

DEPT. NAT. RES & ENV



PE904173

**NUNNTIN - 1 & - 2. ELEMENTARY WELL DATA W426A, W426B.**

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*Bore 60.*

Position.—From Bore 59, 151.5 links north-west. Surface level—6 inches above Bore 55.

At 0 ft.—soil; 1 ft.—mottled clay; 2 ft.—yellow sandy clay; 17 ft.—gravelly clay; 22 ft.—decomposed basalt; 50 ft.—hard basalt; 87 ft.—bedrock, slate; depth of bore, 90 ft. Water struck at 43 ft.

*Bore 61.*

Position.—From Bore 60, 68 links north-west. Surface level—4 inches above Bore 55.

At 0 ft.—soil; 1 ft.—yellow clay; 22 ft.—yellow sandy clay; 24 ft.—decomposed basalt; 49 ft.—hard basalt; 79 ft.—decomposed basalt; 89 ft.—bedrock; depth of bore, 92 ft. Water struck at 44 ft.

*Bore 62.*

Position.—From Bore 56, 151.5 links, north-west. Surface level—same as Bore 55.

At 0 ft.—soil; 1 ft.—yellow clay; 3 ft.—sandy yellow clay; 29 ft.—decomposed basalt; 56 ft.—hard basalt; 90 ft.—red clay; 91 ft.—bedrock, slate; depth of bore 94 ft. Water struck at 49 ft.

*Bore 63.*

Position.—From Bore 56, 51.5 links north-west. Surface level—same as Bore 55.

At 0 ft.—soil; 1 ft.—yellow clay; 18 ft.—yellow sandy clay; 28 ft.—decomposed basalt; 52 ft.—hard basalt; 95 ft.—white sandy clay; 96 ft.—bedrock; depth of bore 98 ft. Water struck at 45 ft.

*Bore 64.*

Position.—From Bore 57, 100 links south-east. Surface level—3 ft. lower than Bore 57.

At 0 ft.—soil; 1 ft.—mottled clay; 2 ft.—yellow clay; 19 ft.—yellow sandy clay; 24 ft.—decomposed basalt; 49 ft.—hard basalt; 83 ft.—decomposed basalt; 85 ft.—dark sandy clay; 92 ft.—bedrock; depth of bore 95 ft. Water struck at 44 ft.

## PARISH OF NUNTIN.—1.

*Bore 1. 1937*

Position.—From the north-west corner of allotment 28B, 4½ chains north (near bridge over Nuntin Creek, miles south-easterly from Stratford). Surface level—41.16 ft.

The following formations were encountered, commencing at the depths mentioned:—

At 0 ft.—surface soil; 3 ft.—gravel; 4 ft.—sandy clay; 13 ft.—black silty clay; 15 ft.—very coarse gravel; 21 ft.—grey tough clay; 24 ft.—yellow tough clay; 27 ft.—blue sand; 28 ft.—blue clay; 30 ft.—brown clay; 39 ft.—sandy clay; 44 ft.—clay, variegated, tough; 50 ft.—clay, variegated, sandy; 62 ft.—clay, grey, silty; 82 ft.—clayey sand; 102 ft.—clay, variegated, very greasy and tough; 170 ft.—clay, grey, greasy; 190 ft.—clay, dark with decomposed wood; 192 ft.—grey clay; 202 ft.—sand; 210 ft.—clay; 216 ft.—sand; 280 ft.—drift sand; 472 ft.—sand, drift, micaceous; 532 ft.—sand, marly, micaceous; 538 ft.—sand, drift, micaceous; 660 ft.—fossiliferous sand; 700 ft.—sand, drift, micaceous; 735 ft.—sandy marl; 747 ft.—drift sand; 760 ft.—marl, greenish, very soft; 784 ft.—limestone; 784 ft. 2 in.—fossiliferous marl; 834 ft.—limestone; 834 ft. 2 in.—marl and limestone; 909 ft.—fossiliferous marl; 929 ft.—limestone and marl, fossiliferous; 1,300 ft.—hard white limestone; 1,330 ft.—hard limestone; 1,332 ft.—fossiliferous marl; 1,338 ft.—limestone; 1,339 ft.—fossiliferous marl; 1,347 ft.—limestone; 1,348 ft.—fossiliferous marl; 1,362 ft.—grey limestone; 1,365 ft.—fossiliferous marl; 1,368 ft.

—limestone; 1,369 ft.—fossiliferous marl; 1,387 ft.—limestone; 1,387 ft. 5 in.—fossiliferous marl; 1,417 ft.—greenish marl; 1,419 ft.—fossiliferous marl; depth of bore, 1,453 ft.

## PARISH OF SCARSDALE.

For Bores 1 to 40, see Boring Reports for 1936. page 16.

*Bore 41.*

Position.—From Bore 40, 113 links south-west. Surface level—1,225 ft. (assumed datum).

The following formations were encountered, commencing at the depths mentioned:—

At 0 ft.—surface loam; 2 ft.—clay; 7 ft.—gravel; 13 ft.—gravel, boulders and a little wash; 17 ft.—stiff clay; 25 ft.—cemented gravel; 28 ft.—fine gravel; 31 ft.—stiff grey clay; 33 ft.—fine gravel; 41 ft.—clay, gravel and a little wash; 48 ft.—hard red sand; 50 ft.—sandy clay and a little wash; 55 ft.—bedrock; depth of bore 60 ft. 7 ft. to 17 ft.—7 fine colours of gold; 25 ft. to 48 ft.—11 fine colours.

*Bore 42.*

Position.—From Bore 31, 300 links bearing 25° west of south. Surface level, 1,227 ft. (assumed datum).

At 0 ft.—surface loam; 1 ft.—clay and gravel; 10 ft.—coarse gravel and some boulders; 19 ft.—gravel and some wash; 22 ft.—grey clay; 25 ft.—coarse gravel; 29 ft.—fine gravel; 33 ft.—stiff grey clay; 42 ft.—fine gravel; 47 ft.—grey clay; 53 ft.—wash; 56 ft.—bedrock, slate; depth of bore 58 ft. 10 ft. to 22 ft.—14 fine colours of gold; 25 ft. to 33 ft.—8 fine colours; 47 ft. to 56 ft.—fine and coarse colours.

*Bore 43.*

Position.—From Bore 31, 375 links bearing 25° west of south. Surface level—1,229 ft. (assumed datum).

At 0 ft.—surface loam; 1 ft.—red clay; 11 ft.—red clay and coarse gravel; 18 ft.—gravel with a few wash stones; 24 ft.—stiff yellow clay; 29 ft.—coarse gravel; 33 ft.—angular wash; 36 ft.—stiff grey clay; 38 ft.—clay and fine white gravel; 66 ft.—coarse gravel; 75 ft.—yellow sandy clay; depth of bore, 84 ft. Surface to 11 ft.—no gold; 11 ft. to 24 ft.—9 fine colours; 29 ft. to 36 ft.—7 fine colours.

*Bore 44.*

Position.—From Bore 31, 435 links bearing 25° west of south. Surface level, 1,229 (assumed datum).

At 0 ft.—old tailings; 1 ft.—red clay; 15 ft.—grey clay and coarse gravel; 22 ft.—clay, gravel and some wash; 46 ft.—stiff grey clay; 53 ft.—fine gravel; 59 ft.—grey clay; 64 ft.—yellow clay and gravel; 69 ft.—sandy clay; depth of bore, 76 ft. Surface to 15 ft.—no gold; 15 ft. to 46 ft.—14 fine colours; 53 ft. to 59 ft.—3 fine colours.

*Bore 45.*

Position.—From Bore 48, 120 links bearing 21° 25' west of south. Surface level, 1,238 ft. (assumed datum).

At 0 ft.—old tailings; 1 ft. 6 in.—grey clay; 6 ft.—coarse gravel; 12 ft.—cemented gravel; 13 ft.—fine gravel; 18 ft.—clay and gravel; 21 ft.—wash stones; 25 ft.—stiff grey clay; 29 ft.—sandy clay; 55 ft.—bedrock; depth of bore, 57 ft. No gold below 25 ft.

*Bore 46.*

Position.—From Bore 48, 245 links bearing 21° 25' west of south. Surface level—1,237 ft. (assumed datum).

## PARISH OF EMBERTON.

## Bore 1.

Position.—From the north-west corner of allotment 3B, easterly in the bend of the road.

The following formations were encountered, commencing at the depths mentioned:—

At 0'—soil and clay; 9'—basalt; 102'—basaltic clay; 111'—basalt with decomposed bands; 128'—basalt; 229'—broken basalt; 232'—sandy clay and fine sand; 239'—fine gravel; 240'—volcanic tuff; 254'—very hard basalt; 340'—dark clay; 341'—sand with bands of fine gravel; 348'—wash; 349'—glacial (?); depth of bore 357 feet. Two colours of gold obtained in wash. Fresh water was struck at 55 feet, standing at 48 feet on completion of bore.

## WATER ANALYSIS.

Report No. M. 146/1939. Depth 48 feet.

	<i>Parts per 100,000.</i>
Chlorides .. .. .	14
Chlorides as sodium chloride .. .. .	23
Bicarbonates .. .. .	22
Carbonates .. .. .	Nil
Sulphates .. .. .	Nil

Total grains per gallon .. .. . 28

This water is suitable for stock, irrigation, and general domestic purposes.

## PARISH OF GORONG.

## Bore 1.

Position.—From the south-west corner of allotment 3, section 27, 314 links east, then 155 links north.

The following formations were encountered, commencing at the depths mentioned:—

At 0'—soil and clay; 5'—basalt with decomposed bands; 61'—basalt; 76'—basalt with decomposed bands; 79'—solid basalt; depth of bore 87 feet. Fair quality water struck at 76 feet, standing at 49 feet on completion of bore. Bailing 100 gallons per hour.

## OR (LAKE KAKYDRA-I)

## PARISH OF NUNTIN.—2

## Bore 2. 1939

For Bore 1, see Boring Records 1937, page 26.

Position.—From the south-west corner of allotment 86A, section 2, 11½ chains bearing south 40° east. (Eight miles east-north-east of Sale.) Surface level, 5 feet (approx.).

The following formations were encountered, commencing at the depths mentioned:—

At 0'—surface soil; 3'—sandy clay; 60'—coarse gravel; 62'—tough red clay; 228'—blue puggy clay; 260'—ligneous clay; 270'—blue and white clay; 315'—brown sand; 320'—white clay; 325'—brown and grey sand; 412'—gravel; 413'—sand; 430'—gravel; 432'—micaceous and fossiliferous sand; 610'—fossiliferous marl; 780'—sandy marl; 1,036'—fossiliferous marl; 1,057'—marl and limestone bands; 1,432'—soft marl; 1,507'—marl with limestone bands; 1,555'—clayey marl; 1,709'—marl with hard limestone bands; 1,928'—clayey, fossiliferous marl with limestone bands; 2,073'—hard limestone; 2,074'—clayey marl with hard limestone bands; 2,273'

hard limestone; 2,275'—brown fossiliferous marl with hard limestone bands; 2,489'—clayey marl; 2,906'—glauconitic limestone; 2,921'—micaceous marl; 2,974'—glauconitic limestone; 2,997'—micaceous marl; 3,017'—glauconitic limestone; 3,029'—brown coal; 3,039'—soft marl; 3,041'—brown coal; 3,131'—ligneous clay; 3,136'—cemented sand; 3,139'—soft sand; 3,142'—cemented sand; 3,146'—brown coal; 3,151'—ligneous clay; 3,155'—brown coal; 3,166'—ligneous clay; 3,171'—brown coal; 3,177'—ligneous clay; 3,180'—brown coal; 3,193'—ligneous clay; 3,194'—brown coal; 3,205'—cemented sand; 3,213'—white ligneous clay; 3,215'—loose, grey sand; 3,223'—ligneous clay; 3,230'—cemented micaceous sand; 3,240'—loose grey sand; 3,245'—ligneous clay; 3,246'—grey sand; 3,296'—brown coal; 3,302'—ligneous clay; 3,315'—cemented sand; 3,333'—ligneous clay; 3,338'—white ligneous clay; 3,361'—brown ligneous clay; 3,370'—cemented sand; 3,375'—white sandy clay; 3,398'—cemented sand; 3,405'—sand with water-worn gravel; 3,429'—cemented sand; 3,439'—sand and gravel; 3,443'—white clay; 3,446'—6" greenish sandstone; 3,460'—brown sandstone; 3,461'—soft sand; 3,480'—felspathic sandstone; 3,495'—grey sandstone; 3,505'—green sandstone; 3,513'—very hard sandstone; depth of bore 3,560 feet. Water was struck at 3,139 feet.

The Commonwealth Palaeontologist reports the following sequence:—

Pleistocene and Upper Pliocene, 34' to 490'; Lower Pliocene (Kalimnan), 510' to 750'; Upper Miocene, at 760'; Middle Miocene, 770' to 1,665'; Lower Miocene, 1,670' to 2,336'; Upper Oligocene, 2,337' to 3,020'; Lower Oligocene, 3,025' to 3,480'.

## PARISH OF YALOKA.

(South of Ballan.)

## Bore 1.

Position.—From the north-west corner of allotment 4, section 12, 622 links east, then 270 links south.

The following formations were encountered, commencing at the depths mentioned:—

At 0'—surface soil and clay; 5'—basalt with decomposed bands; 71'—basalt; depth of bore 80 feet. Fair quality water struck at 71 feet. Bailing 90 gallons per hour.

## Bore 2.

Position.—From the north-east corner of allotment 5, section 12, 1,146 links south, then 87 links west.

At 0'—soil and clay; 4'—basalt; 18'—basalt with decomposed bands; 62'—hard basalt; depth of bore 70 feet. Fair quality water struck at 59 feet, standing at 55 feet on completion of bore. Bailing more than 130 gallons per hour.

## Bore 3.

Position.—From the south-west corner of allotment 19, section 16, 525 links west, then 53 links north.

At 0'—soil and clay; 7'—basalt; 63'—basalt with decomposed bands; 85'—stiff clay; 96'—sandy clay; 105'—white clay with stiff bands of sandy ligneous clay; 156'—ligneous clay with bands of brown coal; 168'—stiff grey clay; 176'—ligneous clay with bands of brown coal; depth of bore 242 feet. No water in bore.