DEPARTMENT OF MINES AND ENERGY
SOUTH AUSTRALIA

REPT.BK.NO. 88/40

EAREA DAM GOLDFIELD, HISTORICAL REVIEW AND PRODUCTION RECORDS

GELOGICAL SURVEY

by

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MINERAL RESOURCES

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DEPARTMENT OF MINES AND ENERGY
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EAREA DAM GOLDFIELD, HISTORICAL REVIEW AND PRODUCTION RECORDS

ABSTRACT

Since discovery in 1899, a recorded 1 869.63 tonnes of ore have yielded 59 237.59 grams of gold bullion, during several periods of operation. Ore has been treated at Tarcoola, Glenloth, Mt. Torrens and Peterborough State Batteries. Average grade of the ore treated was 35.33 g/t Au, with battery and cyanide treatment recovering approximately 90% of the contained gold.

INTRODUCTION

This report, part of an ongoing review of gold mining activities within the State, provides an historical outline and a brief description of the various workings and contains all known records of ore treated and gold bullion recovered by amalgamation and cyanidation from the mines on this field.

Historical details were obtained from newspapers of the day, and reports in Mining Reviews. Workings have been described from the latest available information, supported by personal observations. However, some shafts have been either backfilled or deepened and workings extended. All data have been metricated.

LOCATION AND TENURE

Earea Dam Goldfield is located 38 km east south-east of Tarcoola, on section 1007, north out of Hundreds. Mineral Lease (ML) 5342 of 12.5 ha held by I.D. Heylen covers Warburton and Marjorie May workings, and is due to expire on 9 April 1993. ML 5361 of 12.5 ha held by L.F. Heylen covers some of the Perseverance and Wilgena Enterprise workings, and is due to expire on 4 June 1993.

Other workings are within Exploration Licence (EL) 1315 held by CRA Exploration Pty. Ltd., and due to expire on 9 January 1989.

HISTORICAL REVIEW

Rumours of rich occurrences of gold in the north west of South Australia date back as far as the early 1860's. John Rounsevell reported finding specimens of what he believed to be gold at a location called Quartz Hill, in the Wilgena area, in 1864, however the specimens were lost and no more was done.

During the late 1860's, Charles Swindon, owner of Saltia Station, explored the northwest taking with him 21 horses and a blackboy for company. He returned to Saltia Station after three months, with only 2 horses, 19 having died and the blackboy having been thrown from his horse and killed. In his possession was a quantity of gold, which he claimed to have dug up with his tomahawk. On his return he travelled to England to see his brother who was ill. While there he had some of the gold made into a brooch for his wife. On his return to Australia he promised to take his son Edwin to the spot where he had found gold. However illness prevented him from leaving home and he never recovered from his illness.

H.Y.L. Brown, (1894) Government Geologist, reported gold in the general area. He called the place gold locality No. 1, later to be known as Glenloth Goldfield. Brown's gold locality No. 2 was later to become Tarcoola Goldfield. These localities were pointed out to him by a group of local prospectors.

No further interest seems to have been shown in the area until June 1899, when Mr J.W. Kingsmill, a member of the Pastoral Board, made a spectacular discovery while making a tour of inspection of Wilgena Station. While driving along a road Kingsmill found a spot he considered looked likely for minerals. Stopping the horses he took a tomahawk and spent 5 minutes prospecting. During this time he found some rich gold specimens.

News of this discovery caused a flood of hopeful prospectors and opportunists to rush to Wilgena in the hopes of pegging ground worth a fortune. One of these, Charles Gunter, headed out

to the general area of Wilgena looking for marks left by Kingsmill indicating the location of his discovery. Near Earea Dam Gunter found a peg newly driven into the ground, which he assumed to be the spot and he pegged six claims.

Poyntz, the Government Surveyor, and Mathews, Inspector of Mines, returned to the locality on 14 July on an official inspection. Poyntz had been on the previous trip with Kingsmill when gold was discovered. They met Charles Gunter near Earea Dam, and he joined the party, which proceeded to Kingsmill's discovery, approximately 5.0 km from where Gunter had pegged. Gunter abandoned his claims when it was discovered that the peg he had found marked the route of a proposed new fence line. Ironically these claims covered the spot where gold was soon to be found, giving rise to Earea Dam as a goldfield.

Two prospectors, James Furze and J. Trevenna, representing the Wilgena Enterprise Syndicate, discovered gold and pegged claims in August 1899. Legend has it that once they had found gold they were afraid to start cutting pegs as this would alert the 25 other men prospecting in the immediate vicinity. One of the prospectors therefore made out that he was ill, and his mate cut timber to make him a bunk. Once enough timber was cut both men frantically pegged their ground, securing the best area. Within a short time 80 claims had been pegged, with Furze and Trevenna holding 12 of them.

Water supplies were soon the prospectors' most worrying problem. Closest supplies were from Earea Dam itself, however these were soon exhausted. Wilgena Station loaned the prospectors an 1800 litre (400 gallon) tank for drinking water and allowed horses to be watered at Gilberts well from 18 August 1899, water being carted from Wilgena station at a cost of 2d per gallon.

During November, J.W. Kingsmill put down two bores for water, using a small hand operated boring plant. Salt water was cut at 7.01 m and at 12.19 m, but was useless to the prospectors. During December a petition signed by 64 men was sent to the Government asking that condensors be sent to Earea Dam. This was approved later that month, with parts arriving late in February 1900. The condensors commenced operations in March, producing 450 litres (100 gallons) per day.

By the end of 1903 most mines had ceased operation, and the field was virtually deserted. Intermittent mining has taken place since, mostly between 1933 and 1941.

INDIVIDUAL WORKINGS

Burkitt and Friedman

Two prospectors who prospected the area for an Adelaide Syndicate in July 1899.

Crocker and Company

Pegged claims in August 1899.

Golden Eagle

During 1935 R. Schlink treated a 25.4 tonne parcel of ore from this mine which yielded 126.64 grams of gold bullion by battery treatment only (5.14 g/t Au) a recovery of 61.6% (Fig. 3). No exact location is known, probably it was one of the already existing sets of workings.

Henderson Prospecting Syndicate

This syndicate operated from September 1899 until ?March 1900, on 4 claims.

Claim A, 2.43 ha, located approximately 215 metres south west of the Enterprise had two shafts sunk to 3.05 m and 3.55 m, 6.1 m apart, after "floaters" of quartz and ironstone were picked up on the surface.

Claim B, 30.48 m x 182.88 m (100' x 600') a reef claim approximately 275 m south of Enterprise.

Claim C, 6.07 ha, approximately 305 m south of Enterprise.

Claim D, 8.09 ha, approximately 183 m south east of Enterprise. Alluvial gold was reportedly obtained in a creek on this claim.

Interest waned with the discovery of tin at South Lake and J.P. Henderson going tin prospecting.

Hindmarsh

No information excepting that an exemption of labour conditions was obtained from February to April 1900.

Kingsmills Discovery

Specimens were of quartz and yellow ochre containing gold which appear to have been "floaters" in a calcrete capping were located 4.2 km west of Earea Dam.

Land of Ophir Syndicate

Floated July 1899 to prospect Wilgena area.

Morgan and Johnston

Prospected July-August 1899, but made no discoveries.

Majorie May

Located 460 m south west of Perseverance. Crushing returns show it was worked by T. O'Connor in 1941 and by J. Santing in 1947. 77.72 tonnes of ore yielded 825.79 grams of gold bullion (yield 10.63 g/t Au) of which 46.2% was recovered by the battery and 20.5% by cyanidation (Fig. 3).

Morgan and Johnston
: Adelaide Prospecting Syndicate

This party left Adelaide on 25 July 1899 to prospect in Warburton Ranges and Wilgena Area and returned after one month due to scarcity of horse feed and water. No gold discoveries were made and no claims pegged.

North West Prospecting Syndicate
: Nor'-West Proprietary Exploring and Prospecting Syndicate
: North-West Prospecting Association
: Nor'-West Syndicate
: North-West Prospecting Syndicate
: North-West Company
: Solomon's Party
: Moules Party

This syndicate arrived at Earea Dam on 1 August 1899. Two claims were pegged, adjoining the Enterprise and Pioneer to the north. Costeans were cut but failed to find the continuation of the Enterprise lode. A prospecting shaft was sunk 18.3 m east of the supposed course of the Enterprise lode, to cut it at 18-24 m in depth.

A Government subsidy of pound for pound was granted, to a maximum of 150 pounds sterling. Sinking was undertaken to 29.3 m, however no lode was cut. Salt water was cut at 12.8 m. Operations were halted and resources transferred to the companies ground at Tarcoola.

Perseverance

: Ajax
: Gourlay's Lease
: T.P. Gourlay's Claim
: J.W. Sutherland
: Sutherland's Syndicate
: Bails and Sutherland
: Blair, Shantridge and Sutherland
: G.C. 15469
: G.C. 15521
: G.C. 16009
: G.C. 339

Very little information has been found on this mine, although it is one of the largest on the field. H.Y.L. Brown, (1908) describes the workings as a series of shallow shafts, the deepest being 9.14 m, opening up irregular bodies of ironstone and quartz.

Newspaper reports describe two shafts 4.57 m deep and 6.1 m apart, connected by a drive on a small lode of iron and quartz. A sample from here reportedly assayed 53.73 g/t Au and 7.90 g/t Ag. Latter reports describe the mine as having shafts to 9.14 m.

Armstrong (1940) describes a shaft 22.86 m deep, a level at 12.19 m, with a stope 12.19 m long by 4.27 m high south of the northern shaft which disclosed a vein averaging 30-40 cm in width.

He also mentions a level at 36.58 m in the southern workings. No other reports have been found describing mine workings. 234.44 tonnes of ore treated yielded 5 879.34 grams of gold bullion, 54.0% by battery extraction and 32.3% by cyanidation (Fig. 3).

Pioneer

: Pioneer Syndicate
: Wilgena Pioneer Syndicate
: Wilgena Pioneer Venture
: Wilgena Pioneer Company
: Wilgena Pioneer Prospecting Company

This was one of the larger syndicates to work at Earea Dam. Capital was 2 000 pounds sterling, in 400 shares of 5 pounds each. Two blocks, totalling 12.6 hectares were held, one to the east and one to the west of the Enterprise. C. Madland was appointed manager and Crooks appointed prospector.

Most of the workings were contained within the Eastern Block with several costeans, an open cut and two shafts excavated. An open cut 7.6 m long and 4.3 m deep, was excavated on a 61 cm vein of quartz and ironstone, striking north-south and dipping east 48°. A small parcel of ore from here returned 27.39 g/t gold. Gold was patchy, as is shown by two assays taken in March 1900:

1) Ironstone - Nil,
2) Quartz - 3.16 g/t Au.

Earlier assays by James W. James, an Adelaide Assayer, gave better results - at approximately 1.0 m depth an assay returned 79.01 g/t Au. Two others, taken later but still at a shallow depth returned:

1) 50.57 g/t Au, and 4.5% Sn,
2) 55.31 g/t Au and 9.5% Sn.

Tin values suggest that both samples were selected and were not representative.

No. 3 shaft (New Shaft), located 10.7 m east of open cut, sunk to 12.2 m, where a small amount of brackish water was cut. At this depth the shaft should have cut the vein worked in open cut. However, there is no record of the vein being intersected. 12.2 m of driving was reportedly carried out, assumed to be at this depth. A "formation" was intersected in the shaft at a depth of 7.6 m and a sample of ironstone, quartz and claystone from here asayed 53.73 g/t Au and 15.80 g/t Ag.

No. 2 shaft was sunk south of No. 3. At 2.7 m a 38 cm quartz vein striking north east - south west was cut. A second vein 76 cm wide was cut at 3.7 m, also striking north east-south west and dipping east. Two assays from this shaft returned:

1) Trace Au, 2.57 g/t Ag, Trace Cu,
2) 18.90 g/t Au, 12.05 g/t Ag, Nil Cu.

No. 1 shaft was sunk to an unrecorded depth on the western block, in the southeast corner adjoining Warburton on a small irregular vein.

On 1 June 1900, the claims were sold to the Enterprise Company for 400 shares paid to 10 shillings each. Operations were then transferred to the company's ground at Tarcoola.

5.79 tonnes of ore yielded 113.03 grams of gold bullion, (yield 19.52 g/t Au) of which 51.6% was recovered by battery extraction and 18.7% by cyanidation (Fig. 3).

Pioneer East

During 1935 F.J. Ashmede crushed a parcel of 4.57 tonnes of ore from this mine at Tarcoola Government Battery, which yielded 82.05 grams of gold bullion. (yield 17.95 g/t Au).

Piper, Lord, Williams, Cowan Brothers

A party which was described as being well equipped and with provisions for 2-3 months set out to prospect Earea Dam. After several days returned to Port Augusta and it is doubtful they ever reached the field.

Port Lincoln Syndicate

: Port Lincoln Prospecting Syndicate

This syndicate held 6 claims, each 8.09 hectares (20 acres) in size, approximately 2.4 km south west of Enterprise. Work done consisted of some costeaning and the sinking of two shafts. One shaft was sunk 4.57 m and cut an ironstone leader dipping northwards. A short drive opened up this leader, an assay of which returned 72.69 g/t gold. The second shaft was sunk 9.45 m on a 38 cm lode, which reportedly assayed 142.23 g/t gold.

During September 1900, Mr Haddrick, Manager, reported finding tin.

Sanden and Scott's

: Sanders and Scott

An Adelaide Syndicate who participated in the initial rush.

Unity Syndicate

W. Johnson and party inspected an area west of Wilgena Station including Tarcoola and Earea Dam. They do not appear to have pegged any ground in the area.

Warburton

: Warburton Prospecting Syndicate

: Warburton Prospecting Syndicate Limited

This syndicate was formed in September 1899 with a capital of 1,000 pounds sterling, divided into 100 shares of 10 pounds each. Six gold claims were pegged covering approximately 3.2 hectares. Nine blocks (size unknown) were also pegged, along with 2 tin claims of 8.09 hectares each. Also held were 3 other tenements.

Gold claims were held adjoining the Enterprise and Pioneer to the south. Besides costeaning, four shafts were sunk, the deepest shaft, adjoining the east boundary of the Pioneer West, being sunk to 17.53 m in order to cut the vein worked in the Pioneer. A trace of gold was found at 7.0 m and water was cut in the bottom of the shaft. Other shafts were sunk to 4.6 m, 6.1 m and 4.6 m. Last reports were in February 1901.

Wilgena Associated Prospecting Syndicate

: Richarson and Company

A small syndicate with capital of 200 pounds sterling divided into 20 shares of 10 pounds each and Mr. Burns in charge pegged 13 claims during 1899-1900, and sank a 5.8 m deep shaft claims near Port Lincoln Syndicate's ground.

Wilgena Enterprise

: Wilgena Enterprise Syndicate
: Wilgena Enterprise Gold and Tin Mining Company
: Enterprise Gold Mining Syndicate
: Wilgena Mining and Prospecting Syndicate N.L.

Wilgena Enterprise Syndicate was floated on 20 July 1899. Capital was 150 pounds sterling in 30 shares of 5 pounds each. This was later increased to 30 shares of 10 pounds each, paid up to 6 pounds. Two ex Western Australian miners, J. Furze and J. Trevenna were appointed as prospectors. Besides their practical knowledge, Trevenna had worked as a station hand on Wilgena Station, giving him valuable local knowledge.

Claims were pegged either late July or early August. Prospecting work soon yielded results. A lode formation 61 cm wide, containing a quartz vein approximately 10 cm wide was discovered. A sample from a prospecting pit, later to become known as the Golden Hole underlie shaft, was assayed by E.W. Hawker, an Adelaide assayer, on 26 August 1899 and returned 221.97 g/t Au and 18.96 g/t Ag (table 1).

On November 1 unallotted share was sold by tender for 100 pounds and was traded later the same day for 120 pounds. On 20 November it was decided to form a company, with a capital of 4 800 pounds. This was divided into 1 920 shares of 2 pounds 10 shillings each, of which 960 shares were allocated to existing shareholders, with the other 960 shares being available for public purchase. These were all puchased by existing syndicate members. The new company was called Wilgena Enterprise Gold and Tin Mining Company, and A.E. Treloar was appointed Manager.

On 1 June 1900 the company purchased the Pioneer Company's leases for 400 shares, paid to 10 shillings. Calls were made on shares to keep the company afloat, however in May 1902 after 14 calls this was stopped as shareholders were not paying up. Ore from the company's ground at Tarcoola was crushed to supplement finances. Work ceased at Earea Dam at the end of 1903.

The main shaft, located on the west side of the hill, is known as Golden Hole Underlay Shaft, and was sunk to a depth of 60.4 m. Water was cut at 35.7 m with an inflow of 1 800 litres per day. The lode formation is ironstone, quartz and claystone, striking 350°, and dipping east at 45° from surface to 12.0 m, then 28°-30° to bottom.

Drives were opened to the north and south at 12.2 m on the change of the dip. The drive north progressed 6.4 m on a lode averaging 91 cm to 1.07 m wide. The south drive was driven 18.3 m on a lode 51-61 cm wide and a rise at the end of the drive was excavated to 10.1 m.

At the 32.0 m level a drive extended north 10.7 m and 8.7 along the drive a winze was sunk 3.4 m at which depth water was cut. Lode width reportedly varied between 46-69 cm.

Furze Shaft or Air Shaft was sunk 24.4 m east of Golden Hole underlay to a depth of 17.1 m vertically at which point it broke through to the underlay shaft at 54.5 m on the underlay. A drive to the north at the 54.9 m level continued for 13.7 m at which point it connected to the winze which was probably started in the north drive on the 32.0 m level. A drive south on the 54.9 m level was driven for 9.1 m. Two winzes, 9.1 m and 12.2 m are recorded below the 54.9 m level.

An unnamed shaft, 45.7 m north of Golden Hole, was sunk 5.5 m off lode. A costean, 40.0 m south of Golden Hole was excavated on a quartz, granite and gossan lode, 3.7 m long and 1.8 m deep. An assay from here returned 44.25 g/t Au and 189.64 g/t Ag (table 1).

An unnamed shaft south of the Golden Hole was sunk to unknown depth. A drive (?crosscut) at 5.2 m reportedly cut a 20 cm vein of quartz and iron.

A total of 1 498.60 tonnes of ore yielded 51 348.92 grams of gold bullion of which 51.8% was recovered by battery extraction and 38.7% by cyanidation (Fig. 3). Table 1 lists assay data for samples from workings of the Wilgena Enterprise mine.

Wilgena Gold Mining Company

During 1915 this company treated a total of 23.11 tonnes of ore at Glenloth and Tarcoola Batteries for a yield of 90.25 grams of gold bullion. Battery extraction was 66.9% and an additional 20.9% was extracted by cyanidation.

Wilgena Shearers Syndicate

Pegged claims in initial rush.

MISCELLANEOUS INFORMATION

Departmental tenement Plan 502, which was withdrawn on 4 November 1971, shows the name Alice May at the same location as Perseverance. No other information is recorded. Centenary is shown as being south and adjoining Wilgena Enterprise. No other information is recorded. Vivien Goldmines is shown as holding two tenements 460 m east of Perseverance. No other information is recorded.

During 1935 a syndicate held a number of claims in the vicinity of Wilgena Enterprise. They had a small portable testing plant consisting of a small rock breaker, ball mill, exhaust fan for drawing the pulverised material from the mill, and a centrifugal concentrating bowl. Although small parcels of ore were treated no mining appears to have been done and results of production are not recorded.

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1903
24/2

TABLE 1
WILGENA ENTERPRISE ASSAY DATA

DATE	LOCATION	ASSAYER	WIDTH (cm)	Au (g/t)	Ag (g/t)	SAMPLE DESCRIPTION	
26-8-1899	Golden Hole - surface	E.W. Hawker	10*	221.97	18.96		* Estimated width.
SEPT. 1899	Golden Hole - 1.0 m	G.A. Goyder	?	263.91	39.51	Fe, Qtz, + Free gold	Govt. Assayer, School of Mines.
SEPT. 1899	Golden Hole - 1.0 m	G.A. Goyder	?	NIL	NIL	Qtz, Ironstone, Pyrite	Govt. Assayer, School of Mines.
SEPT. 1899	Golden Hole - 3.7 - 4.6 m	E.W. Hawker	?	168.30	?	?	
OCT. 1899	North of Wilgena Enterprise	?	?	28.05	10.27	?	Assayed for Cu - Nil.
OCT. 1899	Wilgena Enterprise ?Golden Hole	?	?	190.95	12.91	?	Assayed for Cu - Nil.
OCT. 1899	Golden Hole - 3.4 m	G.A. Goyder	?	208.30	20.68	?	Govt. Assayer. School of Mines Sample Weighed 9.0 kg.
OCT. 1899	Golden Hole - 7.6 m	?	?	118.52	9.48	Ironstone	Sample showed no visible gold.
OCT. 1899	Golden Hole - 7.6 m	?	?	194.38	36.35	Qtz, Ironstone, claystone	Hanging Wall granite. Foot Wall diorite.
JULY 1900	Golden Hole - 32.0 m Drive North	S.A. Govt.	?	12.64	?	?	School of Mines. Several samples, Trace to 12.64 g/t.
JULY 1900	Golden Hole - 12.2 m Drive	S.A. Govt.	?	60.05	?	?	School of Mines.
JULY 1900	Golden Hole - 12.2 m Drive	S.A. Govt.	?	42.67	?	?	School of Mines.
AUG. 1901	Golden Hole - 36.6 - 39.6 m	S.A. Govt.	-	30.03	?	?	School of Mines.
AUG. 1901	Golden Hole - 50.6 m	S.A. Govt.	?	22.12	6.32	?	School of Mines.
AUG. 1901	Golden Hole - 53.3 m	S.A. Govt.	?	12.64	?	?	School of Mines.
AUG. 1901	Golden Hole - 59.7 m	S.A. Govt.	?	91.66	15.80	?	School of Mines.
AUG. 1901	Golden Hole - Ore dump from below water table (32.0 m)	S.A. Govt.	?	360.31	14.22	?	School of Mines.
JAN. 1933	Golden Hole - Drive N. at 33.5 m level at face 11.3 m from shaft	S.A. Govt.	8	45.83	?		
JAN. 1933	Golden Hole - Drive N. at 33.5 m level west side at 9.5 m	S.A. Govt.	15	22.12	?		
JAN. 1933	Golden Hole - Drive N. at 33.5 m level west side at 7.6 m	S.A. Govt.	13	22.12	?		
JAN. 1933	Golden Hole - Drive N. at 33.5 m level N. end of stope	S.A. Govt.	15	18.96	?		
JAN. 1933	Golden Hole - Drive N. at 33.5 m level N. end of stope	S.A. Govt.	20	Trace	?		Sample taken above previous sample.
JAN. 1933	Golden Hole - Drive N. at 33.5 m level N. end of stope	S.A. Govt.	36	34.77	?		Sample taken above previous sample.
JAN. 1933	Golden Hole - Drive N. at 33.5 m level top of stope	S.A. Govt.	20	Trace	?		
JAN. 1933	Golden Hole - Face of N. Drive, level about stope	S.A. Govt.	30	3.95	?		
JAN. 1933	Pit 24.4 m N. of Golden Hole	S.A. Govt.	8	6.32	?		
JAN. 1933	Pit 45.7 m S. of Golden Hole	S.A. Govt.	8	7.90	?		

TABLE 2

EAREA DAM G.F. - PRODUCTION FIGURES, GRAND TOTALS

MINE NAME	TONNAGE (TONNES)	BULLION REC. (GRAMS)	CALCULATED HEAD GRADE (G/T)	TOTAL RECOVERY (%)
GOLDEN EAGLE	25.40	126.64	8.10	63.46 (1)
MARJORIE MAY	77.72	825.79	15.92	72.85
PERSEVERANCE	234.44	5 879.34	29.06	87.11
PIONEER EAST	4.57	82.05	21.66	85.43
WILGENA ENTERPRISE	1 498.60	51 348.92	37.85 (2)	93.00 (3)
WILGENA G.M.Co.	23.11	861.82	42.47 (4)	90.25 (5)
WILGENA PIONEER	5.79	113.03	27.76	72.48 (6)
TOTAL	1 869.63	59 237.59		

AVERAGE HEAD GRADE 35.33 G/T. Does not include 50.08 t (note 1) + 4.06 t (note 4)

NOTES

(1) Battery treatment only.
(2) Does not include 50.80 tonnes at greater than 33.02 g/t Au.
(3) Includes 1 parcel where tailings were too poor to cyanide.
(4) Does not include 4.06 tonnes at greater than 20.05 g/t Au.
(5) Includes 1 parcel where tailings were too poor to cyanide.
(6) Includes 1 parcel where tailings were too poor to cyanide.

TABLE 3

INDIVIDUAL CRUSHINGS - PERSEVERANCE

NO.	BATTERY	PARCEL NO.	YEAR	TONNAGE (TONNES)	BATTERY (GRAMS)	CYANIDE (GRAMS)	TOTAL REC. (GRAMS)	HEAD GRADE (G/T)	COMMENT
1	TARCOOLA	63	1904	8.13	49.77	63.25	113.02	17.71	GOURLAY'S CLAIM
2	TARCOOLA	66	1904	11.68	60.27	57.36	117.63	12.31	GOURLAY'S CLAIM
3	TARCOOLA	90	1905	7.62	79.26	117.63	196.89	31.34	PERSEVERANCE
4	TARCOOLA	101	1905	7.62	28.78	52.50	81.28	14.16	PERSEVERANCE
5	GLENLOTH	172	1937	40.64	222.81	119.25	342.06	10.80	PERSEVERANCE
6	GLENLOTH	176	1937	27.03	845.37	537.85	1 383.22	57.55	PERSEVERANCE
7	GLENLOTH	185	1937	25.40	535.06	359.69	894.75	40.30	PERSEVERANCE
8	GLENLOTH	193	1937	50.80	964.03	524.95	1 488.98	33.45	PERSEVERANCE
9	GLENLOTH	202	1938	9.40	189.83	44.98	234.81	27.92	PERSEVERANCE
10	GLENLOTH	220	1938	8.23	197.21	79.78	276.99	37.93	PERSEVERANCE
11	GLENLOTH	229	1938	6.15	120.87	50.94	171.81	32.00	PERSEVERANCE
12	GLENLOTH	318	1941	25.65	237.72	163.64	401.36	19.29	AJAX
13	TARCOOLA	1333	1941	6.10	147.50	29.16	176.66	32.07	PERSEVERANCE
			TOTALS	234.44	3 678.36	2 200.98	5 879.34		
							AVERAGE:	29.06	

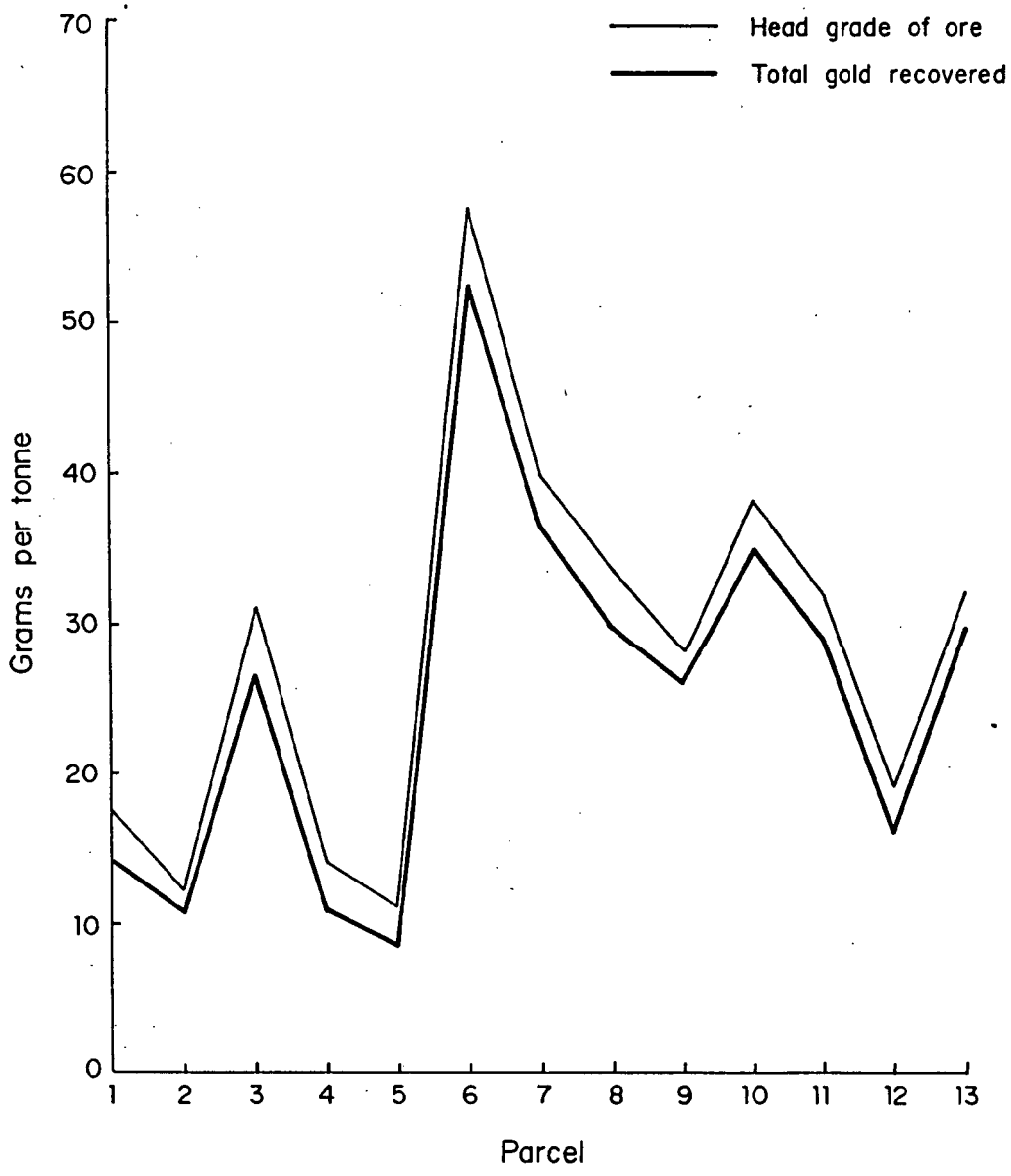


Table 4

DEPARTMENT OF MINES AND ENERGY
SOUTH AUSTRALIA

COMPILED WP Fradd | C D O | DATE

DRAWN LAW | SCALE

DATE | PLAN NUMBER

CHECKED | S20018

EAREA DAM GOLDFIELD

GOLD RECOVERED VERSUS HEAD GRADE PERSEVERANCE

4618

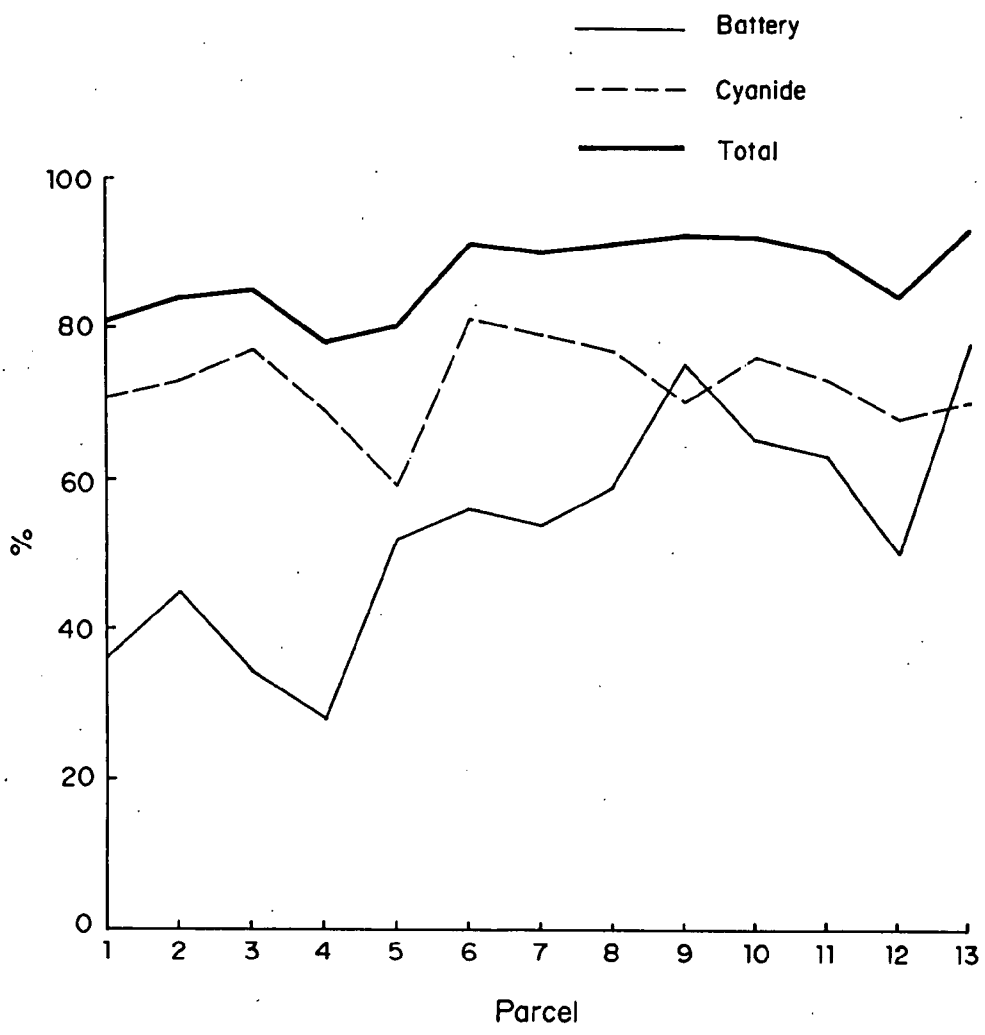


Table 5

DEPARTMENT OF MINES AND ENERGY SOUTH AUSTRALIA	COMPILED WP Fradd	C D O.	DATE
EAREA DAM GOLDFIELD	DRAWN LAW	SCALE	
RECOVERY RATES_ BATTERY, CYANIDE, TOTAL PERSEVERANCE	DATE	PLAN NUMBER S20019	
	CHECKED		

4618

TABLE 6
INDIVIDUAL CRUSHINGS - WILGENA ENTERPRISE

NO.	BATTERY	PARCEL NO.	YEAR	TONNAGE (TONNES)	BATTERY (GRAMS)	CYANIDE (GRAMS)	TOTAL REC. (GRAMS)	HEAD GRADE (G/T)	COMMENT
1	PETERBOROUGH	102	1899	1.93	169.22	71.74	240.96	129.21	ORE ABOVE 12.2 m GOLDEN HOLE.
2	PETERBOROUGH	127	1900	3.05	126.12	74.85	200.97	68.12	
3	TARCOOLA	6	1902	33.53	810.50	431.63	1 238.24	38.66	
4	TARCOOLA	16	1902	53.59	887.88	379.46	1 267.34	25.37	
5	TARCOOLA	23	1902	54.86	1 112.18	608.94	1 721.13	33.16	
6	TARCOOLA	41	1903	102.62	2 065.59	745.63	2 811.21	29.38	
7	TARCOOLA	60	1904	73.15	1 311.73	447.96	1 759.69	26.54	
8	TARCOOLA	67	1904	25.65	636.42	237.27	873.69	37.19	
9	TARCOOLA	102	1905	5.59	32.40	-	32.40	8.93	TAILINGS NOT CYANIDED.
10	TARCOOLA	827	1932	26.42	313.29	126.38	439.67	18.68	
11	TARCOOLA	847	1933	7.21	200.26	126.96	327.22	49.22	
12	TARCOOLA	923	1934	26.42	253.53	141.54	395.07	18.01	
13	TARCOOLA	1024	1935	114.81	1 102.79	1 537.91	2 640.70	26.83	
14	TARCOOLA	1062	1936	80.26	1 096.11	1 329.10	2 425.21	32.16	
15	TARCOOLA	1120	1937	107.70	1 830.72	1 504.47	3 335.19	37.80	
16	TARCOOLA	1151	1937	83.31	1 672.39	1 599.61	3 272.00	43.87	
17	TARCOOLA	1179	1938	78.74	1 875.24	2 139.66	4 014.90	55.58	
18	TARCOOLA	1199	1938	61.98	929.88	727.41	1 657.29	30.57	
19	TARCOOLA	1230	1938	84.84	2 659.75	2 164.61	4 824.36	61.46	
20	TARCOOLA	1252	1939	136.65	2 543.75	1 603.89	4 147.64	34.18	
21	TARCOOLA	1267	1939	75.18	1 827.93	1 107.84	2 935.77	42.88	
22	TARCOOLA	1277	1940	18.29	536.10	341.80	877.90	52.59	
23	TARCOOLA	1283	1940	33.53	970.58	970.97	1 941.55	62.50	
24	TARCOOLA	1293	1940	55.37	997.67	780.56	1 778.23	35.94	
25	TARCOOLA	1308	1940	42.16	1 146.99	1 309.98	2 456.97	58.66	
26	TARCOOLA	1324	1941	50.80	1 152.56	424.95	1 677.51	?	NO TAILING ASSAY.
27	TARCOOLA	1337	1941	60.96	1 142.32	913.80	2 056.12	37.56	
			TOTAL	1 498.60	29 403.88	21 945.04	51 348.92		
							Average	37.85	

NOTE: Average Head Grade does not include Parcel 26, which must be greater than 33.02 g/t.

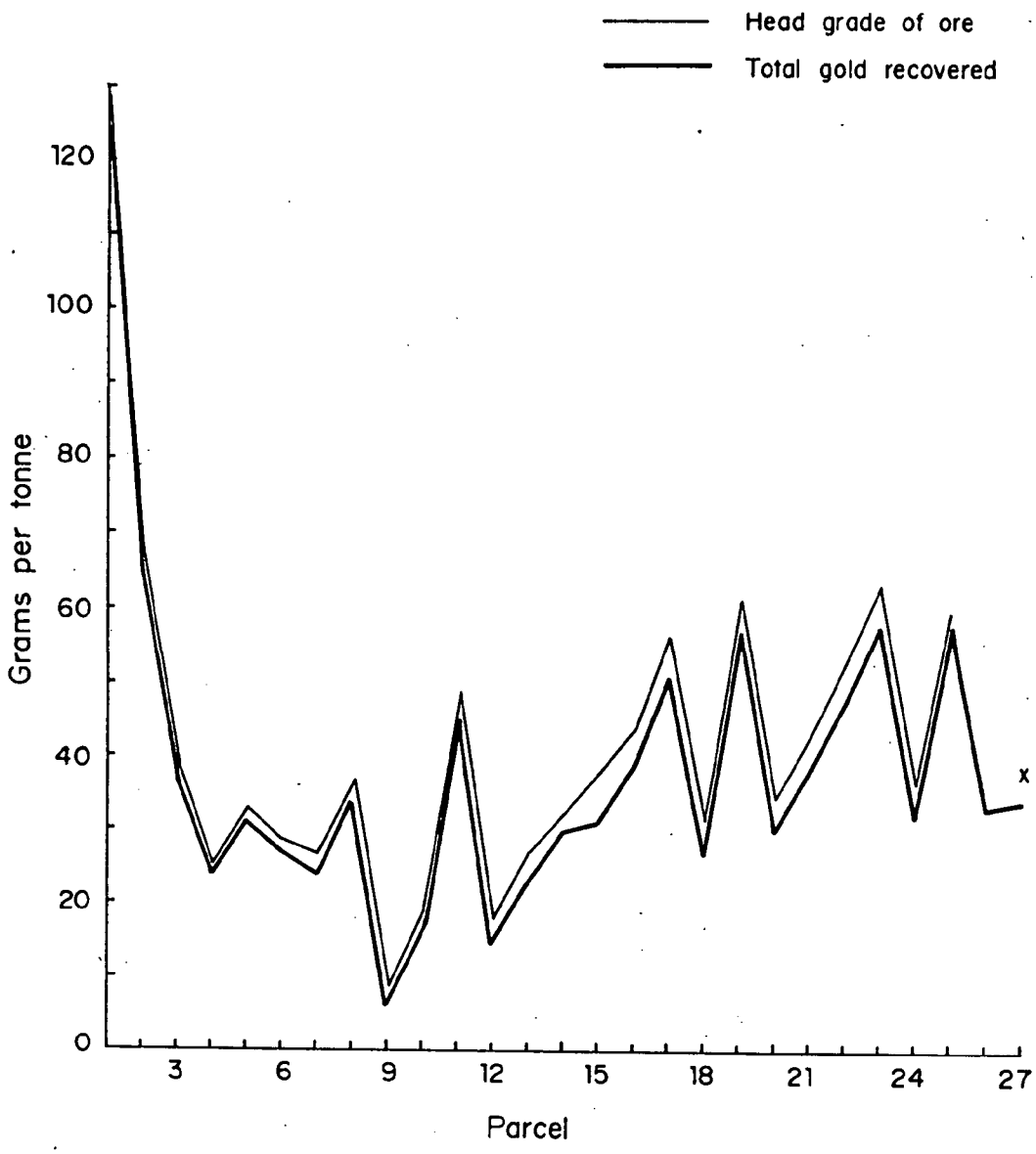


Table 7

DEPARTMENT OF MINES AND ENERGY
SOUTH AUSTRALIA

COMPILED WP Fradd | CDO DATE

DRAWN LAW | SCALE

DATE | PLAN NUMBER

CHECKED | S20020

EAREA DAM GOLDFIELD

GOLD RECOVERED VERSUS HEAD GRADE
WILGENA ENTERPRISE

96/18

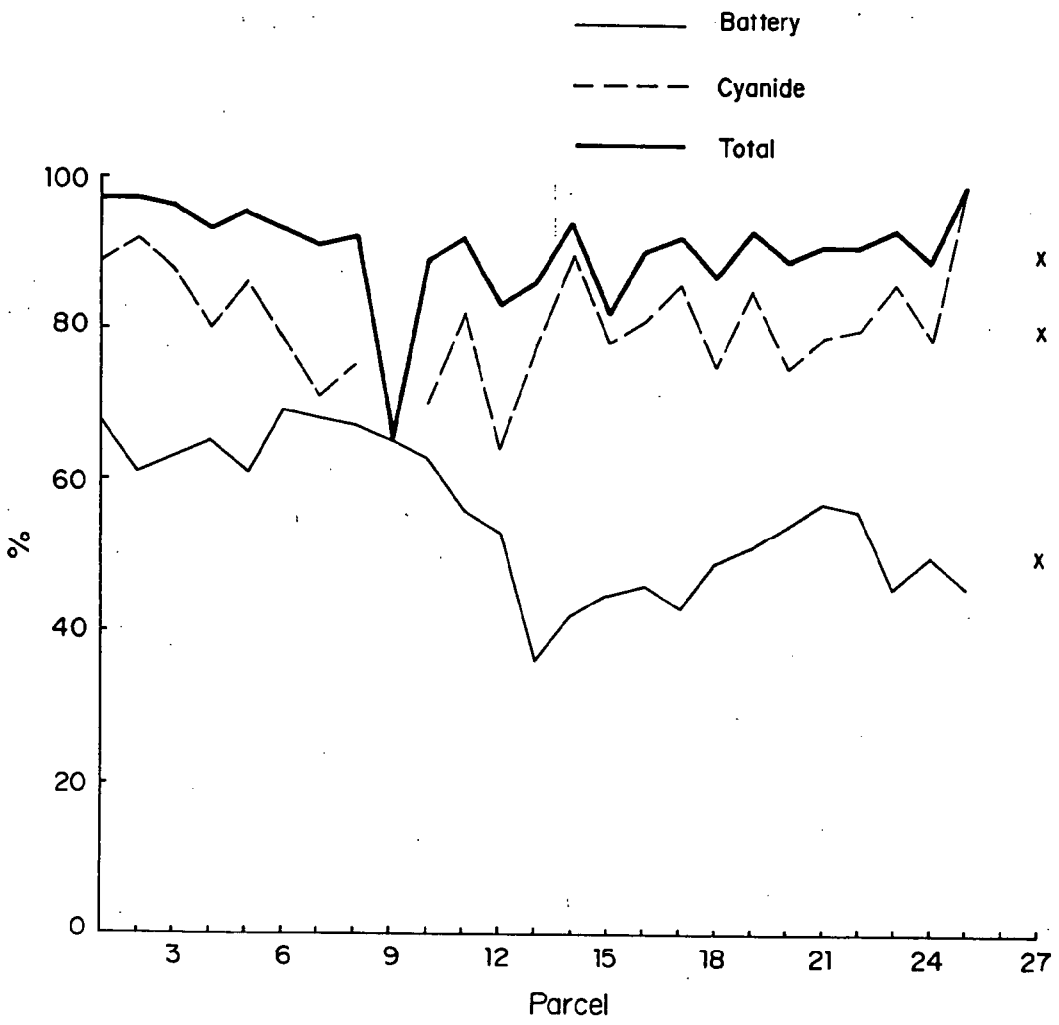


Table 8

DEPARTMENT OF MINES AND ENERGY
SOUTH AUSTRALIA

COMPILED WP Fradd	CDO DATE
DRAWN LAW	SCALE
DATE	PLAN NUMBER S20021
CHECKED	

EAREA DAM GOLDFIELD

RECOVERY RATES_ BATTERY, CYANIDE, TOTAL WILGENA ENTERPRISE

4618

APPENDIX A

DETAILS OF GOLD PRODUCTION - TARCOOLA BATTERY

APPENDIX A

Details of Gold Production - Tarcoola Battery

GOLDEN EAGLE

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
31-12-1935	1025	25 - -	4 1 10	0 1 21	63.46	- - -	- - -	-	4 1 10	- 3 6
		(25.4 tonnes)	(126.64 grams)						(126.64 grams)	(8.10 g/t)

MARJORIE MAY

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
31-12-1941	1336	25 - -	3 3 10	- 4 -	38.81	3 6 16	- 1 8	66.67	6 10 2	- 5 5
		(25.40 tonnes)	(98.64 grams)			(103.69 grams)			(202.33 grams)	(8.23 g/t)

PERSEVERANCE

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
30-6-1904	63	8 - -	1 12 -	- 7 5	35.69	2 - 16	- 2 3	70.52	3 12 16	- 9 2
30-6-1904	66	11 10 -	1 18 18	- 4 10	45.39	1 16 21	- 1 5	72.60	3 15 15	- 6 14
30-6-1905	90	7 10 -	2 10 23	- 13 1	34.25	3 15 15	- 2 23	77.30	6 6 14	- 16 21
31-12-1905	101	7 10 -	- 18 10	- 6 12	27.58	1 13 18	- 2 -	69.23	2 12 4	- 6 23
31-12-1941	1333	6 - -	4 14 20	- 4 11	78.00	- 18 18	- 1 8	70.09	5 13 14	- 18 23
	TOTAL	40 10 -	11 14 23			10 5 16			22 - 15	
		(41.15 tonnes)	(365.46 grams)			(319.90 grams)			(685.36 grams)	
	AVERAGE				44.18			71.95		- 10 21
										(16.66 g/t)

PIONEER EAST

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
31-12-1935	1015	4 10 -	1 17 -	- 5 12	59.92	- 15 18	- 2 -	63.64	2 12 18	- 11 17
		(4.57 tonnes)	(57.55 grams)			(24.50 grams)			(82.05 grams)	(18.50 g/t)

WILGENA GOLD MINING COMPANY

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
30-6-1915	258	5 - -	4 17 4	- 8 18	68.95	1 13 18	- 2 -	77.14	6 10 22	1 6 4
31-12-1915	275	13 15 -	14 8 8	- 8 -	72.38	4 2 12	- 2 -	75.00	18 10 20	1 2 23
	TOTAL	18 15 -	19 5 12			5 16 6			25 1 18	
		(19.05 tonnes)	(599.61 grams)			(180.82 grams)			(780.43 grams)	
	AVERAGE				70.67			76.07		1 6 18
										(40.97 g/t)

WILGENA ENTERPRISE

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS	CWT	QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ	DWT	GR	TAILING ASSAY OZ	DWT	GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ	DWT	GR	TAILING ASSAY OZ	DWT	GR	% RECOVERY	TOTAL BULLION RECOVERED OZ	DWT	GR	YIELD PER TON OZ	DWT	GR
30-6-1902	6	33	-	-	26	1	2	-	9	13	62.52	13	15	-	-	1	3	88.13	39	16	2	1	4	5
30-6-1902	16	52	15	-	28	10	20	-	5	18	65.30	12	3	23	-	1	3	80.43	40	14	19	-	15	1
31-12-1902	23	54	-	-	35	15	1	-	8	10	61.14	19	11	12	-	1	4	86.14	55	6	13	1	-	12
30-6-1903	41	101	-	-	66	8	-	-	6	1	68.52	23	19	9	-	1	7	78.56	90	7	9	-	17	22
30-6-1904	60	72	-	-	42	3	8	-	5	15	67.56	14	8	-	-	1	15	71.11	56	11	8	-	15	17
30-6-1904	67	25	5	-	20	9	4	-	8	2	66.72	7	12	13	-	2	1	91.59	28	1	17	1	2	6
31-12-1905	102	5	10	-	1	-	20	-	2	1	64.94	-	-	-	-	-	-	-	1	-	20	-	3	19
31-12-1932	827	26	-	-	10	1	10	-	4	11	63.47	4	1	6	-	1	8	70.09	14	2	16	-	10	21
30-6-1933	847	7	2	-	6	8	18	-	14	-	56.43	4	1	15	-	2	12	82.10	10	10	9	1	9	15
30-6-1934	923	26	-	-	8	3	-	-	5	12	53.27	4	11	-	-	2	-	63.64	12	14	-	-	9	18
31-12-1935	1024	113	-	-	35	9	-	-	11	6	35.80	49	8	18	-	2	12	77.78	84	17	18	-	15	-
30-6-1936	1062	79	-	-	35	4	17	-	12	2	42.47	42	14	12	-	1	6	89.52	77	19	5	-	19	18
30-6-1937	1120	106	-	-	58	17	-	-	11	15	44.97	48	7	6	-	2	12	78.49	107	4	6	1	-	5
31-12-1937	1151	82	-	-	53	15	5	-	15	13	45.76	51	8	10	-	3	-	80.70	105	3	15	1	5	16
30-6-1938	1179	77	10	-	60	5	15	1	-	18	42.85	68	15	15	-	3	-	85.54	129	1	6	1	13	8
30-6-1938	1199	61	-	-	29	17	20	-	10	4	49.08	23	7	16	-	2	12	75.41	53	5	12	-	17	11
31-12-1938	1230	83	10	-	85	10	-	-	19	16	51.01	69	11	16	-	3	-	84.75	155	1	16	1	17	3
31-12-1939	1252	134	10	-	81	15	10	-	10	4	54.46	51	11	4	-	2	12	75.41	133	6	14	-	19	20
31-12-1939	1267	74	-	-	58	15	5	-	12	3	56.71	35	12	6	-	2	12	79.38	94	7	11	1	5	12
30-6-1940	1277	18	-	-	17	4	16	-	15	5	55.73	10	19	18	-	3	-	80.27	28	4	10	1	11	8
30-6-1940	1283	33	-	-	31	4	-	1	1	22	46.32	31	4	6	-	3	-	86.31	62	8	6	1	17	20
31-12-1940	1293	54	10	-	32	1	10	-	11	17	50.13	25	1	20	-	2	12	78.64	57	3	6	1	-	23
30-12-1940	1308	41	10	-	36	17	10	1	-	13	46.38	42	2	5	-	-	6	98.79	78	19	15	1	18	2
31-12-1941	1324	50	-	-	37	1	-	?	?	?	?	16	17	12	?	?	?	?	53	18	12	?	?	?
31-12-1941	1337	60	-	-	36	14	10	-	12	7	49.90	29	7	12	-	2	12	79.66	66	1	22	1	2	1
	TOTAL	1 470	2	-	935	14	9					700	14	14					1 636	8	23			
		(1 493.62 tonnes)			(29 108.55 grams)							(21 798.44 grams)							(50 906.99 grams)					
	AVERAGE										54.23							80.08				1	7	6
																						(34.08 g/t)		

APPENDIX B

DETAILS OF GOLD PRODUCTION - GLENLOTH BATTERY

APPENDIX B

Details of Gold Production - Glenloth Battery

MARJORIE MAY

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
31-12-1947	371	51 10 - (52.32 tonnes)	15 3 20 (472.59 grams)	- 5 21	50.10	4 17 - (150.87 grams)	- 4 -	32.06	20 - 20 (623.46 grams)	- 7 19 (12.31 g/t)

PERSEVERANCE

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
30-6-1937	172	40 - -	7 3 6	- 3 6	52.43	3 16 16	- 1 8	58.97	10 19 22	- 5 12
30-6-1937	176	26 12 -	27 3 12	- 16 -	56.08	17 5 19	- 3 3	80.62	44 9 7	1 13 7
31-12-1937	185	25 - -	17 4 -	- 11 18	53.94	11 11 6	- 2 12	78.72	28 15 6	1 3 -
31-12-1937	193	50 - -	30 19 19	- 8 18	58.62	16 17 12	- 2 -	77.14	47 17 7	- 19 4
30-6-1938	202	9 5 -	6 2 1	- 4 11	74.74	1 8 22	- 1 8	70.10	7 10 23	- 16 8
31-12-1938	220	8 2 -	6 6 19	- 8 8	65.26	2 11 7	- 2 -	75.99	8 18 2	1 2 -
31-12-1938	229	6 1 -	3 17 17	- 7 10	63.39	1 12 18	- 2 -	73.05	5 10 11	- 18 6
31-12-1941	318	25 5 -	7 12 20	- 6 4	49.54	5 5 5	- 2 -	67.57	12 18 1	- 10 5
	TOTAL	190 5 - (193.29 tonnes)	106 9 22 (3 312.90 grams)			60 9 9 (1 881.08 grams)			166 19 7 (5 193.48 grams)	
	AVERAGE				59.25			72.77		- 17 13 (26.87 g/t)

WILGENA GOLD MINING COMPANY

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
30-6-1915	82	4 - - (4.06 tonnes)	1 17 - (57.55 grams)	? ? ?	?	- 15 8 (23.85 grams)	? ? ?	?	2 12 8 (81.40 grams)	- 13 2 (20.08 g/t)

APPENDIX C

DETAILS OF GOLD PRODUCTION - PETERBOROUGH BATTERY

APPENDIX C

Details of Gold Production - Peterborough Battery

WILGENA ENTERPRISE

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS	CWT	QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ	DWT	GR	TAILING ASSAY OZ	DWT	GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ	DWT	GR	TAILING ASSAY OZ	DWT	GR	% RECOVERY	TOTAL BULLION RECOVERED OZ	DWT	GR	YIELD PER TON OZ	DWT	GR
31-12-1899	102	1	18	-	5	8	19	1	7	3	67.85	2	6	3	-	2	20	89.49	7	14	22	4	1	3
30-6-1900	127	3	-	-	4	1	2	-	17	12	60.70	2	8	3	-	1	11	91.67	6	9	5	2	3	2
	TOTAL	4	18	-	9	9	21					4	14	6					14	4	3			
		(4.98 tonnes)			(295.33 grams)							(146.60 grams)							(441.93 grams)					
	AVERAGE										64.28							90.58				2	18	-
																						(88.74 g/t)		

WILGENA PIONEER

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS	CWT	QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ	DWT	GR	TAILING ASSAY OZ	DWT	GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ	DWT	GR	TAILING ASSAY OZ	DWT	GR	% RECOVERY	TOTAL BULLION RECOVERED OZ	DWT	GR	YIELD PER TON OZ	DWT	GR
31-12-1899	104	2	16	2	1	9	4	-	8	1	56.41	-	-	-	-	-	-	-	1	9	4	-	10	9
		(2.85 tonnes)			(45.37 grams)														(45.37 grams)			(16.40 g/t)		

APPENDIX D

DETAILS OF GOLD PRODUCTION - MT. TORRENS BATTERY

APPENDIX D

Details of Gold Production - Mt. Torrens Battery

WILGERA PIONEER

HALF YEAR ENDED	PARCEL NO.	ORE TREATED TONNAGE TONS CWT QR	GOLD BULLION RECOVERYED BY AMALGAMATION ONLY BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	GOLD BULLION RECOVERED BY CYANIDATION OF BATTERY TAILINGS BULLION OZ DWT GR	TAILING ASSAY OZ DWT GR	% RECOVERY	TOTAL BULLION RECOVERED OZ DWT GR	YIELD PER TON OZ DWT GR
31-12-1899	299	2 18 -	1 4 4	- 8 8	49.74	- 19 8	- 1 18	79.18	2 3 12	- 15 -
		(2.95 tonnes)	(37.59 grams)			(30.07 Grams)			(67.66 grams)	(23.70 g/t)

NOTE: BATTERY GOLD 862 FINE

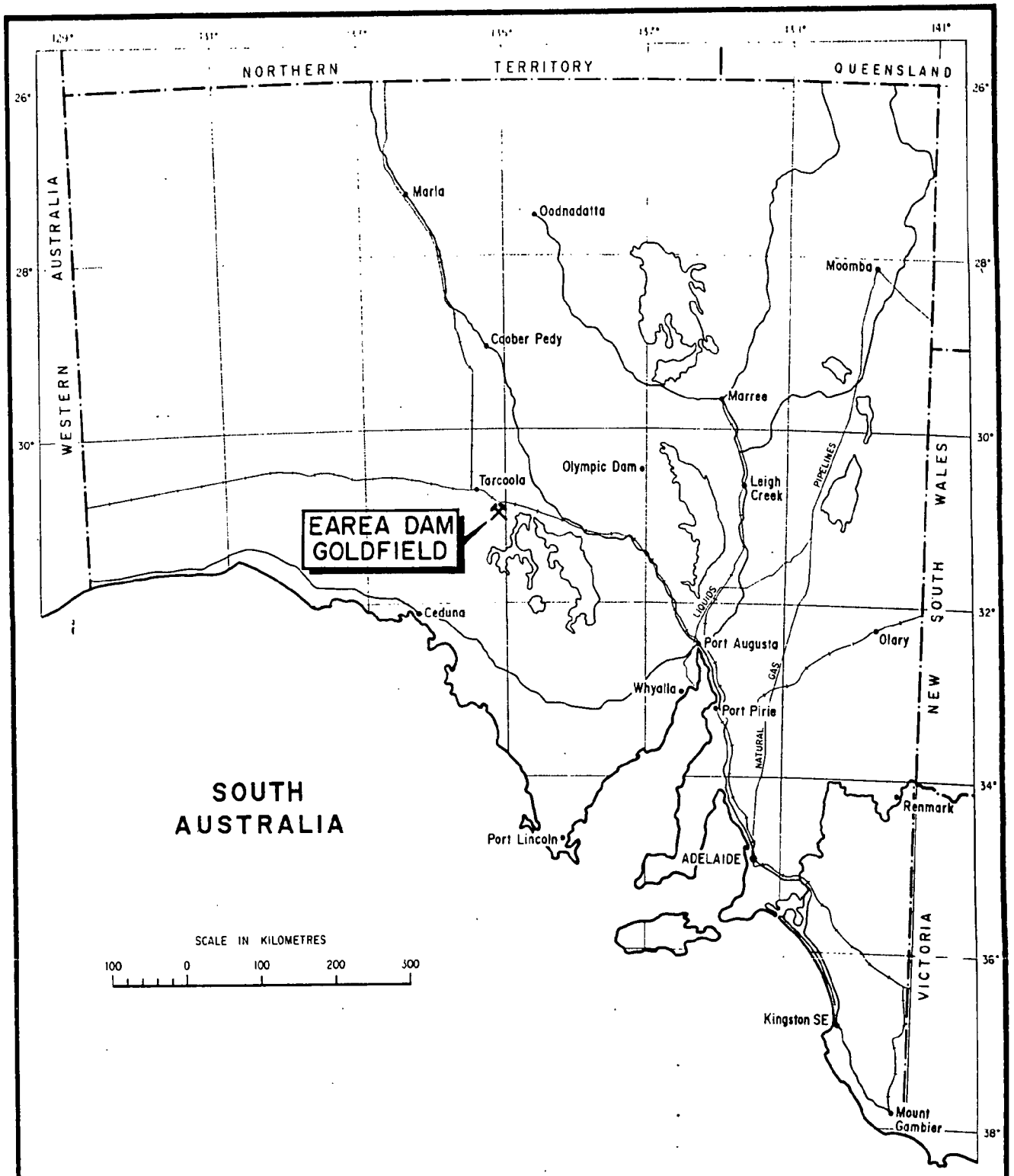


Figure 1

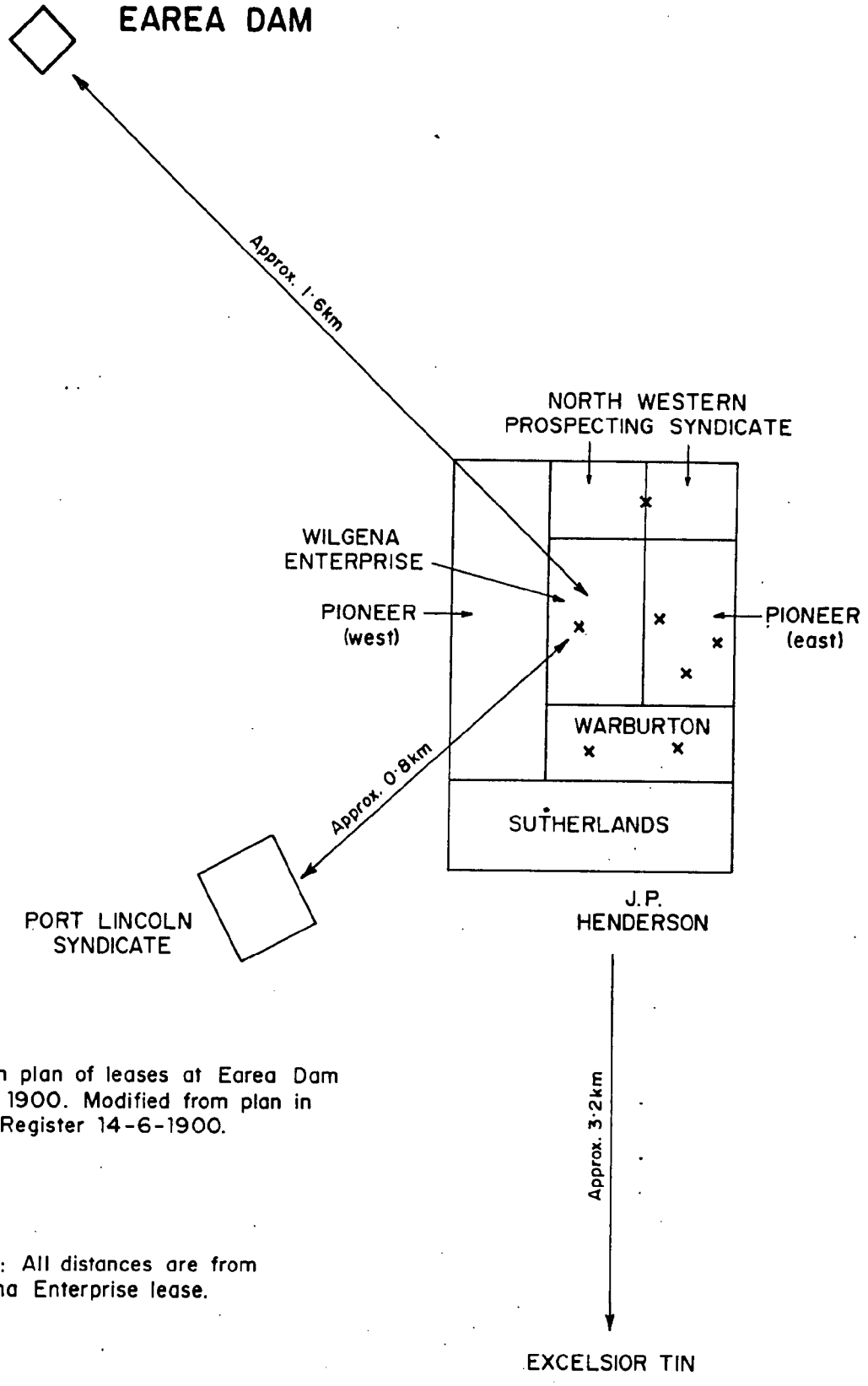
DEPARTMENT OF MINES AND ENERGY
SOUTH AUSTRALIA

EAREA DAM GOLDFIELD

LOCALITY PLAN

COMPILED WP Fradd	CDO DATE
DRAWN LAW	SCALE As shown
DATE	PLAN NUMBER S20015
CHECKED	

4618



Sketch plan of leases at Earea Dam June, 1900. Modified from plan in S.A. Register 14-6-1900.

NOTE: All distances are from Wilgena Enterprise lease.

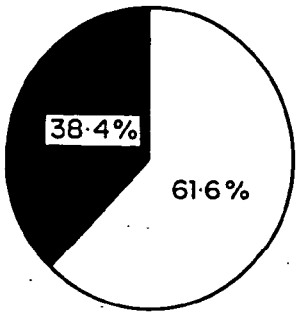
NOT TO SCALE

Figure 2

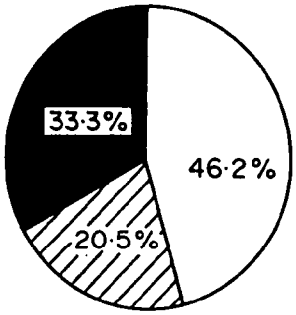
DEPARTMENT OF MINES AND ENERGY SOUTH AUSTRALIA	COMPILED WP Fradd	C D O DATE
EAREA DAM GOLDFIELD	DRAWN LAW	SCALE Not to scale
SKETCH PLAN OF LEASES, JUNE 1900	DATE	PLAN NUMBER S20016
	CHECKED	

4618

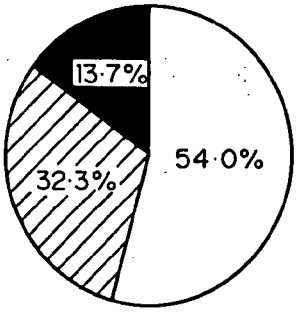
GOLDEN EAGLE



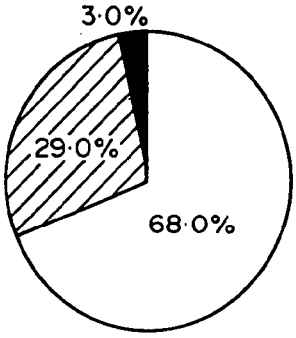
MARJORIE MAY



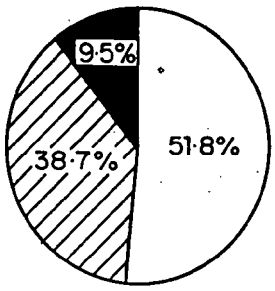
PERSEVERANCE



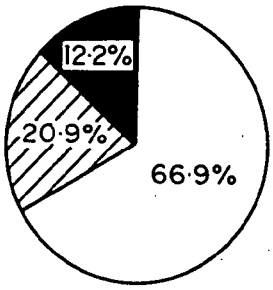
PIONEER EAST



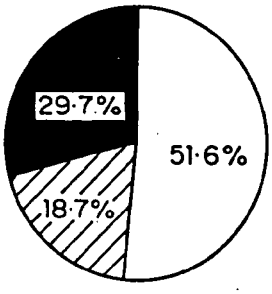
WILGENA ENTERPRISE



WILGENA GOLD MINING CO.



WILGENA PIONEER



LEGEND

Figure 3

DEPARTMENT OF MINES AND ENERGY SOUTH AUSTRALIA	COMPILED WP Fradd	C D O DATE
EAREA DAM GOLDFIELD	DRAWN LAW	SCALE
PIE DIAGRAMS SHOWING GOLD RECOVERED	DATE	PLAN NUMBER S20017
	CHECKED	

4618