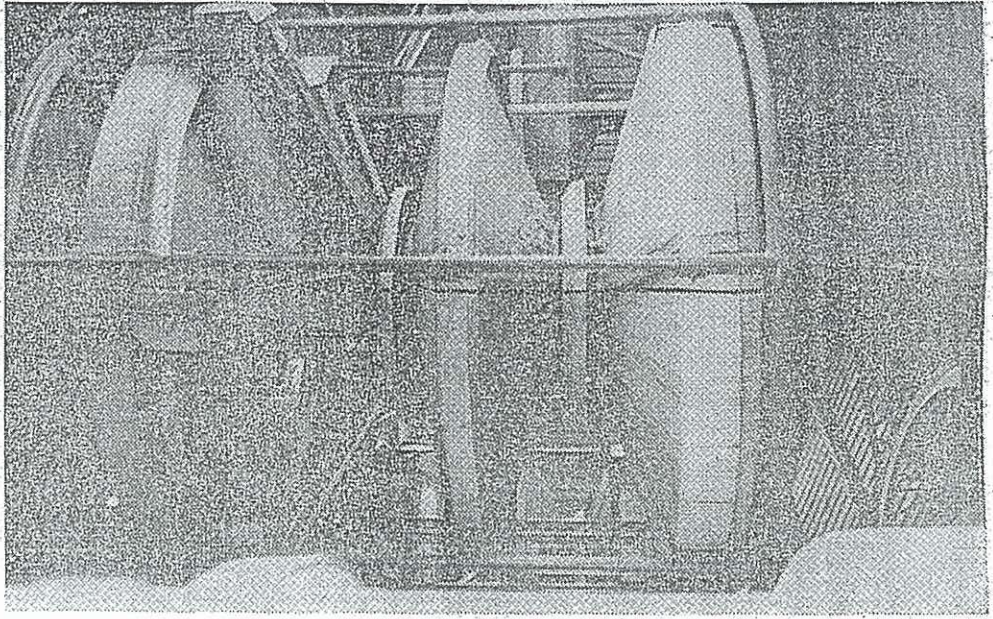


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SPACE-AGE MINERALS FROM THE MACCLEAY

CONTINUED FROM PAGE 1

is in operation. It was constructed on pontoons floated into a small man-made freshwater lake, cut into the sand near the roadside below Point Plomer.

The sand dredge, concentrating barge and tailing unit — the head, stomach and tail of the giant, wallowing in the dredge pond that has travelled with it — have already chewed through 800ft. of sandhills.

The sluggish advance masks controlled energy.

A pump of sand and water, drawn through a suction cutter plunging 8ft. into the sand at every powerful thrust, is siphoned from the sand dredge to the three-deck galvanized iron concentrating unit floating behind.

Double cone concentrators extract the heavy minerals by gravitational means and the minerals thus collected are pumped through pipes to the loading bay, near the roadway 600ft. back across the sandhills.

Tailings — the lighter minerals, sand and water — pumped to the tailing stacker, progressively fill the quarry as the floating unit moves slowly forward, rehabilitating the scarred dunes as it goes. The water filters back to the pond for re-cycling.

The next unit will soon be joined by a second now under construction and destined to begin operations three miles south of the Point Plomer installation.

Mr. N. Bishop, who is in charge of the company's beach mining operations, took

80 tons of sand an hour, it has severe production difficulties.

The pulp has to be pumped through 800ft. of pipeline to a land-based concentrating unit. With each 1000ft. advance in the dredge pond, the concentrator had to be moved accordingly.

Mr. Bishop said, analytically: "It has outlived its usefulness. Our floating units do not have anywhere near the operating time loss and production is increased as a result."

URGENCY STRESSED

The urgency of production needs overrides all other considerations.

For 24 hours a day, seven days a week, the high whine of the power-driven units rises from these deep excavations, obliterating the sound of waves exploding only a few feet away and the shrieks of hundreds of seaulls, protesting endlessly at the intrusion.

From an advancing army of poles carrying high voltage electricity down the company-made road at the back of the sandhills, arteries of black rubber snake across the dunes, carrying the power to animate these robots.

A battery of men of all skills stand round-the-clock shifts to ensure the plant is never idle.

Heavy-duty trucks pound endlessly along the 13-mile road, hauling the crude min-

removed by electromagnetic separators.

The resulting rutile-zircon mixture is passed through electromagnetic separators and the separate concentrates of the two minerals thus obtained are subjected to further electromagnetic cleaning.

The pure minerals then begin their long journey to their world markets.

Ilmenite (an impure ore of titanium), monazite, tin and other minerals extracted in the process are stockpiled for future use.

AND THE FUTURE?

In June, 1957, Mineral Deposits mined its first ton of black sand at the northern end of Back Beach and took three years to work out 200 chains of deposit.

Operations for the next three years shifted to Racecourse Headland, and ten months ago, the plant moved into the Point Plomer area. The chase seems without end.

Men who know will tell you that black sand deposits run back from the beach to the Maria River and down to the Hastings mouth.

How long, then, can Crescent Head and the Macleay expect to enjoy the security of this mineral boom?

Leases to mine the minerals behind the sea belt have long since been snatched into the protective custody of companies with an eye to the fr-

area are guaranteed for a other four years at least.

He says: "When we find here, we will move our operations elsewhere. Whether close down the dry mill be depends on the economics hauling beach sands from other leases back to Crescent Head."

He sees no likelihood of lapse in this supply source. "Our company and other large Australian companies involved in rutile mining in considerable reserves leases," he says. "Ourselves, we have let between Grafton and Newcastle, and the outlook sound."

CRICKET TEAMS

Continued from Page

- Independent cricket tea
- A grade, to play Coit
- South Kempsey: J. Shir
- J. Farwell, D. Craig, L.
- Lachlan, G. Gee, K. Mc
- I. Scott, W. Patterson
- Wilson, M. Lidster, B. Sa
- N. Hanson.
- C grade, to play Roye
- Sea Street: P. Drummond
- Lanardo, J. Fisher, D. M
- B. Chapman, I. Dunca
- Nguyen, R. Cutler, P. I
- C. Davison, K. Banner