PLATE 1

TASMANIA

SCALE OF MILES

5 0 5 10 15 20 25 30

RAILWAYS

145 146 147 148

40 41 42 43

Flinders Island
Cape Barren Island
Clarke Island
BANKS' STRAIT
Hunter Islands
Robbins Island
Stanley
Rocky Cape
Table Cape
Marrawah
Wynyard
Burnie
Devonport
Beaconsfield
Latrobe
Arthur River
Flowerdale River
Balfour
Blythe River
Leven River
Wilmot
Forth R.
Don River
Mersey R.
Sandy Cape
Waratah
Magnet
Donaldson R.
Savage R.
Whyte R.
Pieman River
Huskisson R.
Mackintosh R.
Moina
Dove River
Tullah
Rosebery
Zeehan
Williamsford
Dundas
Henty R.
Queenstown
Lake St. Clair
Meander R.
Great Lake
Arthur Lakes
Lake River
Macquarie River
Lake Sorell
Lake Crescent
Lake Echo
Shannon R.
Nive R.
Dee River
Derwent
Ouse
Clyde River
Florentine River
Styx River
Franklin
Gordon
Denison River
River
Macquarie Harbour
King River
Cape Sorell
Point Hibbs
Port Davey
S.W. Cape
Cox Bight
Recherche Bay
S.E. Cape
Hobart
Margate
Huon River
Lune R.
Brumi Island
Storm Bay
Cape Raoul
Cape Pillar
Tasman's Peninsula
Maria Island
Spring Bay
Schouten Island
Freycinet's Peninsula
Oyster Bay
Swansea
Cape Portland
Ringarooma R.
Gladstone
Pioneer
Derby
Lottah
Branxholm
George's Bay
Lefroy
Tamar River
Lisle
Launceston
North Esk River
Mathinna
MANGANA
St. Marys
South Esk River
Avoca
Seymour

Photo Litographed by John Vail Government Printer Hobart Tasmania.

LOCALITY MAP

Reduce to this size (⅓ size)

772 P
168
772/48

772 A

156

5 cm

PLATE II

GEOLOGICAL SKETCH MAP OF MANGANA GOLDFIELD

LEGEND

SEDIMENTARY

RECENT ..... ALLUVIUM

TERTIARY ..... SANDS, CLAYS & GRAVELS

PERMO-CARBONIFEROUS MUDSTONE, CONGLOMERATES & SANDSTONE

CAMBRO-ORDOVICIAN ... SLATES & SANDSTONES

IGNEOUS

UPPER MESOZOIC ..... DOLERITE (DIABASE)

SCALE

10 0 10 20 30 40 50 CHAINS

TOWER HILL FREEHOLD

GOLDEN GULLY

MAUDWIDT GULLY

FERN TREE CREEK

GOLDEN GULLY

CALDERS GULLY

MAJORS HILL

MAJORS GULLY

RICHARDSONS CREEK

ALPINE

BUCKLAND

CARBINAL

ALPINE HILL

OLD BATTERY SITE

LITTLE DEVIL CREEK

SHEEPSKIN CREEK

SPECIMEN HILL

OTWAYS CREEK

TO TOWER HILL

DOWNING CREEK

GRANTS CREEK

FINGAL GULLY

FINGAL

OLD BATTERY SITE

HARRISON CREEK

PINCHER

UNION JACK

SHARKEY GULLY

GOLDEN ENTRANCE

ARGYLL

SOVEREIGN HILL

MANGANA GOLD REEFS

SOUTH GOLDEN ENTRANCE

SAILORS GULLY

OLD BATTERY SITE

TO FINGAL

OTWAYS CREEK

TOWER RIVULET

TO STORY CREEK

CHARACTERISTICS

CONTOURS

GEOLOGICAL BOUNDARIES

STRIKE & DIP OF STRATA

METALLED ROADS

UNMETALLED ROADS

QUARTZ REEFS

J. B. Blake

ACTING GOVERNMENT GEOLOGIST
1936

772 B

157

5 cm

772/18

PLATE III

1583
93G
10 ac.

1167
93G
10 ac.

1574
93G
10 ac.

SHARKEY GULLY

900'
950'
1000'
1050'
1100'
1150'
1200'
1250'
1300'
1350'
1400'
1450'
1500'
1550'
1600'

TRENCHES
TRENCH
REEF
UNDERLAY SHAFT 20' DEEP
UNDERLAY SHAFT 10' DEEP
UNDERLAY
85°
80°
87°

1777
G
10 ac

82°
1405' SHAFT
CUT
WINZE
TRENCHES
TRENCH
SHARKEY'S GULLY ADIT
SHALLOW SHAFT 10' DEEP
1618'
SHALLOW SHAFTS 18' DEEP
HOLE
TRENCH
HOLES
No 4 SHAFT 30' DEEP
STOPES
No 1 SHAFT 108' DEEP
CAVED STOPES
HOLE
TRENCH
HOLE
CAVED STOPE 8'
No 2 SHAFT 100' DEEP
OPEN STOPES
538'
No 1 ADIT
No 3 SHAFT 100' DEEP
GOLDEN ENTRANCE MINE
150' LEVEL ADIT
1398'
No 2 ADIT GOLDEN ENTRANCE

611
93G
10 ac.

11313
M
31 ac.

1546
93G

1587
93G
10 ac.

1766
G
20 ac.

J.M. BRANNAN M.L.

80°
CUT
1366'
TRENCH
CUTS
85°
SOVERIGN SHAFT
OPEN CUT
TRENCHES
SHAFT
SURFACE STOPES
No 1 ADIT COLLAPSED
CAVED STOPES
CAVED SHAFT
No 2 ADIT
CAVED STOPE
SHAFT 180' DEEP
ADIT
No 3 ADIT
CAVED STOPES
MAIN SHAFT 819' DEEP
No 4 ADIT
MANGANA GOLD REEFS MINE

SAILORS GULLY
TRACK 950'
ADIT

No 2 NORTH ADIT
75°
1194'
No 2 SOUTH ADIT
ARGYLE GOLD DEVELOPEMENT LIM.
G.L.
ARGYLE MINE
1274'
ADIT
TRENCHES
1346'
HOLE
No 2 WINZE
No 1 SOUTH ADIT
No 3 WINZE
TRENCHES
1406'
No 1 WINZE
1313'
60°

1775
10 ac.
HOLES
1537'
TRENCHES
SHAFT
HOLE
TRENCH
1525'
HOLE
TRENCH
1477'
TRENCH
HOLE
TRENCH
TRENCH
WINZE
ADIT
1360'
SOUTH GOLDEN ENTRANCE

MANGANA GOLDFIELD

SHEWING REEFS & WORKINGS IN RELATION TO LEASE BOUNDARIES

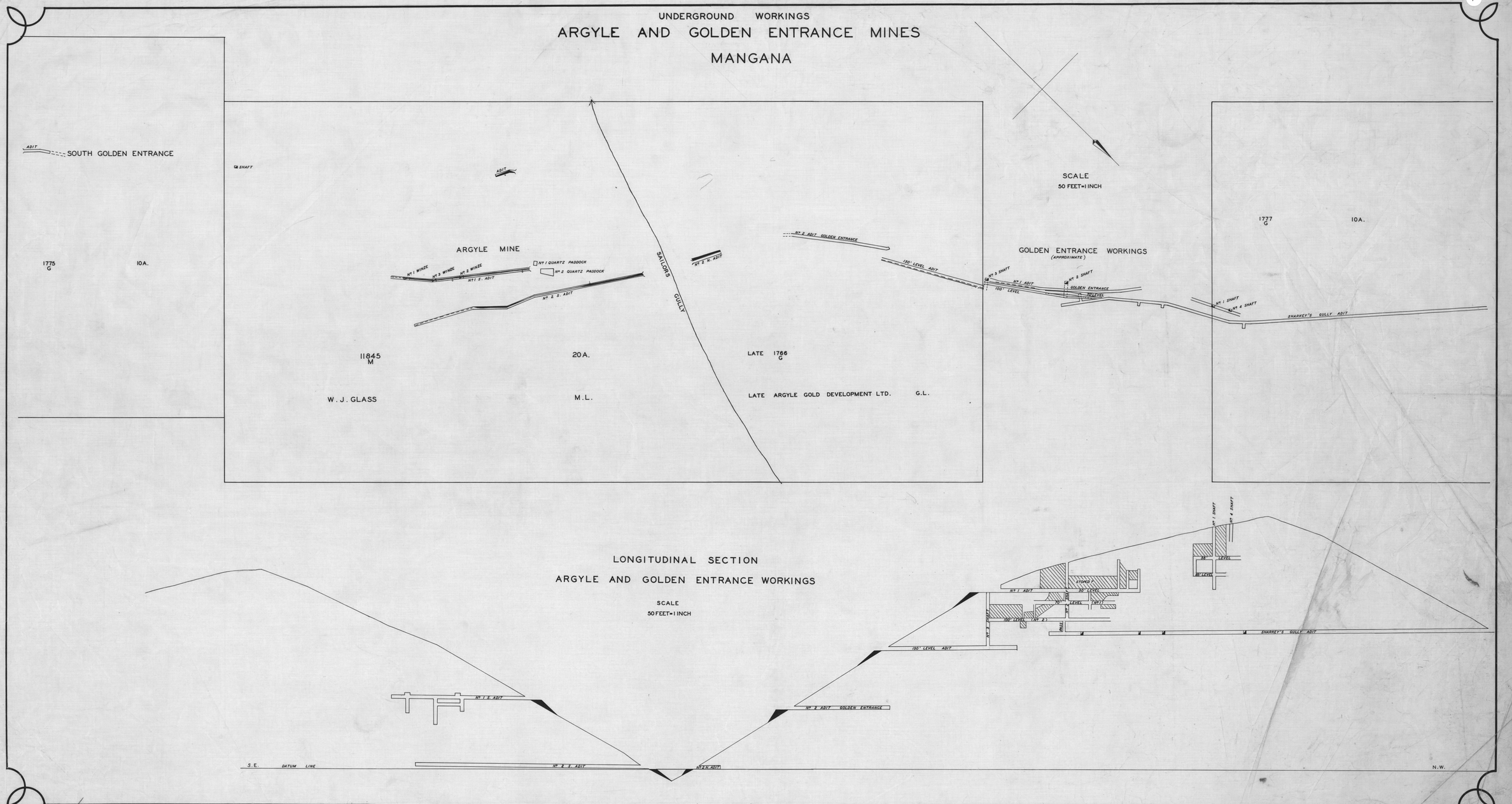
SCALE

0 1 2 3 4 5 CHAINS

J Blake

ACTING GOVERNMENT GEOLOGIST
1936

PLATE IV



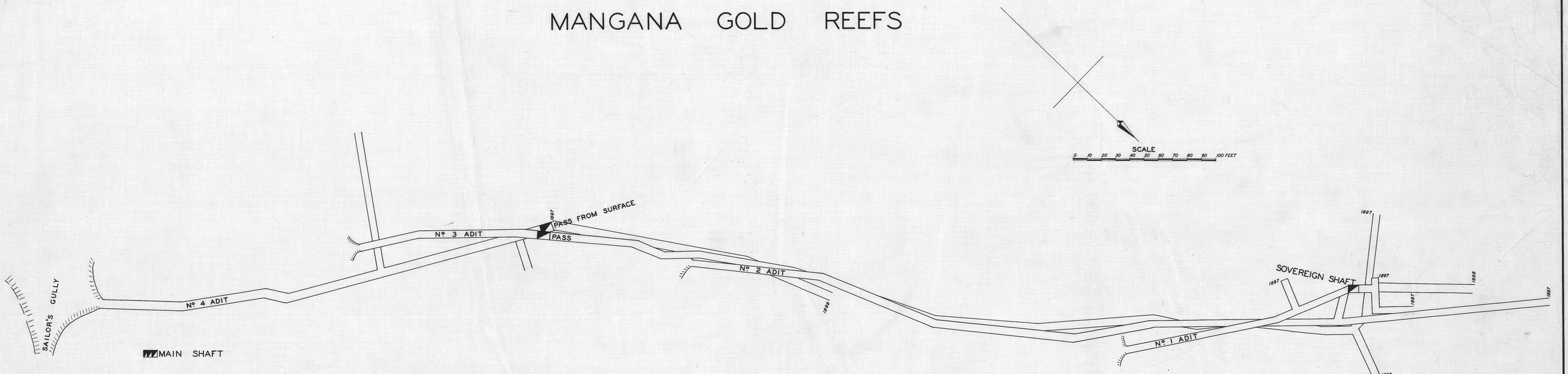
772C

772C/48

772C

UNDERGROUND PLAN

MANGANA GOLD REEFS



AFTER MINE PLAN 1898-99

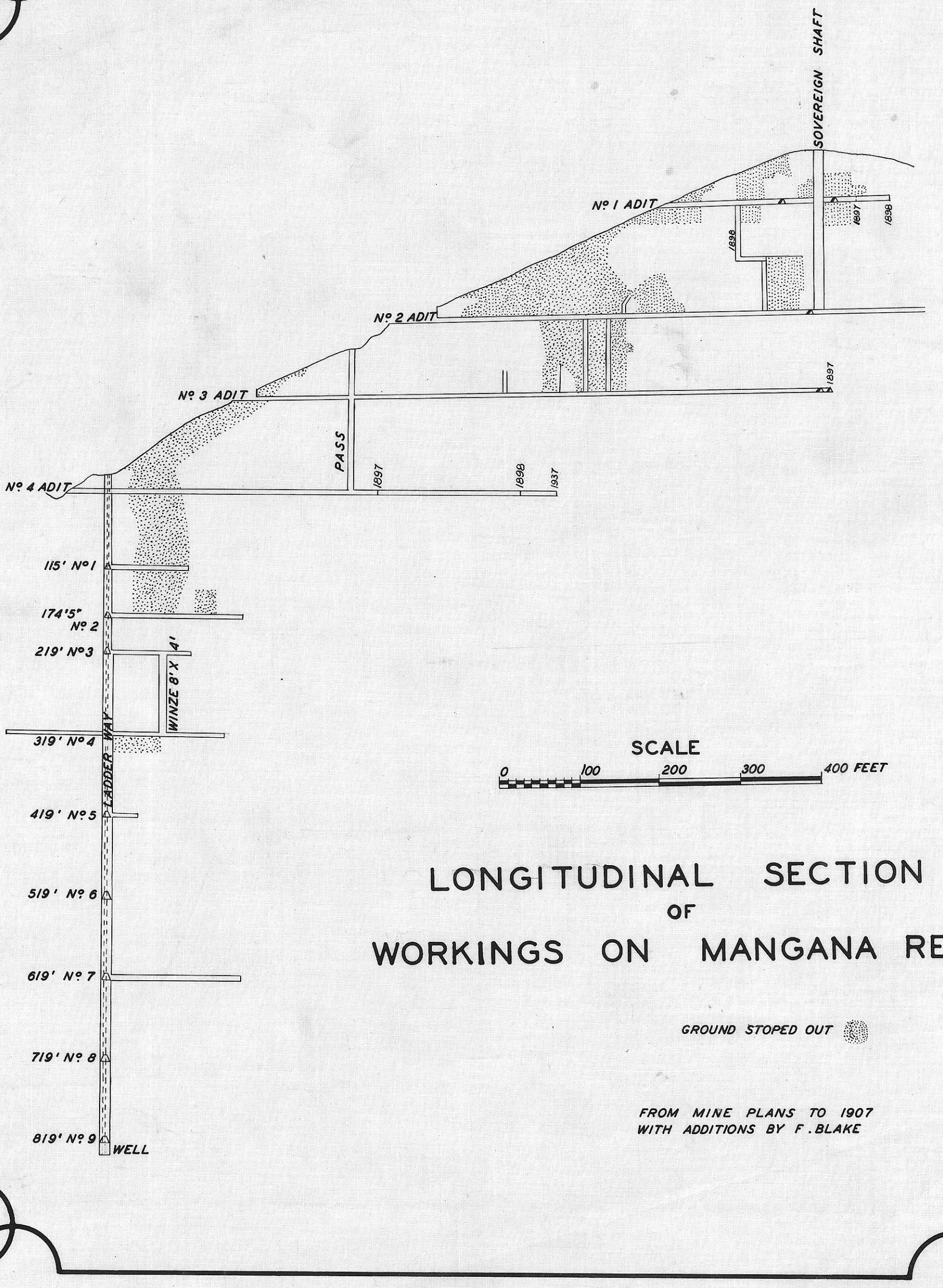
772 D
158
772D/48

772E

159

5 cm

PLATE VI



LONGITUDINAL SECTION OF WORKINGS ON MANGANA REEF

GROUND STOPED OUT

FROM MINE PLANS TO 1907
WITH ADDITIONS BY F. BLAKE

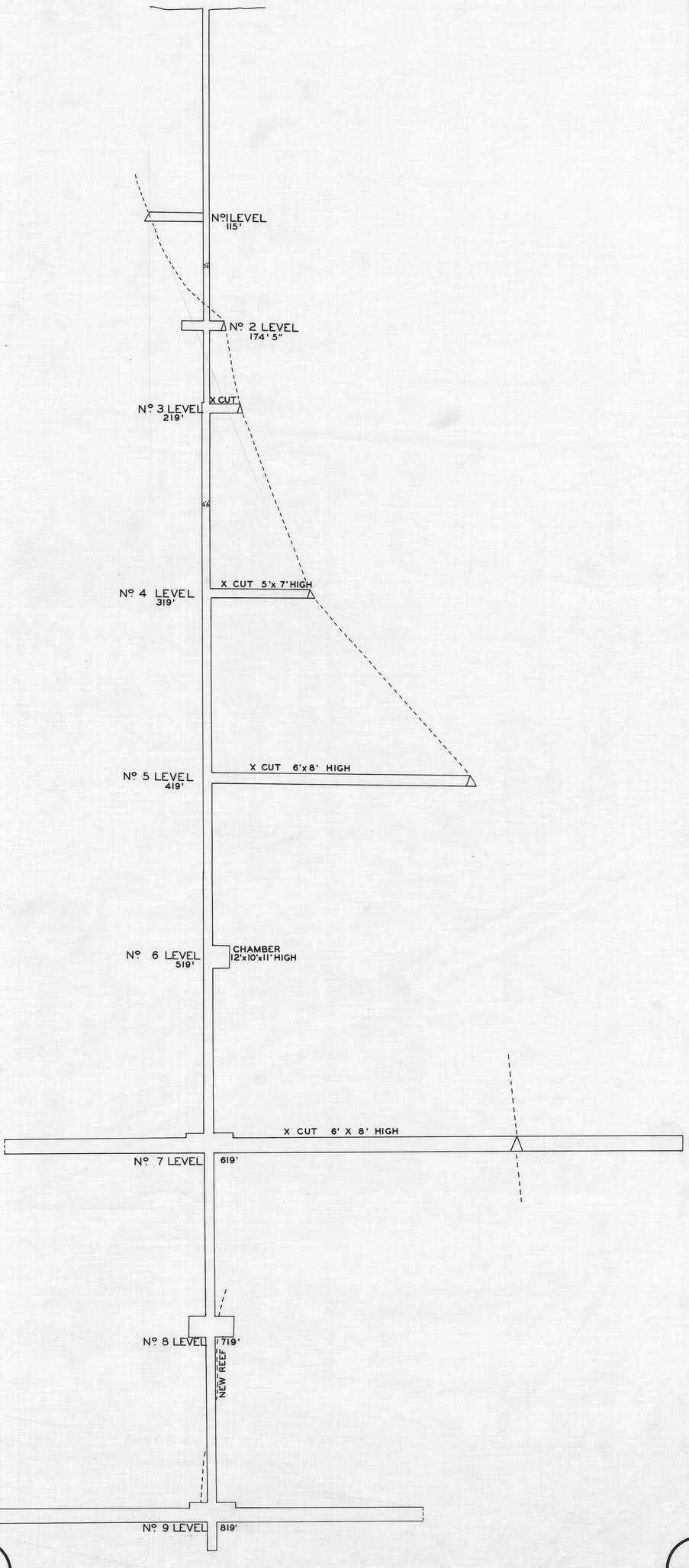
772F
160
772F/48

PLATE VII

MANGANA GOLD REEFS

MAIN SHAFT WORKINGS

CROSS SECTION LOOKING NORTH WEST



AFTER MINE PLAN 1907

772G

161

5 cm

PLATE VIII

MANGANA GOLDFIELD

SHEWING REEFS & WORKINGS IN RELATION TO LEASE BOUNDARIES

772G/48

SCALE

1 0 1 2 3 4 5 CHAINS

TO TOWER HILL

METALLED ROAD

TO MANGANA

FINGAL MINE

1000'
CAVED SHAFT 1005'
TRENCH
1050'
CAVED ADIT
1016'
ADIT
SHAFT
DEEP UNDERLAY SHAFT STOPING UNDERGROUND
DEEP VERTICAL SHAFT 1078'
SHALLOW HOLE
1100'
SURFACE STOPING
VERTICAL SHAFT
UNDERGROUND STOPES
80°
CAVED SURFACE STOPE
320A.
1150'
80°
MAIN VERTICAL SHAFT
1200'
CAVED SURFACE STOPE
CAVED SHAFT
W.A. TULLY & F.A. DOWNING
42°
PUR.
1250'
1300'
1350'
1400'
CAVED SURFACE STOPES
105'
80°
1026'
ADIT
SHALLOW SHAFT
1081'
45°
SHAFT
SHALLOW SHAFT
SURFACE STOPE
SHALLOW SHAFT
TRENCH
UNDERLAY SHAFT

19 - 2 - 10

W. ROBERTSON PUR.

CUT
TRENCH

19 - 3 - 6

W. ROBERTSON PUR.

80°

TRENCH 1350'

1435'

CUT
TRENCH
VERTICAL SHAFT 1431'

22 - 2 - 9

W. ROBERTSON PUR

1589 93G 5 ac.

1588 93G 10 ac.

1590 93G 5 ac.

1400'
1369'
TRENCH
OUTCROP 1364'
60°
1289'
TRENCH
TRENICH 1361'
1350'
TRENCH
70°
OPEN CUT 1329'
1300
CUT
CUT
TRENCH
CUTS
1527 93G
10 ac.
TRENCH

HARRISON'S GULLY

ADIT
85°
85°
80°
ADIT
PINCHER REEF
CUT
TRENCH
943'
75°
TRENCH
80°
TRENCH
RODMAN SHAFT 50'
DRIVE
DRIVE
1050'
900'
950'
1000'
85°
19 - 1 - 26
W. ROBERTSON PUR.

1100'
1150'
1200'
1250'
TRENCH
TRENCH
1277'
TRENCH
1300'
VERTICAL SHAFT
TRENCH
1300'
85°
80°

28°
VERTICAL SHAFT
RISE
66-70°
31°
1250'
TRENCH
32°
TRENCH
UPPER ADIT CAVED
CAVED GROUND
63°
SHALLOW SHAFT 1241'
VERTICAL SHAFT CAVED AT 15'
UNION JACK MINE
LOWER ADIT
TRENCH
TRENCH
1200'
1159'

622 93G 2 ac.

1207 93G 10 ac.

1667 93G 10 ac.

1583 93G 10 ac.

1584 93G 10 ac.

1281'
1250'
5 ac.
1205 93G
1166 93G 10 ac.
TRENCH

J. Blake
ACTING GOVERNMENT GEOLOGIST
1936

772 H

162

5 cm

PLATE IX

1637
93G

10 ac.

1349
93G

5 ac.

GOLDEN GULLY

1250'

1300'

1350'

1400'

1235'

OPEN CUT

OUTCROP

1277'

OPEN CUT

SURFACE STOPES

UNDERLAY SHAFT

1448'

RISE 75°

75-80°

DEEP TRENCH OR STOPE

ADIT

75°

VERTICAL SHAFT
1389'.

1225'

1400'

1200'

1250'

FOOT TRACK

1300'

FOOT TRACK

1350'

50 - 3 - 0

J. ROBERTS PUR.

SCALE

1 0 1 2 3 CHAINS

GOLDEN GULLY MINE

MANGANA GOLDFIELD

SHEWING REEFS & WORKINGS IN RELATION TO LEASE BOUNDARIES

J. Blake

ACTING GOVERNMENT GEOLOGIST

1936

772H

PLATE X

TOWER HILL FREEHOLD MINE

MANGANA GOLDFIELD

SHEWING REEFS & WORKINGS IN RELATION TO LEASE BOUNDARIES

1900'
1950'
2000'
CAVED ADIT
SHALLOW SHAFT
CAVED ADIT
OPEN CUT
OPEN CUT
No. 1 REEF
No. 2 REEF
SHALLOW SHAFT
1904'
ADIT
1945'
TRENCH
VERTICAL SHAFT
TRENCH
VERTICAL SHAFT
RISE
SHAFT VERTICAL FOR 20' THEN UNDERLAY TO N.E.
PIT
SHALLOW SURFACE STOPES
CAVED SURFACE STOPES
TRENCH
CAVED STOPE
157 A. - I R. - O P.
TRENCH
TRENCH
TRENCH
UNDERLAY SHAFT
DEEP TRENCH
SHALLOW SURFACE STOPES
SHALLOW SURFACE STOPES
SHALLOW SHAFT
COLLAPSED
2025'
SHALLOW WINZE
2021' SHAFT. WATER AT 12'
X CUT
VERTICAL SHAFT WATER AT 6'
VERTICAL SHAFT 15' DEEP
VERTICAL SHAFT. WATER AT 20'
TRENCH
TRENCH
TRENCH
UNDERLAY SHAFT
SHALLOW SHAFT
ADIT
CUDDY
SHALLOW SURFACE STOPES
UNDERLAY WINZE
202P M
10 A.
SHALLOW SURFACE STOPES
SHALLOW SHAFT
PIT
SHALLOW SHAFT
No. 3 REEF
VERTICAL SHAFT. WATER AT 20'
SHALLOW PIT
2021'
TRENCH
TRENCH
TRENCH
2000'
W. ST PAUL GELLIBRAND
PUR.
SHALLOW SHAFT
No. 4 REEF
SHALLOW SHAFT
1970'
1950'
1900'
FERN TREE GULLY
GOLDEN GULLY

SCALE
1 0 1 2 3 CHAINS

J. Blake
ACTING GOVERNMENT GEOLOGIST
1936

772 J 78

772 J

163

772 K

164

5 cm

PLATE XI

MANGANA GOLDFIELD

SHEWING REEFS & WORKINGS IN RELATION TO LEASE BOUNDARIES

2000'

1950' 1900' 1850' 1800' 1750' 1700' 1650' 1600' 1550' 1500' 1450' 1400' 1350' 1300' 1250'

GALDER'S GULLY

CREEK

1245'

ALPINE LOWER ADIT 70°

HORIZONTAL BORE HOLE 70°

11443 M

20

T.W.SIMPSON & J.J.PITT M.L.

1523'

TRENCH 1971'

TRENCH

TRENCH

TRENCH

60° SHAFT

SHAFT 1958'

TRENCH

ALPINE

SHALLOW STOPES

TRENCH

SHALLOW SHAFT

HOLES

ALPINE MINE

SURFACE STOPES

80°

ALPINE REEF

SURFACE STOPES

ADIT X CUT

WINZE

WESTERN REEF

ADIT DRIVE

SURFACE STOPES

SHAFT TO ADIT LEVEL

85°

1932'

75°

ALPINE UPPER ADIT

QUARTZ REEF 10' WIDE IN TRENCH

CREEK

WINZE

70° ADIT

65° STOPES

SHAFT

SHAFT STOPES

BUCKLAND MINE

TRENCHES

SURFACE STOPES

1804' HOLE

QUARTZ REEF HOLE

1684'

1500'

TRENCH

TRENCH 50°

68°

OPEN CUT

SHALLOW SHAFT

FAULT

1536'

CUT

SHALLOW SHAFT

RICHARDSON'S CREEK MINE

65°

CUT

FAULT

1490' ADIT

UNDERLAY SHAFT TO ADIT LEVEL

65°

SHALLOW SHAFT

WINZE

FAULTS

10848 M

5 ac.

1412'

10936 M

5 ac.

1500'

1550' 1600' 1650' 1700' 1750'

PUR.

H. J. BUCKLAND

SCALE

1 0 1 2 3 4 5 CHAINS

SHALLOW SHAFT

70° TRENCH

OPEN CUT 60°

GOODALL No. 1 REEF

TRENCH

TRENCH

60° HOLE

TRENCH

TRENCH

SHAFT 6'

SHAFT 15' 75°

SHALLOW SHAFT

TRENCH

SHAFT

1917'

TRENCHES

TRENCH

TRENCH

1902'

SHAFT 30'

73°

SHALLOW SHAFT

SHAFT

DRIVE

CARDINAL MINE

SHAFT 32'

1886'

TRENCH

TRENCH 76°

1849'

TRENCH

1800'

320 A.

H. Blake.

ACTING GOVERNMENT GEOLOGIST

1936

LONGITUDINAL SECTION
OF
BUCKLAND MINE
MANGANA

SURFACE

SOUTH SHAFT

MAIN SHAFT

ALPINE BOUNDARY

X CUT

X CUT

X CUT

DRIVE

TUNNEL

FOOT OF SHOOT OF GOLD

WINZE

CAP OF NEW SHOOT OF GOLD IN STONE

GOOD STONE RISING

DRIVE

STONE GOING DOWN

RISE

WINZE

DRIVE

NEW MAKE OF STONE

WINZE

10 0 10 20 30 40 50 FEET

SCALE

STOPING SHEWN THUS

BASED ON OLD MINE PLANS — APPROXIMATELY CORRECT ONLY

772L/48

772L

772M

166

5 cm

PLATE XIII

MANGANA GOLDFIELD

SHEWING REEFS & WORKINGS IN RELATION TO LEASE BOUNDARIES

SPECIMEN HILL

0 1 2 3 4 5 6 7 8 9 10 CHAINS

CAVED SHALLOW SHAFT
PIT
PIT
CAVED SHAFT
TRENCHES
70° VERTICAL SHAFT
PIT
TRENCHES 1011'
PIT
CORBETT VERTICAL SHAFT 130' DEEP
1026'
TRENCH
70°
1000'
900'
950'
DAVEY STREET
MANGANA TOWNSHIP
RESERVE
20 A.
WILLIAM ROBERTSON
TRENCH
CAVED VERTICAL SHAFT
75°
CAVED VERTICAL SHAFT
CAVED ADIT
AUGUSTA STREET
CREEK
PUR.
1000'
1050'
19A. - 3R. - 38P.
W. ROBERTSON
BRENNAN'S ADIT
80°
983'
PUR.
ROAD RESERVE
ARGYLE STREET
CAVED SHALLOW SHAFT
PIT
TRENCHES
GOODALS SHAFT CAVED AT 14'
CUT
1032'
TRENCHES
19A. - 3R. - 38P.
950'
W. ROBERTSON
80°
199A. - 3R. - 17P.
B.W.OLIVER
PUR.
PUR.
W. ROBERTSON
METALLED ROAD
19A. - 3R. - 36P.
900'
CREEK
PUR.
143A. - 3R. - 14P.
922' TRENCHES
TRENCHES
TRENCHES
904'
TRILBY SHAFT CAVED. ORIGINALLY 50' DEEP
J.J. BRADY
PUR.
TO STORY'S CREEK

J Blake
ACTING GOVERNMENT GEOLOGIST
1936

772 N

167

5 cm

PLATE XIV

199 A. - 3 R. - 9 P.

M. E. HALL

1004
93G

1050'

1100'

1100'

1050'

10 A.

PUR.

1005

10A

TRENCH

PIT

TRENCH
1024'

80°

WINZE 7'

QUARTZ 12' WIDE

TRENCH

TRENCH

TRENCH

TRENCH

TRENCH

ADIT

83°

PIT

QUARTZ OUTCROP 3' WIDE

QUARTZ 22' WIDE

OPEN CUT

80°

TO MANGANA

FOOT TRACK

1009'

1002'

1000'

1000'

OTWAY'S CREEK

80°

SCALE

1 0 1 2 3 CHAINS

OTWAY'S CREEK MINE

MANGANA GOLDFIELD

SHEWING REEFS & WORKINGS IN RELATION TO LEASE BOUNDARIES

J. Blake
ACTING GOVERNMENT GEOLOGIST
1936

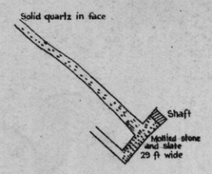
772w

175

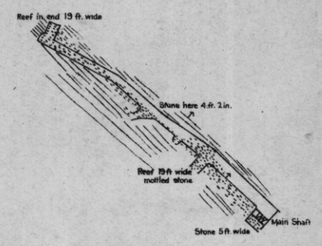
5 cm

PLATE XV

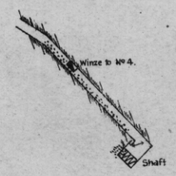
NO: 1. LEVEL
115. feet



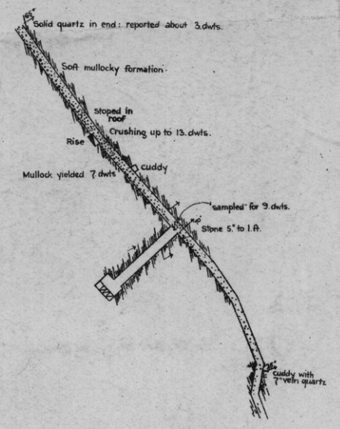
NO: 2. LEVEL
174. feet



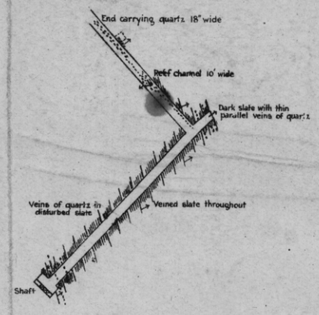
NO: 3. LEVEL
219. feet



NO: 4. LEVEL
319. feet



NO: 5. LEVEL
419. feet



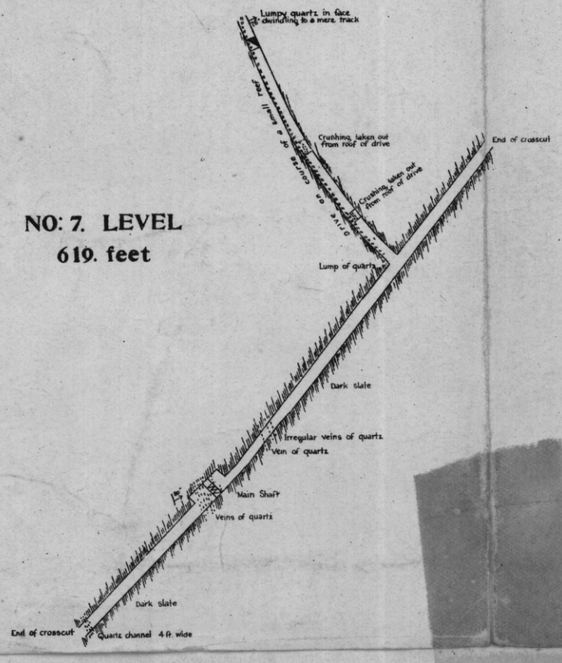
MANGANA GOLD REEFS
PLANS OF LEVELS

Scale of Feet

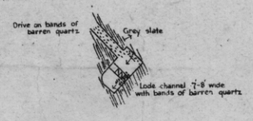
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 300

After W. H. Twelvetrees
Government Geologist
Nov. 1907.

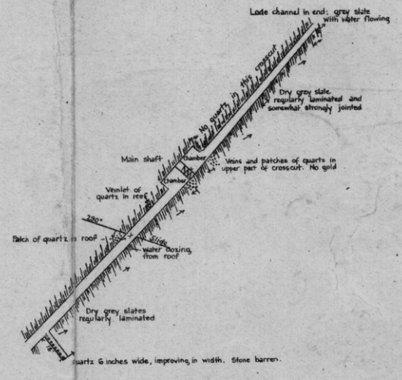
NO: 7. LEVEL
619. feet



NO: 8. LEVEL
719. feet



NO: 9. LEVEL
819. feet



772-0148