### COMMONWEALTH OF AUSTRALIA

# DEPARTMENT OF NATIONAL DEVELOPMENT BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

**RECORDS:** 

1943/68.

WALLENDBEER TALC DEPOSITS.

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# Mineral Resources Survey Branch.

# REPORT NO. 1943/68.

### WALLENDBEEN TALC DEPOSITS.

Situation: The Wallendbeen tale workings are situated just east of the Wallendbeen township and railway station in the parish of Wallendoon, County of Harden, New South Wales. The workings, which consist of innumerable pits and shafts, are distributed along a narrow belt of country, usually not more than 200 feet wide and extending from approximately 2 miles north to i mile south of the railway. The main-workings at present are at the southern end of the field and the two producing pits were inspected. An examination was also made of a shaft at the northern end of the field.

The tale is a second-grade material, occurring both massive and schistose and should be referred to as steatite or coapstone.

Geology: The tale-bearing belt strikes approximately north and closely follows the contact of an intrusive granite mass. In places, as in the main southern workings, the granite forms the castern wall of the tale deposits. The country rock is elate and tale schiet, probably of Silurian age, and bodies of scrpentine are common. The scapstone occurs as longes dipping steeply usually to the east. Rock types immediately associated with the scapstone bodies are chlorite schiet, actinolite schiet, a grey clay schiet and scrpentine, and quartz and granite on the east wall.

distributed and are usually small, seldom greater than 15 feet by 10 feet in surface area, indicating that the lenses worked have been small bodies. A prominent feature is the association of a strong white quarts reef with the seapstone belt both at the northern and southern end of the field. In the main southern workings, quarts appears to outcrop along the western as well as the eastern side of the tale. Although solutions from the intrusive granite probably help/the alteration of the original rocks to tale, the impression was gained that subsequent movement has been largely responsible for its formation. The granite mass acted as a buttress against which shearing was induced in the schist.

Morkings:

A. Bouthern Pits: These are hold by a Mr. Dacey. One man is being employed. Two main pite, approximately 60 foet apart, are being worked. The more northerly one is the larger. It is irregular in shape with a maximum depth of 10 feet and exposes tale for a length of about 30 feet and a width of 15 feet without defining the western wall. Granite forms the east wall and a tengue of decomposed granite is seen in the tale in the southern face of the pit. A shaft immediately to the south of the pit has proved the tale for about 20 feet depth. Overburden is limited to 2 or 3 feet of soil and decomposed rock with some stained tale immediately below it, but the main mass of the tale is fairly free from iron discolouration. Fibrous actinolite is prominent in the impure talease and chloritic schist into which the tale grades laterally, especially at the northern end of the workings.

The southern pit is challow and smaller and is producing compatione and an undertermined grey clay schipt.

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The limit of the orebodies being developed by these two pits cannot be defined from the present exposures, but they are

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obviously much more extensive than the small lenses which have been previously worked.

Hining is cheap and simple. There is very little overburden and the portion of reject material in the pits is low. The tale is easily selected by eye and by its greaty "feel". Prospecting for new compatence bodies should be a fairly simple matter in this locality as the overburden is quite uniformly light. The presence of quartz seems to be a good guide.

The quartz associated with those workings forms a strong "blow" or very pure granular white quarta, some of which has been shipped to Sydney. Hr. Dacey stated that the price offered was £2/10/- per ton presumably on rails Wallendbeen, but that it was not a good proposition at this price on account of the difficulty of breaking.

B. Northern Pite. These are very numerous, erratically placed and mainly challow. A few of those inspected showed little tale and it is possible that many of them were exploratory. A Mr. Greenham has been sporadically working the northernmost area about it miles north of the railway, under a tribute arrangement with Mr. Dacey. He has mined coapstone from several shafts, selecting it from a serpentine rock, and is at present developing a new shaft. An inspection of this showed it to be about 25 feet deep. At the bottom, 5 feet of massive scapstone was exposed on the western side with a steep dip to the cast. The remainder of the chaft consisted of clays and a little grit. Overburden is the main deterrent to further development in the northern area, but neither the northern or the southern limits of the field have yet been defined.

Previous Roports: Dr. H. G. Raggatt, Nov South Wales Goological Survey, Bulletin No. 14, pp. 25 to 31.

> N.N.FISHER, Chiof Goologist.

CANBERRA, A.C.T., 9th December, 1943.

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E.UTTING, Geologist.

Specimens of the typical talc collected from both the northern and southern workings grind to an off-white colour with a faint greenish tinge.