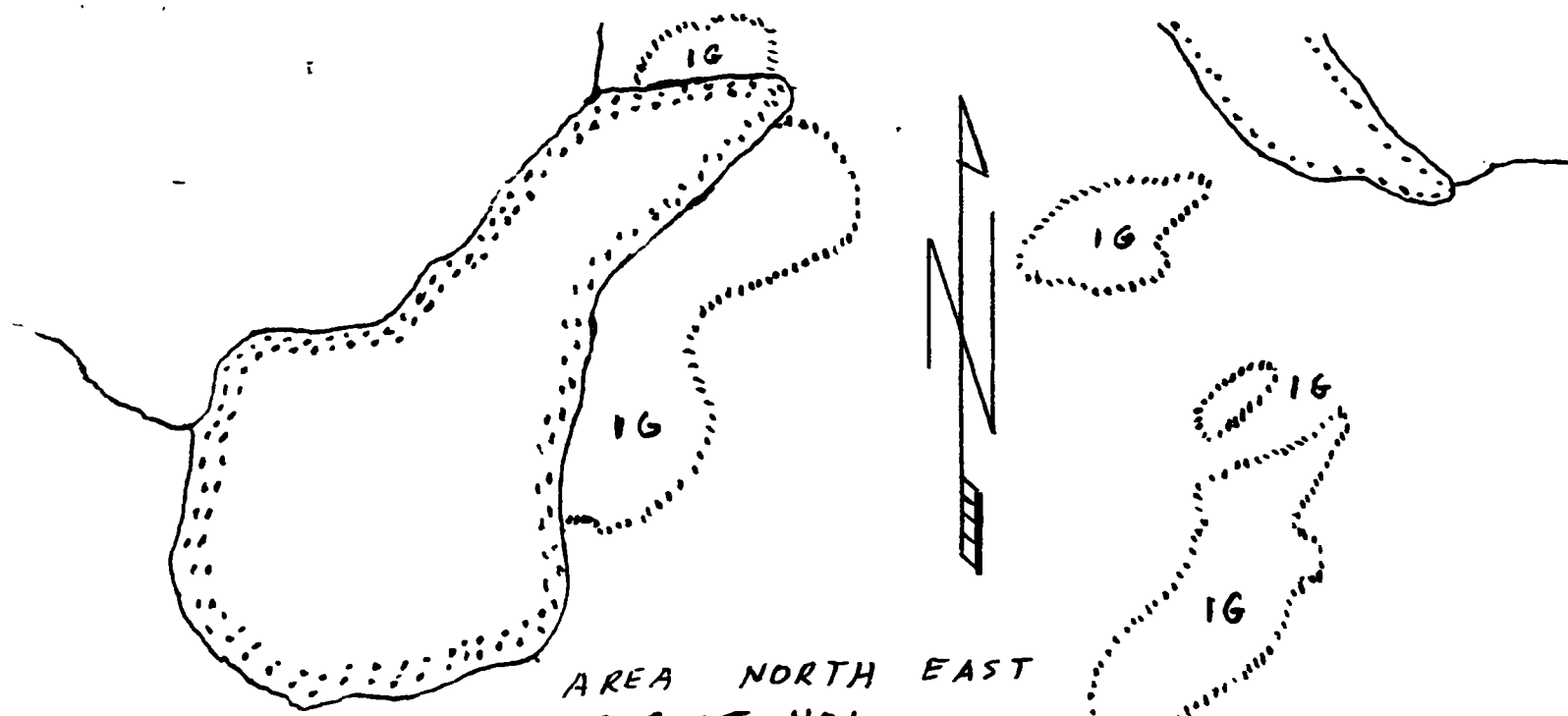
SEE PLATE # 21.

August 13/93

North of the Thunder Bay lead zinc shaft traversed N. and prospected for Pb. Zn. minerals. Only granite (SE) o/c were found. No mineral Pb. Zn. were found.

Mapped these granite outcrops. Some Pb. Zn. seen at Thunder Bay Pb. Zn. shaft.

SEE PLATE # 21.

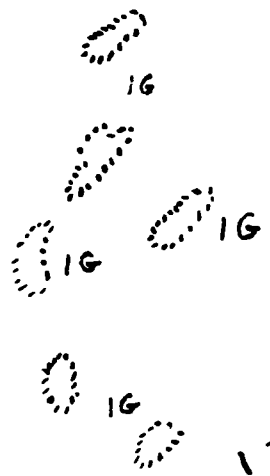


AREA NORTH EAST
OF POST NO. 1
CLAIM 1195852
NORTH UNIT "A"

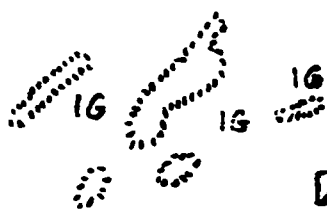
PLATE # 21



THUNDER BAY
LEAD & ZINC



POST NO. 1 - NORTH UNIT "A"
CLAIM 1195852



Aug 14/93

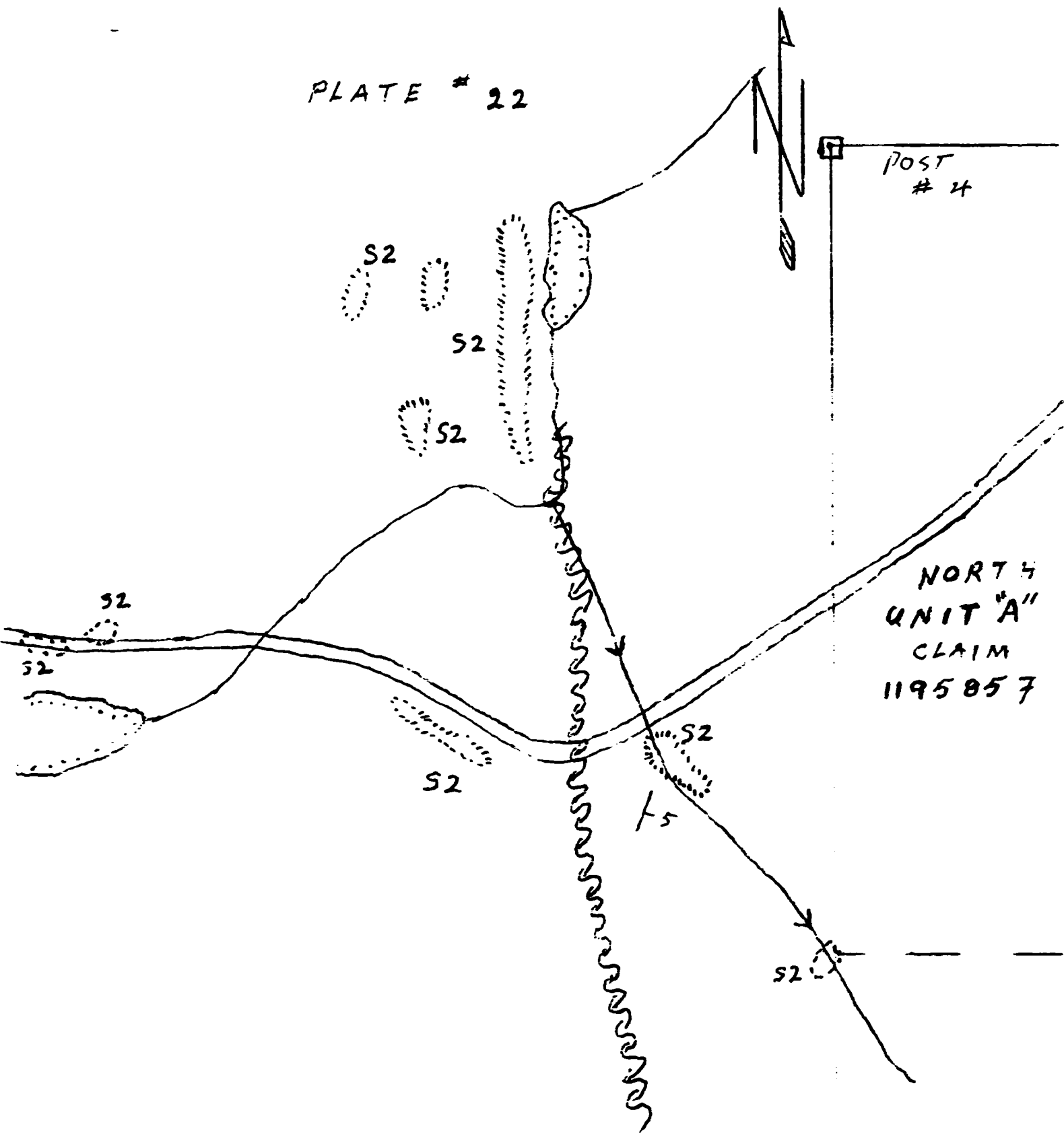
Area West of North Unit "A"

Claim 1195857.

Inspected this area to locate and map (S2) Sandstone to verify these rocks and extent as they were seen on the access road. Along a creek crossing the access road traversed North. Found a small lake \pm 200 Metres N. The lake is \pm 130 Metres S.W. of Post #4 of North Unit "A" claim 1195857. West of the Lake o/c (S2) was found. On the S. side of the access road o/c (SE) is found west of a Fault and \pm 10 Metres S of the access Rd. The fault is in the creek to the North and west of the creek to the south about 150 Metres along the access Rd from the West claim line Unit "A" claim 1195857. One o/c was found in the creek 10 metres S of the access Rd. No Pb. Zn. Minerals seen in the (S2) Sandstone. SEE PLATE # 22

PLATE # 22

POST
24



NORTH 4
UNIT "A"
CLAIM
1195857

S2

T5

S2

S2

S2

S2

S2

S2

S2

Aug 16/93

43.

Between the granite contact (16) and flat bedded sediments contact to the south (54) a Dolomite mudstone (54) unit is found. This rock weathers a white to cream colour and is grey when broken. This Rock Brecciated with Dolomite limestone mudstone and near the granite, granite fragments, mixed with sandstone in places and some conglomerate. From the west boundary in claim 1195854 Prospected the contact North easterly. Broke rock where observed and found Pb, Zn minerals abundant near the granite contact and lenses and stringers lean out Southerly at surface. The granite is fragmented at the contact and Pb, Zn fills fractures and is filling around the fragments for up to two metres. Prospected the mineralized Zone through to the east side of Unit "A" claim 1195854.

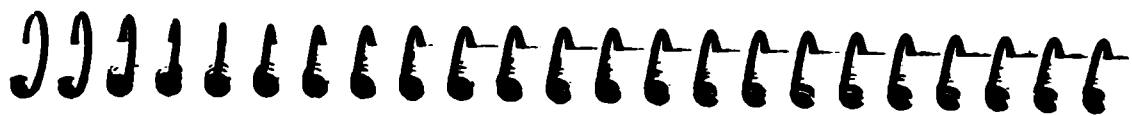
August 17/93

44

Continued following the Pb. Zn
Mineralized Fault zone from
where I left off yesterday
Through Unit "C" claim 1195854.
Broke rock where found.
In places Pb. predominates
over Zn., and in other places
Zn. is richer than Pb.

Aug. 18/93.

Continued following the zone
N.E. in UNIT "B" claim 1195853
and Unit "C" claim 1195853
Past the Bishop shaft and
through North Unit "A"
Claim 1195852. The minerals
occur in the same manner
through out the Fault contact,
where seen. I am satisfied
the mineral is hosted along the
contact. Pb. Zn. Minerals have
not been seen away from the
contact in the granites to the North
or the sediment to the south.



Aug 19/93

45

Again - Broke and bagged samples from the west end of Claim 1195854 for assay. Sampled in claim 1195854 Unit "B" and Unit "A".

Aug 20/93

Continued sampling and bagging rock for assay from the east part of Unit "A" claim 1195854 into Unit "C" Claim 1195854.

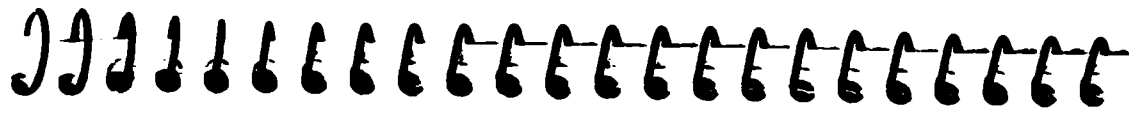
Aug. 21/93

Sampled and bagged rocks for assay along the mineralized contact zone from the east side of Unit "C" claim 1195854 N.E. through Unit "B" 1195853 to the Bishop shaft in Unit "B" and \pm 110 metres east of the Bishop shaft sampled an old long trench. 31 samples are collected for assay. No. 217312 to ~~217342~~
217342

Aug 22/93

Inspected and followed the Contact zone through UNIT "C" Claim 1195853 and North easterly through North Unit "A" Claim 1195852. The zone in contact with Granite to the north and Sediments to the south is seen discontinuous and poorly exposed trending North easterly and was last seen at the Thunder Bay lead and Fire shaft. The mineral at this shaft is not as plentiful as it is at the Union Mine shaft and the Bishop shaft and the trench east of the Bishop shaft. The Thunder Bay shaft is in partly granite and partly sediment rocks. In any event the strike of the mineral is long and appears promising for good mineral deposition, of perhaps mine making possibilities.





47.

On August 16th and August
17/1993 Claudio Laroche
from Ovalbay Geological
Services Inc., 1070 LITHIUM
DRIVE, Unit #1, Thunder Bay
Ontario P7B 6G3 TEL(807)623-3770
was present to examine the
lead Zinc occurrence as
described. Mr. Laroche was
very interested in the style
and nature of the lead and
Zinc occurrence and its
potential.

D.F. Petrunka
DAVID F. PETRUNKA

207-540 OLIVER ROAD
THUNDER BAY, ONTARIO
P7B 5T8 .
TEL: (807) 344-8233



REPORT ON THE
DORION LEAD AND ZINC PROPERTY
DORION AND ^{IN} GLEN TOWNSHIPS

LATITUDE $48^{\circ} + 50'$

LONGITUDE $88^{\circ} + 40'$

N.T.S. 52 A / 15 S.E.

EAST OF THUNDER BAY ONTARIO
AND NORTH OF DORION ONTARIO

GEOLOGY PROSPECTING AND SAMPLING

MAIN MINERALS - ZINC + LEAD

FIELD SEASON 1993

O.P.A.P. FILE NUMBER

OP 93 - 062

ONTARIO PROSPECTORS

ASSISTANCE PROGRAM

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5. PROPERTY STATUS AND CLAIMS
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8. STRUCTURE
9. MINERALIZED ZONE
10. RECOMENDATIONS - PROGRAM CERTIFICATE
11. SAMPLE No. LOCATION AND DISCRPTION
14. ASSAY RESULTS
15. PLATES 1 TO 22
37. ALLOWANCES AND COSTS
38. RECEIPTS

SUMMARY

The Darion Property is situated 94 kilometers east and north east of the City of Thunder Bay 80 kilometers east on Highway 11-17 and 14 kilometers north of the Village of Darion by way of gravel access roads in early Precambrian granitic rocks in the north part, and Late Precambrian Sibley group of rocks in the south part, and are a bedded sedimentary group of rocks Dolomite, Limestone, sandstone and conglomerate. The claim group is six mining claims comprising and making up 19.15 hectares claim units.

Lead and Zinc minerals are associated with the non-conformity between the early Precambrian granitic rocks and the Late Precambrian Sibley group of rocks in a hard brittle Dolomite, limestone, chert, mudstone breccia. Lead and Zinc minerals are also associated with the granite at the contact where the granite is fragmented and brecciated. Lead and Zinc is seen for more than 2 metres in this fractured fragmented granite at the Darion Mine. This suggests a fault controlled mineralization. Previous exploration work on the claims was carried out in the latter part of the nineteenth century and sporadically to 1982 when Noranda Mining Company drilled some shallow diamond drill holes in the Sibley group of rocks to the granite basement with an attempt to find mineral associated with the contact at the basement between the granite rocks and the Sibley group. No success was gained and the work was terminated. However one hole was drilled in the upper contact which may be explained with a view to locate fault controlled mineralization. The hole drilled in the fault zone returned fair to good mineral in the contact Dolomite et al. breccia and also in the granite. This is in part, or in whole, fault related. This is a very long structure hosting good lead zinc minerals. Samples only economic grade.

INTRODUCTION

The Darion project east of Thunder Bay presents the results and findings of the work performed. The program carried out consisted of Geological mapping, prospecting, sampling, and valuation of mineral deposits in and at the contact of the Granite rocks and Sibley sediments. The purpose of the program was to try and establish mine making economic mineral deposition. The contact deposition was explored for more than 2.25 kilometres suggesting the contact structure has wide making possibilities for length. The width of the Dolomite, Limestone, chert, mudstone rocks contact belt is 10 to more than 25 metres. While at the surface exposures economic grade mineral is at the Granite contact in this rock unit and in the fragmented brecciated granite contact. This is a unique finding because it suggests fault deposition not generally acknowledged in history. Fluid mobilized along the fault may prove reason, the rocks are different in the fault, than south and north of the fault. Brecciation of the fault, along and into the granite, and the Dolomite, Limestone chert is a very good place for mineral deposition from mineralizing fluid. There is no beyond drilling to prove or disprove this theory at this location. However Diamond Drilling on a similar structure some distance S.E. is stated to have proven the mineral to fill breccia vugs below 200 feet are filled with solid mineral. This was at the Osage Mine. Diamond Drilling to depth of the Darion structure may very well prove the same kind of deposition exists. It should be found at depth then mine making possibilities exist. This assumption brings into focus other occurrences in the Darion area as a whole.

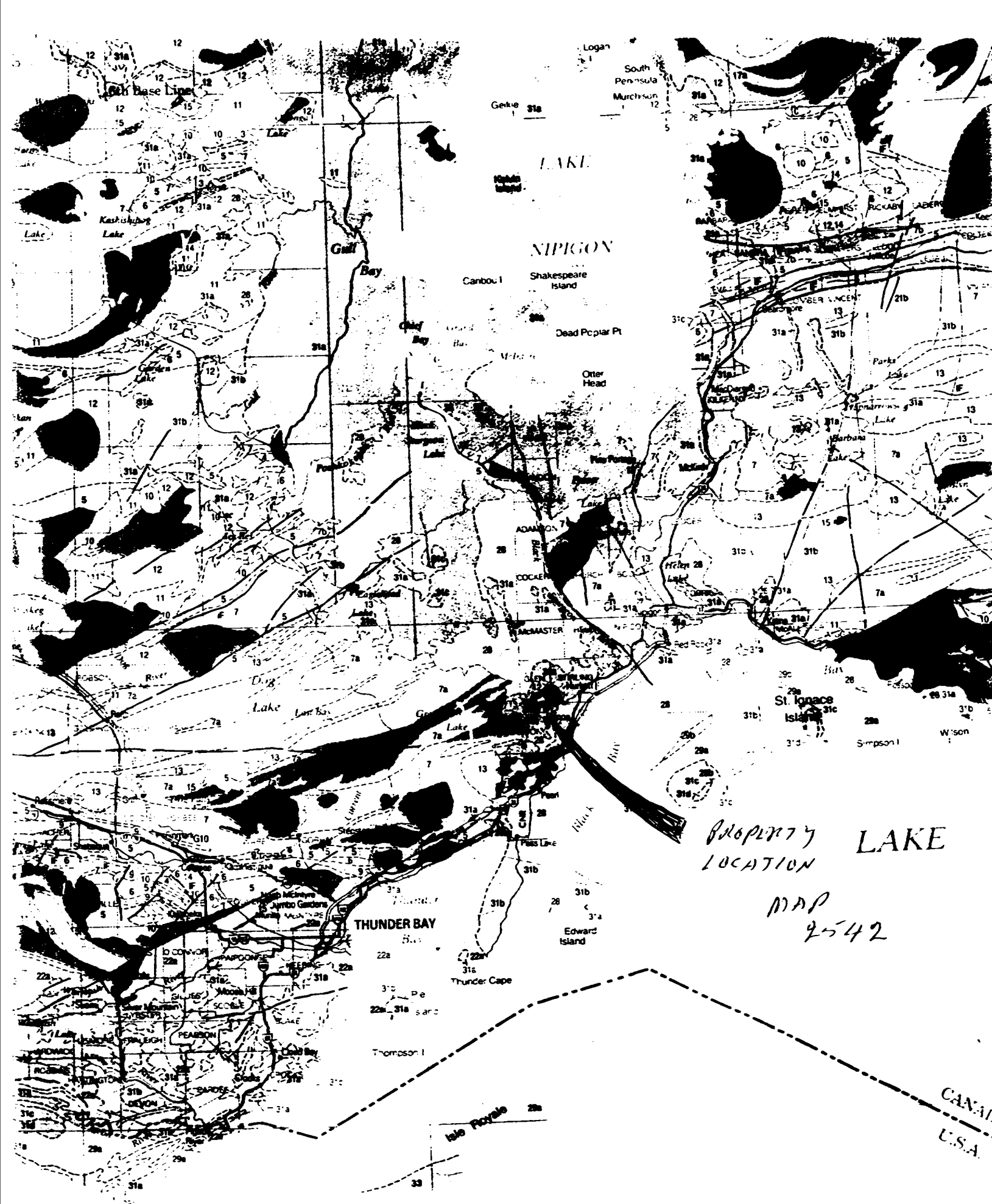
LOCATION AND ACCESS

The Parion project is located 94 km. east, north east of Thunder Bay. The claim group lies 14 kilometers north of the Parion Village by all weather gravel roads and logging roads.

Access from north east of the claim group, through to the west of the claim group, and in the central southern part of the claim group is good. The main access road in the claims follows the mineralized structure near its south side, in a generally North east fashion.

Supplies, contractors, equipment and manpower are available in the Village of Parion, in Thunder Bay, and in the District of Thunder Bay.

The most economic travel is by Motor Vehicle.



PROPERTY LOCATION
LAKE

MAP
2542

CANADA
U.S.A.



Ministry of Northern Development and Mines

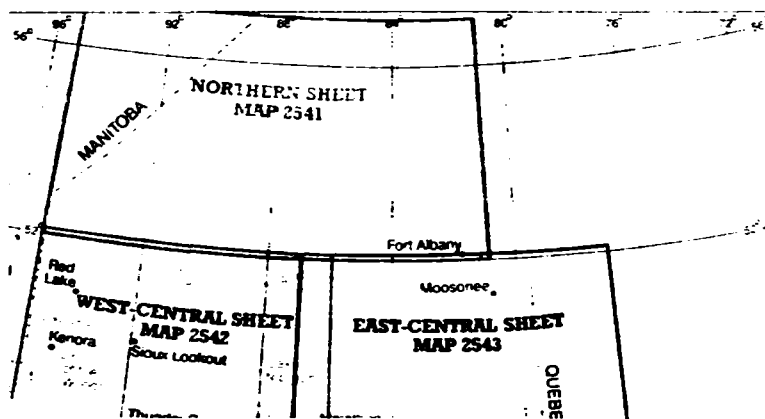
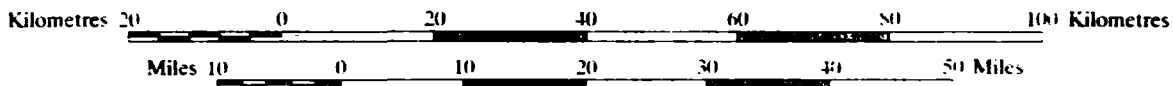


MAP 2542

BEDROCK GEOLOGY OF ONTARIO

WEST-CENTRAL SHEET

Scale 1:1 000 000



Pg 172
**Application to Record
Staked Mining Claim(s)
Mining Act**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and will be used for serving notices. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar St., Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

Please Print Using Ink or Type

Name of Applicant <i>JAMES A. MARTIN</i>		Concession No. <i>R9240-0226</i>	CHECK 240.00
Address: Street, City/Town/Village, Province, Postal Code <i>RR #2, SITE 9, Box 6 - 3140 FAIRVIEW RD THUNDER BAY, ONTARIO P7C 4U1</i>		Licence no. <i>E 31969-165280</i>	
Name and Address for Service in Ontario: (Required if Applicant Resides Outside of Ontario)		Telephone No. <i>475-9138</i>	

Name of Recorded Holder: <input type="checkbox"/> same as above or: <i>Mr. DAVID PETRUKA.</i>	Telephone No.	Client No. <i>181703</i>
Address: Street, City/Town/Village, Province, Postal Code <i>9240-221 540-207 OLIVER RD, THUNDER BAY, ONT P7B 5T8 THUNDER Bay ONT</i>		
Name and Address for Service in Ontario: (Required if Recorded Holder Resides Outside of Ontario)		

Mining Division		Township(s) or Area(s) (Show Plan No.)		Staking			Office Use	
Group Claim Number	Tag Number	No. of 16 Ha. Units Per Claim	Description if Staking in Subdivided Township (Lot No., Concession No., Section of Lot)	Post No.	Date	Time		
1	1195852	2	5L Wolf Lake G-160 Huron Imp G-651	Commenced	POST #1	June 22/92	11:00 am	/
				Completed	POST #1	✓	1:30 pm	
2	1195853	3	6L + 400 MW Wolf Lake G-160	Commenced	POST #1	June 22/92	2:00 pm	/
				Completed	POST #1	✓	5:45 pm	
3	1195856	1	" "	Commenced	POST #3	June 24/92	10:00 am	/
				Completed	POST #3	✓	12:15 pm	
4	1195857	2	" "	Commenced	POST #4	June 24/92	2:00 pm	/
				Completed	POST #4	✓	5:15 pm	
				Commenced				
				Completed				
				Commenced				
				Completed				

Office Use Only:

Pg. 2 of 2
Application to Record Staked Mining Claim(s)
Mining Act

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and will be used for serving notices. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar St., Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

Please Print Using Ink or Type

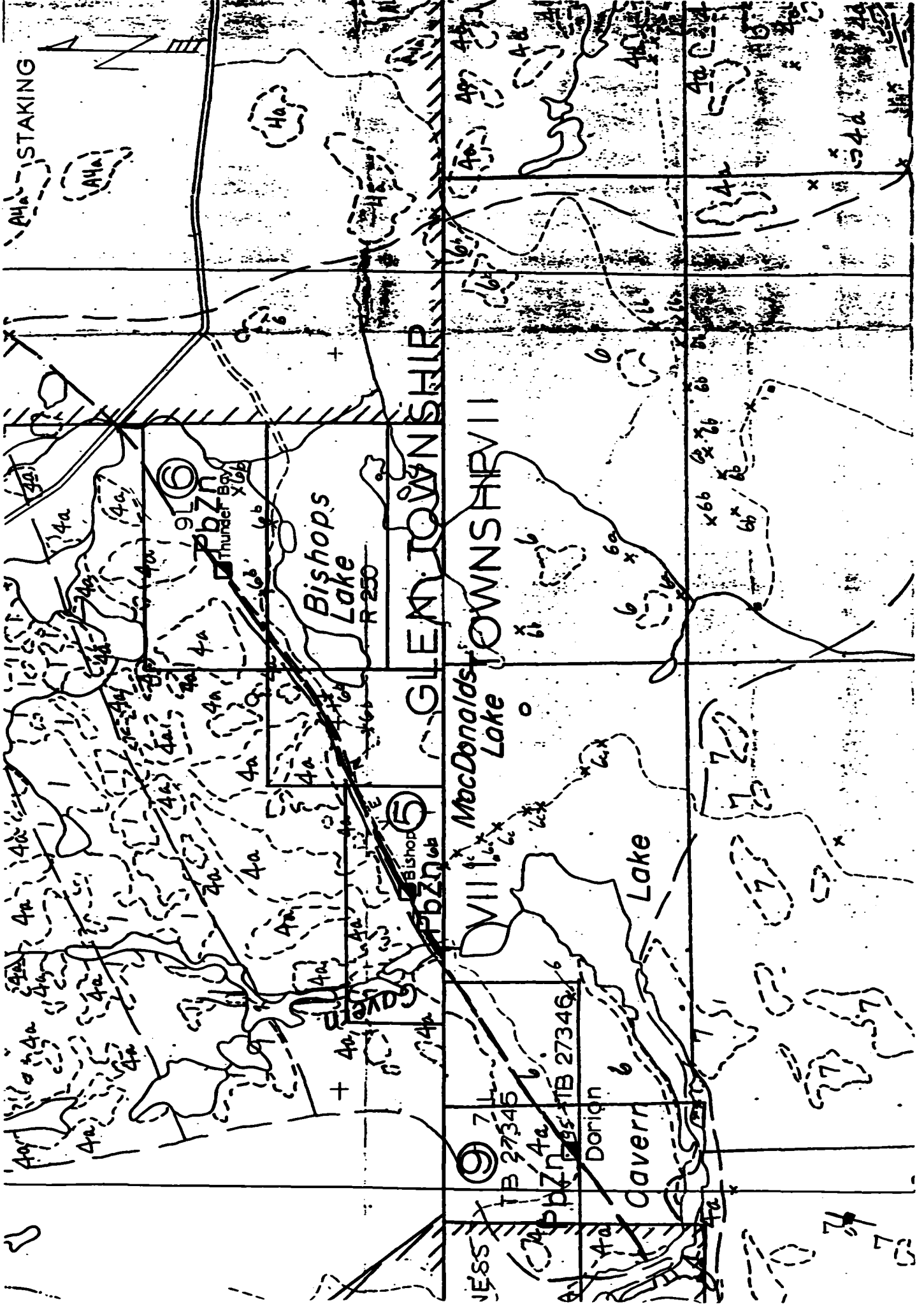
Name of Applicant <i>JAMES MARTIN</i>	Transaction No. <i>R9240-0226</i>	CHECK 240.00
Address: Street, City/Town/Village, Province, Postal Code <i>RR#2, SITE 9, ROAD - 3140 FAIRVIEW RD THUNDER BAY, ONTARIO P7C 4U1</i>	Licence No. <i>E 31969</i>	
Name and Address for Service in Ontario: (Required if Applicant Resides Outside of Ontario)	Telephone No. <i>475-9138</i>	

Name of Recorded Holder: <input type="checkbox"/> same as above or: <i>MR DAVID PETRUNKA</i>	Telephone No.	Client No. <i>181703</i>	10-2698 07-13-92
Address: Street, City/Town/Village, Province, Postal Code <i>540-207 OLIVER RD. THUNDER BAY, ONT P7B 5T8</i>			
Name and Address for Service in Ontario: (Required if Recorded Holder Resides Outside of Ontario) <i>THUNDER BAY, ONTARIO.</i>			

Mining Division <i>THUNDER BAY</i>		Township(s) or Area(s) (Show Plan No.) <i>DORION TWP (6-65)</i>		Staking			Office Use	
Group Claim Number	Tag Number	No. of 16 Ha. Units Per Claim	Description of Staking in Subdivided Township (Lot No., Concession No., Section of Lot)	Post No.	Date	Time		
1	1195854	8	ALL OF LOT 14 CONC 8 AND E 1/2 OF 8L, IN S 7 (ALL) DORION TWP	Commenced	POST #1	JUNE 23/92	7:45 AM	Pt 11.1 5
				Completed	POST #1	✓	1:20 PM	
2	1195855	3	NW 1/4 OF E 1/2 OF LOT 14 CONC 7 AND N 1/2 OF W 1/2 LOT 14 CONC 7 DORION TWP	Commenced	START POST #1	JUNE 23/92	2:15 PM	5
				Completed	POST #4	JUNE 24/92	10:00 AM	
				Commenced				
				Completed				
				Commenced				
				Completed				
				Commenced				
				Completed				

Office Use Only:

JUN 19 1992



TOPOGRAPHY AND VEGETATION

Topographic relief is less than 50 meters in the map area, rising moderately to the north from Cavern Lake. The ground is dry except for small local swamps around some of the small lakes. To the north of the main access road following the N.E. trending mineralized contact some areas have reasonable growth of trees. Poplar, some Jack Pine, and a little spruce. Underbrush is thick. To the south the area has been cut over at different periods of time. Years old areas are recent to \pm 20 years old.

Second growth poplar is the dominant tree growth. Thick brush populates the area. A mixture of sand gravel and clay in most places covered with ferns and tall cover the area. An estimate of 20% gravel 40% sand and 40% clay is found in the area. The area is dotted with small lakes Cavern lake being the largest inter-connected with small streams that find their way to larger drainage courses that eventually empty into Lake Superior.

PROPERTY STATUS + CLAIMS

The Dorion project area consists of 6 mining claims that make up nineteen (19) 16 hectare claim units covering a land area of about 751 Acres or 304 hectares. The claims were staked for DAVID PETRUNKA by James A. Martin and received for recording at the Mining Records office in Thunder Bay on July 13th 1992.

CLAIM	1195852	-	2	Units
	1195853	-	3	Units
	1195854	-	8	Units
	1195855	-	3	Units
	1195856	-	1	Unit
	1195857	-	2	Units

6 mining Claims - 19 (16) hectare Units

The claims are contiguous and straddle the boundary line between Dorion and Glen Townships.

DORION T.W.P. claim Print G-651

GLEN T.W.P. Wolf Lake claim Print G-160

RECORDED HOLDER - DAVID F. PETRUNKA

#207-540 OLIVER ROAD
THUNDER BAY, ONTARIO
P7B5T8



PREVIOUS WORK

The Darion mine was opened prior to 1907, was acquired in 1926 by Darion Lead and Zinc Mines Limited, a subsidiary of the North American Metals Corporation Limited. In 1927, 3 miles of road was constructed, a small mining plant put in and drifting was continued southwesterly from the end of the old (SANDOW) adit. The shaft of Darion mine 90 feet deep was cleared out and exploratory work was carried on elsewhere on the property. It is reported that rich lead and zinc ore was encountered at various depths in the shaft, and that ore carrying 40% in zinc is exposed across a width of 4 feet in the drift at the east end of the property.

(TANTON, 1931)

There is no report of any production during this period of time. There were however numerous trenches and pits put across the mineralization along its strike. The property appears to have been re-staked a number of times since 1927, but there was no known ground work carried out on the property until 1982 when Naranda Exploratory Company, Limited carried out some geophysical work and in 8 diamond drill holes drilled ~~216~~ 216.5 metres of core during June and July 1982. The diamond drilling started one hole in the lead and zinc mineralized zone and the other 7 holes were drilled to define stratigraphy and the attitude of the basement rocks. None of the drilling performed tested the mineralized fault zone to depth. 216 metres was assayed 27 metres for each of the 8 holes drilled. The length and intensity of the fault zone suggests diamond drilling should be performed to intersect the fault zone at depths of 100 metres, 200 metres and 300 metres to assess mineral grade and mining potential. This method should be employed along strike to 200 metre depth at various locations, to assess the mineral potential. No work has been performed on the ground since 1982.

CURRENT EXPLORATION WORK

Significant lead and zinc minerals are deposited in the Polomito, Limestone, Gert, Mudstone Breccia as well as in the fragmented and brecciated granite contact deformation zone. Possible leaching of mineral from the granite and the Sibley Group sediments took place, and were redeposited in the contact deformation zone, along the non-conformity between the granite and sedimentary rocks, along the fault zone. Mobilizing fluids transparting the minerals to and along the fault, shear contact where minerals may be easily deposited, and mineral enrichment may well form a significant commercial ore deposition. In the alternative, and in the same perspective mobilizing fluids may have leached the belt in the area underlying greenstone gneisses and schists, intermitted with hornblende gneisses and schists, may have been the source rocks for minerals mobilized along the deformed brecciated fault zone, and may perhaps explain deposition in other areas in and around Orion Township. It is possible that at depth may occur on a major scale occurrences that could explain the many throughout of the lead and zinc minerals carrying the minerals for the deposition at all the locations. Mobilizing fluids may have been the most significant agent for mineral transportation and deposition. The current exploration programme carried out was conducted to find clues to support the above. Finding the deformation zone to be a fault shear zone along which minerals appear to have been mobilized rather than deposition along the granite and Sibley group of sediments non-conformity is significant. And the diamond drilling done by Noranda to the basement of the sediments and finding no mineral deposition, makes the above discussion more agreeable with the findings this year.

STRUCTURE

On the claim group the granites to the north are pink to reddish medium to coarse grained. A mixed composition of with more quartz in the rock in places and more feldspar in rather places with some biotite. Migmatite was seen locally rather brown in colour to light pink. There appears to be remnants of an older granitic rock in the migmatite.

The Sibley Group sediments to the south are red brown to beige in colour rather sandstone is pinkish to beige rather flat layers bedded and dipping 5° to 20° locally. There are no mineral visible in the granite or the Sibley Group sediments, but does not prove the existence of mineral in the rock metallic in species.

The most interesting rocks on the property is the limestone, Dolomite, limestone, Chert and Medstone fractured and precipitated sitting along the granite contact in a fault zone. The contact zone strikes North East through the park from the Bat Cave to the Parion lead and Zinc mine, the Bonow edit area, the Bishop mine and on north east to the Thunder Bay lead and Zinc mine. The Dolomite limestone, Chert, Medstone rocks are distinct from any other rock on the claim group.

This unit is weathered white on surface and is hard and brittle unlike the contact granite and Sibley Group sediment. This unit is well mineralized near and at the granite contact, and the lead zinc mineral is seen in the granite for more than 2 metres at the Parion mine. Some North, South faulting is seen crosscutting the main fault zone.

MINERALIZED ZONE.

The mineralized zone Dolomite, Limestone, Chert, and mudstone, is fractured and precipitated located in a north east striking fault zone between granite to the north and the Sibley group sediments to the south. Where the zone outcrops, it weathers white to cream. The rock is very hard and brittle. Sphalerite and Galena throughout. Lead minerals are disseminated more than 25 metres wide. The galena or lead mineral is blue grey or lead grey, and the Sphalerite or zinc mineral throughout the rock unit is grey to grey black, the Sphalerite is yellow to honey yellow. Sphalerite was seen at one location, and is rare in nature. On the north side of the zone near the granite contact is abundant, and as well in the granite contact. The Dolomite rock unit has disseminated mineral throughout with richer stringers, lenses up to 1 to 2 feet thick, with well mineralized fracture fillings around fragments and breccia. The granite at the contact of the Dolomite, Limestone, chert, mudstone is well mineralized and can be seen for more than 2 metres, in stringers and in rich benches of granite breccia, fault system warrants a concentrated trenching and diamond drilling programme in order to prove the extent of the mineral deposition along strike and to depth.

RECOMENDATIONS

10

In view of the findings as herein reported the mineralized zone should be systematically trenched to a depth of at least 1 metre across its entire width and length in the property followed by diamond drilling. A geo-physical survey should also be undertaken to try and locate other mineralized areas on the property that do not outcrop. It is possible that significant deposition exists. The zone of mineralization should be diamond drilled and intersected at 100 metres, 200 metres and at 250 metres at intervals along the entire length of the zone in the claim group.

PROGRAM CERTIFICATE

The 1993 field season programme was carried out on the Dorian Red and Zinc Property with the assistance of the Ontario Prospectors Assistance Program Grant O P 93-1062

I DAVID F. PETRUNKA
207-540 OLIVER ROAD
THUNDER BAY, ONTARIO
P7B5T8

Certify

The information contained in this report was obtained during on site property examination and prospecting personally conducted.

D. F. Petrunka
DAVID F. PETRUNKA

DATED AT THUNDER BAY THIS 3 RD DAY
OF SEPTEMBER 1993

SAMPLE No. LOCATION & DISCRPTION

SAMPLE No.	LOCATION AND DISCRPTION
1. 217312 --	140 METRES W. DORION MINE SHAFT 1 METRE CHIP - W. SIDE OF PIT DOLOMITE, GRANITE, MUDSTONE BRECCIA
2. 217313 --	140 METRES W. OF DORION MINE SHAFT 2' CHIP IN PIT DOLOMITE, LIMESTONE, MUDSTONE
3. 217314 --	140 METRES W. OF DORION MINE SHAFT GRAB SAMPLE DOLOMITE, LIMESTONE, BRECCIA
4. 217315 --	DORION MINE SHAFT GRAB SAMPLE DOLOMITE, LIMESTONE, BRECCIA
5. 217316 --	DORION MINE SHAFT GRAB SAMPLE DOLOMITE, LIMESTONE, GRANITE BRECCIA
6. 217317 --	DORION MINE SHAFT W. SIDE 2 METRE CHIP DOLOMITE, MUDSTONE, GRANITE BRECCIA
7. 217318 --	DORION MINE SHAFT E. SIDE 1 METRE CHIP GRANITE BRECCIA
8. 217319 --	100 METRES E. OF DORION MINE SHAFT GRAB SAMPLE - W. SIDE OF PIT DOLOMITE, LIMESTONE, MUDSTONE BRECCIA
9. 217320 --	100 METRES E. OF DORION MINE SHAFT GRAB SAMPLE ACROSS 1 METRE DOLOMITE, LIMESTONE, BRECCIA
10. 217321 --	200 METRES E. OF DORION MINE SHAFT GRAB SAMPLE SMALL PIT DOLOMITE, GRANITE, BRECCIA
11. 217322 --	250 METRES E. OF DORION MINE SHAFT GRAB SAMPLE GRANITE BRECCIA

SAMPLE No. LOCATION + DISCRPTION

SAMPLE NO. LOCATION + DISCRPTION

- 12. 217323 -- 250 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
DOLOMITE, LIMESTONE, BRECCIA
- 13. 217324 -- 265 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
DOLOMITE, LIMESTONE, BRECCIA
- 14. 217325 -- 350 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
QTZ. DOLOMITE, LIMESTONE, BRECCIA
- 15. 217326 -- 410 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
QTZ, DOLOMITE, LIMESTONE BRECCIA
- 16. 217327 -- 410 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
DOLOMITE, LIMESTONE, MUDSTONE BRECCIA
- 17. 217328 -- 450 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
QTZ., DOLOMITE, LIMESTONE BRECCIA
- 18. 217329 -- 480 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
DOLOMITE, LIMESTONE, BRECCIA
- 19. 217330 -- 530 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
DOLOMITE LIMESTONE BRECCIA
- 20. 217331 -- 620 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
QTZ., DOLOMITE, LIMESTONE BRECCIA
- 21. 217332 -- 600 METRES E. of DORION MINE SHAFT
GRAB SAMPLE - WEATHER LEACHED
DOLOMITE, LIMESTONE, MUDSTONE BRECCIA
- 22. 217333 -- 600 METRES E. of DORION MINE SHAFT
GRAB SAMPLE
DOLOMITE, LIMESTONE BRECCIA

SAMPLE NO. LOCATION + DISCRPTION

SAMPLE NO.	LOCATION + DISCRPTION
23. 217334 --	600 METRES E. of DORION MINE SHAFT GRAB SAMPLE DOLOMITE, LIMESTONE BRECCIA
24 217335 --	675 METRES E. of DORION MINE SHAFT GRAB SAMPLE DOLOMITE, LIMESTONE BRECCIA
25. 217336 --	675 METRES E. of DORION MINE SHAFT GRAB SAMPLE DOLOMITE, LIMESTONE BRECCIA
26. 217337 --	BISHOP SHAFT, WEST SIDE GRAB SAMPLE GRANITE, DOLOMITE BRECCIA
27. 217338 --	BISHOP SHAFT - WEST WALL 2' CHIP SAMPLE GRANITE, DOLOMITE BRECCIA
28. 217339 --	BISHOP SHAFT - EAST SIDE 1' CHIP SAMPLE - GOOD SPAALERITE DOLOMITE, LIMESTONE BRECCIA
29. 217340 --	100 METRES E. of BISHOP SHAFT 1 METRE CHIP SAMPLE E. SIDE PIT. DOLOMITE, LIMESTONE BRECCIA
30. 217341 --	100 METRES E. of BISHOP SHAFT 2' CHIP SAMPLE - W. SIDE PIT UP SLOPE DOLOMITE, LIMESTONE, BRECCIA
31. 217342 --	100 METRES E. of BISHOP SHAFT GRAB SAMPLE - CENTRE of LONG PIT DOLOMITE, LIMESTONE, BRECCIA.



ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Page 1

MR. DAVE PETRUNKA
540-207 Oliver Road
Thunder Bay, Ontario
P7B 5J8

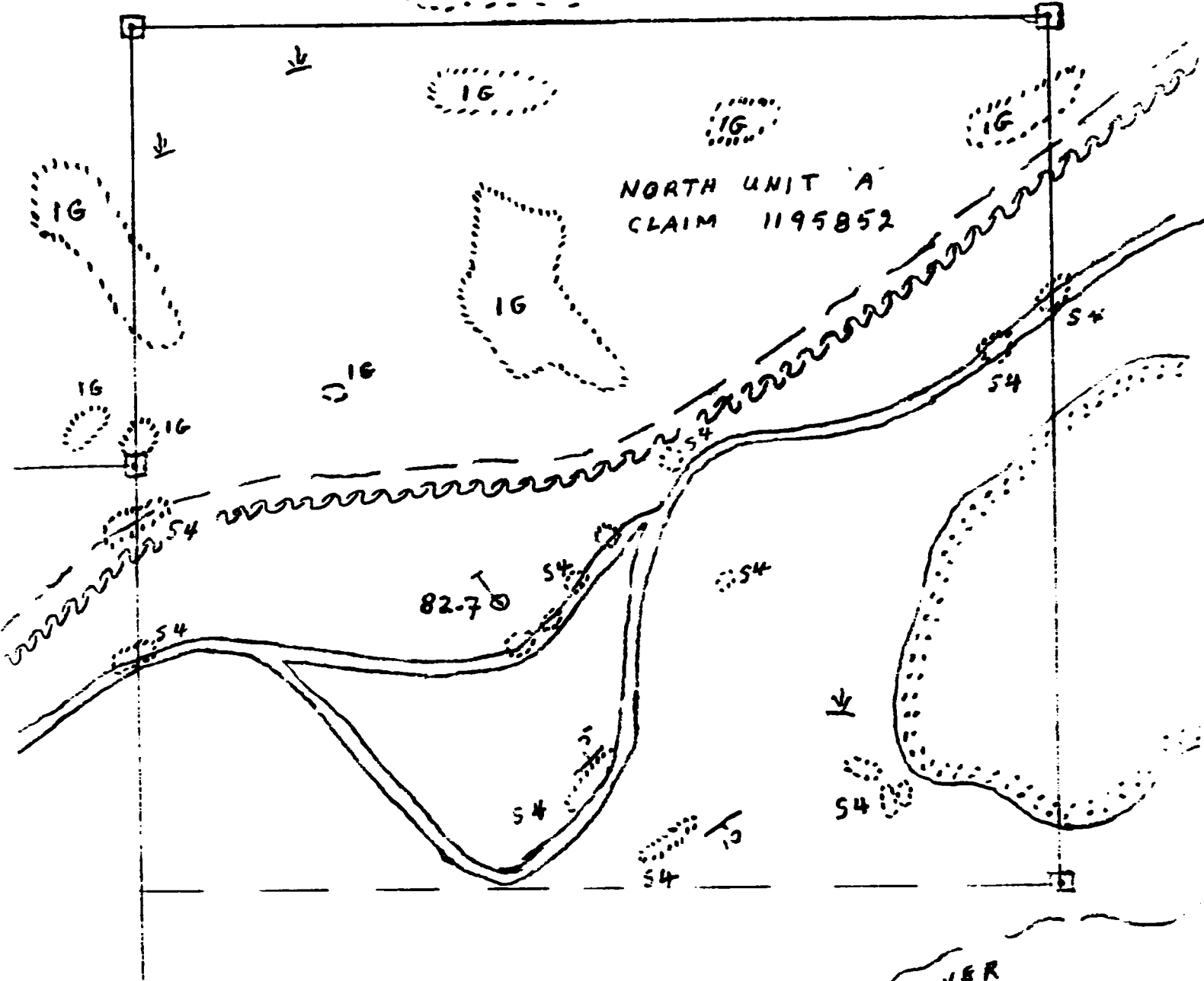
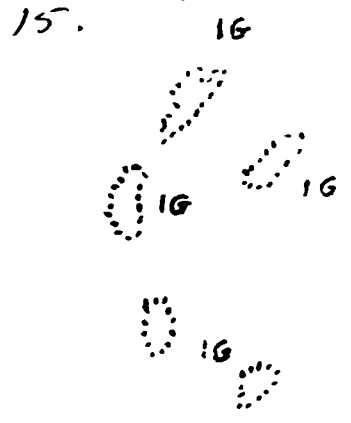
August 27, 1993

Job #934338
#934344

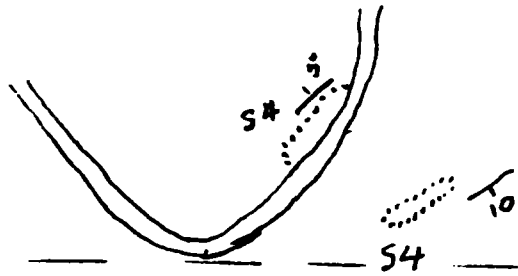
Accurassay	Sample # Customer	Lead ppm	Zinc ppm	Silver ppm
	1 217312	13.68%	4720	
	2 217313	8.76%	3.26%	
	3 217314	9.47%	3480	
	4 217315	664	21.28%	
	5 217316	533	24.32%	
	6 217317	1.03%	3840	<1
	7 217318	450	23.68%	
	8 217319	1.35%	11.92%	
	9 217320	1.97%	3.26%	
	10 217321	1.10%	2.85%	
	1 217322	2.20%	18.64%	
	2 217323	2.32%	16.64%	
	3 217324	7.12%	2.95%	
	4 217325	5.92%	2.80%	
	5 217326	1.14%	12.74%	
	6 217327	2.66%	1.78%	
	7 217328	6160	1.08%	
	8 217329	1.81%	2.94%	
	9 217330	837	3.57%	
	10 217331	139	2.70%	5
	11 217332	592	13.44%	
	12 217333	3520	7.56%	
	13 217334	3.32%	2.58%	
	14 217335	6.48%	9560	
	15 217336	8280	9.48%	
	16 217337	2200	22.00%	
	17 217338	1308	16.88%	
	18 217339	90	27.68%	
	19 217340	68	5.20%	
	20 217341	16	19.28%	
	21 217342	33	8.24%	

Certified By: Chris Bever

PLATE # 1
CLAIM 1195852
(2 UNITS)



CUT OVER



1195852
2 UNITS

SOUTH UNIT "B"

CUT OVER

NO
o/c

NO
o/c

SECOND GROWTH POPLAR
THICK BRUSH

CUT OVER

CUT OVER

S4

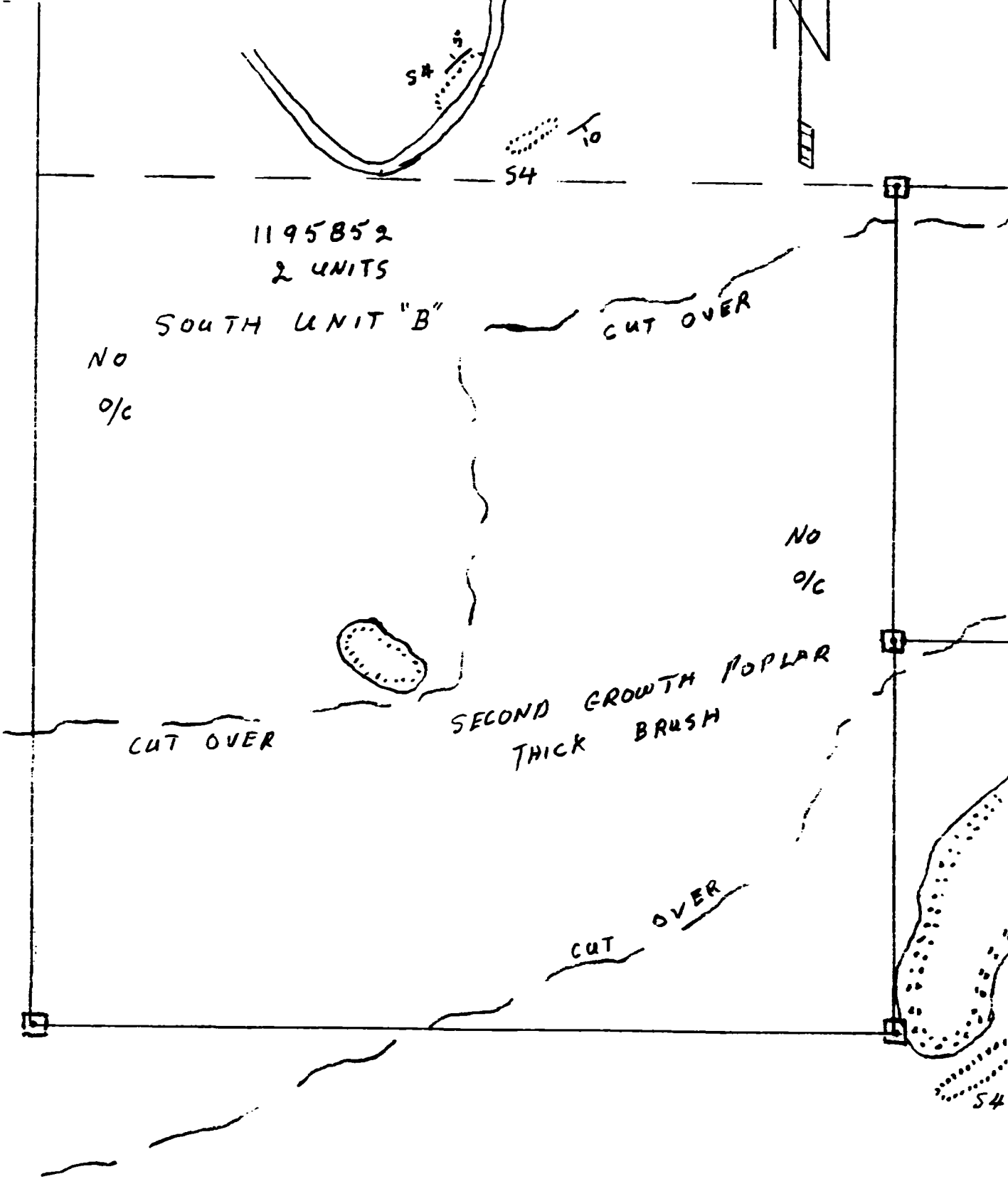


PLATE # 3



UNIT "A"
CLAIM 1195853
(3 UNITS)

16

16

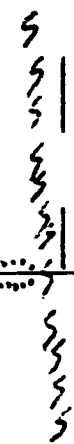
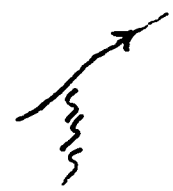
16

NO
o/c

NO
o/c

NO
o/c

NO
o/c



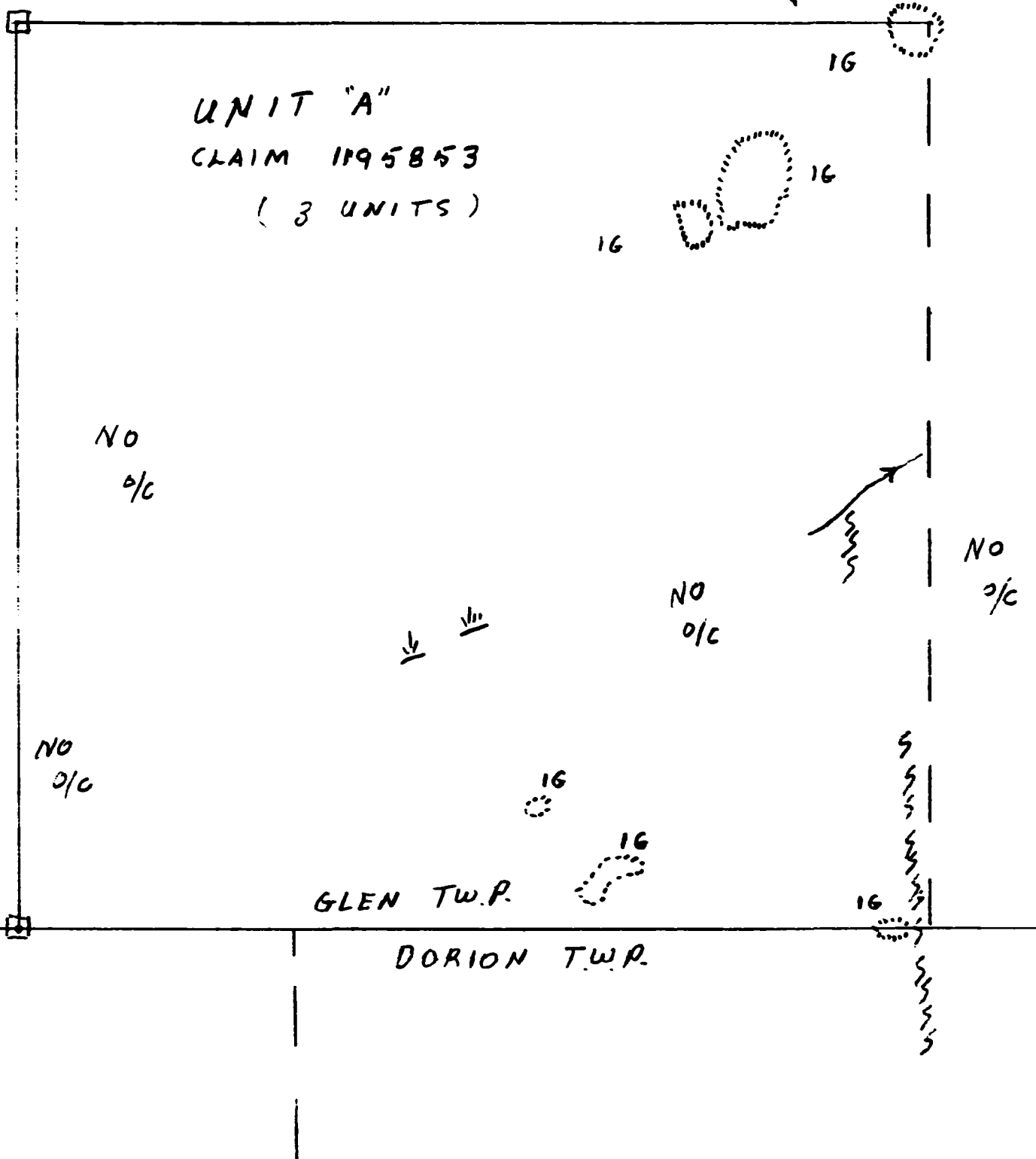
16

16

GLEN T.W.P.

DORION T.W.P.

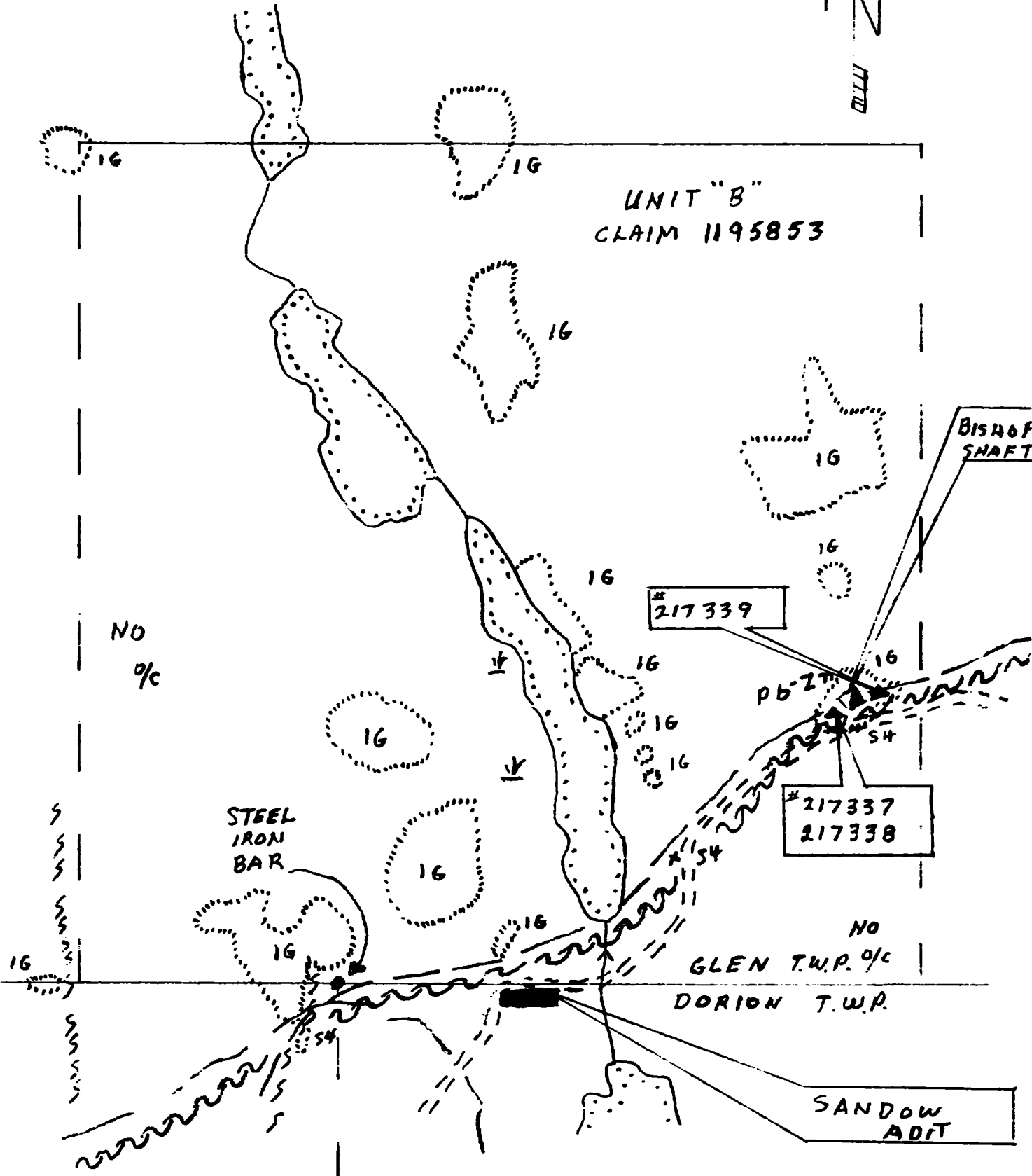
16



UNIT "B"
CLAIM 1195853
(3 UNITS)



UNIT "B"
CLAIM 1195853



BISHOP
SHAFT

#217339

#217337
217338

NO
o/c

STEEL
IRON
BAR

NO
GLEN T.W.P. o/c
DORION T.W.P.

SANDOW
ADIT

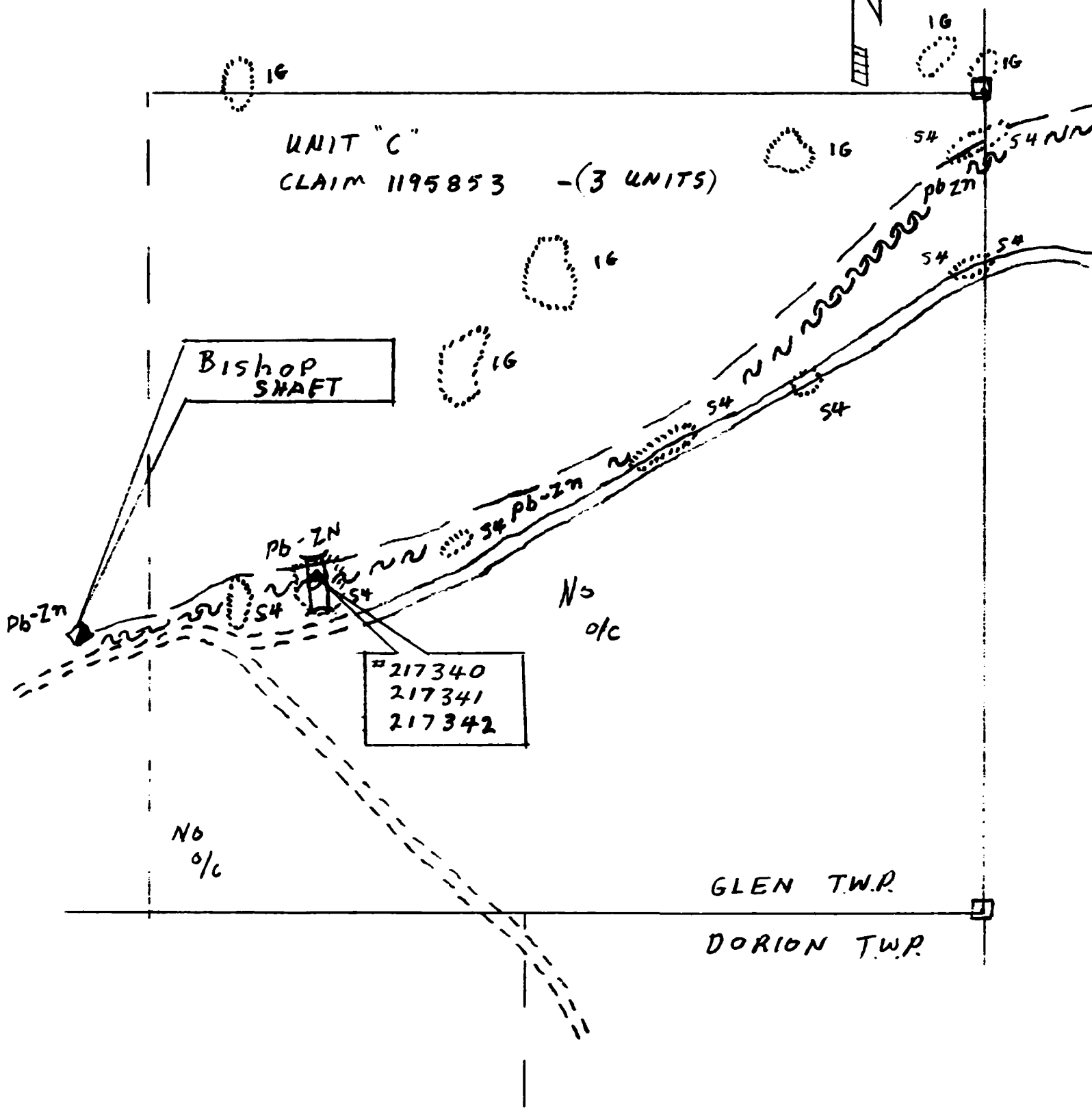
PLATE # 5



UNIT "C"
CLAIM 1195853 - (3 UNITS)

BISHOP
SHAFT

217340
217341
217342



NORTH WEST CORNER
CLAIM 1195854 (8 UNITS)
CLAIM UNIT "A"

PLATE = 6

STEEL
IRON
BAR

GLEN T.W.P.

DORION TWP.

No
o/c

x 16

No
o/c

16

DORION
MINE
217315
217316
217317
217318

x 6B

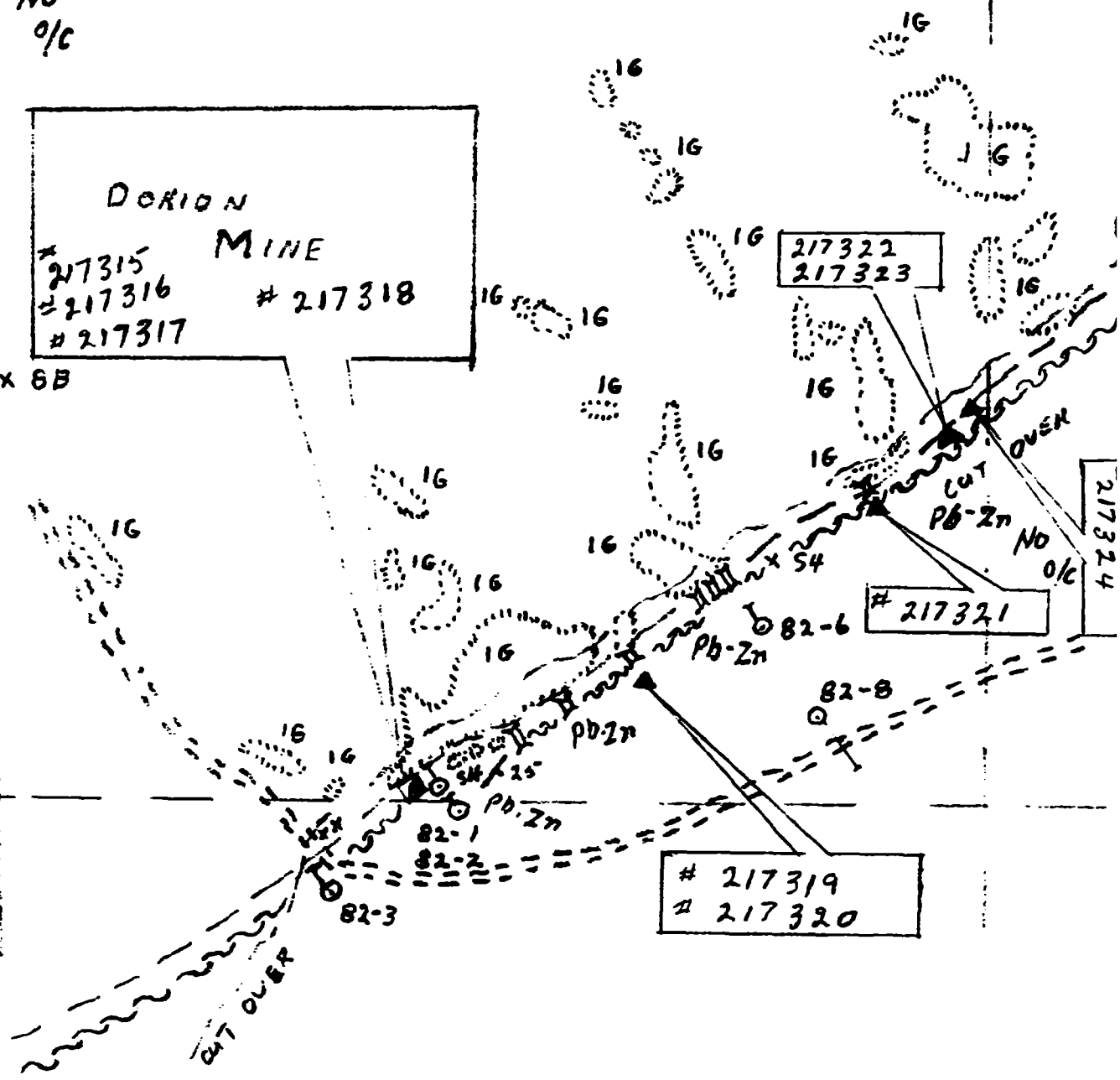
217322
217323

BAT CAVE PROVINCIAL PARK

217321

217324

217319
217320



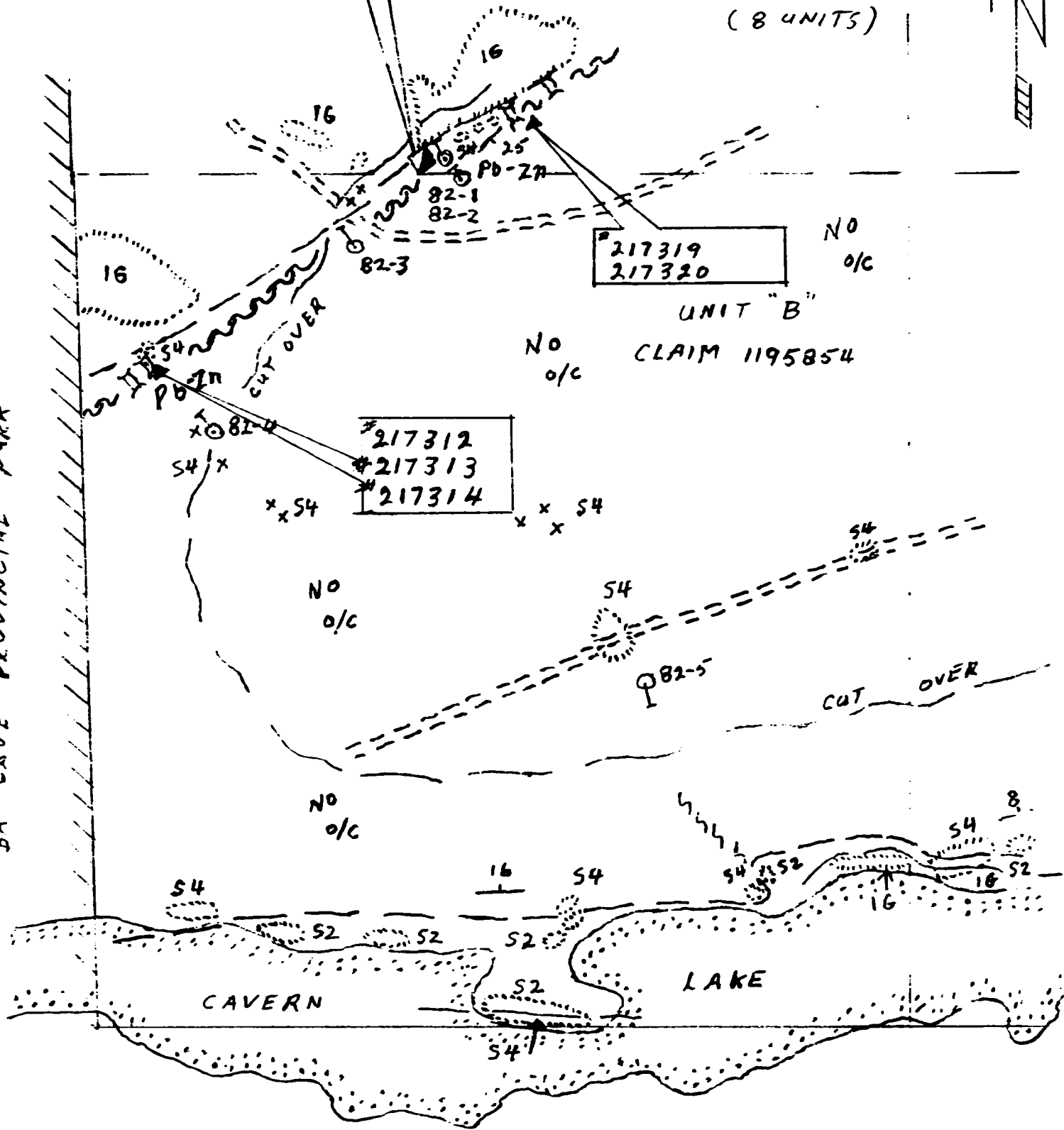
DORION
MINE

PLATE # 7

CLAIM 1195854
UNIT "B"
(8 UNITS)



BAT CAVE PROVINCIAL PARK



#217319
#217320

NO
o/c

UNIT "B"
CLAIM 1195854

NO
o/c

#217312
#217313
#217314

NO
o/c

NO
o/c

CAVERN

LAKE

CUT OVER

S4

S2

S2

16

S4

S2

S2

S4

S4

S2

S4

8

S2

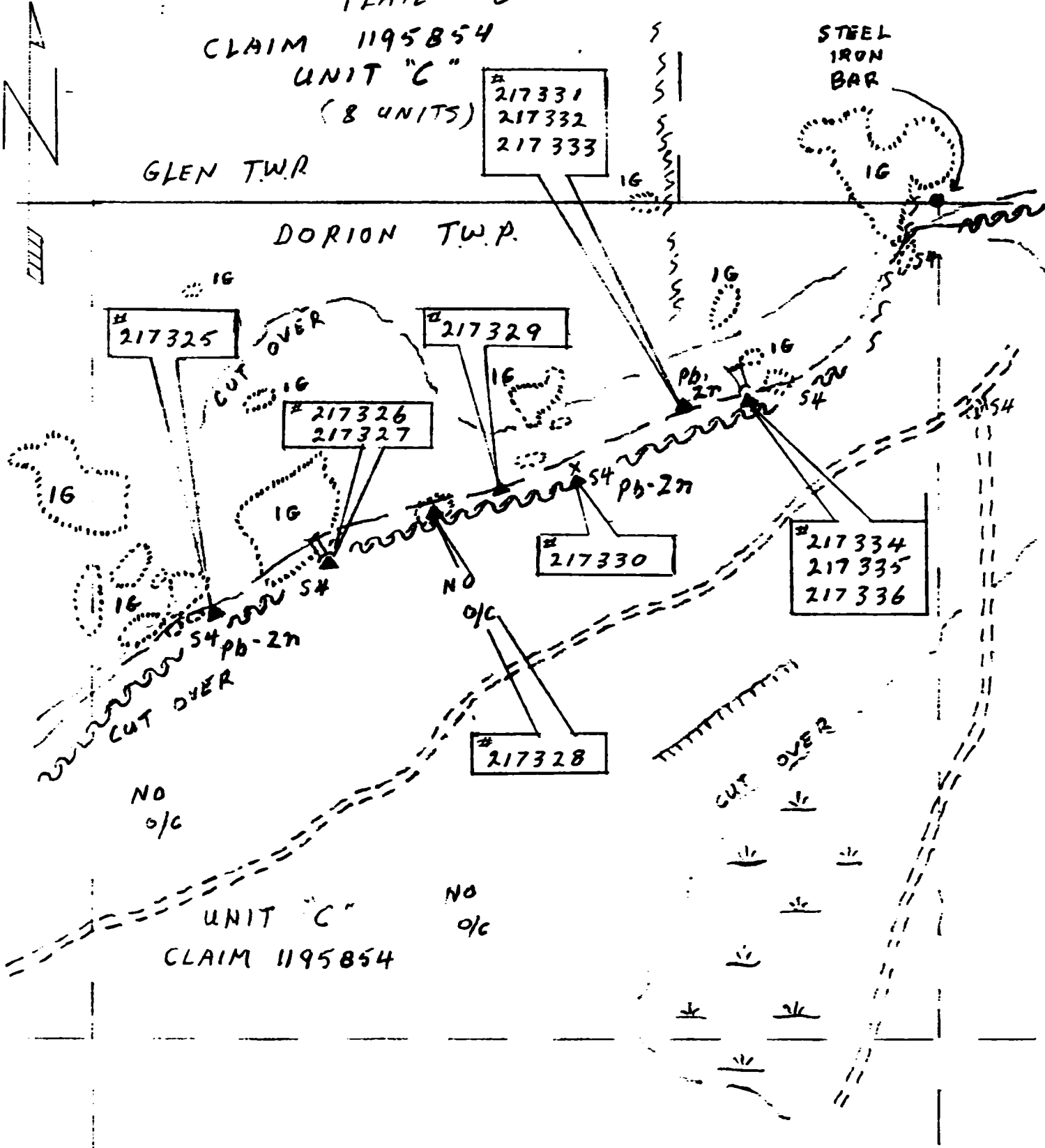
16

PLATE # 8
CLAIM 1195854
UNIT "C"
(8 UNITS)

GLEN TWR

STEEL
IRON
BAR

DORION TWP.



217325

217329

217326
217327

217330

217334
217335
217336

217328

217331
217332
217333

NO
o/c

NO
o/c

UNIT "C"
CLAIM 1195854

CUT OVER

CUT OVER

CUT OVER

pb-2n

pb-2n

S4

S4

16

16

16

16

16

16

16

16

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16

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16

PLATE # 9



UNIT "D"
CLAIM 1195854

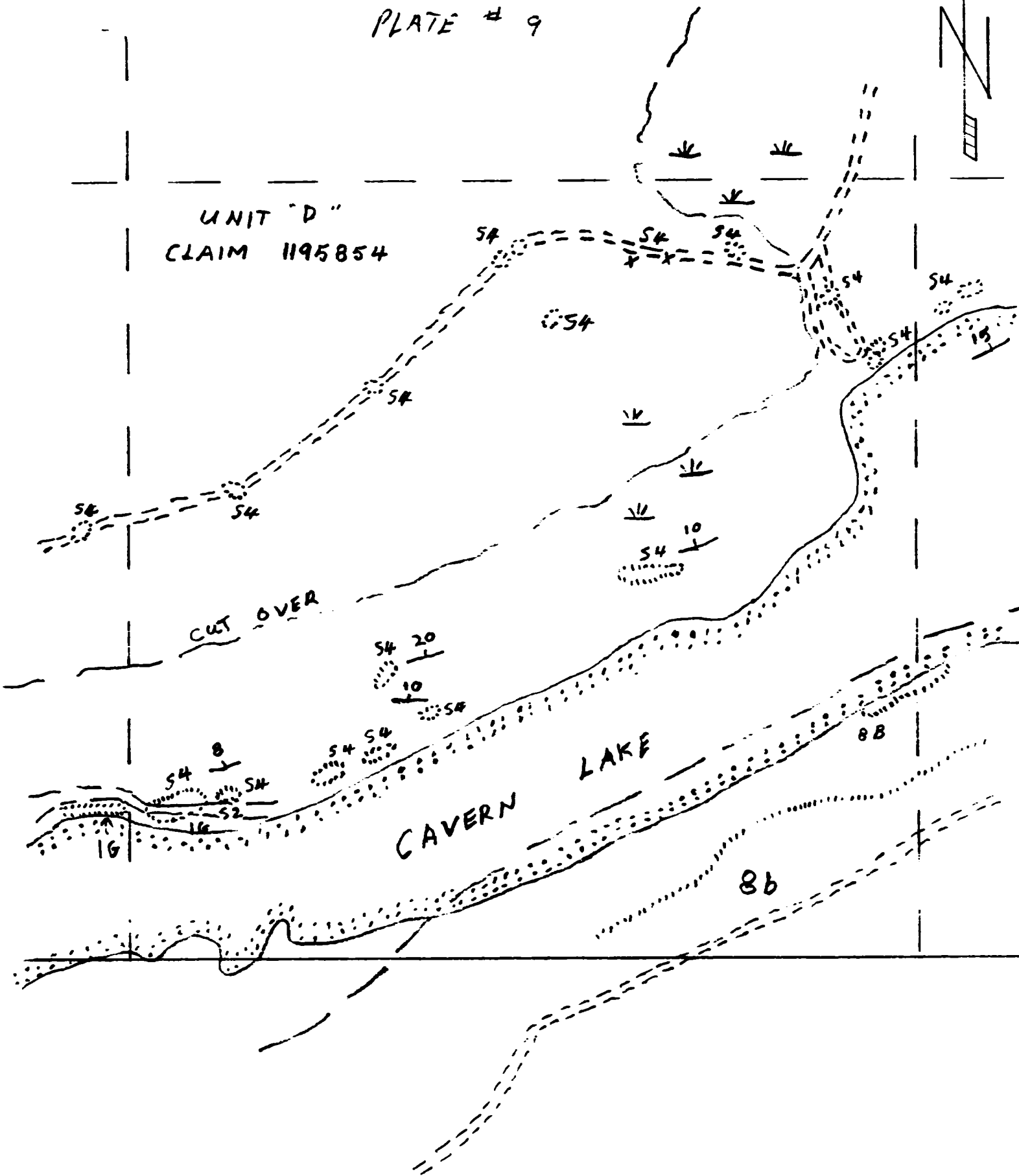


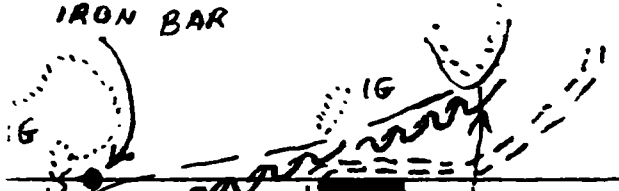
PLATE # 10



STEEL
IRON BAR

GLEN T.W.P.

DORION T.W.P.



SANDOW
ADIT

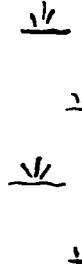
NO
O/C

NO
O/C

UNIT "E"
CLAIM 1195854

NO
O/C

CUT OVER



X 54

X 54

CAVERN LAKE

1195854
B UNITS

15
54

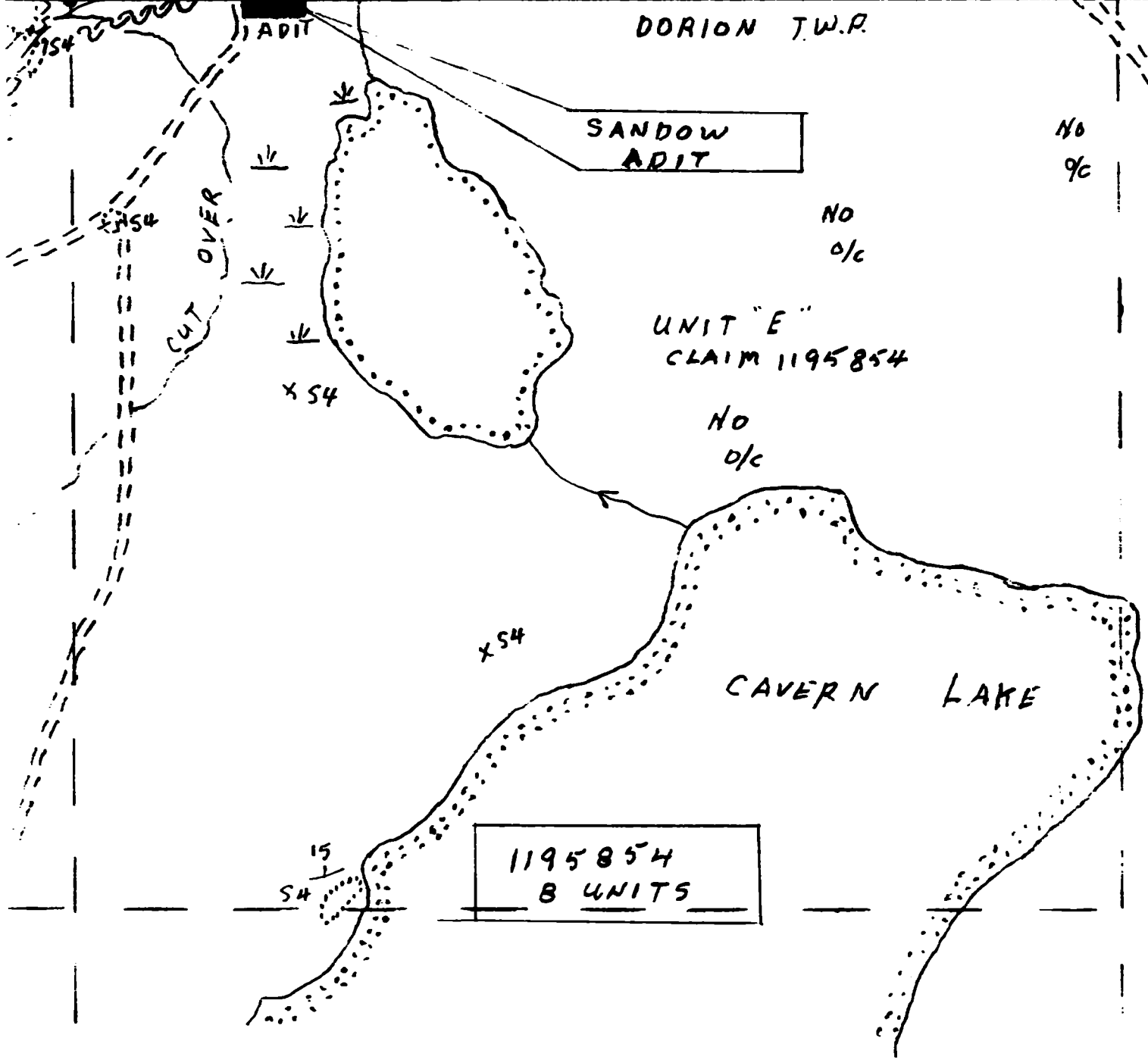


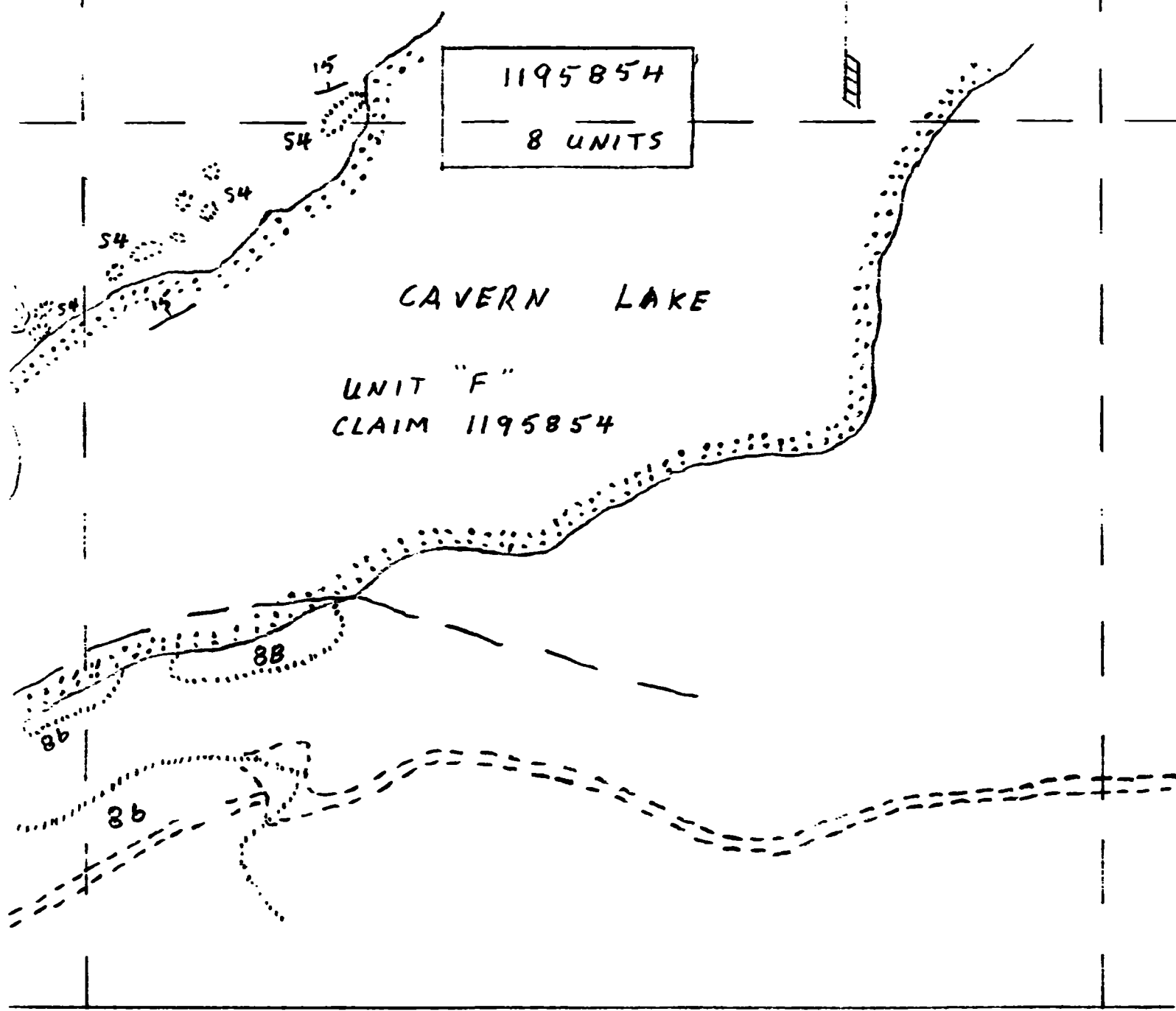
PLATE # 11

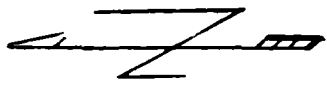


1195854
8 UNITS

CAVERN LAKE

UNIT "F"
CLAIM 1195854





GLEN TWP.

DORION TWP.

PLATE # 12

UNIT "G"
CLAIM 1195854

CUT OVER

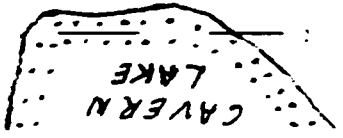
CUT OVER

CUT OVER

SECOND GROWTH POPLAR
THICK BRUSH

N/O

N/O



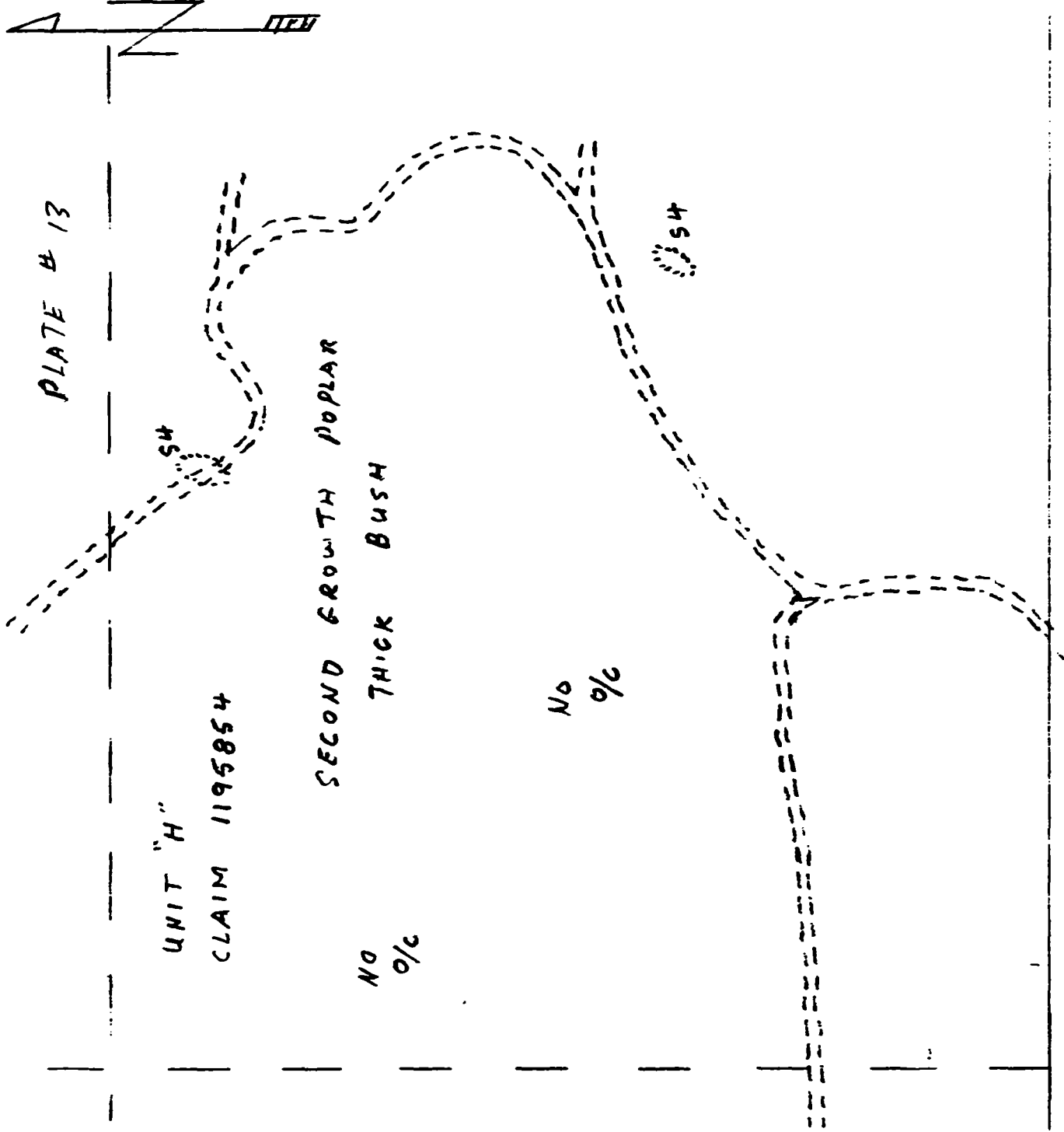
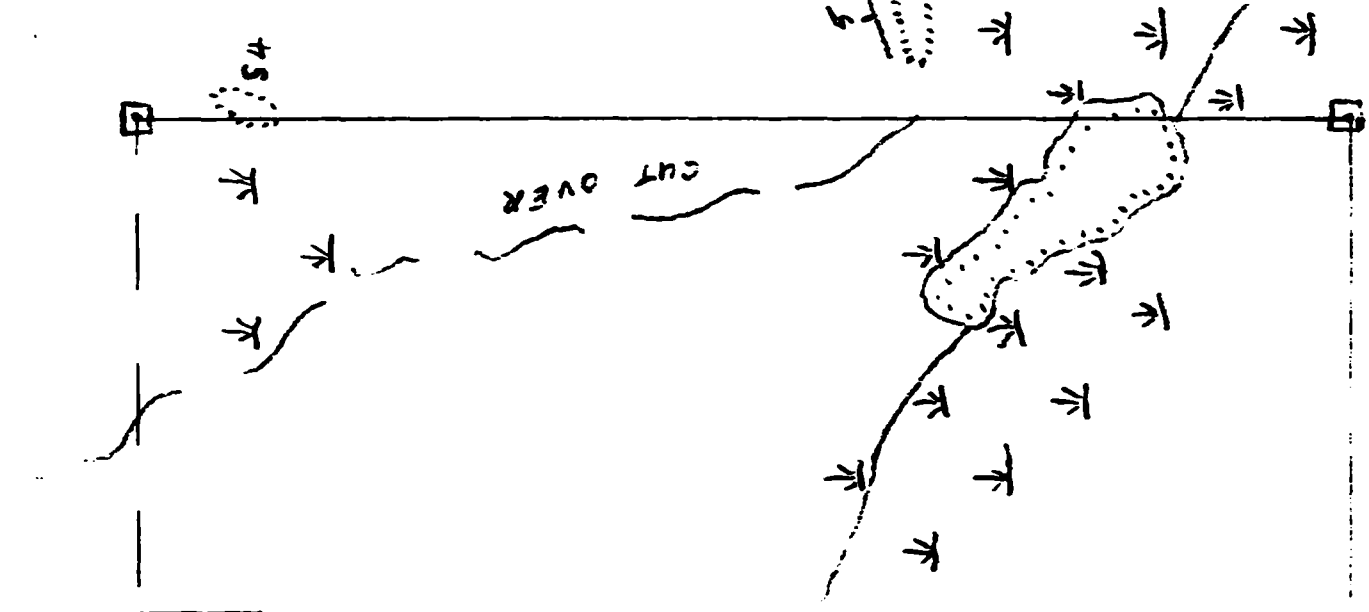


PLATE # 13

UNIT "H"

CLAIM 1195854

SECOND GROWTH POPLAR

THICK BUSH

NO
0%

NO
0%

45

45

CUT OVER

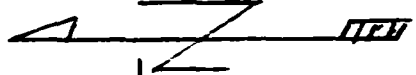
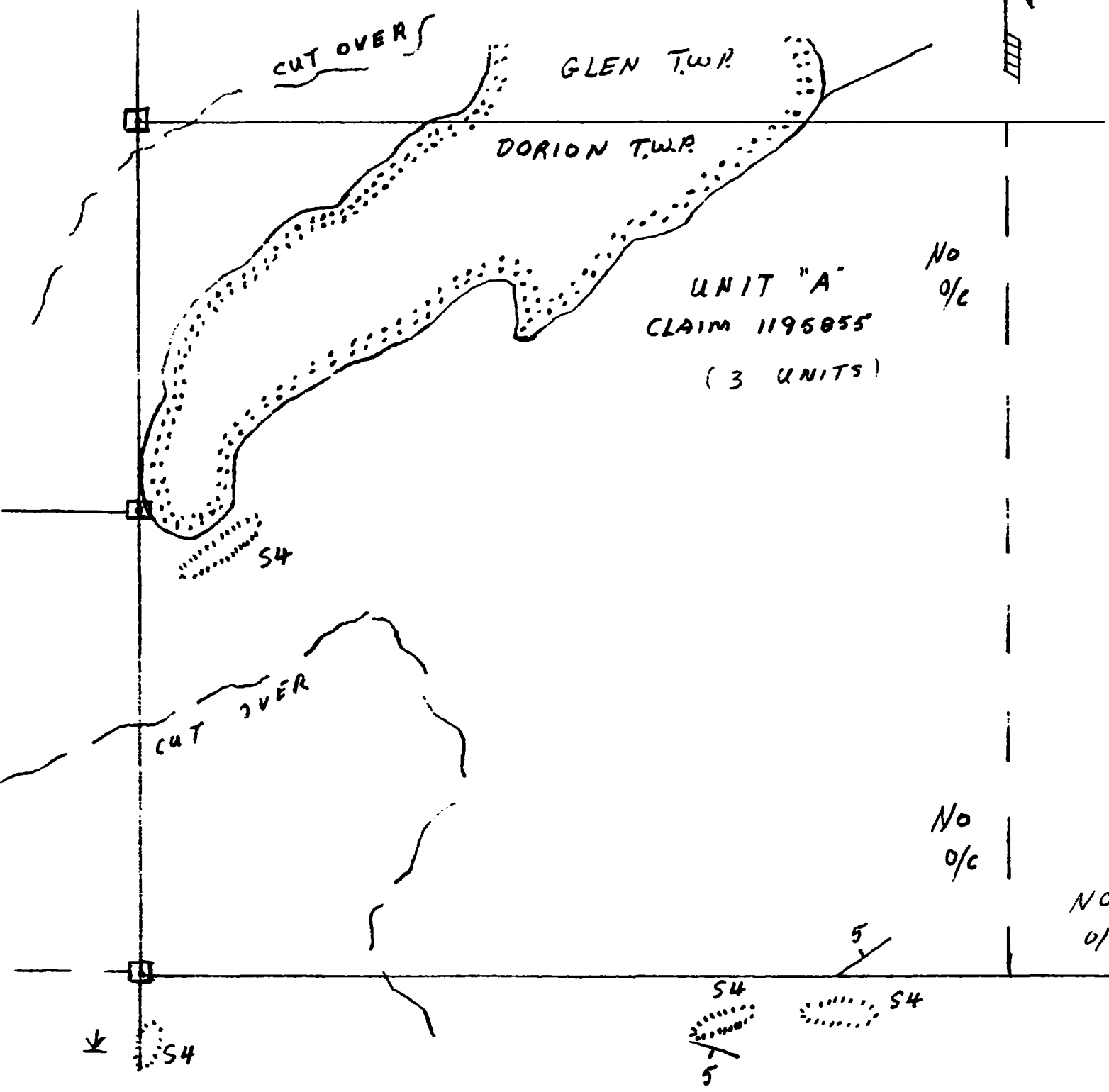


PLATE # 14



No
o/c

No
o/c

No
o/c

S4

CUT OVER

GLEN TWP.

DORION TWP.

UNIT "A"
CLAIM 1195055
(3 UNITS)

S4

S4

S4

5

5

↓

PLATE # 15



8b

GLEN T.W.P.

DORION T.W.P.

No
o/c

No
o/c

No
o/c

UNIT "B"

1195855-

3 UNITS

No
o/c

No
o/c

No
o/c



54

15

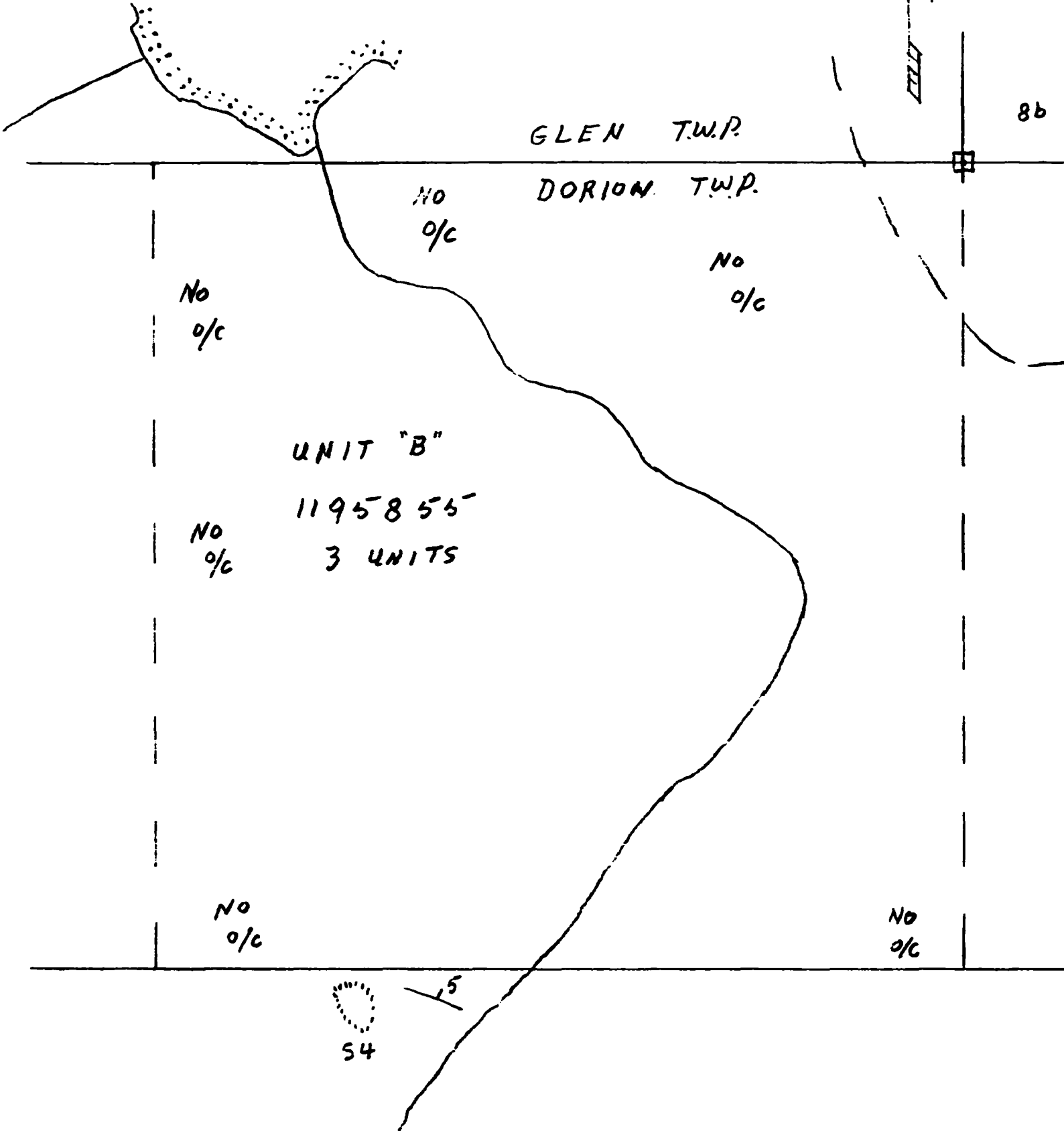


PLATE # 16

GLEN T.W.P.

DORION T.W.P.

86

86

86

UNIT "C"

CLAIM 1195855

3 UNITS

No
o/c

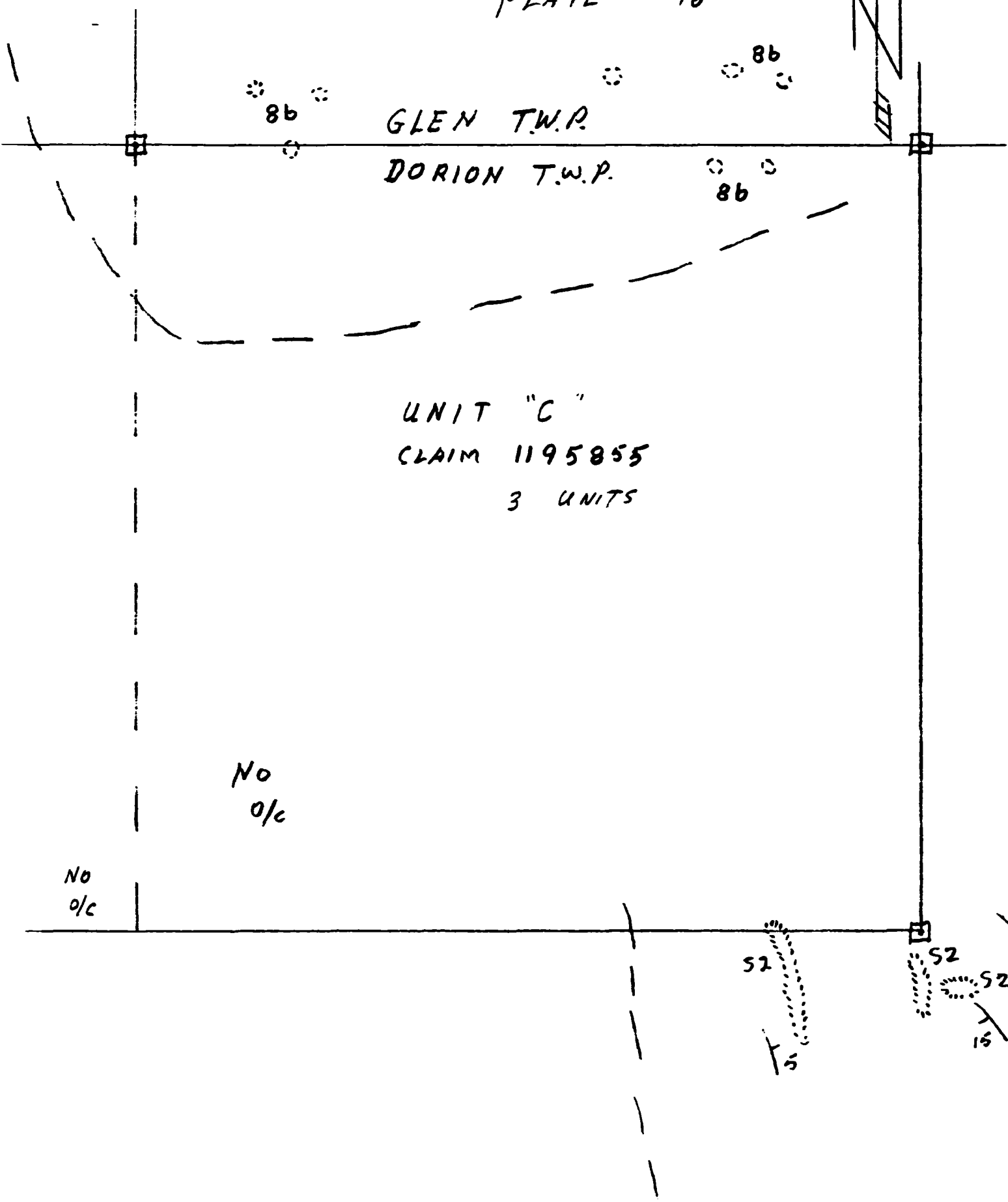
No
o/c

S2

S2

S2

15



NORTH UNIT "A"
CLAIM
1195852

PLATE # 17



CLAIM 1195856
1 UNIT
WEST PART.

SECOND GROWTH
POPLAR
THICK BRUSH

CLAIM
1195852

NO
%

CUT OVER

UNIT "A"
1195855

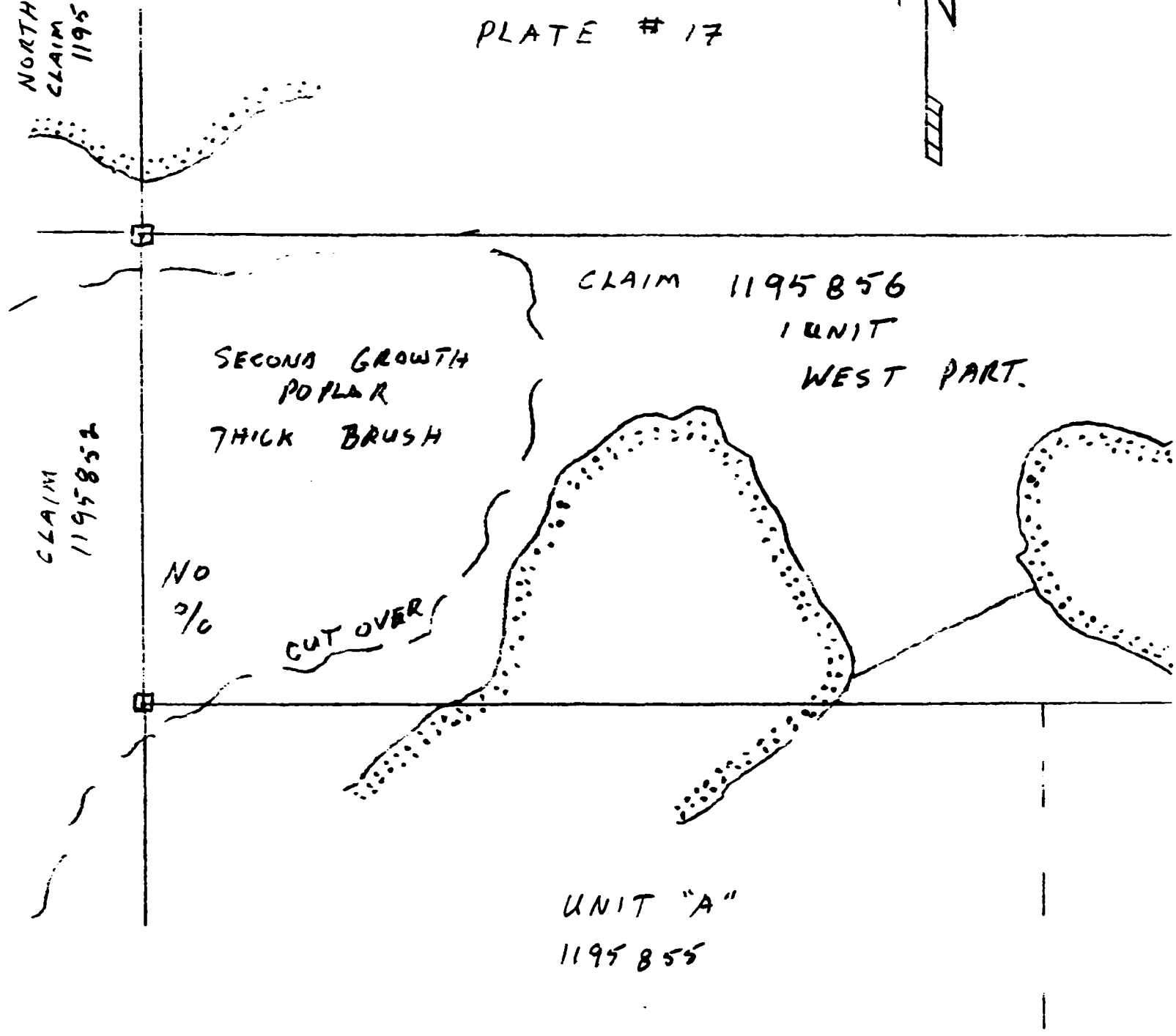
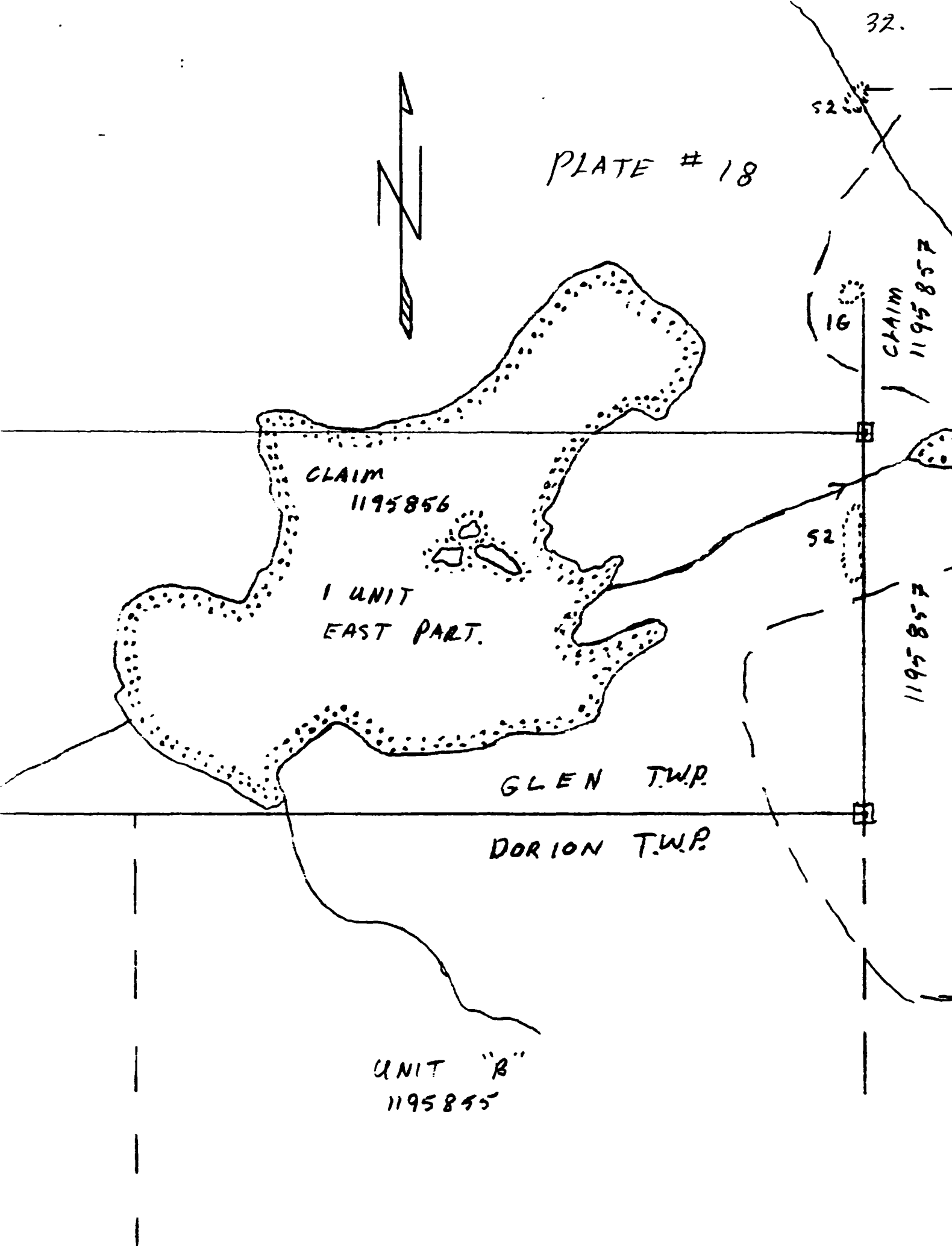


PLATE # 18



CLAIM
1195856

1 UNIT
EAST PART.

CLAIM
1195857

CLAIM
1195855

GLEN TWP.

DORION TWP.

UNIT "B"
1195855

52

16

52

PLATE # 19



NO
o/c

NO
o/c

NO
o/c



NORTH
UNIT "A"
CLAIM 1195057
2 UNITS

NO
o/c

NO
o/c

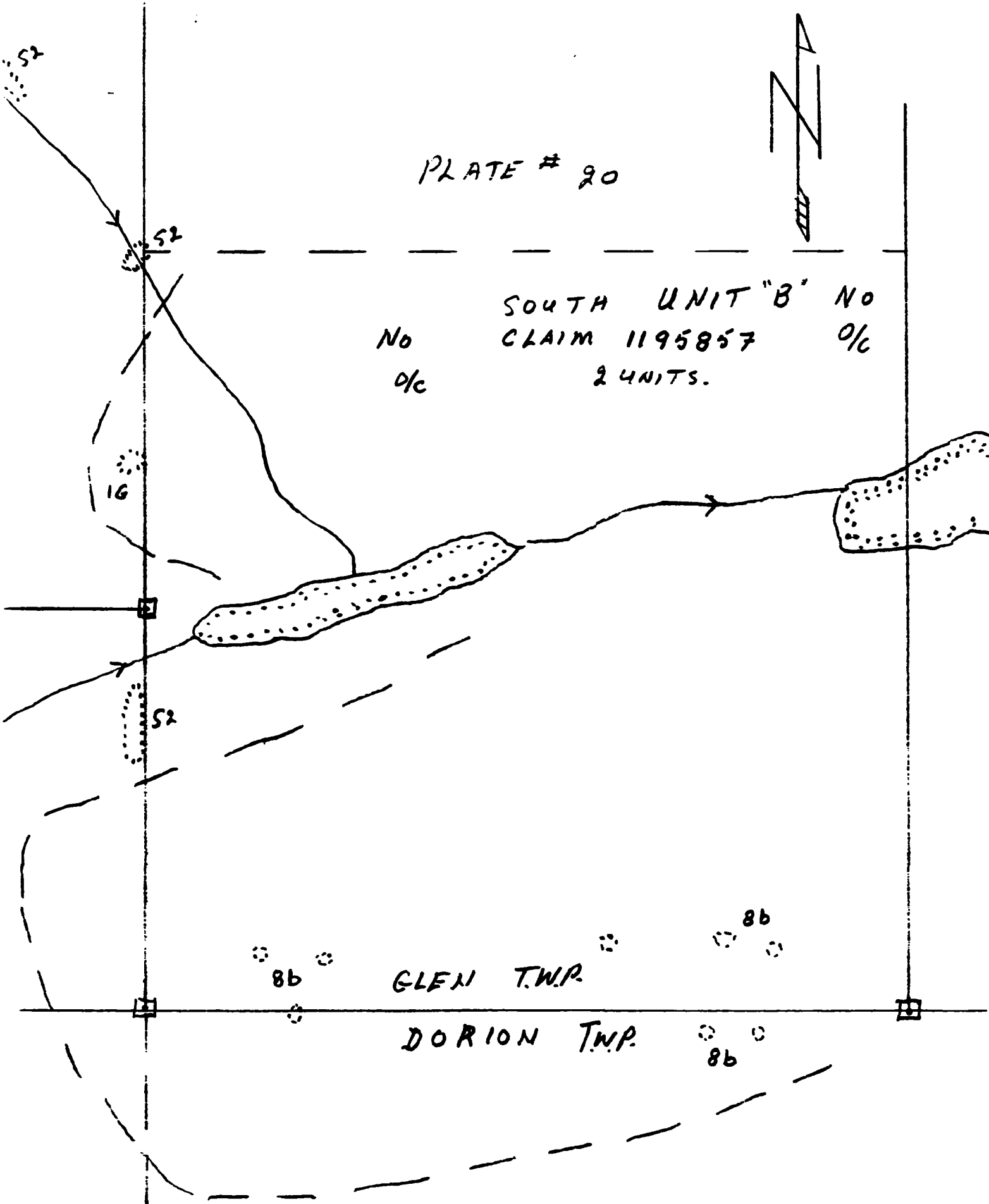
NO
o/c



PLATE # 20



No	SOUTH UNIT "B"	No
o/c	CLAIM 1195857	o/c
	2 UNITS.	



16

52

52

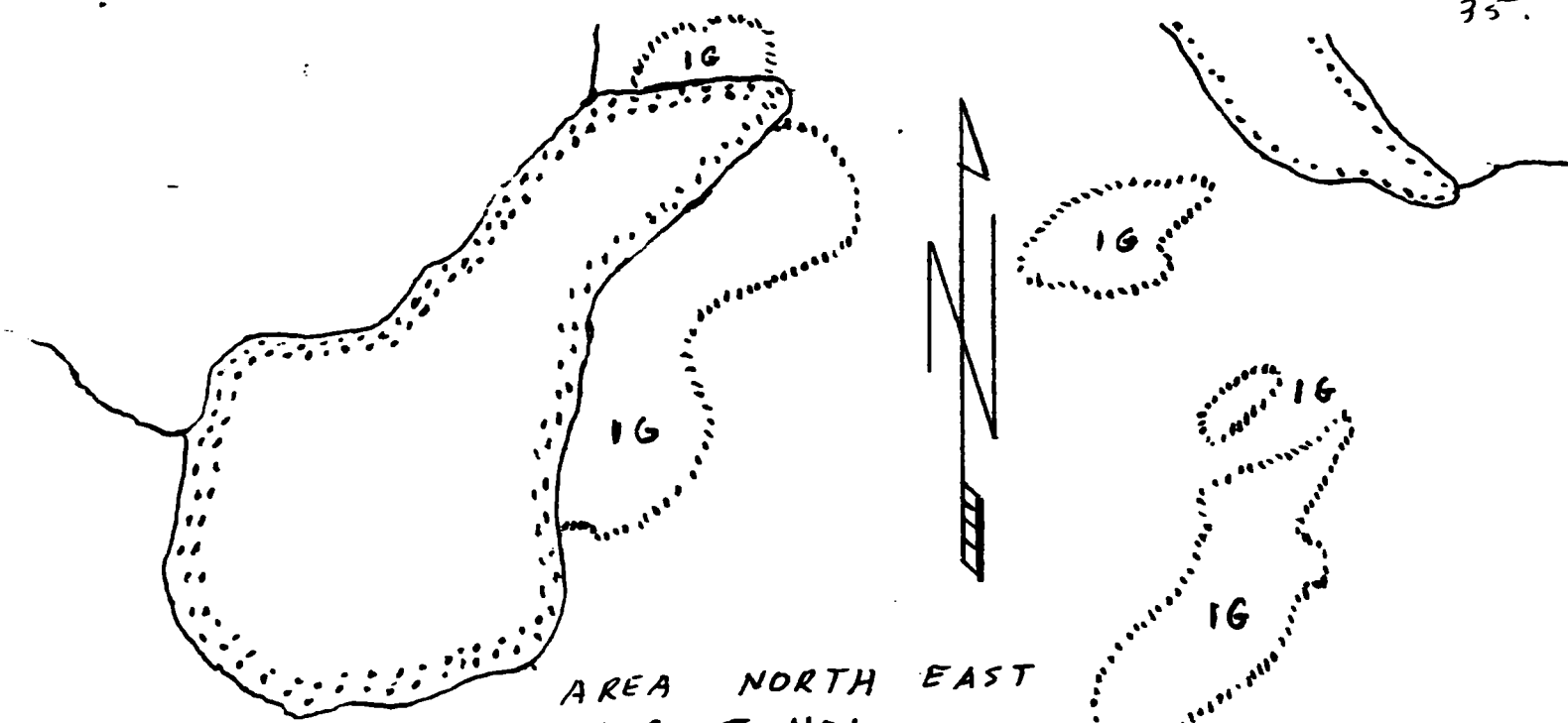
8b

GLEN TWP.

8b

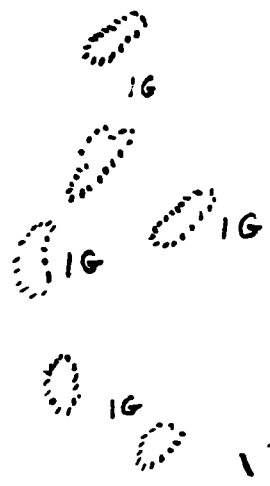
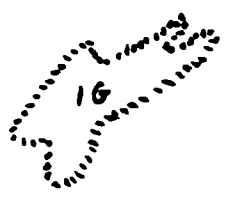
DORION TWP.

8b



AREA NORTH EAST
OF POST NO. 1
CLAIM 1195852
NORTH UNIT 'A'

PLATE # 21



THUNDER BAY
LEAD & ZINC

POST NO. 1 - NORTH UNIT 'A'
CLAIM 1195852

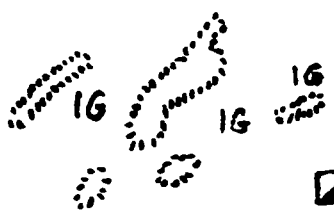
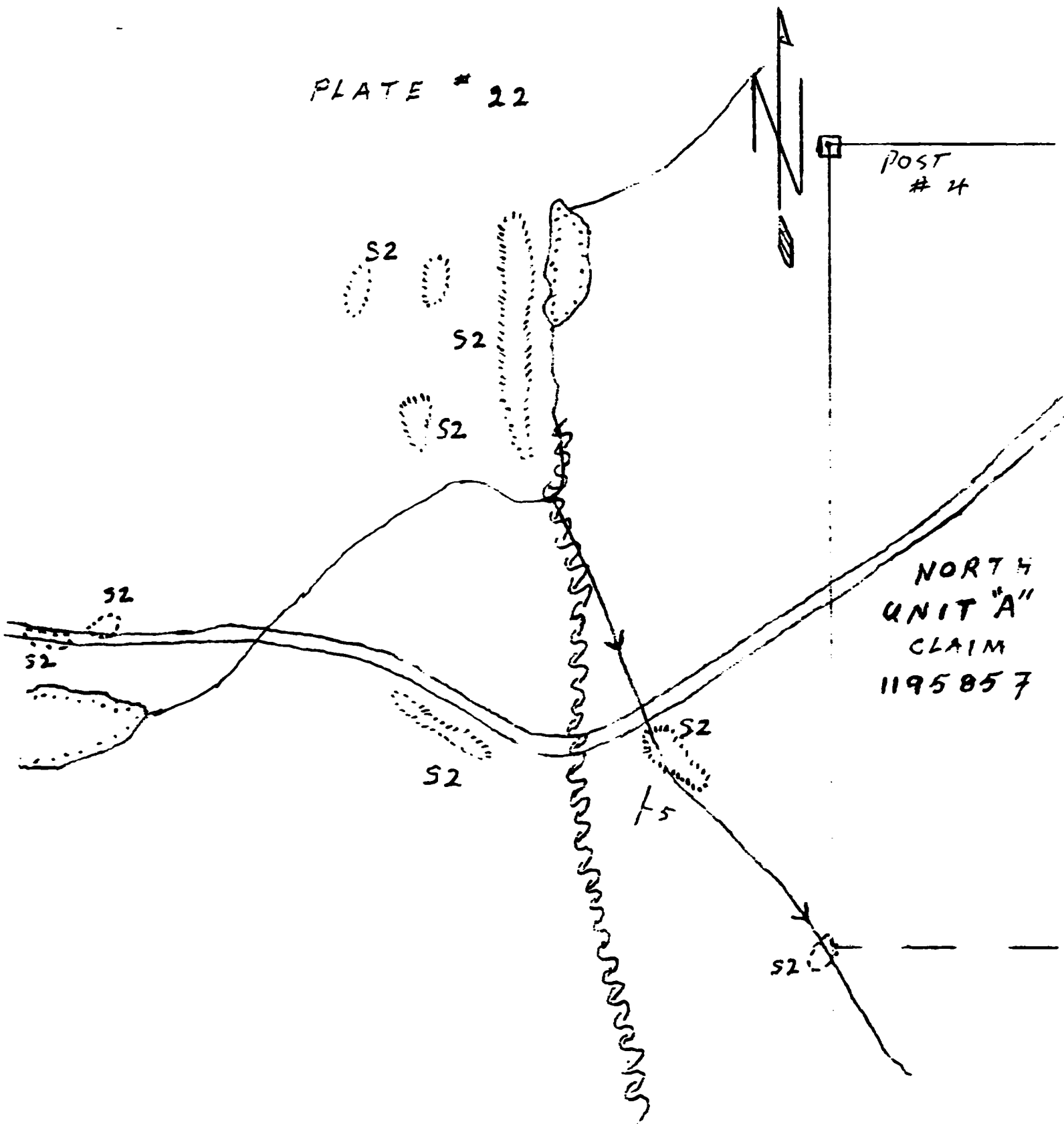


PLATE # 22

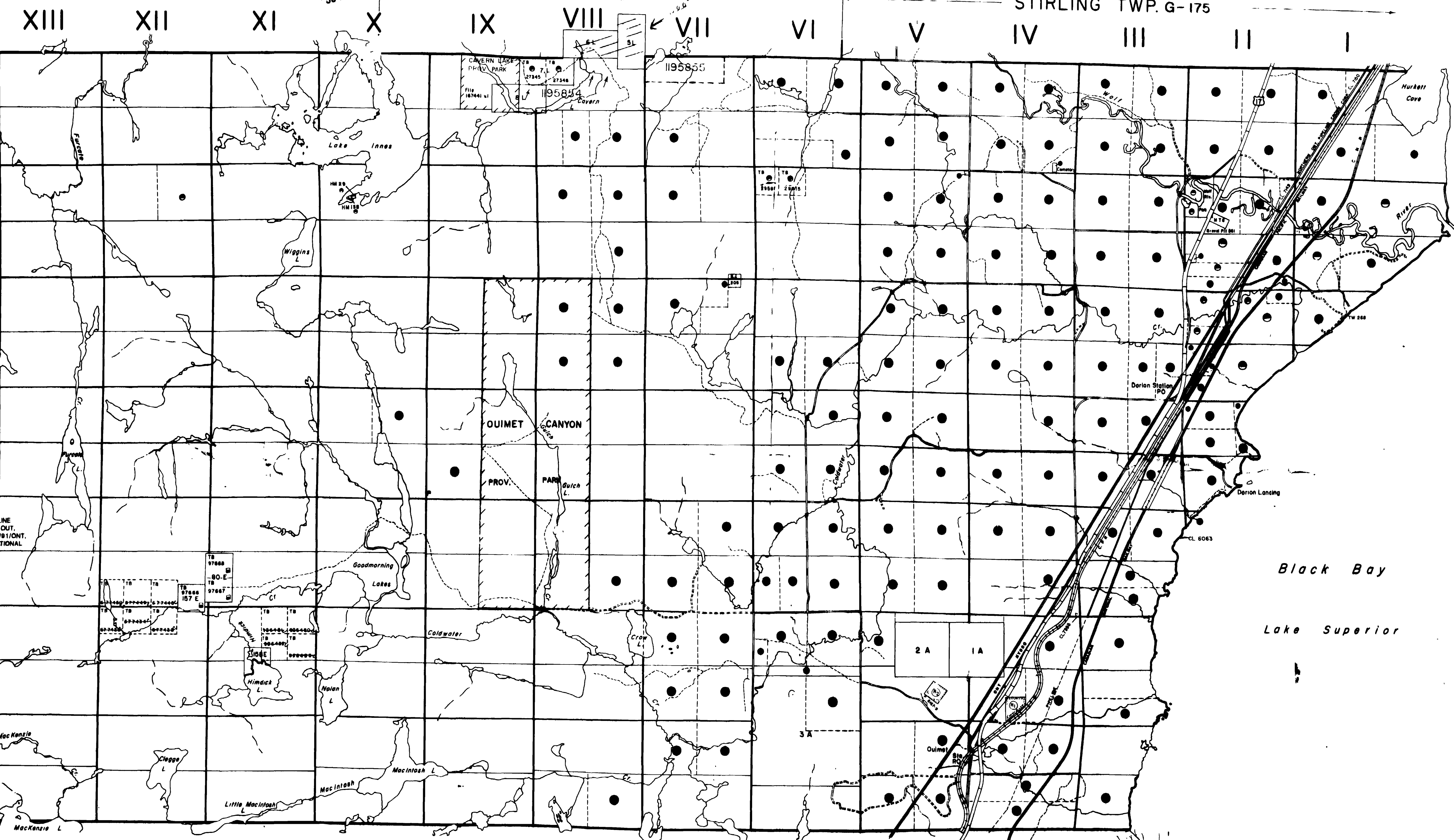


RECEIVED
THUNDER BAY
MINING DIVISION
'93 MAR 4 PM 2 35

GLEN TWP. G-160

STIRLING TWP. G-175

McTAVISH TWP. G-675



THE SURFACE RIGHTS LYING WITHIN 40.25 m OF THE CENTER-LINE OF THE TRANS CANADA PIPELINE RIGHT-OF-WAY ARE WITHDRAWN FROM TAKING OUT, PROSPECTING, SALE OR LEASE BY ORDER W-0 9110101, DATED SEPT 20 1991, SECTION 112 OF THE NATIONAL ENERGY ACT APPLIES TO THIS AREA.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

AREAS WITHDRAWN FROM DISPOSITION
S.R. - SURFACE RIGHTS M.R. - MINING RIGHTS

Description	Order No.	Date	Disposition	File
Sec 36/80	WNCR/95	Jan/95	S & M R	
Sec 36/80	23/87/NCR	Feb/87	S R O	118553

LAND UNDER WATERS OF LAKE SUPERIOR WITHDRAWN FROM STAKING BY ORDER IN COUNCIL DATED APRIL 30, 1982

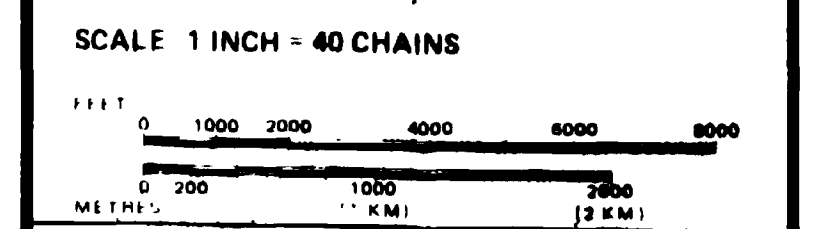
LEGEND

HIGHWAY AND ROUTE No	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS BASE LINES ETC	
LOTS MINING CLAIMS PARCELS ETC	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

LAND-USE PERMITS FOR COMMERCIAL TOURISM/OUTPOST CAMPS
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 2, 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 300, SEC. 62, SUBSEC. 1



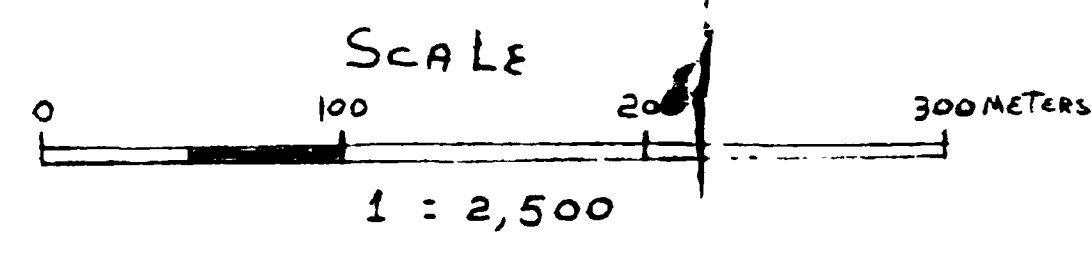
TOWNSHIP
DORION TWP.
M.N.R. ADMINISTRATIVE DISTRICT
THUNDER BAY
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

Ministry of Natural Resources
Land Management Branch
Ontario
MARCH 3, 1987
Date MARCH 1988
Number
G-651

Handwritten notes:
48°30' 88°40'
118°1' 66°29'



DAVE PETRUNKA	
DORION Pb-Zn MINE	
TOWNSHIP: GLEN - Dorion Twp	SCALE: 1:2500
EXECUTED BY: C. LABOUSKE	DATE: Aug 33
INTERPRETED BY: _____	DATE: _____
APPROVED BY: _____	DATE: _____
DRAWN BY: _____	DATE: _____
MAP No. _____	N.T.S.



- 1G GRANITE
- 52 SANDSTONE
- 54 DORION MUDSTONE
- 8b DIABASE
- Zone of outcrops
- X OFFROAD
- bedding
- FAULT
- Scarp - ledge
- SHAFT
- TRENCH
- Diamond drill hole

- Access Road
- STREAM
- Claim post
- SWAMP
- SPHALERITE
- GALENA
- ▲ Sample Location
- Sample Number

