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DEPARTMENT OF MINES SCUTH AUSTRALIA

Preliminary Report on the Victoria Hut Davidite Prospect

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PRELIMINARY PROPERT ON THE VICTORIA - NUT DAVIDITE PROSPECT.

INTRODUCTION:

prospectors on the 12th March, 1954, in an area about 3 miles northeast of the Mt. Victoria Mat. The occurrence is in small well defined mineralized somes which sample assays indicate may be of economic value.

LCGATICAL

The prospect is situated on the side of a hill approximately 2; miles northeast of Mt. Victoria Hut which is 5 miles borth of the Crocker Well drilling camp. (fig. 1) Access may be obtained via good track to within about 1 mile of the prospect. The final mile is reasonably easy cross country travel which would allow a 2 wheel drive vehicle to approach within a few hundred feet of the prospect.

ORGICAY:

Uranium mineralization is found in Archese rocks of the Kalabity Series which is a complex of elternating granites, mignatites, feldspathic schists, pegmatities and gneisses. The prospect is composed chiefly of meta-sediments and mignatites with lesser amounts of granite. Included in the mignatites are a variety of granites, pegmatities and meta-sediments that are too broken and intermixed to be conveniently mapped separately. The meta-sediments are mostly gneisses which trend east-west and have a near to vertical dip.

Davidite has been introduced to form well defined mineralized zones which have an east-west trend and dip near to verticle. The zones are composed of foliated biotite mignatite that shows signs of local shearing. The individual outcrops of these zones vary in width from 4 to 20 ft. and extend discontinually for 300 ft.

ORS MINSPALS:

Of torberoite and uranophane. The davidite is intergrown with rutile and hematite and is finely disseminated for the most

SATERIT AND GRADE OF MINERALLEATION:

The major portion of mineralized outerop is included in a rectangular block with an area of about 20,000 sq. ft. Of this eres approximately 15% is mineralized rock and the remainder is migmatite and alluvium. Samples cut at two locations gave the following radiometric assays:

U4/6707-.5% U308-/width 7 ft.; U4/6708-.44% W308-.width

4 ft. (see fig. 2)

These assays indicate that uranium of ore grade exists in the mineralised outcrops.

In addition to the above block, an outerop, of approximately 600 sq. ft. is of economic interest. Radiometric assay of sample U4/6706 (see Fig. 2) across 15 ft. of this outerop is .26% U308. There are also other small outerops of radioactive rock in the area of the map, but they are too minor to be considered at this time.

PROPOSED DELLLING PROGRAM: (see fig. 2)

To test the mineralized zones at depth and possibly find new mineralization, it is proposed to sink 2 dismond drill holes inclined 45° and directed north. VM/1 would be collared at coordinates 2503-200% and be drilled to a depth of 125 ft. This is sixed to intersect mineralization at approximately 20 ft. and 45 ft.below the surface. VM/2 would be started from coordinates 3503-350%, be drilled to a depth of 125 ft. and sixed to intersect mineralization at approximately 45 ft. below the outcrop.

Should the first two holes show encouraging results, it is recommended that two additional holes be drilled to test other mineralized somes and search for mineralization obscured at the surface. These holes should be inclined at 15° and directed south. VH/3 would start from coordinates 150s-300%, be 10° ft. in length, and sim to cut mineralization at 25 ft. below the cutcrop. VH/4 would be drilled from coordinates 150s-375%, tould be 12° ft. in length and sim to intersect mineralization at 25 ft. and 75 ft. below the surface.

Total drilling recommended is 250 ft. for initial exploration and an additional 220 ft. if the first testing gives encouraging results.

BUNNA PY:

Victoria Hut in the Grocker Well area. Sineralization occurs in well defined zones of biotite migmatite; and samples indicate ore grade (.26%-.58% U308). Outcrops of davidite mineralization are not continuous, but if all the surface exposures could be mined there could be up to 300 tons of mineralized rock per foot of depth. Thus this prospect gives indication that should uranium mineral continue in depth it might be worth mining.

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