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1976-77 Exploration Report on Permit No. 198

Parts of the area covered by Permit 198 have offered some encouragement. There is evidence of late geological sorting which could provide favourable conditions for a higher Al content.

Map. No. 3A shows a marl bed up to 3½' thick and quite clean; it could grade around 94% to 96% Ca. Although this is morine marl, which to a considerable extent is made up of calcium rich morine life, the calcium did come from calcium rich water circulating or trapped in the area. Also far above average are deposits of rewash with an iron content of 10% to possibly much higher. In addition north-west of this Permit, on Permit No. 6896120001, clay has been observed which contains 80% Si, as compared with 55% in the original, before reworking.

We conclude that considerably more work should be done on this Permit. We propose to do some deeper drilling on Section 1-2-11 and 12, Township 87-Range 24-W5; also Sections 30 and 31 T.86-23-W6.

See Maps 2A and 3A for details.

Even though we were not searching for marl under our Bauxite exploration program, we have nevertheless recorded all our findings regarding the marl on Section 31. This is on privately-owned land on which we are preparing to proceed to production, provided it is economically favourable.

The overburden on the marl being 3' to 4' has possibilities as a brick clay if and when it could be utilized. The overburden apart from the 6" of top soil contains 15% to 17% Al₂O₃, 56% to 66% SiO₂ and 3% to 7% Fe₂O₃ with low CaO and Na₂O. It fires to a good commercial color and has a fusion resistance of 2600°F.

We propose to renew this permit and proceed with a more extensive exploration program in June and July.

Nature of work under our 1976 work program was composed of prospecting and reconnaissance after which 24 holes were drilled to a depth of 6' to 10' using a two man hand drill.

Also several pits were dug to 6' and later filled and levelled to the original state.

Work on this Permit was done by:

Geo. T. Roos         Ponoka, Alberta
G. W. Lillico        Drayton Valley, Alberta
Don Moore            Peace River, Alberta
C. C. Bevan          R.R. 2, Millet, Alberta
Report on Permit No. 198 (continued)

Cost of the project was:

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<th>Item</th>
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$10,722.80

C. C. Bevan
QUARTZ MINERAL EXPLORATION PERMIT NO. 198

CANCELLED

PREVIOUSLY TRANSFERRED TO:
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DATE OF ISSUE - APRIL 14, 1975
AREA - 9,600 ACRES
NO LEASES SELECTED
QUARTZ MINERAL EXPLORATION
PERMIT NO's. 197 AND 198 SHOWN THUS
PERMIT APPLICATIONS MARKED
DRILL SITES MARKED o
PERMIT APPLS. APPROVED
NO's. 6876080003 AND 6876080004
MAP 2A

SCALE 1" = 1 MILE  C.C. BEVAN

24 HOLES DRILLED 82' 6" ON 5 GI'S SEC. 6, R 20S T 25S "25" AND "23" RETURN NO HOLE MARKED "N" AND "S" 2 HOLES "25" AND 2 TO "23" TO THE "SAND 1" HOLE NEAR CENTER IN SEC. 32 "25" 6' 6" RETURNED LOCATED ENTRANCE TO MINERALIZED ZONE 18' 2" DEEP. HOLES MARKED "25", "O" MARKED "23" TO "25" TO "20" LOW ALKALI AND NO ALLOY.

2 LAVES ON SEC. 30, R 21, "22", RETURNED NO HOLE, ALLOY THAT AVERAGED 24% ALKALI, 80% OF HOLE, 8 TO 10% FE, LOW ALKALI AND NO ALLOY.

DEEPER HOLES RECOMMENDED FOR SEC. 30 AND 31. IH.
SEC. 26-32 ARE FAVORABLE GROUND.
QUARTZ MINERAL EXPLORATION
PERMIT NO'S 197 AND 198 SHOWN THUS:

PERMIT APPLICATIONS MARKED
DRILL SITES MARKED
PERMIT APPLS. APPROVED
NO'S. 6876080003 AND 6876080004
MAP 2A

SCALE 1'' = 1 MILE
C.C. BEHAN

Proposed Exploration for 1977
Consist of drilling 20 site or more
a depth of not less than 50'
all assays are favorable. An extensive
research program will be undertaken.

Drill Sites Marked O
No's 6876080003 AND 6876080004
Map 2A
Scale 1'' = 1 Mile
C.C. Bevan

24 holes drilled to 8 to 10 on Sec. 3-4-5-6, T87 R.23
and Sec. 1-2-3-4, T88 R.23
All returned nil value minus 3
All holes returned 1 to 5' hum and 5 to 10' drill to fine
clay. All sites drained 10 to 12 ft. above surface.

12 holes drilled to 8 to 10 on Sec. 1-2-3-4, T87 R.23
Silty overburden, 3 to clay, est. 3% Al, 3% NaCl, and
4% Al, clay 12' drill. Map of Sec. 27.
Deeper holes recommended for Sec. 30 and 31.
See Map A for details of Sec 197.
Sec. 1-4-1-2 are favorable ground.

24 holes drilled to 8 to 10 on Sec. 2-3-4-5, T87 R.23
and Sec. 1-2-3-4, T88 R.23
All returned nil value minus 3
All holes returned 1 to 5' hum and 5 to 10' drill to fine
clay. All sites drained 10 to 12 ft. above surface.

12 holes drilled to 8 to 10 on Sec. 1-2-3-4, T87 R.23
Silty overburden, 3 to clay, est. 3% Al, 3% NaCl, and
4% Al, clay 12' drill. Map of Sec. 27.
Deeper holes recommended for Sec. 30 and 31.
See Map A for details of Sec. 197.
Sec. 1-4-1-2 are favorable ground.