

Broulan Reef Cla
Lots 9 & 10 - Conces
Hoyle Township - O.



42A11SE0335 63A.382 HOYLE

Report on Examination of Surface Showings:

Quartz veins in rusty weathering schist outcropping in Lot 9, Concession 11, Hoyle Township were sampled by Broulan Reef Mines Limited in May 1957. The sampling showed gold values of interest in the quartz veins.

Claims in the vicinity of the gold-bearing veins came open for staking on April 7, 1958. Eight claims, Nos. 44696, 44697, 44698, 44699, 44700, 44701, 44707, and 44708 were staked for Broulan Reef Mines Limited. These eight claims together with the South $\frac{1}{2}$ of Lot 9 and the North $\frac{1}{2}$ of Lot 10, Concession 11 make an area of one square mile. The gold-bearing quartz veins which were sampled outcrop near the centre of this square mile block.

Surface showings of veins in claim 44700 are three miles north of the Reef shaft are 4 miles from the Broulan Reef mill. The claims are accessible from Pamour Station on the Ontario Northland Railway by means of a winter road, which trends northwesterly from the station to the claims a distance of 4 miles.

Geology:

Publication: Ontario Department of Mines, Annual Report 1939, Bigwater Lake Area by L.G. Berry; Vol. XLVIII Pt. 2 Page 9.

Map: No. 48n - Bigwater Lake Area/Rock outcropping in the southwest corner of Hoyle township and the southeast corner of Murphy Township is pillow lava, which is sheared and carbonated in places. Pillow structures strike North 70 degrees East, dip steeply south, and tops face south.

In Lots 9 and 10, Concession 11, Hoyle Township, where gold values were found the lava is well sheared and carbonated. The schistosity strikes North 70 degrees East and dips steeply south. The schist contains two sets of quartz veins, one strike^s North 10 to 20 degrees west and dips 45 to 60 degrees east and the other set strikes North 50 degrees East and dips 55 to 75 degrees south. The quartz is white to grey in color and contains less than 1% sulphides and some tourmaline in places. The schist in the walls of the quartz veins weathers rusty.

Gold values were found in Nos. 1 and 2 Trenches, where quartz veins strike northerly and dip east. The following gold values were obtained from the trenches:

Trench No. 1:

<u>Length</u>	<u>Ozs. Gold Per Ton</u>	<u>Description</u>
30 Feet (5 foot Samples)	0.12	Rusty weathering schist with quartz stringers. Less than 1% pyrite.

Trench No. 2:

<u>North Part</u>	35' X 1.9' @ 0.20 Ozs. Gold Per Ton.
<u>South Part</u>	24.5' (4 to 5 foot Samples) 0.37 Ozs. Gold Per Ton.

The 30 foot sample in No. 1 Trench and the 24.5 sample from No. 2 Trench were cut across the rusty carbonated schist in the footwall of quartz veins.

Other outcrops of quartz ranging from narrow stringers to veins 10 feet thick were found in the vicinity of Nos. 1 and 2 Trenches. These occurrences of quartz are in an area 700 feet wide and 1,000 feet long. Beyond the limits of this rocky area overburden conceals bedrock.

The major structural feature in the rocks is the shearing which strikes northeasterly and dips steeply south. The quartz veins in the sheared carbonated lava are related to fractures and possibly drag folds. This sheared carbonated lava is a gold-bearing structure as evidenced by the values obtained from the sampling of Nos. 1 and 2 Trenches. The area merits exploration which can be done most economically and effectively by diamond drilling.

Summary:

Gold-bearing quartz veins have been found in claims recently staked by Broulan Reef Mines Limited in Hoyle township. The claims are four miles north of Broulan Reef mill.

The gold values are associated with quartz veins in sheared carbonated rusty weathering schist which is altered lava. The sheared lava strikes northeasterly and dips steeply south.

Sampling shows gold values of ore grade at two trenches.

Bedrock is poorly exposed in the claims and the best way to explore for ore would be by diamond drilling.

A preliminary programme of seven diamond drill holes totaling 4,500 feet is proposed to explore the claims.

The claims owned by Broulan Reef in Hoyle township offer good possibilities of finding ore. Ore found in the claims could be trucked to and treated in Broulan Reef mill.

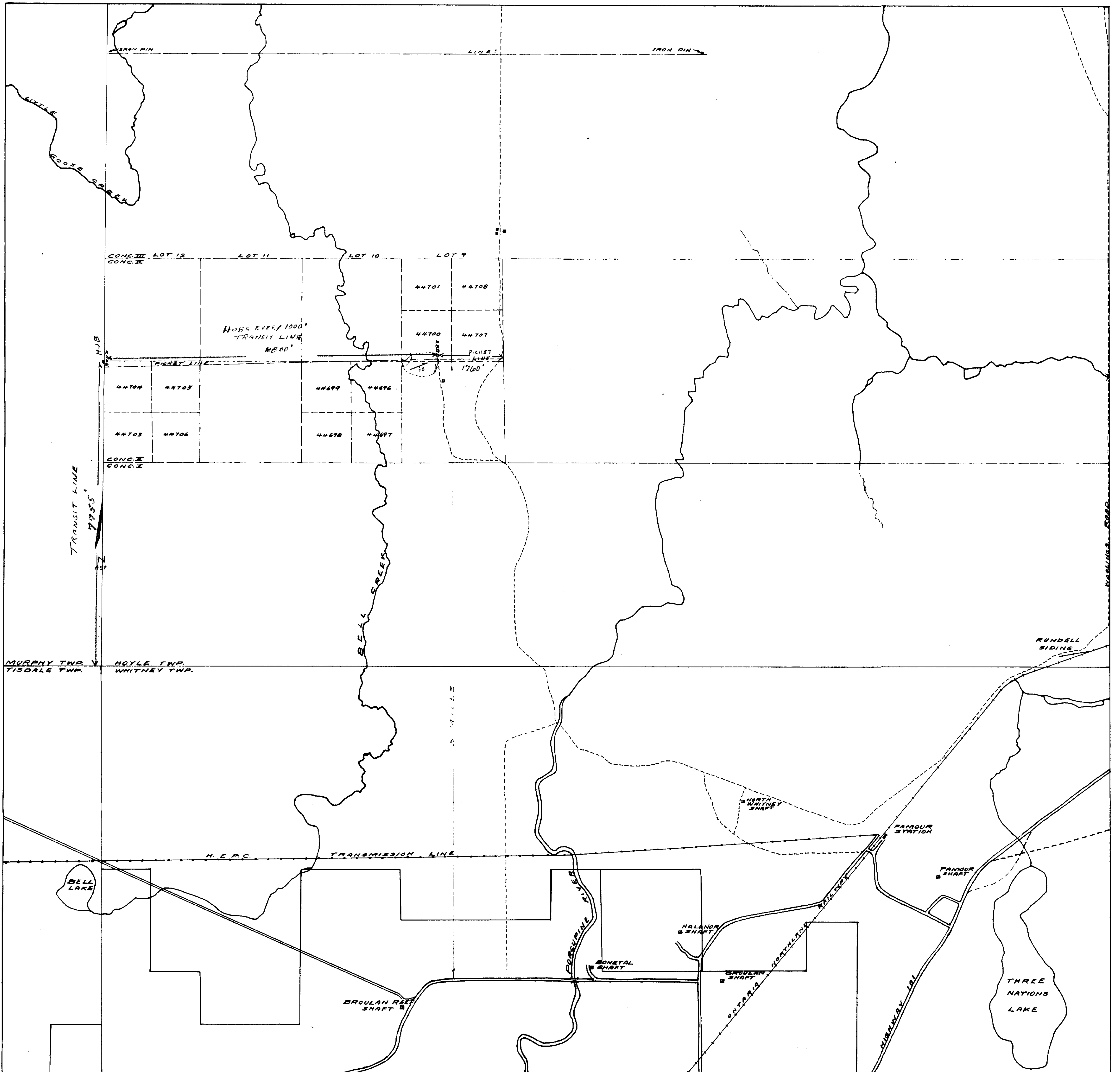
It is recommended that the proposed programme of diamond drilling be started as soon as possible.

O.L. Backman

O.L. Backman,
Pamour, Ontario,
June 14, 1958.

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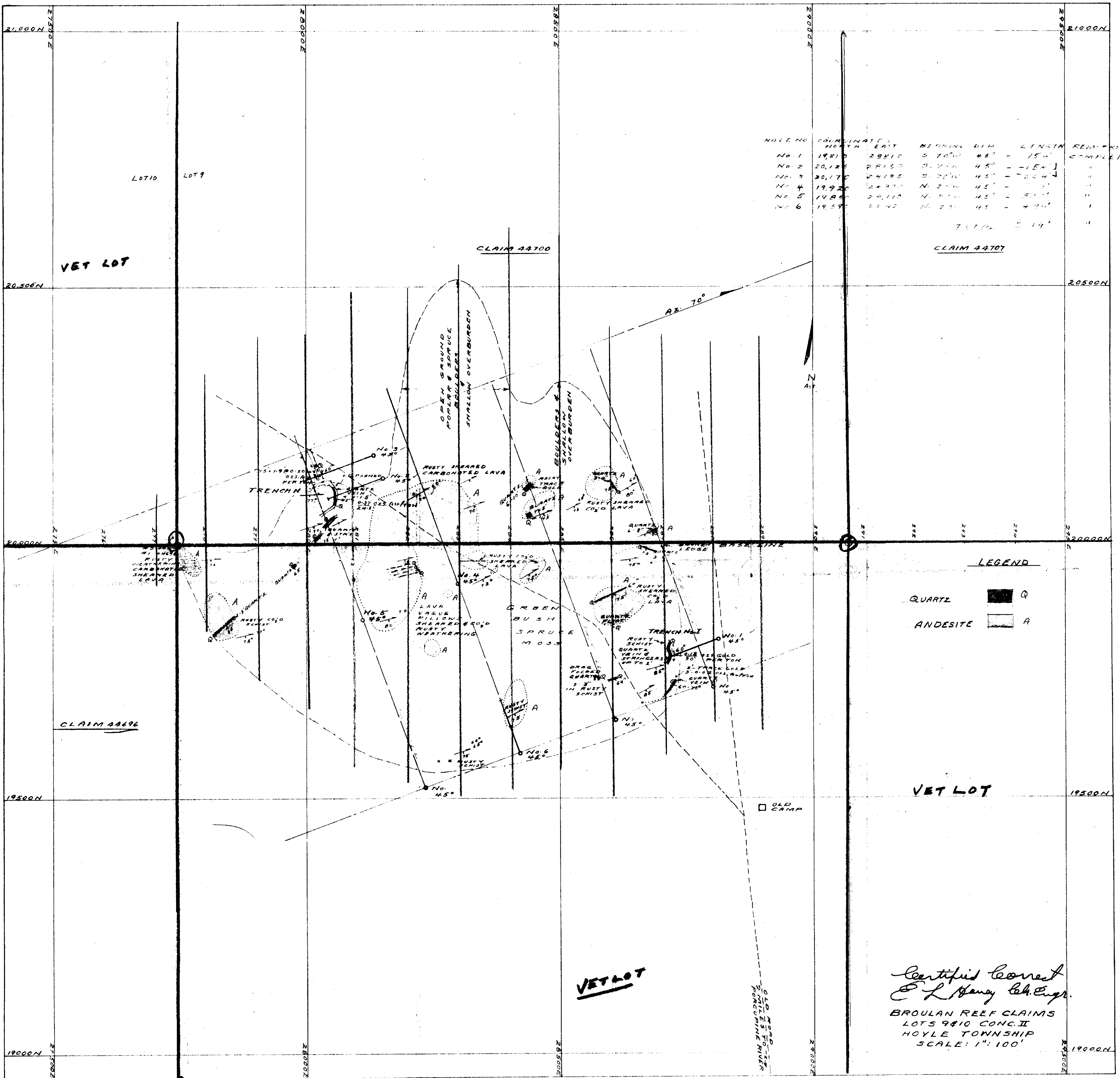


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BROULAN REEF CLAIMS
HOYLE TOWNSHIP-ONTARIO
SCALE: 1" = 20 CHAINS



Certified Correct
E. L. Hoyle Ch. Eng.
 BROULAN REEF CLAIMS
 LOTS 9410 CONC. II
 HOYLE TOWNSHIP
 SCALE: 1" = 100'

63A382

