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Page

GEOLOGICAL SURVEY

MINING BRANCH

ORAPARINNA BARYTES MINE

by

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DEPARTMENT OF MINES SOUTH AUSTRALIA

CRAPARINNA BARYTES MINE

ABSTRACT

A two day visit was made and the mine and surface workings were inspected and the future development was discussed with the manager whose estimates of tonnages are quoted.

SITUATION

The mine is situated about 10 miles NE of Graparinna ilead Station and 66 miles NNE of Hawker, County of Taunton.

PREVIOUS REPORTS

Mining	-	Mining	Review	73	p.	69,	1941	(Jorne	əliı	us) -	
		47	11	75	p.	68,	1942	(Cornelius)			
		11	11	76	p.	97.	1943	(Ħ)	
		Ħ	f#	82	pp.	121	L-127	1946	(Ma	an s fiel	ld)
		n	ş)	86	pp.	. 11:	3-114,	1947	(16)
		19	11	87	pp.	20	9-204	, 1948	(21)
		13	11	91	pp.	, 200)-201	, 1951	(Ħ)
Geology		Mining	Review	82	pp.	82-	-89, 1	1946 (i	Broi	adhurs	i)
		11	11	102	pp.	84-	-100,	1955	(G11	b son)	
		17	ŧ#	113	pp.	, 10-	-15, 1	1960 (1	Nix	on)	

Metallurgical -

Mining Review 100 pp. 103-113, 1954 (Jackson)

PRODUCTION

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This has been from broken ore in stopes and from the dumps, the total tonnage recovered from the dumps to date has been 26,000 tons. The estimate of barytes on dumps is 60,000 tons.

No. 3 level 1. lode stope has been nearly beaten out on Western end between co-ords 5100N and 5230N a distance of approximately 300' although there is still about 50' of backs at 5370N, thinning to the 25' level pillar at 5230N. The Branch lode off 13 and to the Sast of 16 has been driven on for 178' from station 305 and is being stoped.

At approximate Jo-ords J230N a rise was put up through the level pillar to No. 2 level, the timber above No. 2 level at 12 chute shot out and the broken ore in 15 stope allowed to shrink through the beaten out section of 15 stope No. 3 level where it is trucked to the plant.

DEV LOPMENT

Since the last visit the following development has been done.

<u>No. 2 Level</u> A X-cut of 12' has been put out to seek the possible new lode as recommended by Gibson but with negative results.

No. 3 Level As montioned above 178' of driving has been done on the branch lode and about a 100' length has been stoped.

The X-cut to the West has been extended a further 36°, this time the direction has been altered to about 90° from 10 lode in an endeavour to cut 1A lode on this horizon, and it is expected that another 20° of X-cutting will do this.

ORE RESERVES

Broken Gre in stopes

	1C Nth.	Dnd.	30,000	tons.	
	1 G	2,300	tons		
No. 2 level	14	10,000	tons	•	trucked 1 Vinze)
No. 3 level	10 10	6,720 15,000			

The total of dump and broken ore reserves is thus 124,000 tons but there is little chance of checking the quantities as the stopes are inaccessible above No. 2 level.

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DEVELOPMENT REQUIRED

Company policy is opposed to development and to the nen technical board no doubt the 124,000 tens estimated as broken are and in dumps seems impressive but they do not understan that some stopes will have to be used to pass the are from the undeveloped lodes above down to the adit level and that if these stopes are left empty the walls will collapse rendering such operations impossible.

Had a vigorous development policy been adopted at the inception of activities the lode pattern would have been fully known and the development and stoping properly planned on subsequent levels.

No. 1 Level

IA lode has been steped above No. 1 level up to fault D. The Manager is loth to pull any ore from this section as he realises access has to be gained to the ore beyond the fault. An examination of the outcrop shows that the lode can be driven on at a herison about 40° above No. 1 level. The drive would have to be taken through the fault and the speil tipped into the stope. No estimate of reserves can be made but it could be many thousands of tons.

No. 2 Level

1A Lode. Nothing has been done on further development on this lode, admittedly the barytes is much broken up in the face but further driving is warranted.

1B Lode. There has been no further development on this body in either direction despite numerous recommendations by the writer and geologists.

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No. 3 Level

1A lode. A strong bedy of ore has been encountered at the Northern end of the workings. This could be 1A lode but to keep the trucking grades constant it would be better to drive on this body when intersected by the westerly cross-cut.

GENERAL

As anticipated roofing bolts were not successful in holding the walls and a system of pillars and stulls is being used with a degree of success in steping above No. 3 level.

The acquisition of an electric storage battery locomotive ex Radium Hill has eased the trucking position.

CONCLUSIONS

The mine is an important producer of barytes of all grades but is sadly lacking in development. There is a possibility of immense reserves which could be proved by a few hundred feet of development. This should be done before further ore is drawn from the stopes.

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