



52H07SW0005 OP92-424 MIKINAK LAKE

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FINAL SUBMISSION
NELSON ROAD AND SPRUCE RIVER ROAD PROPERTIES
OPAP REGISTRATION NO. OP92-424

NTS 52A-10 AND 52H-6

WILLIAM HAYNE

OCTOBER 1992



52H07SW0005 OP92-424 MIKINAK LAKE

010C

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FINAL SUBMISSION
NELSON ROAD AND SPRUCE RIVER ROAD PROPERTIES
OPAP REGISTRATION NO. OP92-424

DATE: OCT. 14, 1992

NAME: SPRUCE RIVER ROAD PROJECT

INDIVIDUAL WHO APPLIED FOR ASSISTANCE FOR THIS PROJECT: WILLIAM HAYNE

LOCATION AND ACCESS:The Spruce River Road property is located along highway 527 approximately 100 km. north of Thunder Bay Ontario. The claims straddle Highway 527 at the 68 mile mark north of its junction with Trans Canada Highway 17. Two old logging roads on the property provide access to most of the claims. A road west of the highway provides access to claims near Nault Lake. A road extending east from the highway provides walking access to the south-eastern part of the property.

CHANGES TO PROPOSED PROJECT: Funds were diverted to this project after discouraging results were obtained from the Nelson Road Project.

LAND STATUS:The property consists of 25 contiguous claims wholly owned by William Hayne of Thunder Bay Ontario. The claims are shown on the Wabikon Lake claim map (G-773 Fig.4). A complete listing of the claims is as follows:

TB 1077557	TB 1082317
1077558	1082318
	1082319
	1082320
TB 1080772	1082321
1080773	1082322
1080774	1082323
1080775	1082324
1080776	1082325
1080777	1082326
TB 1081013	TB 1085079
TB 1081371	
1081372	
1081373	
1081374	
1081375	

EXPLORATION HISTORY:A brief summarization of exploration in the area and on the property is listed below:

1963:Disseminated chalcopyrite was noted in a rock cut during construction of what was to be Highway 527 by Abitibi Pulp and Paper Co.Bulldozer and trenching was carried out within a few hundred feet of the discovery.

1964:McIntyre Mines completed an IP survey over the immediate area of the showing.

1964:Fred Koosel drilled 3 holes on the southwest side of Wabikon Lake.Brecciated limestone and Sibley Sandstone were intersected.

1965:Steeprock Iron Mines carried out geological mapping,magnetic and geochemical surveys within the present property boundaries.Minor disseminated chalcopyrite was located.

1970:Phelps Dodge drilled five holes testing E.M. targets located on the northern part of the property.Altered felsic volcanic and intrusive rocks were intersected.Minor chalcopyrite was noted but no assays are reported in the drill logs.

1972:Mineral Resources International carried out ground E.M. and bulldozer trenching near Whistle Lake.Massive pyrite and pyrrhotite were exposed and one drill hole tested the zone.The sulphides were assayed for copper and gold but no economic values were encountered.

1974:Hanna Mining worked two claim groups located 1.5 km. north and 5 km. east of the present property.Ground E.M. and magnetic surveys,geological mapping and diamond drilling were carried out.Numerous E.M. anomalies were located within interbedded felsic to mafic volcanic units.A total of nine drill holes tested E.M. targets on the two claim groups.Minor chalcopyrite and sphalerite was noted in the drill logs but no assays are given.

1975:Phelps Dodge drilled four holes in a felsic volcanic sequence north of the present property boundary.Sulphides were intersected in all the holes.Hole number 150-1 intersected 10.0 feet of 0.17% Zn.

1981:W. Hayne held the property and encountered significant gold values.The original showing yielded Au assays as high as 1.59 oz. per ton from grab samples.A 2.5 foot chip sample gave values of 0.21 oz. Au per ton,0.14 oz. Ag per ton and 0.44% Cu.

1988:Mingold Resources Inc. optioned the property from William Hayne.VLF E.M.,magnetic,geochemical surveys,geological mapping and diamond drilling (6 holes,592 m.) were carried out. Three drill holes tested narrow gold bearing shear zones exposed in rock cuts located along Highway 527.The best intersection was 919 ppb Au/0.25 m.Two drill holes tested VLF E.M. targets but no significant mineralization was encountered.

1988-92:Cumberland Resources staked large blocks of claims north of and adjacent to the property. An airborne E.M. survey was flown and the claims are presently in good standing.

REGIONAL GEOLOGY:V.G. Milne of the ODM carried out reconnaissance mapping over a large area north and west of the Hayne property (G.R. No.25,1964). Milne located the Garden Lake and Heaven Lake volcanic belts in a region predominantly underlain by Archean dioritic-granitic gneisses and Proterozoic diabase. Sage of the O.G.S. remapped a large part of the area including the Hayne property (Map P.963). Exposed volcanic rocks in the property area, he concluded, are folded remnants of the Heaven Lake Belt. Sage outlined an east-west trending unit of felsic tuffs and agglomerates north of the claim group. Massive quartz porphyry and massive or pillowed mafic volcanics are exposed on the property south of this succession. Outliers of Keeweenaw Diabase locally overlie the Archean rocks. Most of the Archean rocks are masked by this diabase east of the property.

PROPERTY GEOLOGY:Mafic flows intruded by irregular quartz feldspar dykes are the dominant rock types underlying the property. A Proterozoic diabase sill overlies the Archean rocks near the intersection of the north and west property boundaries. Two north trending diabase dykes are exposed near the north and south property boundaries.

Nelson (1990) describes the lithological units as follows: "The fine to medium grained mafic flows are predominantly massive to locally pillowed. One exposure exhibiting a variolitic texture was observed on the east side of the highway just north of the Highway Showing. It contains 10% 5 mm to 3 cm scale variolites set in a fine grained mafic matrix. Some volcanics in the northern parts of the property appear intermediate to felsic and exhibit a banded (tuffaceous?) appearance. The massive medium grained to coarse grained, creamy beige quartz feldspar porphyry contains 40% anhedral feldspar phenocrysts up to 2 cm in diameter and 40% pale blue 2 mm to 1 cm scale quartz eyes set in a fine grained siliceous groundmass. The diabase is massive, medium to coarse grained and weakly magnetic with a distinctive brown weathering rind.

Local shearing related to volcanic-porphyry contacts trends 060 to 090 degrees and dips 60 to 70 degrees to the north. Quartz veining is minor, erratic and quite narrow. Except for local minor fine grained incipient pyrite within the volcanic flows and quartz feldspar porphyry, sulphide mineralization appears restricted to gossanous shear zones along the highway road cut."

WORK DONE:Work on the property included extensive prospecting of the property between June and October 1992. A total of 37 grab samples were obtained for assaying (Appendix). The locations of the samples are shown on the attached map (Map 5). Manual trenching using grubhoe and pick was completed in ~~three~~ ^{TWO} locations on the property as shown in Figure 6.

N.B.: I started a 3rd trench, but discontinued because of the vein being so narrow. (Map 5)

CONCLUSIONS, RESULTS AND RECOMMENDATIONS :Economic mineralization is associated with local shear zones predominantly within massive mafic flows. The shear zones contain up to 50% pyrrhotite and chalcopyrite with lesser amounts of pyrite. The highest gold assays occur when chalcopyrite is the predominant sulphide. Alteration minerals such as chlorite and biotite almost totally replace other silicate minerals where shearing is intense and sulphide content is high. Near the main showing shearing trends 060 to 095 degrees azimuth and dips at shallow angles of 045 to 065 degrees to the north. To date significant assays in gold, copper and silver have been obtained from grab samples taken from rock exposed by manual trenching done by the owner of the property. (see Table No.1)

The next phase of work should include a short drill program to test the main showing at a vertical depth of approximately 50 feet. Two holes are recommended (50 foot separation) to test for continuity of mineralization along strike.

DAILY LOG: A daily summary of work completed on the project is included in the application. Photocopies of the field daily journal are also included in the appendix of this report.

LIST OF EXPENDITURES: Expenditures are itemized on the final submission form.

TABLE 1

GRAB SAMPLE ASSAYS

SAMPLE NO.	ZN(ppm)	AU(ppb)	CU(ppm)	AG(ppm)	HG(ppm)
173101	NA	315	NA	13.6	NA
173102	NA	25	NA	NA	NA
173103	NA	18110	NA	12.0	NA
173104	NA	NA	4656	7.2	NA
173105	NA	1384	NA	NA	NA
173106	NA	56	NA	4.0	NA
173107	NA	20700	>10000	18.4	NA
173108	NA	62	NA	4.8	NA
173109	NA	250	NA	NA	NA
173110	NA	33	NA	NA	NA
173111	NA	104	NA	NA	NA
173116	NA	<5	NA	1.6	NA
173117	NA	5	NA	NA	NA
173118	NA	19	NA	NA	NA
173119	NA	16	928	2.0	NA
173120	NA	<5	NA	NA	NA
173121	NA	41	5312	5.2	NA
173122	NA	56	NA	NA	NA
173123	NA	6	NA	1.2	NA
173124	NA	NA	NA	NA	20
173125	NA	39	NA	1.2	NA
173126	NA	31	NA	NA	NA
173127	NA	7	NA	NA	NA

TABLE 1 (CONT'D)

GRAB SAMPLE ASSAYS

SAMPLE NO.	ZN (ppm)	AU (ppb)	CU (ppm)	AG (ppm)	HG (ppm)
173128	NA	<5	NA	NA	NA
173129	58	NA	NA	NA	NA
173130	NA	<5	NA	4.0	NA
173131	NA	31	NA	NA	NA
173132	NA	10990	NA	NA	NA
173133	NA	55840	NA	NA	NA
173134	NA	499	NA	NA	NA
173135	NA	98	NA	NA	NA
173136	NA	9	NA	NA	NA
173139	NA	2139	NA	NA	NA
173140	NA	1895	NA	NA 3.2	NA
173141	NA	301	NA	NA 4.8	NA
173142	NA	NA	2736	NA	NA
173143	NA	5	NA	NA	NA
NOTE: NA- Not assayed.					
173144	NA	52	NA	2	NA
173145	NA	25	NA	1	NA

REFERENCES

Milne, V.G.

1964: Ontario Department of Mines Geological Report No. 25, Garden Lake Area, accompanied by maps 2058 East Half and West Half.

Nelson, B.

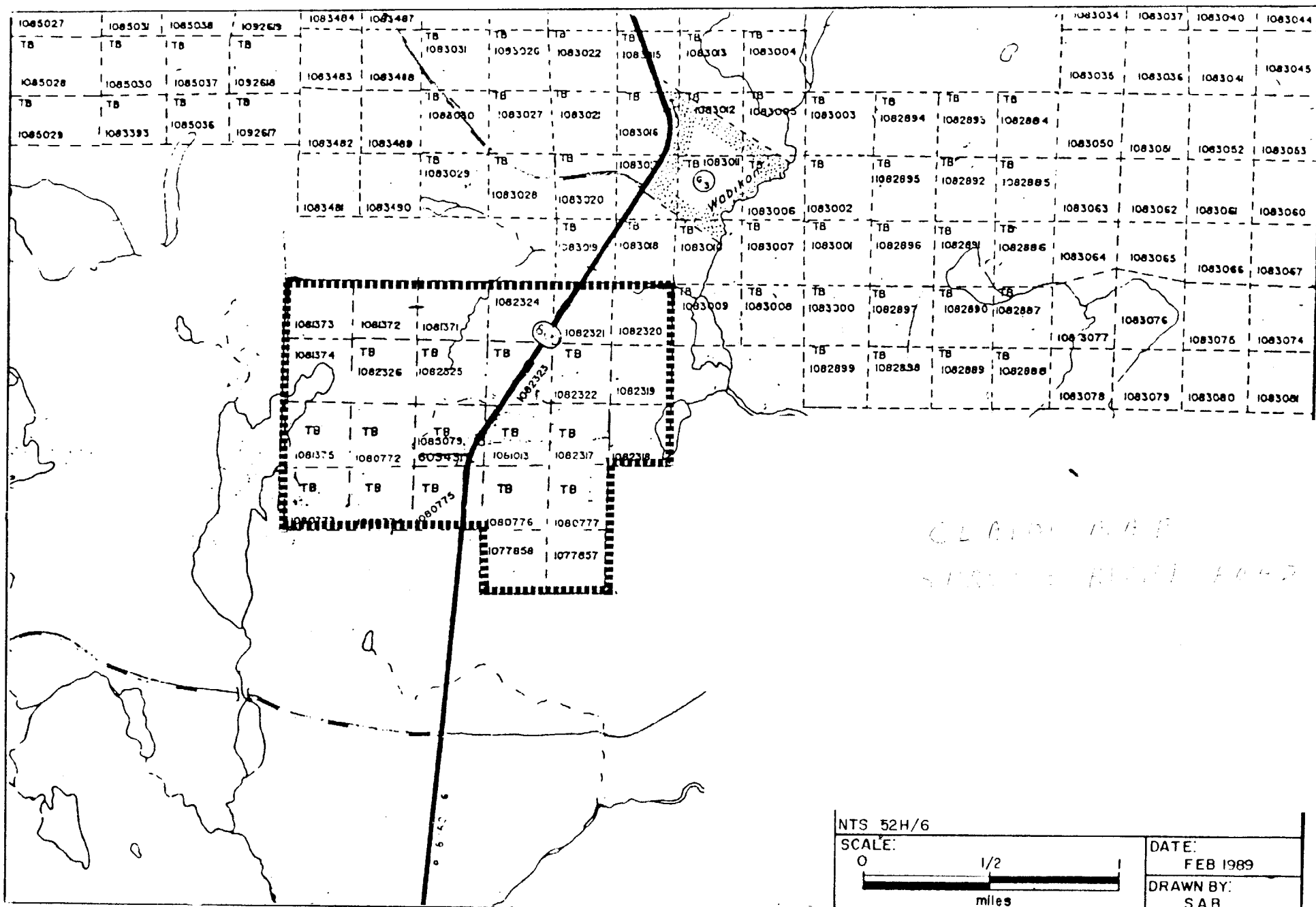
1990: Nault Property Assessment Report, 1989-90 Program, Geological Mapping, Geochemical Sampling and Diamond Drilling, Wabikon Lake Area, Thunder Bay Mining Division, NTS 52H/6; for Mingold Resources Inc.

Sage, R.P. et al

1974: Operation Ignace-Armstrong-Obonga Lake-Lac Des Isles Sheet, Dist. of Thunder Bay, Ontario Division of Mines, Preliminary Map P.963.

Scott, J.F.

1986: Precambrian Geology of Macgregor Township, East Half, District of Thunder Bay; Ontario Geological Survey Map P.2985 Geological Series-Preliminary Map, scale 1:15,840. Geology 1984, 1985.



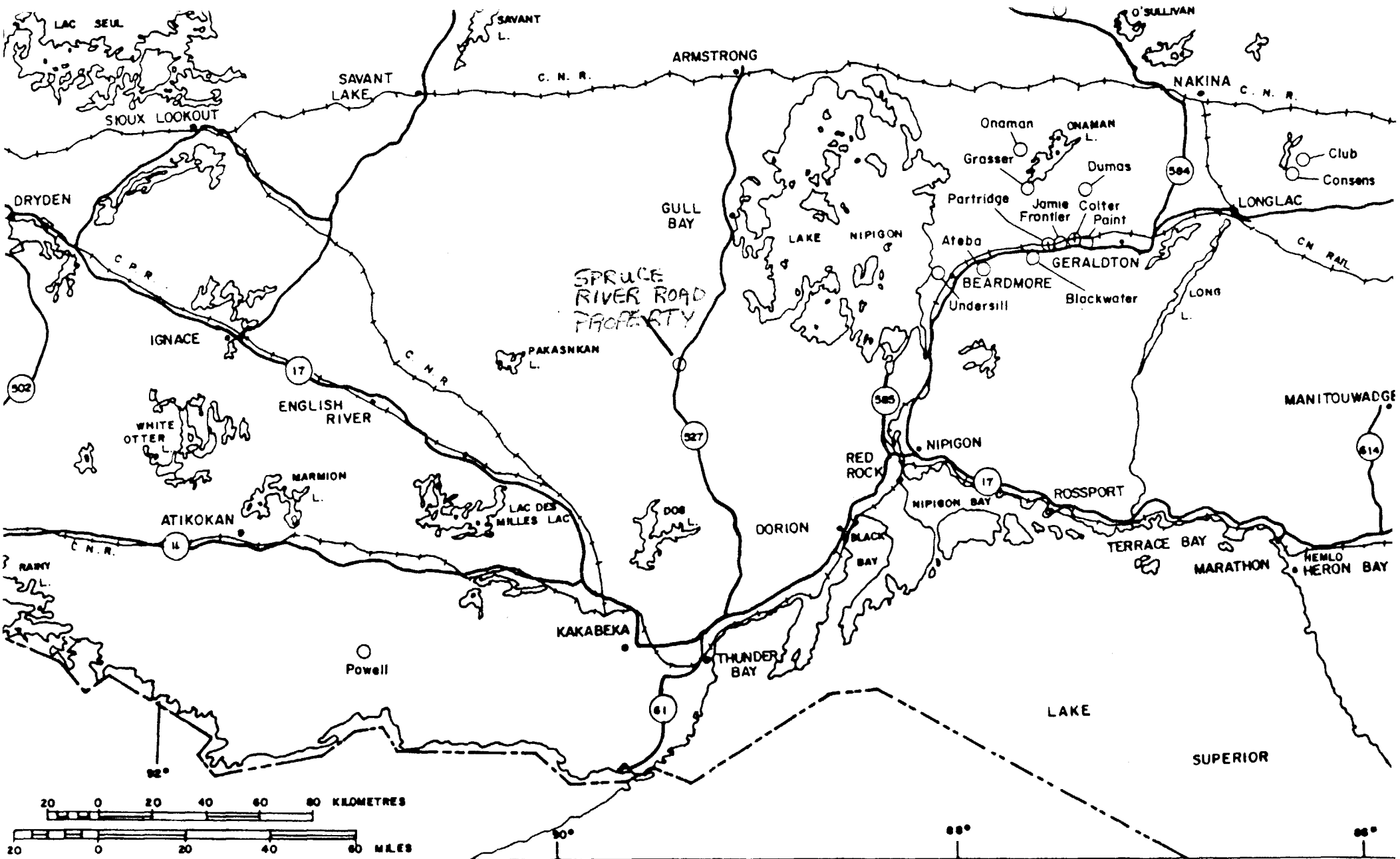


Figure 3
 LOCATION MAP
 SPRUCE RIVER ROAD
 PROPERTY



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FINAL SUBMISSION
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OPAP REGISTRATION NO. OP92-424

DATE: OCT. 14, 1992

NAME: NELSON ROAD PROJECT

INDIVIDUAL WHO APPLIED FOR ASSISTANCE FOR THIS PROJECT: WILLIAM HAYNE

LOCATION AND ACCESS: The Nelson Road Property is located along Trans Canada Highway 17 approximately 40 km. northeast of Thunder Bay, Ontario, in MacGregor Township. The property is cut by the Canadian Pacific Railway. Nelson Road and an old quarry road provide access to portions of the property.

CHANGES TO PROPOSED PROJECT: Funds were diverted to the Spruce River Road Project after discouraging results were obtained in the drill program on this property.

LAND STATUS: The property consists of one unpatented mining claim (TB 1080200) wholly owned by William Hayne of Thunder Bay. The claim is shown on the MacGregor Township claim sheet (G-672 Fig. 2)

EXPLORATION HISTORY: The area has previously been explored mainly for silver and amethyst. Scott of the Thunder Bay Resident Geologists office in 1986 reported assays of up to 1.06 oz./ton Au from two mineralized zones near Highway 11-17. A claim was staked by D. Thibault covering the two zones and subsequently optioned to Esso Minerals Canada. An additional seven claims were staked surrounding the optioned claim and geological mapping, grab sampling and soil geochemical surveys carried out.

GEOLOGY: The property is underlain by three major lithotypes: felsic to intermediate metavolcanic rocks and associated metasediments, gabbro and Proterozoic rocks (taconite and chert carbonate rocks) from the Gunflint Formation. Lamprophyre and granite dykes intrude the volcanic and sedimentary rocks near the main showing.

WORK DONE: A drill program was carried out consisting of one 118 foot hole to test the main mineralized zone at a vertical depth of approximately 60 feet. A limited amount of prospecting was carried out around the main showing prior to the drill program. A drill log, drill plan, section and assay results are included in Appendix of this report.

RESULTS AND RECOMMENDATIONS: No. 1 hole intersected intermediate volcanic flows of dacite composition intruded by feldspar phyrlic dykes. Sparsely disseminated pyrite is seen throughout the hole. A zone of buff brown sericite alteration with up to 60% carbonate and 20% pyrite was intersected from 96.0-109.0 feet. All zones of

significant sulphide mineralization were sampled for Au assay. Assay results were discouraging, the best sample yielded 0.01 oz/ton Au. No further work was recommended and the remaining portion of the grant funds was diverted to the Spruce River Road Project with approval from the Mineral Development Section of MNDM.

DAILY LOG: A daily summary of work completed on the project is included in the application.

LIST OF EXPENDITURES: Expenditures are itemized on the final submission form.

DIAMOND DRILL LOG

HOLE NO.: 1

INCLINATION: -48 DEG.

DRILLED BY: TERRAPHYSICS LTD.

BEARING: 200 DEG. AZ.

DATE STARTED: JULY 1, 1992

DEPTH: 118 FEET

DATE COMPLETED: JULY 7, 1992

LOGGED BY: PAUL NIELSEN

CORE SIZE: E 1"DIA.

CLAIM: TB1080200

LOCATION: 550 FEET SOUTH, 200FT EAST OF NO. 4 POST CLAIM
TB1080200

FROM	TO	DESCRIPTION
0.0	5.0	CASING
5.0	32.8	INTERMEDIATE FLOW (DACITE) Massive medium grained approx. 0.1 mm diameter, grey black rock with faint green tinge, in part porphyritic with feldspar phenocrysts up to 2 mm. in diameter; crosscut by numerous narrow carbonate veinlets; ubiquitous finely disseminated pyrite (1-2%) with rare pyrite veinlets.
32.8	41.0	FELDSPAR PORPHYRY DYKE Massive, homogenous with feldspar phenocrysts up to 1 mm diameter, fine grained biotite rich matrix, 1% finely disseminated pyrite.
41.0	48.5	INTERMEDIATE FLOW (DACITE) (as previously described) carbonate pyrite veins at 41.1 and 46.0 feet
48.5	57.0	FELDSPAR PORPHYRY DYKE (as from 32.8-41.0)
57.0	66.8	INTERMEDIATE FLOW (DACITE) Finer grained than previously described; carbonate veining up to 8 mm thick with

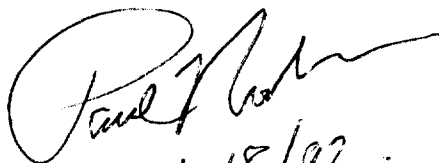
Drill log cont'd

HOLE NO.: 1

PAGE: 2

FROM	TO	DESCRIPTION
		disseminated pyrite at 30 degrees to core axis.
66.8	68.2	FELDSPAR PORPHYRY DYKE
68.2	118.0	INTERMEDIATE FLOW (DACITE) Ubiquitous fine pyrite throughout 88.3-91.0 numerous carbonate veinlets up to 2 mm. thick with finely disseminated pyrite 96.0-109.0 intense buff brown sericite alteration with 30-60 % carbonate and up to 20 % pyrite.
	118.0	END OF HOLE

NOTE:Core stored at Bill Richardson residence
in Pass Lake


Oct. 18/92

ASSAYS

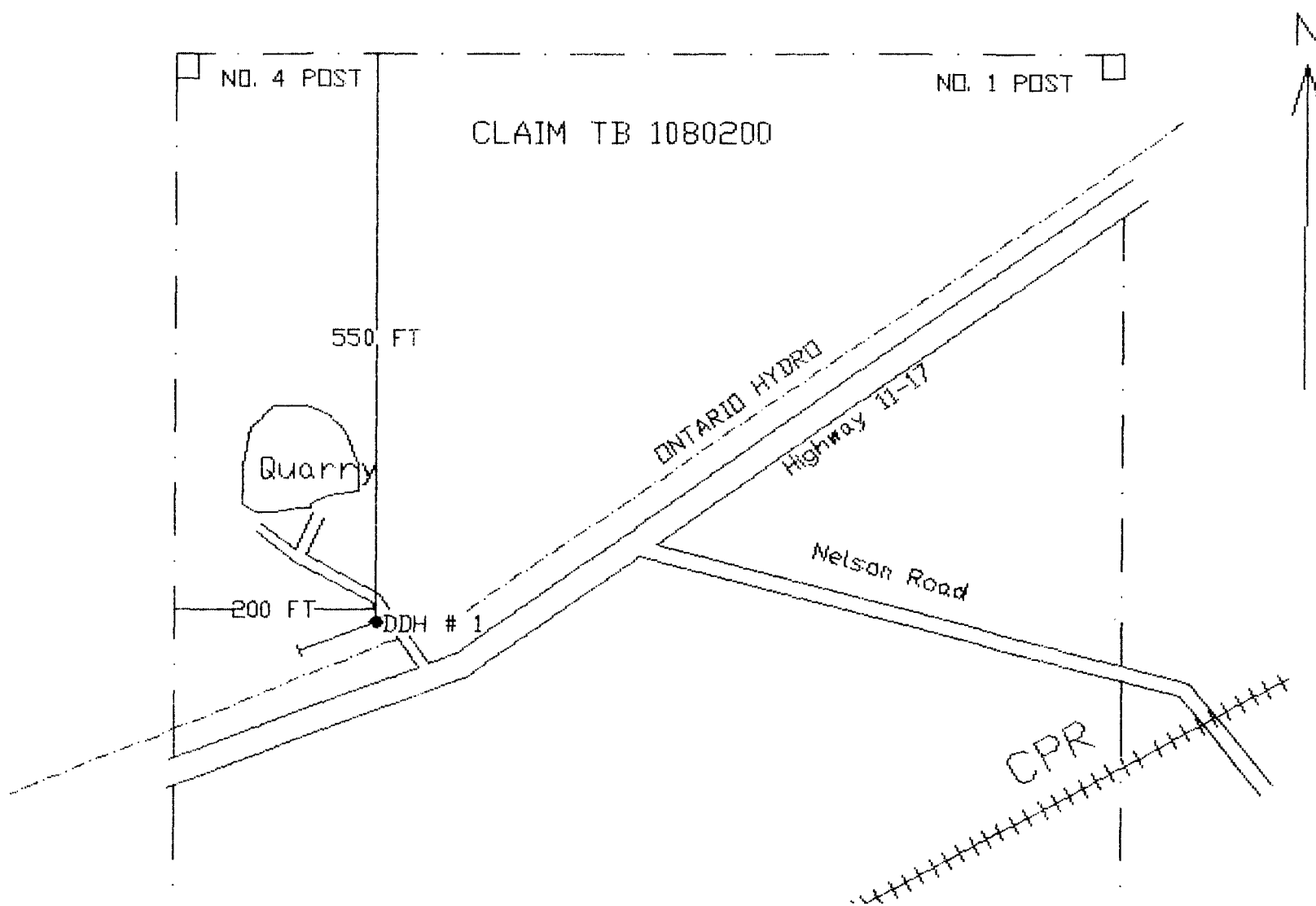
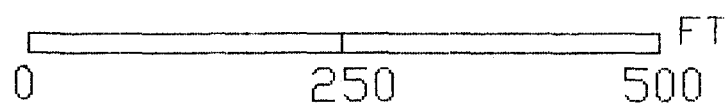
DDH NO.: 1

SAMPLE NO.	FROM	TO (FT.)	AU (PPB)	AG (PPM)
173115	33.0	38.0	<5	0.4
173114	48.5	53.5	<5	0.4
173113	53.5	57.0	<5	0.8
173112	83.3	91.0	90	2.4
96-101	96.0	101.0	532	2.4
173137	103.0	105.0	0.01 oz./t	NA
106-110	106.0	110.0	96	1.6

NA-not assayed

LOCATION MAP
DDH # 1
MACGREGOR TWP.

Scale

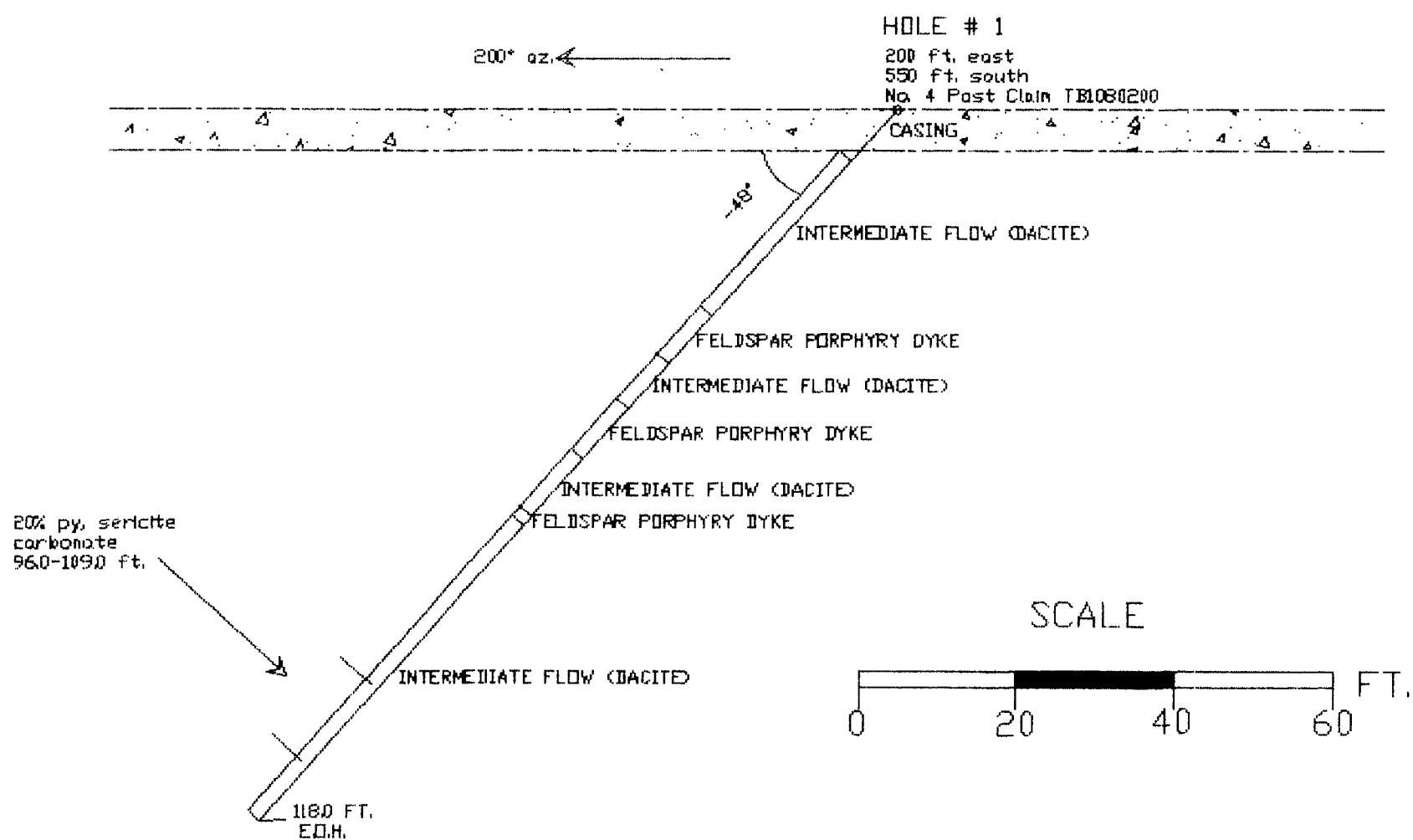


HAYNE PROPERTY-NELSON ROAD AREA

SECTION: 200 DEG. AZ.

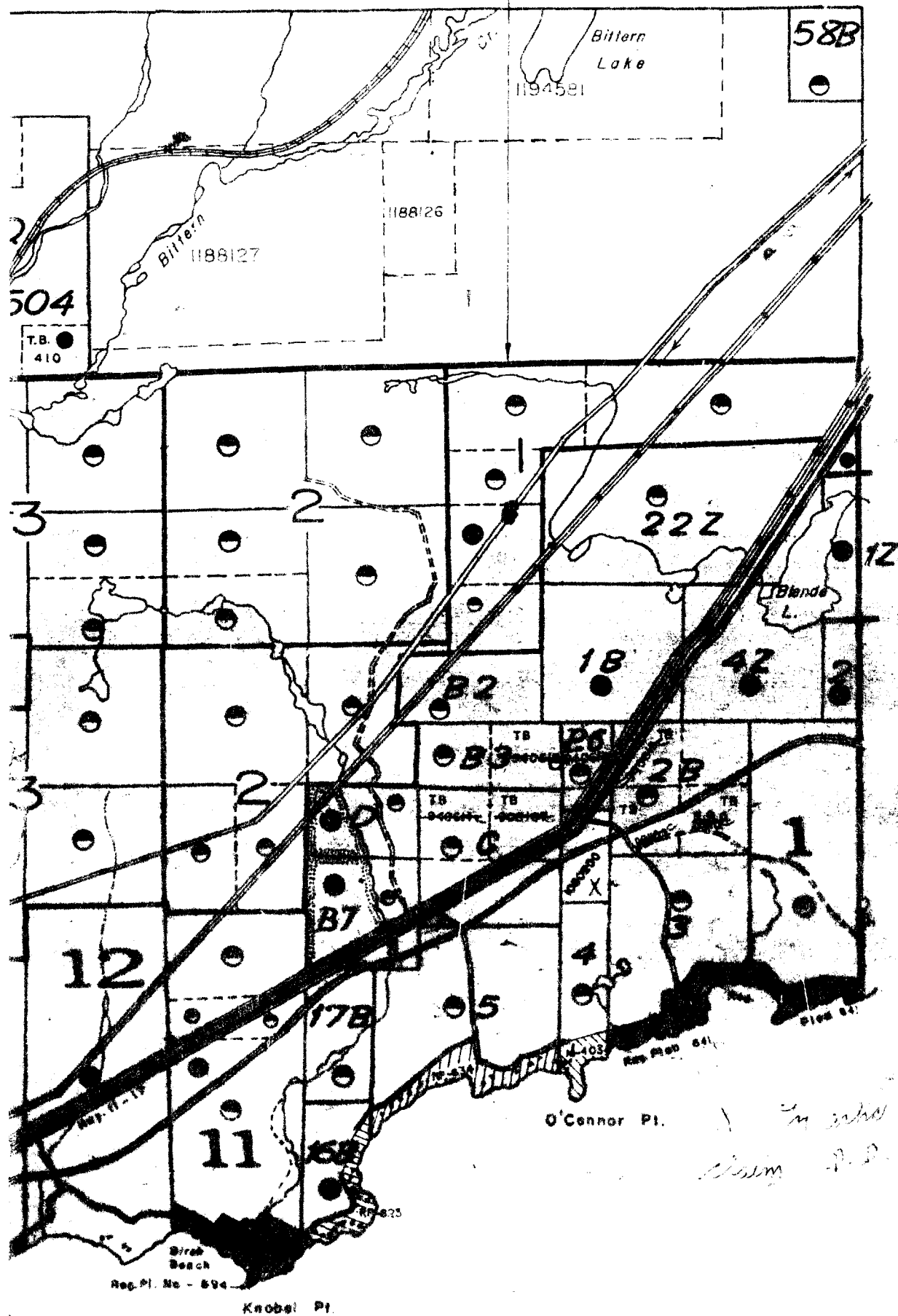
HOLE NO.: 1

CLAIM NO.: TB1080200



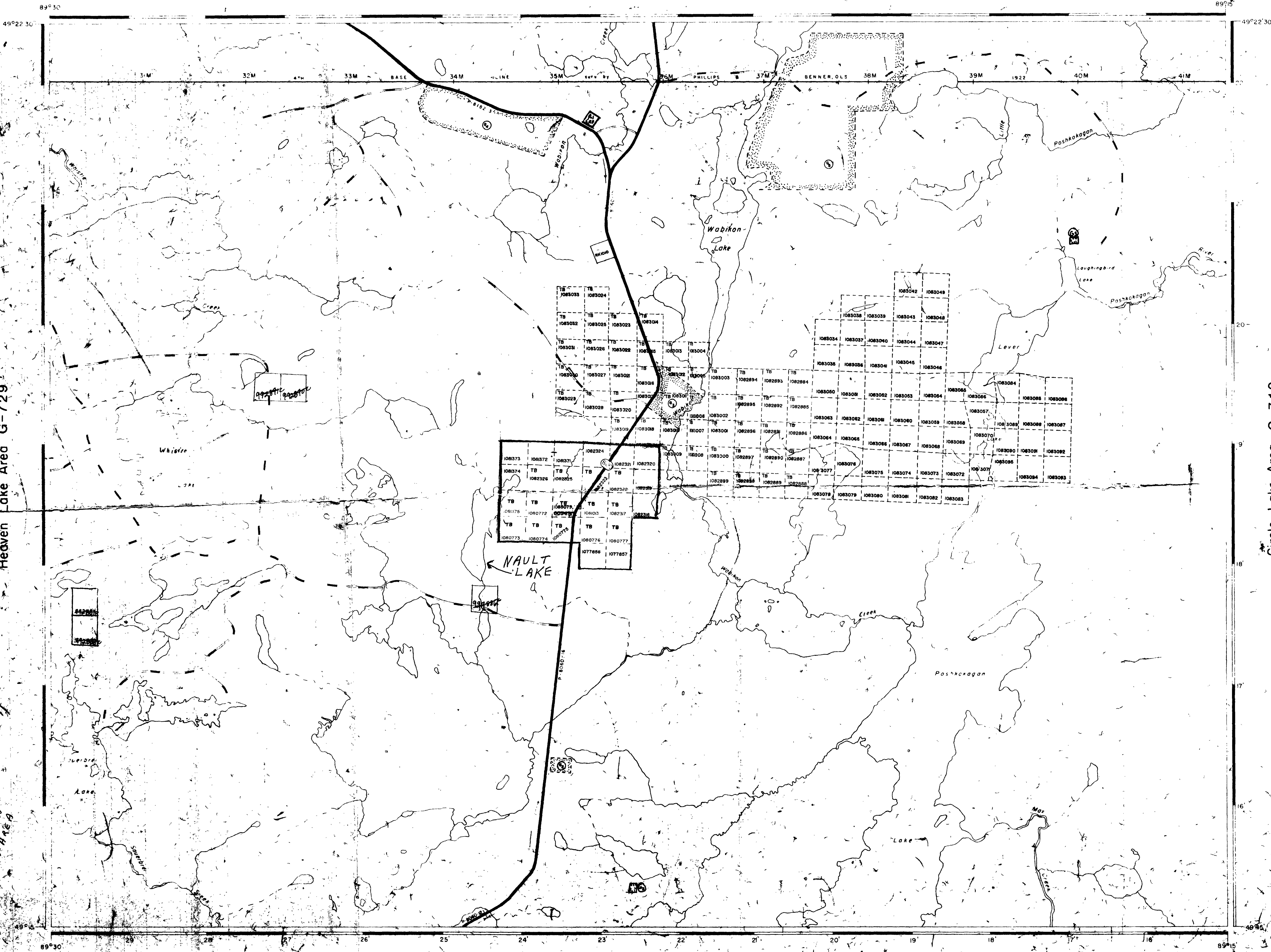
Area North of Title Line is

"NORTH OF MACGREGOR AREA, G-672"



Metavish Twp. G-675

Cheeseman Lake Area G-709



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

S.R.	SURFACE RIGHTS	M.R.	MINING RIGHTS
Description	Order No	Date	Disposition File
R1 SKO W31/86 CLR			
SAND AND GRAVEL			
⊙	M.T.C. GRAVEL PIT	No. 1035	
⊙	"	No. 1037	
⊙	"	No. 1083, FILE 15798	
⊙	"	No. 1328	

RECEIVED
THUNDER BAY
MINING DIVISION
OCT 28 . PM 10 20

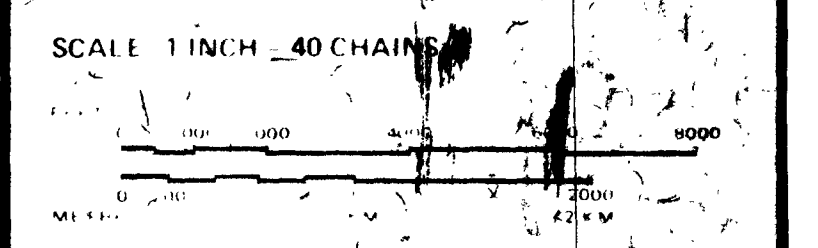
LEGEND

HIGHWAY AND OTHER ROAD	
RAILROAD	
UNDEVELOPED LAND	
PARK	
MINING RESERVE	
RAILWAY AND OTHER UTILITY LINE	
NON-RESERVED RIGHTS	
FLOODING OR OTHER RIGHTS	
SUBJECT TO RIGHTS RESERVED	
ORDER IN COUNCIL RESERVATION	
CANCELLED	
SAND & GRAVEL	
TRAVERSE MARKERS	

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	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1910 CHAP. 180 SEC. 63 SUBS. 1



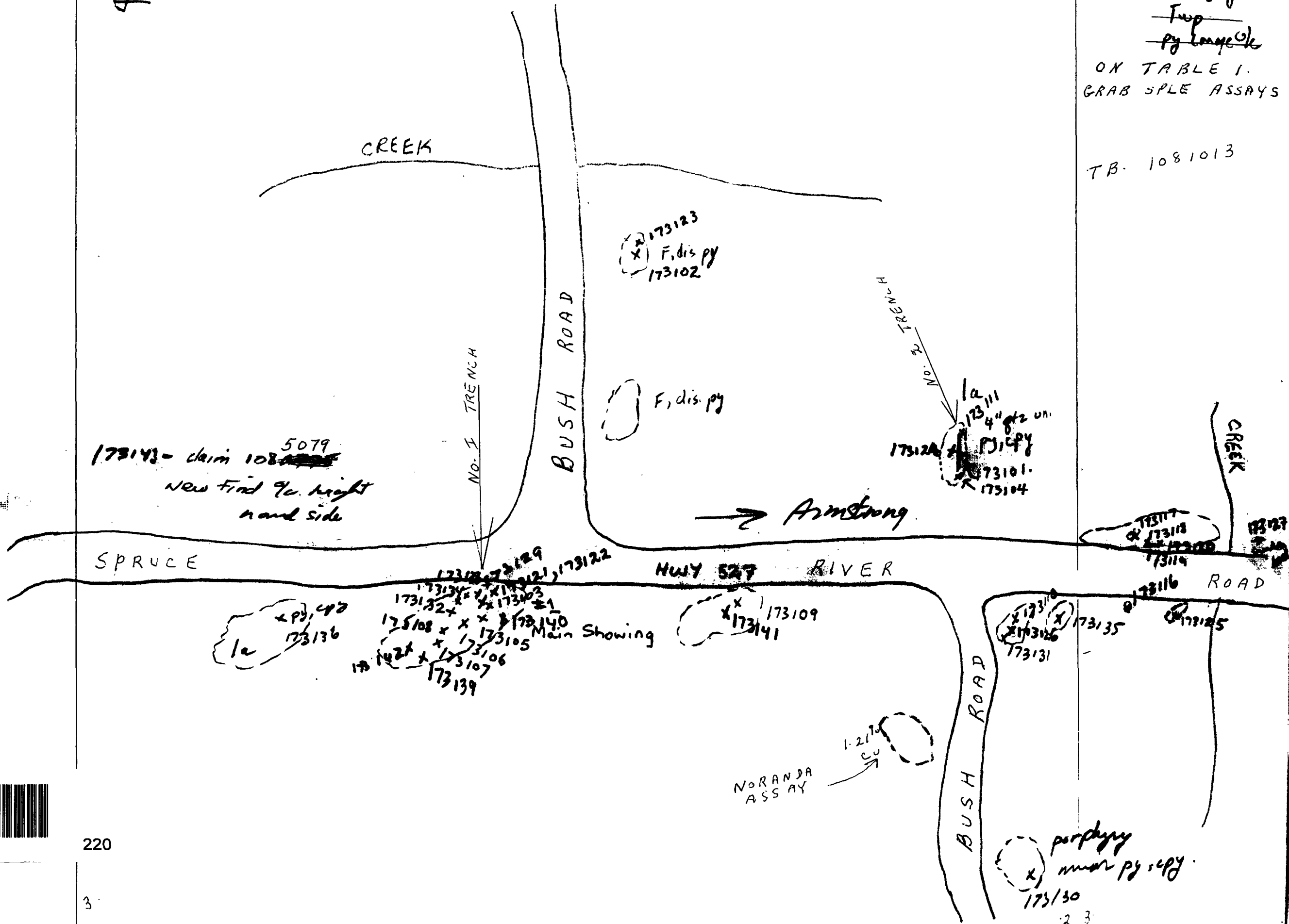
AREA
WABIKON LAKE
M.N.R. ADMINISTRATIVE DISTRICT
THUNDER BAY
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

Ministry of Natural Resources
Land Management Branch
Ontario
Date: November 1982

Number
G-773



Fig 6

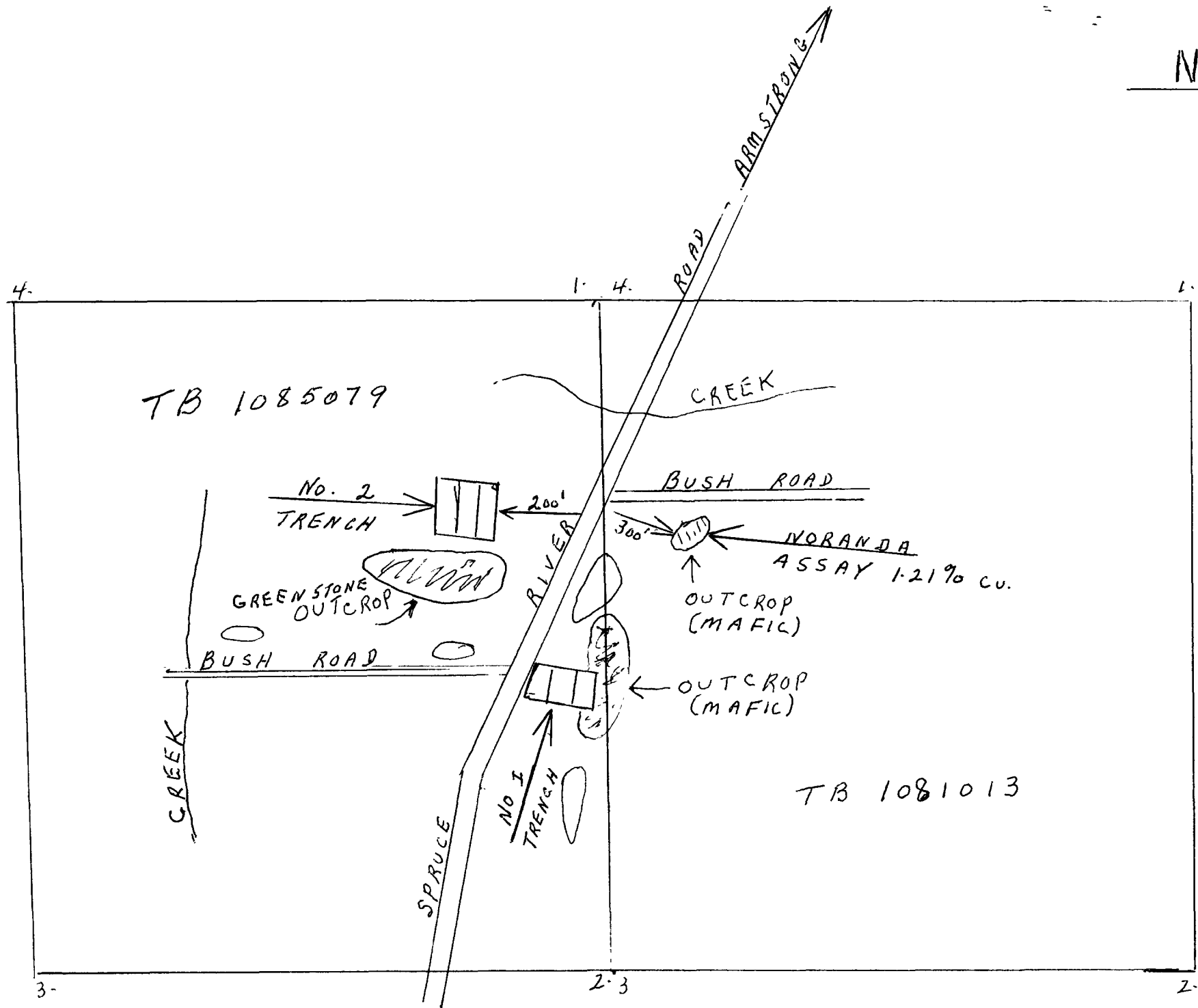


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