

Site 1.

Bandajuma Sowa

SP

17

BH9

29/03/16

Drilling and Construction of Bore hole.

G.P.S.

N = 207156

E = 837996

No	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	6.49	6.51	Top soil
2	4.6 - 9.2	6.54	6.56	clay sand
3	9.2 - 13.8	7.39	7.50	granite
4	13.8 - 18.4	7.52	8.03	✓ ✓
5	18.4 - 23.0	8.05	8.15	✓ ✓
6	23.0 - 27.6	8.16	8.28	granite
7	27.6 - 32.2	8.30	8.42	✓
8	32.2 - 36.8	8.50	9.02	
9	36.8 - 41.4	9.04	9.28	Bore hole dry.
10	41.4 - 46.0	9.30	9.45	✓ ✓
11	46.0 - 50.6	9.47	9.58	✓ ✓
12	50.6 - 55.2	10.00	10.16	granite
13	55.2 - 59.8	10.18	10.29	✓ ✓
14	59.8 - 64.4	10.32	10.45	
15	64.4 - 69.0	10.47	10.55	granite grey
16	69.0 - 73.6	10.57	11.08	✓ ✓
17	73.6 - 78.2	11.10	11.20	✓ ✓
18	78.2 - 82.8	11.22	11.30	granite
19	82.8 - 87.4	11.32	11.42	✓ ✓
20	87.4 - 92.0	11.44	12.05	✓ ✓
				92 m

Dry Bore hole.

BH 10

Bandajuma Sowa

SP

19

Site = 2

29/03/16 - 30/03/16

GPS

N = 207160

E = 837900

Drilling and Construction of Bore hole

No	(M) Meters	Time		Description of soil Samples.
		From	To	
1	0 - 4.6	14.38	14.40	Top soil
2	4.6 - 9.2	14.42	14.44	Clay
3	9.2 - 13.8	14.46	14.52	Clay sand
4	13.8 - 18.4	16.05	16.14	granite Fracture
5	18.4 - 23.0	17.23	17.35	✓ ✓
6	23.0 - 27.7	07.23	7.35	
7	27.7 - 32.2	07.37	7.52	✓ ✓
8	32.2 - 36.8	07.54	8.08	
9	36.8 - 41.4	8.11	8.25	Fracture granite
10	41.4 - 46.0	8.27	8.42	✓ ✓
11	46.0 - 50.6	8.45	9.00	✓ ✓
12	50.6 - 55.2	9.02	9.16	✓ ✓
13	55.2 - 59.8	9.19	9.34	
14	59.8 - 64.4	9.37	9.51	granite
				64.4m

7

BH 10

Bandajuma Sowa

17

Site = 2

29/03/16 - 30/03/16

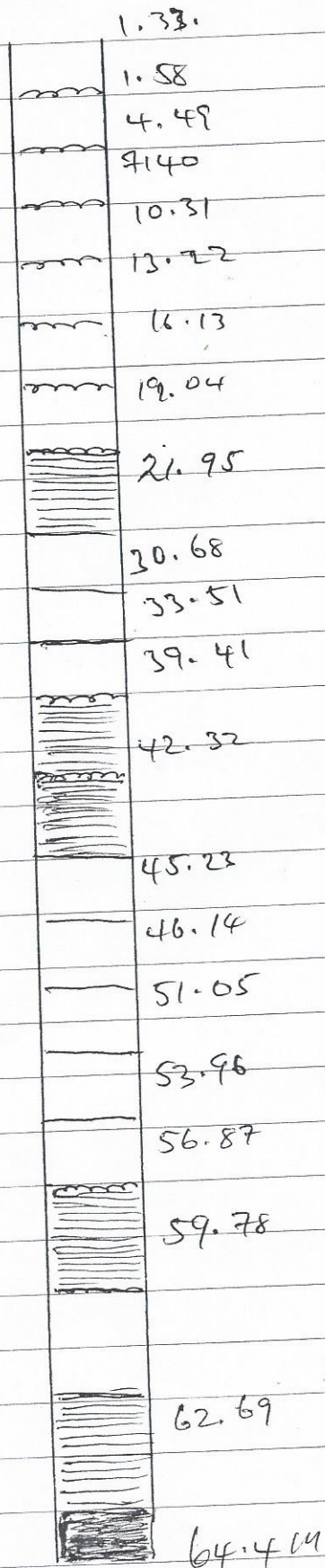
GPS

N = 207160

E = 837900

Drilling and Construction of Bore hole

No	(M) Meters	Time		Description of soil Samples.
		From	To	
1	0 - 4.6	14.38	14.40	Top soil
2	4.6 - 9.2	14.42	14.44	Clay
3	9.2 - 13.8	14.46	14.52	Clay sand
4	13.8 - 18.4	16.05	16.14	granite Fracture
5	18.4 - 23.0	17.23	17.35	✓ ✓
6	23.0 - 27.7	07.23	7.35	
7	27.7 - 32.2	07.37	7.52	✓ ✓
8	32.2 - 36.8	07.54	8.08	
9	36.8 - 41.4	8.11	8.25	Fracture granite
10	41.4 - 46.0	8.27	8.42	✓ ✓
11	46.0 - 50.6	8.45	9.00	✓ ✓
12	50.6 - 55.2	9.02	9.16	✓ ✓
13	55.2 - 59.8	9.19	9.34	
14	59.8 - 64.4	9.37	9.51	granite
				64.4m



gravel part = 10m

Seal 8m.

$$Q = 3.5 \text{ m}^3/\text{h}$$

The develop and clean

in 1. 1. 1. 1. sand and

Zimmi Town

SP

21

BH 11

31/03/16 - 01/04/16

Drilling and Construction of Bore hole.

G.P.S

N = 245069

E = 808598

No	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	14.38	14.40	Top Soil
2	4.6 - 9.2	14.45	14.47	clay
3	9.2 - 13.8	14.49	14.50	clay sand
4	13.8 - 18.4	14.52	14.55	Fracture rock/granite
5	18.4 - 23.0	14.57	15.03	✓ ✓
6	23.0 - 27.6	07.23	07.38	✓ ✓
7	27.6 - 32.2	07.41	07.56	
8	32.2 - 36.8	07.58	8.13	✓ ✓
9	36.8 - 41.4	8.15	8.31	granite Fracture
10	41.4 - 46.0	8.35	8.50	✓ ✓
11	46.0 - 50.6	8.52	9.06	✓ ✓
12	50.6 - 55.2	9.08	9.23	✓ ✓
13	55.2 - 59.8	9.24	9.39	granite
14	59.8 - 64.4	9.41	9.59	
15	64.4 - 69.0	10.02	10.22	fracture rock.
16	69.0 - 73.6	10.27	10.43	✓ ✓
17	73.6 - 78.2	10.47	11.01	✓ ✓
18	78.2 - 82.8	11.09	11.23	✓ ✓
				82.8m.



gravel pack = 18m

Seal = 15m

Water over 3,500 lph.

82.8m

The well was develop and the water was clean. Sanitary Seal was with

BH 12

Faird

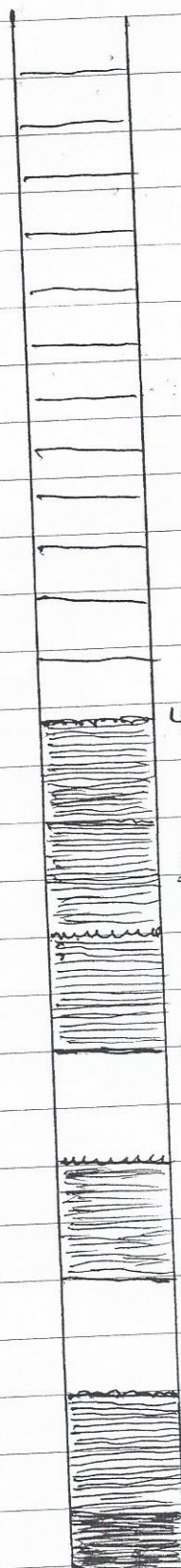
GPS
N=23401
E=784501

SP 23

2/04/16

Drilling and Construction of Bore hole.

No	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0-4-6	7.08	7.06	top soil
2	4.6-9.2	7.08	7.14	clay
3	9.2-13.8	7.49	8.01	clay sand
4	13.8-18.4	8.03	8.14	granite
5	18.4-23.0	8.16	8.27	✓ ✓
6	23.0-27.6	8.29	8.49	✓ ✓
7	27.6-32.2	8.42	8.54	granite
8	32.2-36.8	8.57	9.08	✓ ✓
9	36.8-41.4	9.10	9.23	✓ ✓
10	41.4-46.0	9.25	9.38	Fracture granite
11	46.0-50.6	9.40	9.55	✓ ✓
12	50.6-55.2	9.58	10.08	fracture
13	55.2-59.8	10.10	10.26	✓
14	59.8-64.4	10.28	10.33	granite
				64.4m



gravel pack = 7

Sealing = 5

The water is over
6,000 lph. 43.

The well develop and the water
was clean.

BH 14

Gbaa PHU
Site No 1.

SP

3/04/16 - 4/04/16

GPS

N = 253110

E = 804756

Drilling and Construction of Bore hole.

No	(M)	Time		Description of Soil Samples.
	Meters	From	To	
1	0 - 4.6	16.00	16.03	Top soil
2	4.6 - 9.2	16.12	16.15	Laterite
3	9.2 - 13.8	16.20	16.23	Clay sand
4	13.8 - 18.4	16.25	16.30	granite
5	18.4 - 23.0	07.04	07.09	✓ ✓
6	23.0 - 27.6	07.22	07.32	granite
7	27.6 - 32.2	07.34	07.38	✓ ✓
8	32.2 - 36.8	07.40	07.44	
9	36.8 - 41.4	7.46	7.57	✓ ✓
10	41.4 - 46.0	7.59	8.08	granite
11	46.0 - 50.6	8.10	8.21	✓ ✓
12	50.6 - 55.2	8.23	8.34	✓ ✓
13	55.2 - 59.8	8.36	8.47	granite
14	59.8 - 64.4	8.50	9.00	✓ ✓
15	64.4 - 69.0	9.02	9.25	✓ ✓
				Dry hole.
				70m Bore hole Dry.

BH 15

Gbaa. PH 4
site No 2

LD

24104116.

G P S

$N = 253183$

$$E = 80\ 47\ 95.$$

Drilling and Construction of Bore hole.

Drilling and Construction		TIME		Description of Soil Samples.
(M)		From	To	
NO	Meters			
1	0-4.6	11.34	11.44	Top soil
2	4.6-9.2	11.46	11.49	clay
3	9.2-13.8	11.51	11.57	clay sand
4	13.8-18.4	12.32	12.40	granite
5	18.4-23.0	12.42	12.48	✓ ✓
6	23.0-27.6	12.50	12.59	granite
7	27.6-32.2	13.02	13.20	✓ ✓
8	32.2-36.8	13.43	13.54	✓ ✓
9	36.8-41.4	13.56	14.04	granite
10	41.4-46.0	14.06	14.16	✓ ✓
11	46.0-50.6	14.18	14.28	granite
12	50.6-55.2	14.30	14.40	✓ ✓
13	55.2-59.8	14.42	14.52	✓ ✓
14	59.8-64.4	14.54	15.04	granite
				Dry hole.
				64.4 m

Dry hole.

64.4 m

Dry bore hole

BH 16 Gbaa Community

29

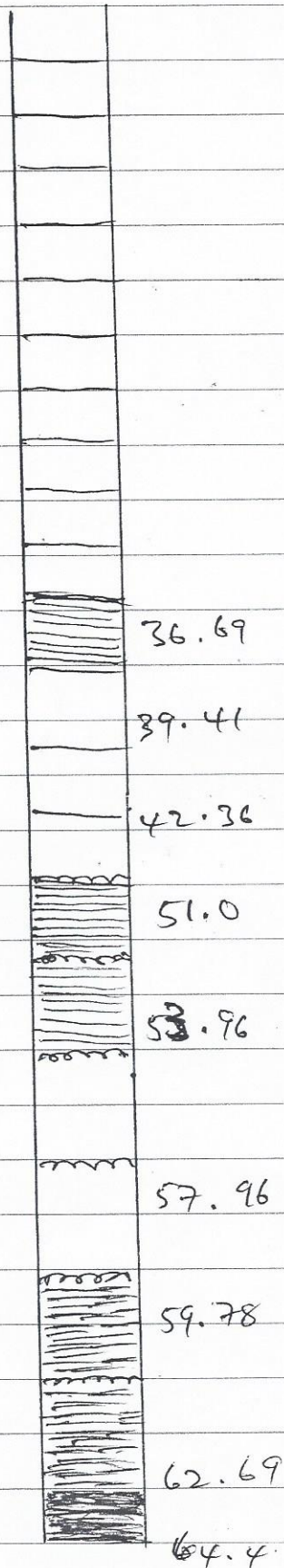
5/04/16

G P S

$$N = 253682$$
$$E = 804660$$

Drilling and Construction of Bore hole.

[illegible]



gravel park = 19 m
Sealing 16 m

Water over 3,500 lph.

The water develop and it was clean
Sanitary seal with bentonite, sand and cement

31

SP

Futa Pejeh Town

BH 17

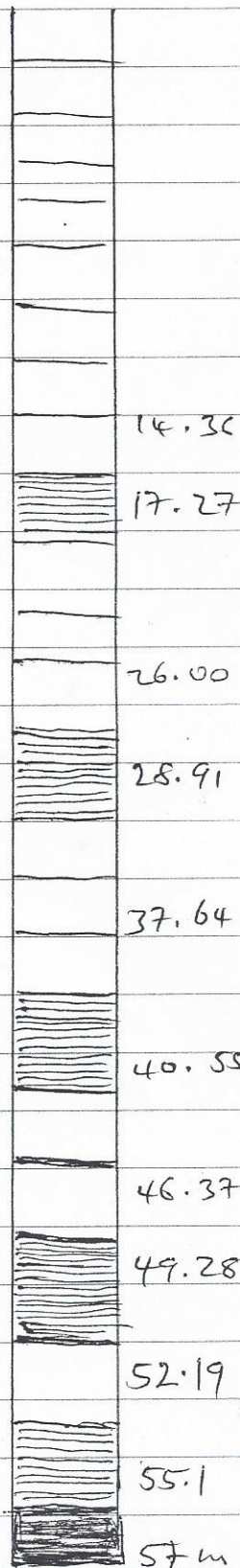
$$7 \overline{) 04116}$$

G P S

$$N = 215907$$
$$E = 836478$$

Drilling and Construction of Bore hole.

[illegible]



gravel pack = 11m

Sealing = 9m

Water (H_2O) over 15,000 lph.

14.30

17.27

26.00

28.91

37.64

40.55

46.37

49.28

52.19

55.1

57m

Development of the well done and
the was clean, Sanitary seal with

Hill Station Pujehun Town 33

G.P.S

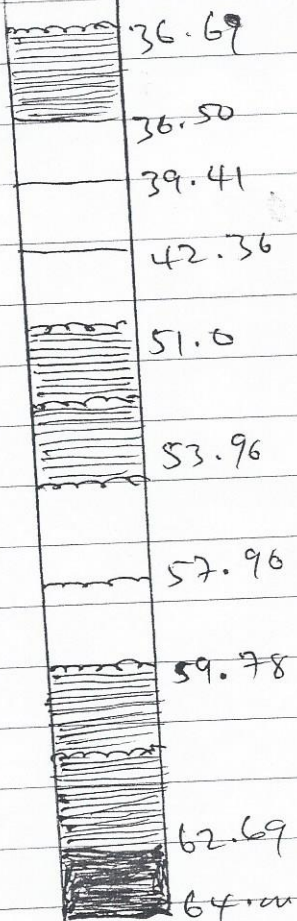
$$N = 198977$$
$$E = 814878$$

Drilling and Construction of Bore hole.

100

gravel pack = 19m
Sealing = 16m

H₂O Over 3,500 lph.



The well develop and the was clean
sanitary seal with bentonite, sand and cement.

BH20

Blama Massaquoi
TownSP 37
10/04/16

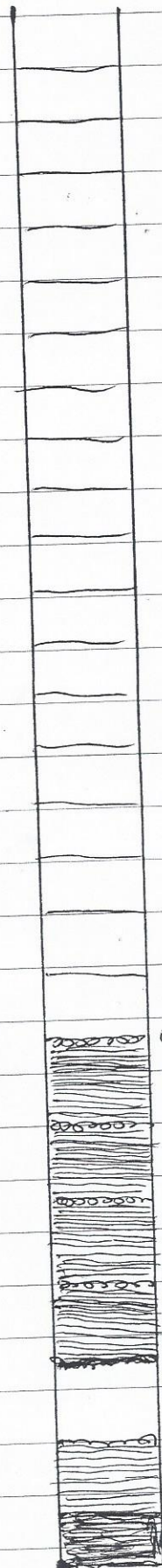
GPS

N = 209070.

E = 812877.

Drilling and Construction of Bore holes.

No	(M)	Time		Description of Soil Samples.
	Meters	From	To	
1	0-4-6	8.01	8.03	Top soil
2	4.6-9.2	8.06	8.09	Clay sand
3	9.2-13.8	8.11	8.19	Hard rock at 10.51m
4	13.8-18.4	9.09	9.17	granite
5	18.4-23.0	9.19	9.31	✓ ✓
6	23.0-27.6	9.34	9.46	✓ ✓
7	27.6-32.2	9.49	10.03	granite
8	32.2-36.8	10.06	10.26	✓ ✓
9	36.8-41.4	10.22	10.36	✓ ✓
10	41.4-46.0	10.38	10.49	✓ ✓
11	46.0-50.6	10.52	11.02	H ₂ O Fracture granite grey
12	50.6-55.2	11.05	11.21	✓ ✓ ✓
13	55.2-59.8	11.23	11.40	Fracture granite with H ₂ O
14	59.8-64.4	11.42	12.00	granite
				64.4 m



gravel pack = 24

Sealing = 22

H₂O over 7,000 lph

45.23

56.92

59.78

62.69

64.4

The well was develop and the

BH 27

Njala

(SP)

49

22/4/16

GPS = N = 203861

E = 796426

Drilling and Construction of Bore hole.

		Time		
		From	To	
1	0 - 4.6	15.25	15.27	Top soil
2	4.6 - 9.2	15.30	15.33	laterite
3	9.2 - 13.8	15.36	15.40	clay sand red.
4	13.8 - 18.4	16.33	16.38	granite
5	18.4 - 23.0	16.39	16.49	✓ ✓
6	23.0 - 27.6	16.52	16.59	✓ ✓
7	27.6 - 32.2	17.01	17.10	granite
8	32.2 - 36.8	6.30 Am	6.45	✓ ✓
9	36.8 - 41.4	6.48	7.02	✓ ✓
10	41.4 - 46.0	7.05	7.20	granite
11	46.0 - 50.6	7.22	7.33	✓ ✓
12	50.6 - 55.2	7.36	7.47	✓ ✓
13	55.2 - 59.8	7.49	8.04	granite
14	59.8 - 64.4	8.07	8.27	✓ ✓
15	64.4 - 69.0	8.23	8.35	✓ ✓
16	69.0 - 73.6	8.38	8.50	✓ ✓
17	73.6 - 78.2	8.52	9.04	granite
18	78.2 - 82.8	9.06	9.18	✓ ✓
19	82.8 - 87.4	9.20	9.36	Granite
20	87.4 - 92.0	9.38	9.54	granite

92 m

Dry Bore hole.

Dry Bore hole.

G.P.S N =
E

Njala

SP

65

29/4/16.

BH. 33

Site 2.

GPS = N = 203862
E = 796427Drilling and Construction of
Borehole.

No	(M) Meters	From	Time		Description of Soil Sample.
			To		
1	0 - 4.6	10.51	10.53		Top soil
2	4.6 - 9.2	11.02	11.08		Clay
3	9.2 - 13.8	11.50	12.04		Clay sand red
4	13.8 - 18.4	12.05	12.20		granite
5	18.4 - 23.0	12.22	12.34		✓ ✓
6	23.0 - 27.6	12.36	12.51		✓ ✓
7	27.6 - 32.2	12.53	13.05		granite
8	32.2 - 36.8	13.05	13.20		✓ ✓
9	36.8 - 41.4	13.53	14.06		✓ ✓
10	41.4 - 46.0	14.08	14.22		✓ ✓
11	46.0 - 50.6	14.24	14.39		✓ ✓
12	50.6 - 55.2	14.41	14.54		granite
13	55.2 - 59.8	14.56	15.10		✓ ✓
14	59.8 - 64.4	16.26	16.48		✓ ✓
15	64.4 - 69.0	16.51	17.02		granite
16	69.0 - 73.6	17.04	17.16		✓ ✓
17	73.6 - 78.2	17.18	17.30		✓ ✓
18	78.2 - 82.8	17.32	17.43		✓ ✓
19	82.8 - 87.4	17.45	17.54		granite
20	87.4 - 92.0	17.59	18.14		✓ ✓

92 m

dry Bore hole.

BH 38 Nyala.
Site 3

Site 3

8/05/16

70

$$GPS = N = 203860$$
$$E = 7964.21$$

Drilling and Construction of Bore hole

[illegible]

	0.58
	2.33
	5.24
	8.15
	11.06
	13.97
	16.88
	19.79
	22.77
	25.61
	28.52
	31.42
	34.34
	37.25
	40.16
	43.07
	45.98
	48.89
	50.6

Gravel Park = 10
Sealing = 8

Klater (H_2O) over 2,000 us lph

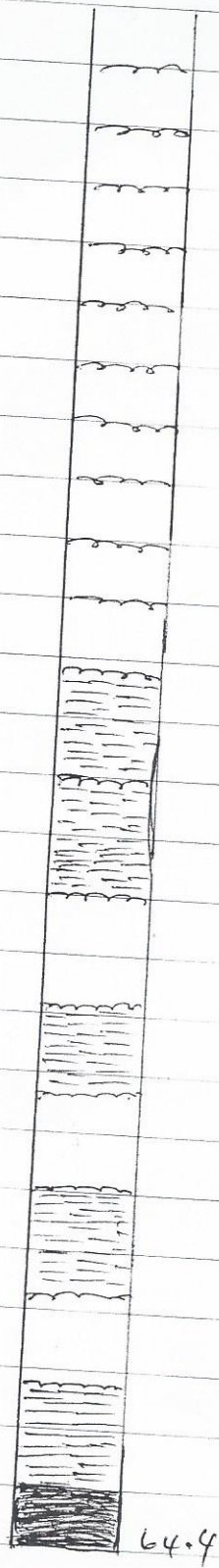
Drilling Location = 14 Batallon Puyehun.

SP

+ BH 1 GPS N = 67.22 259 19/03/16.
E = 611.43.546

Drilling and Construction of Bore hole.

ID	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	10.16	10.19	Top Soil/Laterite
2	4.4 - 9.2	10.21	10.23	clay sand
3	9.2 - 13.8	10.24	10.26	clay sand redish
4	13.8 - 18.4	10.27	10.38	✓ ✓
5	18.4 - 23.0	11.54	12.06	Granite
6	23.0 - 27.6	12.09	12.23	granite
7	27.6 - 32.2	12.27	12.40	
8	32.2 - 36.8	12.43	12.57	Fracture rock
9	36.8 - 41.4	13.00	13.14	✓ ✓
0	41.4 - 46.0	13.17	13.29	✓ ✓
1	46.0 - 50.6	13.33	13.48	Fracture rock
2	50.6 - 55.2	13.51	14.04	✓ ✓
3	55.2 - 59.8	14.06	14.19	✓ ✓
4	59.8 - 64.4	14.30	14.49	✓ ✓
				64.4 m



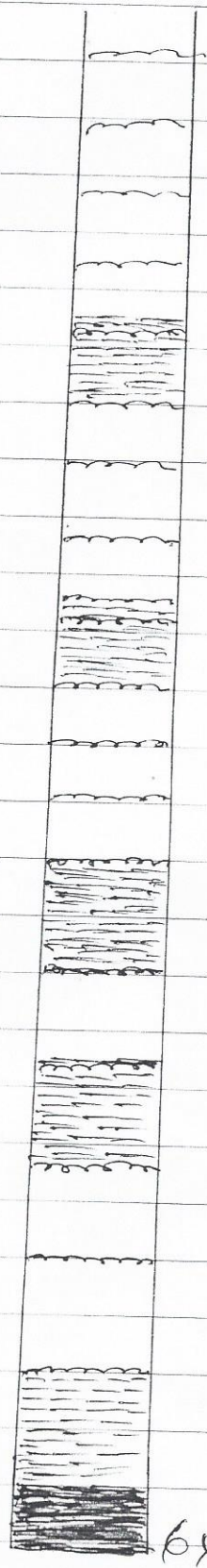
gravel pack up to = 24 m
Seal = 20 m

The well was developed and the is
over 7,000 lph, Sanitary seal was do
with bentonite and cement for
Contamination.

* Location = Massam Kpalca BH2 SP 3
 GPS N = 07. 21. 190
 W = 011. 41. 243. 21/03/16

Drilling and Construction of Borehole.

No	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	10.29	10.30	Top Soil
2	4.6 - 9.2	10.32	10.40	clay
3	9.2 - 13.8	11.36	11.49	clay sand
4	13.8 - 18.4	11.52	12.05	sand clay
5	18.4 - 23.0	12.07	12.21	✓ ✓
6	23.0 - 27.6	12.25	12.40	granite
7	27.6 - 32.2	12.41	12.57	✓ ✓
8	32.2 - 36.8	12.59	13.14	Fracture rock
9	36.8 - 41.4	13.16	13.29	✓ ✓
10	41.4 - 46.0	13.31	13.45	✓ ✓
11	46.0 - 50.6	13.47	14.01	
12	50.6 - 55.2	14.03	14.18	✓ ✓
13	55.2 - 59.8	14.21	14.36	
14	59.8 - 64.4	14.47	15.06	64.4 m



gravel park = 16 m
seal = 14 m

The well was develop and it was clean.

The water in the well is over 3,600 lph
Sanitation seal with bentonite, sand and cement
for top water contamination.

Y 58 BH 3

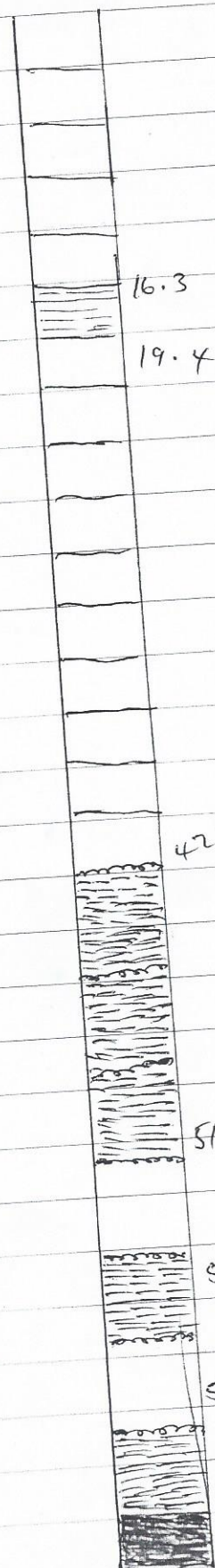
Location Karlu

G.P.S. N=07°14.41'
W 011°45.843'
22/03/16 5

Drilling and Construction of Borehole.

	(M) Meters	Time		Description of soil Samples.
		From	To	
1	0.4-6	7.57	8.00	Top soil / Loose soil
2	4.6-9.2	8.01	8.05	laterite
3	9.2-13.8	8.06	8.09	clay sand redish
4	13.8-18.4	8.12	8.18	Fracture rock
5	18.4-23.0	8.20	8.26	granite dark grey
6	23.0-27.6	8.30	8.45	✓ ✓
7	27.6-32.2	8.47	8.54	✓ ✓
8	32.2-36.8	8.59	9.10	
9	36.8-41.4	9.12	9.32	
10	41.4- 50 46.0	9.35	9.47	Fracture rock
11	50.6 46-50.6	9.50	9.57	✓ ✓
12	50.6-58.2	10.02	10.15	granite
13	58.2-59.8	10.18	10.27	✓ ✓
14	59.8-64.4	10.30	10.40	✓ ✓

64.4 m



gravel pack 13m
seal 10

H₂O over 1,938 lph.

The well was develop and sanitation
seal with bentonite, sand and cement
The water was develop and it was

BH 6 (Tangahun) Sahn Malen (SP)

11

25/03/16

GPS - N-07° 26' 32"

W-011° 50' 25"

Drilling and Construction of Borehole.

No	(M)	TIME		Description of Soil Samples.
	Meters	From	To	
1	0 - 4.6	7.30	7.34	Top soil
2	4.6 - 9.2	7.35	7.43	clay
3	9.2 - 13.8	7.44	7.49	clay sand
4	13.8 - 18.4	8.02	8.44	sand
5	18.4 - 23.0	8.45	9.00	granite block
6	23.0 - 27.6	9.02	9.15	✓ ✓
7	27.6 - 32.2	9.25	9.31	granite Fracture
8	32.2 - 36.8	9.35	9.46	✓ ✓
9	36.8 - 41.4	9.48	9.54	granite
10	41.4 - 46.0	10.15	10.30	Fracture granite
11	46.0 - 50.6	10.35	10.42	
12	50.6 - 55.2	10.49	11.02	
13	55.2 - 59.8	11.20	11.44	
14	59.8 - 64.4	12.00	12.30	
				64 m

The was develop and the water was clean, Sanitary Seal with bentonite sand and Cement.
The water is over 25,000 lph.



gravel pack = 18m
Seal = 15m

NC
1
2
3
4

The well was develop and the water was clean, The was over 25,000 lph. Sanitary Seal with bentonite, sand and cement.

BH 4

Manjama.

GPS = N 07 15.379
W 011 45.300Drilling and Construction of
Bore hole

23/03/16 7

No	M Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	13.24	13.26	Top soil
2	6.4 - 9.2	13.31	13.36	loose soil / Laterite
3	9.2 - 13.8	15.32	15.44	clay sand
4	13.8 - 18.4	15.46	16.05	granite
5	18.4 - 23.0	16.10	16.27	✓ ✓
6	23.0 - 27.6	16.29	16.40	Fracture rock
7	27.6 - 32.2	16.48	17.20	✓ ✓
8	32.2 - 36.8	17.22	17.39	✓ ✓
9	36.8 - 41.4	17.43	18.00	granite
10	41.4 - 46.0	18.02	18.19	Fracture rock black
11	46.0 - 50.6	18.20	18.31	✓ ✓
12	50.6 - 55.2	18.33	18.42	
13	55.2 - 59.8	18.44	18.54	
14	59.8 - 64.4			
				64.4 m

Drainage should be 2.5 m.

Height of well - 1.30 m

BH 28

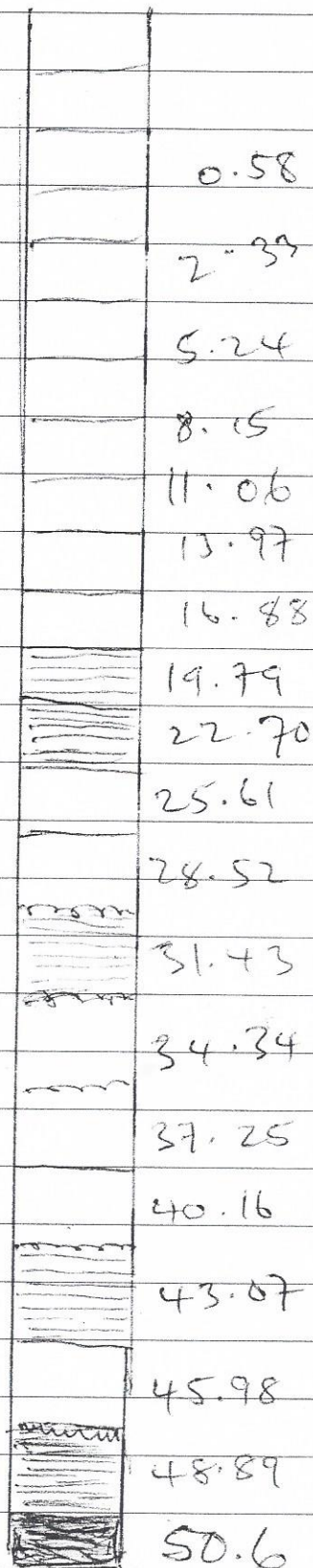
Barveh

23/4/16

G.P.S = N = 205046
E = 796831

Drilling and Construction of Bore hole.

	(M)	Time		Description of Soil Sam
		From	To	
1	0 - 4.6	11.49	11.52	Top Soil / Latonite
2	4.6 - 9.2	11.54	11.57	Clay
3	9.2 - 13.8	12.00	12.02	Clay sand
4	13.8 - 18.4	12.59	13.10	granite hard.
5	18.4 - 23.0	13.14	13.27	Fracture, granite +
6	23.0 - 27.6	13.29	13.42	Fracture granite rock.
7	27.6 - 32.2	13.44	13.55	Fracture rock
8	32.2 - 36.6	13.57	14.09	✓
9	36.6 - 41.4	14.12	14.28	Fracture rock.
10	41.4 - 46.0	14.31	14.48	✓
11	46.0 - 50.6	14.50	15.06	Fracture.
12	50.6 - 55.2			
13	55.2 - 59.8			
14	59.8 - 64.4			
				50.6 m



gravel Park = 13

Sealing = 10

(H₂O) Water over 3000

BH-36.

05/05/16

Gobaru New Site

GPS = N = 815091.
E = 200639.

Drilling and Construction of Bore hole.

No	(M) Meters	Time		Description of Soil Samples
		From	To	
1	0 - 4.6	6.32	6.33	Top soil
2	4.6 - 9.2	6.34	6.37	clay
3	9.2 - 13.8	6.38	6.41	Clay sand
4	13.8 - 18.4	6.43	6.49	Rock 17.23
5	18.4 - 23.0	7.53	8.08	granite
6	23.0 - 27.6	8.09	8.22	✓
7	27.6 - 32.2	8.24	8.40	Fracture rock
8	32.2 - 36.8	8.42	8.53	✓ ✓
9	36.8 - 41.4	8.55	9.09	granite hard
10	41.4 - 46.0	9.10	9.28	H ₂ O Fracture.
11	46.0 - 50.6	9.30	9.49	granite hard
12	50.6 - 55.2	9.51	10.14	✓ ✓
13	55.2 - 59.8	10.17	10.38	✓ ✓
14	59.8 - 64.4	10.40	10.58	✓ ✓
15	64.4 - 69.0	11.30	11.47	H ₂ O granite
16	69.0 - 73.6	11.49	12.08	granite
17	73.6 - 78.6	12.09	12.33	✓ ✓
18	78.6 - 82.8	12.35	12.57	granite
19	82.8 - 87.4	12.59	13.21	✓
20	87.4 - 92.0	13.23	13.41	✓

92.0 m.

BH-29

Suako

52

24/4/16

GPS

N = 207401

E = 794774.

Drilling and Construction of Bore hole.

NO	(M)	Time		Description of
	Meters	From	To	Soil Samples.
1	0 - 4.6	6.38	6.42	Top soil/Laterite
2	4.6 - 9.2	6.44	6.47	Clay Reddish
3	9.2 - 13.8	6.51	6.54	Sand Clay
4	13.8 - 18.4	7.37	7.41	Granite
5	18.4 - 23.0	9.32	9.37	Fracture H ₂ O
6	23.0 - 27.6	9.38	9.45	H ₂ O Fracture
7	27.6 - 32.2	9.50	10.00	Granite
8	32.2 - 36.6	10.02	10.14	✓
9	36.6 - 41.4	10.16	10.25	✓ ✓
10	41.4 - 46.0	10.27	10.36	Granite Fractures
11	46.0 - 50.6	10.38	10.48	/ ✓
12	50.6 - 55.2			
13	55.2 - 59.8			
14	59.8 - 64.4			
				50.6 m

0.50

2.33

5.24

8.15

11.06

13.97

16.88

19.79

22.27

25.61

28.22

31.43

34.34

37.75

40.16

43.07

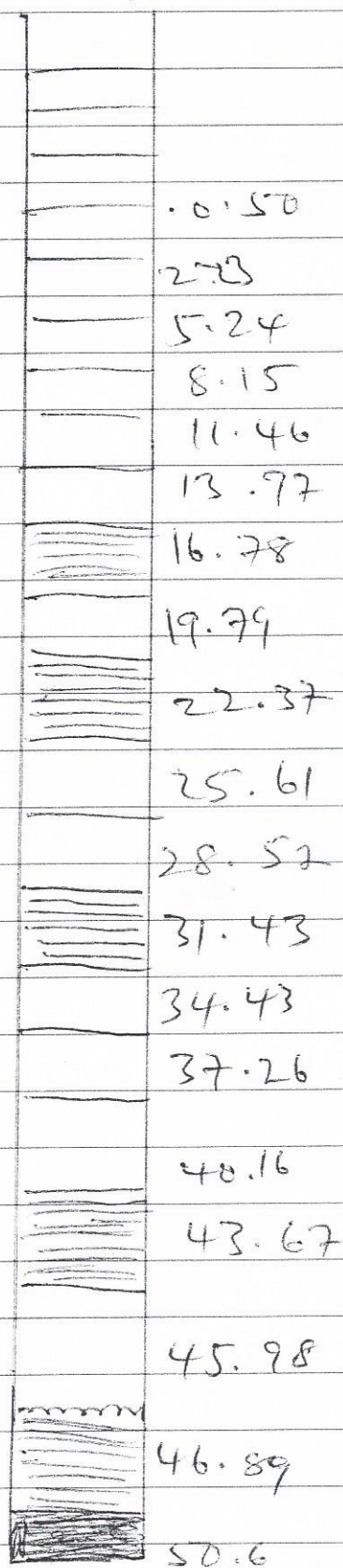
45.98

48.89

50.6

gravel part = 16m
 sealing = 13m

H₂O over 5000 lph.



gravel park 10m

Seal = 7 m

H₂O over
2,500 lph.

$$G_{PS} = \frac{N}{E} =$$

Drilling and Construction of Bore hole.

NO	(M) Meters	Time		Description of Soil Sample
		From	To	
1	0 - 4.6	6.49	6.57	
2	4.6 - 9.2	7.52	6.57	
3	9.2 - 13.8	7.28	7.37	
4	13.8 - 18.4	7.40	7.50	
5	18.4 - 23.0	7.52	8.04	
6	23.0 - 27.6	8.06	8.17	
7	27.6 - 32.2	8.19	8.29	Fracture.
8	32.2 - 36.8	8.32	8.43	H ₂ O
9	36.8 - 41.4	8.45	9.01	9.17
10	41.4 - 46.0	9.20	9.44	
11	46.0 - 50.6	9.34	9.40	
				50.6

t-50

2.33

5.24

18.15

11.04

13.97

16.18

gravel park 19

19.79

Seal 16 m

22.27

25.61

28.52

31.43

H₂O over 20,000
lph.

34.34

37.25

43.07

45.98

48.89

50.6

BH 32

Wawahun Sewa 27/4/16

GPS = N = 220250
E = 844470

PHU.

Drilling and Construction of Bore hole

	(M)	Time		Description of Soil Sample
		From	To	
1	0 - 4.6	7.30	7.33	
2	4.6 - 9.2	7.34	7.37	
3	9.2 - 13.8	7.39	7.42	Fracture rock, 15.8 m
4	13.8 - 18.4	8.48	8.54	
5	18.4 - 23.0	9.02	9.15	H ₂ O Fracture
6	23.0 - 27.6	9.17	9.27	granite
7	27.6 - 32.2	9.29	9.40	
8	32.2 - 36.6	9.41	9.51	
9	36.6 - 41.4	9.54	10.04	
10	41.4 - 46.0	10.06	10.17	Fracture gran
11	46.0 - 50.6	10.19	10.31	
12	50.6 - 55.2	10.33	10.57	
13	55.2 - 59.8			
				59.8 m

	1.70	
	1.19	
	4.1	
	7.01	
	9.92	
	12.83	
	15.74	gravel pack = 1
mmmm	18.65	Seal = 7m
mmmm	21.56	
mmmm	24.47	
	27.38	
mmmm	30.29	Water over
	33.2	2,000 cm lph
	36.11	
	39.02	
	41.43	
	44.84	
	47.75	
	50.66	
mmmm	53.57	
mmmm	56.48	
mmmm	59.8	

BH 3A

manbouma site 2

61

GPS. N = 209106
E = 804935

30/4/16

Drilling and Construction of
Bore hole

No	(M) Meters	Time		Description of soil sample.
		From	To	
1	0 - 4.6	9.53	11.54	Top Soil
2	4.6 - 9.2	11.55	11.58	Clay
3	9.2 - 13.8	11.59	12.03	Clay sand red
4	13.8 - 18.4	13.24	13.38	Rock 14.90m
5	18.4 - 23.0	13.40	14.00	granite
6	23.0 - 27.6	14.02	14.15	granite Fracture
7	27.6 - 32.2	14.17	14.35	✓ ✓
8	32.2 - 36.8	14.37	14.54	✓ ✓
9	36.8 - 41.4	14.35	16.46	✓ ✓
10	41.4 - 46.0	16.47	17.03	granite
11	46.0 - 50.6	17.06	17.27	✓ ✓
12	50.6 - 55.2	17.28	17.49	✓ ✓
13	55.2 - 59.8	17.52	18.15	✓ ✓
14	59.8 - 64.4	6.45	7.06	granite 1/05/16
15	64.4 - 69.0	7.08	7.29	✓ ✓
16	69.0 - 73.6	7.33	7.53	✓ ✓
17	73.6 - 78.6	7.57	8.17	Major Fracture
				73.6 m

H₂O 10,000 Lph

Seal ~~31~~ 32
gravel = ~~31~~ 34

63.69

66.55

69.46

72.37

75.28

78.19

78.6

GPS N = 201703
E = 813863

Yonni Township

Drilling and Construction of Bore hole.

63

BH 35

No	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	8.19	8.21	Top soil
2	4.6 - 9.2	8.23	8.25	clay sand
3	9.2 - 13.8	8.26	8.31	Rock 12.45m
4	13.8 - 18.4	9.02	9.21	granite fracture
5	18.4 - 23.0	9.24	9.38	✓ ✓
6	23.0 - 27.6	9.40	9.54	✓ ✓
7	27.6 - 32.2	9.59	10.11	granite
8	32.2 - 36.8	10.12	10.24	✓ ✓
9	36.8 - 41.4	10.26	10.39	Fracture granite
10	41.4 - 46.0	10.42	10.55	✓ ✓
11	46.0 - 50.6	10.58	11.13	
12	50.6 - 55.2	11.15	11.33	granite
13	55.2 - 59.8	11.35	11.53	Fracture granite
14	59.8 - 64.4	11.56	12.13	✓ ✓
				64.4 m

-1.23.

1.58.

4.49

7.40

10.31

13.22

16.13

19.04

21.95

24.86

27.77

30.68

33.59

36.50

39.41

42.32

45.23

48.14

51.05

55.96

56.76.

59.78

62.69

64.4

gravel park 10 m

Sealing - 8m.

(H₂O) Water over
6,000,000 l

BH 37

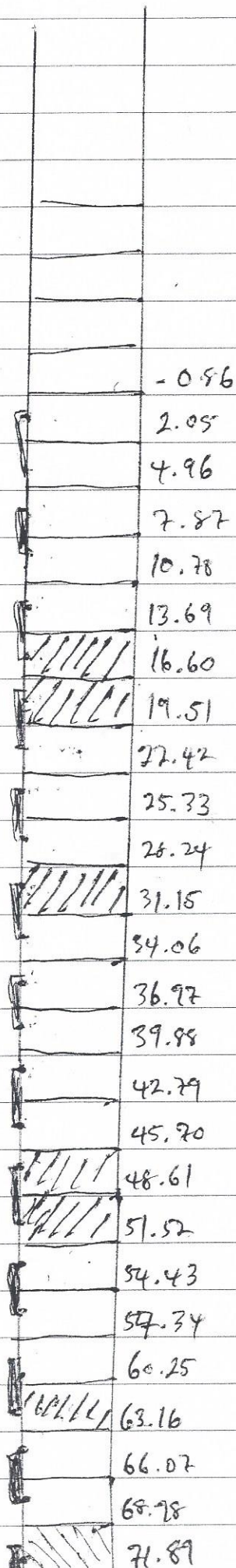
Foni Koth Town
Site No 3

06/05/16.

GPS = N = 810245
E = 214005

Drilling and Construction of Borehole.

No	(m) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	9.16	9.18	Top soil
2	4.6 - 9.2	9.19	9.21	Clay Sand
3	9.2 - 13.8	9.22	9.27	Rock, Granite
4	13.8 - 18.4	10.08	10.23	✓ ✓ hard
5	18.4 - 23.0	10.25	10.39	Fracture granite
6	23.0 - 27.6	10.41	10.55	✓ ✓
7	27.6 - 32.2	10.59	11.15	Fracture granite
8	32.2 - 36.8	11.16	11.33	granite hard
9	36.8 - 41.4	11.35	11.51	✓ ✓
10	41.4 - 46.0	11.52	12.09	✓ ✓
11	46.0 - 50.6	12.12	12.29	✓ ✓
12	50.6 - 55.2	12.31	12.47	granite hard
13	55.2 - 59.8	13.39	13.56	✓ ✓
14	59.8 - 64.4	13.58	14.14	Fracture Small
15	64.4 - 69.0	14.16	14.32	✓ ✓
16	69.0 - 73.6	14.34	14.50	granite

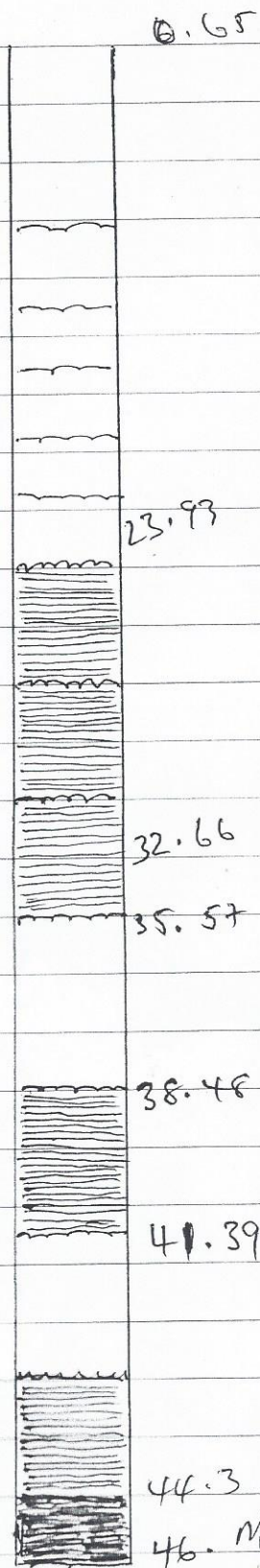


gravel park = 12m
Sealing = 10m

Fracture! 13-16

✓ : 27-30 } minor Fracture
✓ : 44-53 }
46-53 }

H₂O is over 1,500 ^{u3}ph



gravel park - 21
Seal - 18

Water was over 7,000 lph
and sanitary seal with bentonite,
sand and cement. The well was develop and
clean.

GPS $N = 07^{\circ} 15.125$
 $W = 011^{\circ} 46.684$

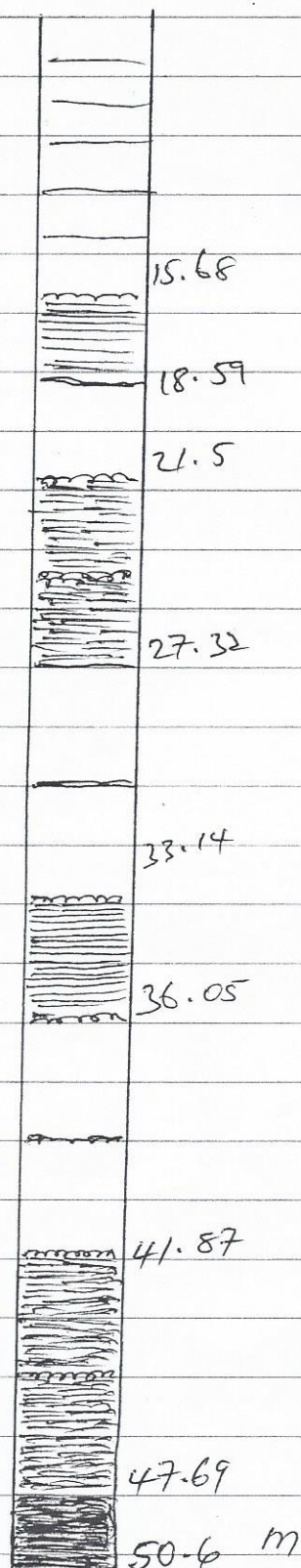
$$|N| = 011.46.684.$$

24/03/16

Bore hole.

9

No	(M) Meters	Time		Description of soil Samples.
		From	To	
1	0 - 4.6	7.55	7.57	Top soil / loose soil
2	4.6 - 9.2	8.01	8.03	Clay sand
3	9.2 - 13.8	8.04	8.10	Sand
4	13.8 - 18.4	9.40	9.58	granite Fracture
5	18.4 - 23.0	10.02	10.26	✓ ✓
6	23.0 - 27.6	10.28	10.44	granite Fracture
7	27.6 - 32.2	10.47	11.05	✓ ✓
8	32.2 - 36.8	11.08	11.21	✓ ✓
9	36.8 - 41.4	11.23	11.35	granite
10	41.4 - 46.0	11.36	11.53	✓ ✓
11	46.0 - 50.6	11.55	12.00	Fracture granite
12	50.6 - 55.2	12.02	12.12	
13	55.2 - 59.8	12.22	12.31	
14	59.8 - 64.4			
				50.6m



gravel pack - 13m
seal = 11m

Water over 6,000 lph

The well was develop and clean
Sanitary Seal with Bentonite, sand and
Cement.

X BH7

GBOYAMA

13

27/03/16

GPS:

N = 07° 31' 52.0"

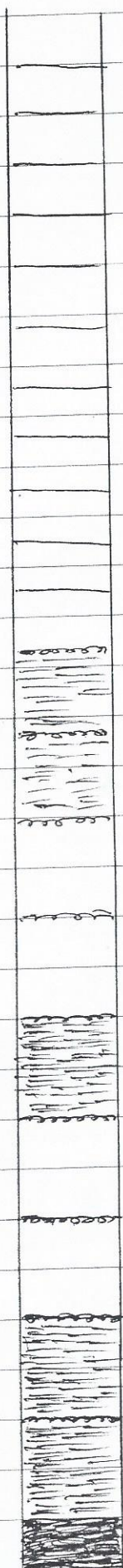
W = 011° 49' 20.4"

Drilling and Construction of Bore hole.

NO	(M) Meters	Time		Description of soil Samples
		From	To	
1	0 - 4.6	8.42	8.44	Top soil
2	4.6 - 9.2	8.47	8.51	clay redish
3	9.2 - 13.8	9.34	9.44	clay sand
4	13.8 - 18.4	9.46	10.00	granite
5	18.4 - 23.0	10.02	10.32	✓ ✓
6	23.0 - 27.6	10.18	10.36	✓ ✓
7	27.6 - 32.2	10.38	10.50	granite fracture black
8	32.2 - 36.8	11.08	11.21	granite
9	36.8 - 41.4	12.02	12.18	granite grey.
10	41.4 - 46.0	12.19	12.34	✓ ✓
11	46.0 - 50.6	12.35	12.38	✓ ✓
12	50.6 - 55.2	12.40	12.46	granite fracture
13	55.2 - 59.8	12.48	13.05	✓
14	59.8 - 64.4	13.08	13.30	✓
				60m

The well was develop and The water was clear.

The water is over 6,000 lph, Sanitary seal with bentonite, sand and cement.



gravel Park - 23m
seal = 20m

seal = 20m

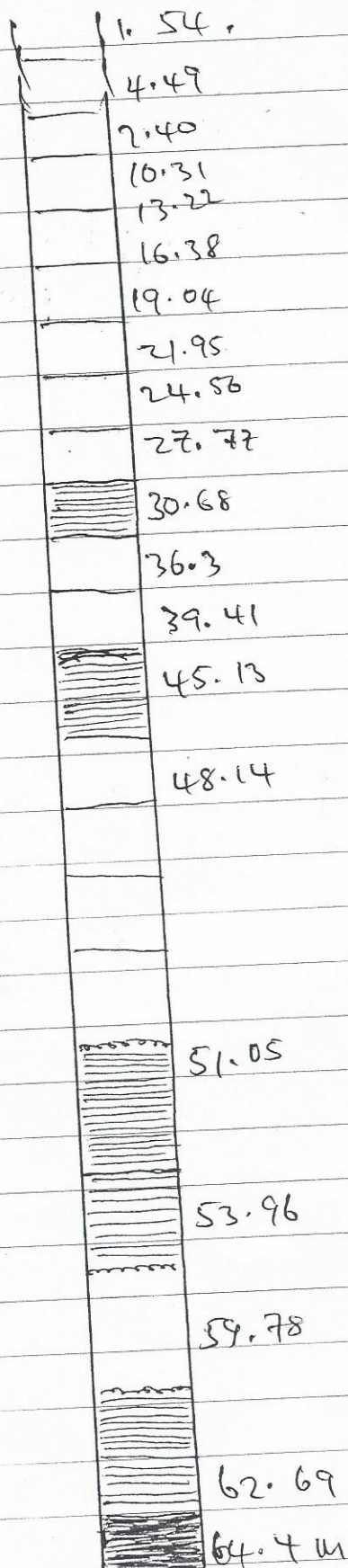
60 m

The well develop and the water was clean, The water is over 1000 lph sanitary and

28/03/16

Drilling and Construction of Bore hole.

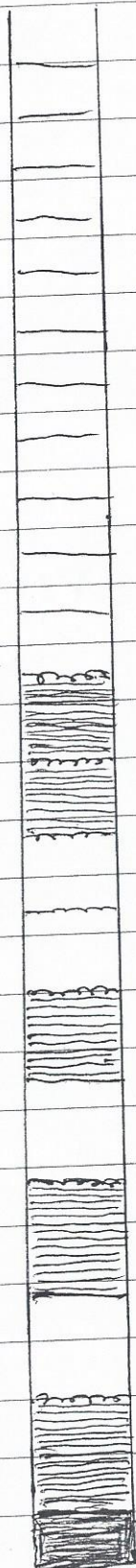
64.4 m



gravel Park - 16m
Seal - 14 m

The well Develop and the water was clean, Sanitary Seal with bentonite, Sand and Cement, The water is over 5,500 lp

$$E = 779659$$
[illegible]



gravel pack = 19m
sealing = 16m

Water (H_2O) over 4,500 lph

The well develop and water
was clean, sanitary seal with
bentonite, sand and cement.
The water is over 4,500 lph.

50.6m

BH 19

Yonni old Town
Pujehun.

35

9/04/16.

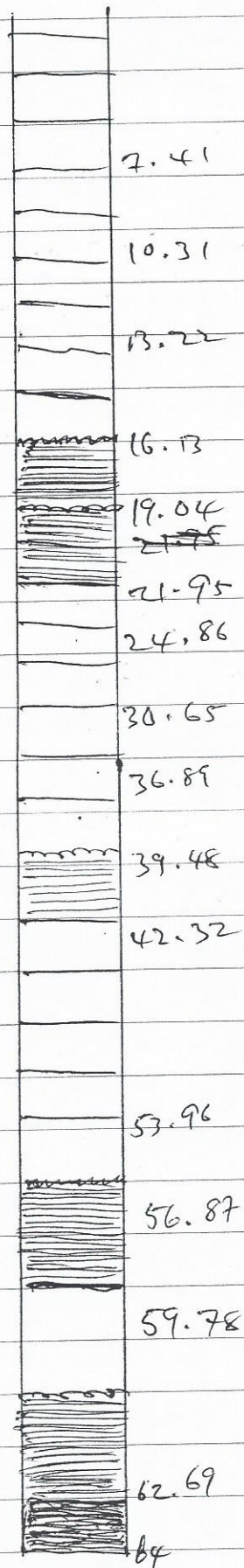
GPS

N = 201167

E = 814065.

Drilling and Construction of Bore holes.

No	(M)	Time		Description of Soil Samples.
	Meters	From	To	
1	0 - 4.6	7.30	7.33	Top soil
2	4.6 - 9.2	7.35	7.38	clay sand
3	9.2 - 13.8	7.45	7.51	clay sand red
4	13.8 - 18.4	8.48	9.00	granite Fracture.
5	18.4 - 23.0	9.03	9.19	✓ ✓
6	23.0 - 27.6	9.21	9.36	granite Fracture with H ₂ O
7	27.6 - 32.2	9.39	9.54	granite
8	32.2 - 36.8	9.58	10.13	✓ ✓
9	36.8 - 41.4	10.16	10.31	
10	41.4 - 46.0	10.34	10.51	
11	46.0 - 50.8	10.54	11.08	
12	50.8 - 55.2	11.12	11.22	
13	55.2 - 59.8	11.38	12.00	H ₂ O Fracture rock.
14	59.8 - 64.4	12.05	12.25	
				64.4 m



Gravel pack = 12m

Sealing = 10m

Water over 2,500 u3 Lph.

and the well was clean

BH 21

Fonikoh PH U.
Site No 1.

57

11/04/16

GPS.

N = ~~214096~~ 214096E = ~~810401~~ 810401

Drilling and Construction of Bore hole (one)

No	(M)	Time		Description of Soil Samples.
	Meters	From	To	
1	0 - 4.6	14.09	14.11	Top soil
2	4.6 - 9.2	14.13	14.24	Clay Sand red
3	9.2 - 13.8	14.26	14.30	granite
4	13.8 - 18.4	14.32	14.38	✓ ✓
5	18.4 - 23.0	15.40	15.56	✓ ✓
6	23.0 - 27.6	15.58	16.08	✓ ✓
7	27.6 - 32.2	16.10	16.20	granite
8	32.2 - 36.8	16.22	16.30	✓ ✓
9	36.8 - 41.4	16.32	16.42	✓ ✓
10	41.4 - 46.0	12.00	12.15	✓ ✓
11	46.0 - 50.6	12.17	12.27	✓ ✓
12	50.6 - 55.2	12.29	12.42	✓ ✓
13	55.2 - 59.8	12.45	13.03	granite
14	59.8 - 64.4	13.05	13.21	✓ ✓
15	64.4 - 69.0	13.24	13.40	✓ ✓
16	69.0 - 73.6	13.42	13.57	granite
17	73.6 - 78.2	06.40	06.57	✓ ✓
18	78.2 - 82.8	06.59	07.19	✓ ✓
19	82.8 - 87.4	07.21	07.37	✓ ✓
20	87.4 - 92.0	07.39	8.00	granite

92.0m

Dry hole and
We move to the second site.

BH 22

Fonikoh No2 site

40

14/04/16.

GPS

N = 214019

E = 810268

Drilling and Construction of Bore hole.

	(M) Meters	Time		Description of Soil Samples.
		From	To	
1.	0 - 4.6	7.32	7.36	
2	4.6 - 9.2	7.38	7.41	
3	9.2 - 13.8	7.43	7.48	
4	13.8 - 18.4	8.37	8.50	H ₂ O granite Fracture.
5	18.4 - 23.0	8.52	9.06	granite
6	23.0 - 27.6	9.08	9.24	✓ ✓
7	27.6 - 32.2	9.26	9.41	✓ ✓
8	32.2 - 36.8	9.43	9.59	✓ ✓
9	36.8 - 41.4	10.01	10.16	granite
10	41.4 - 46.0	10.18	10.26	✓ ✓
11	46.0 - 50.6	10.28	10.40	✓ ✓
12	50.6 - 55.2	10.56	11.15	✓ ✓
13	55.2 - 59.8	11.19	11.35	✓ ✓
14	59.8 - 64.4	11.38	11.53	granite
15	64.4 - 69.0	11.55	12.10	✓ ✓
16	69.0 - 73.6	12.13	12.27	✓ ✓
17	73.6 - 78.6	12.30	12.45	✓ ✓
18	78.6 - 82.2	12.49	13.05	✓ ✓
19	82.2 - 87.4	13.10	13.30	granite
20	87.4 - 92.0	13.33	13.56.	✓ ✓
				92.0 m

Dry Bore hole.

ВН 23 Ковыбу РНУ

41

15 | 04 | 16

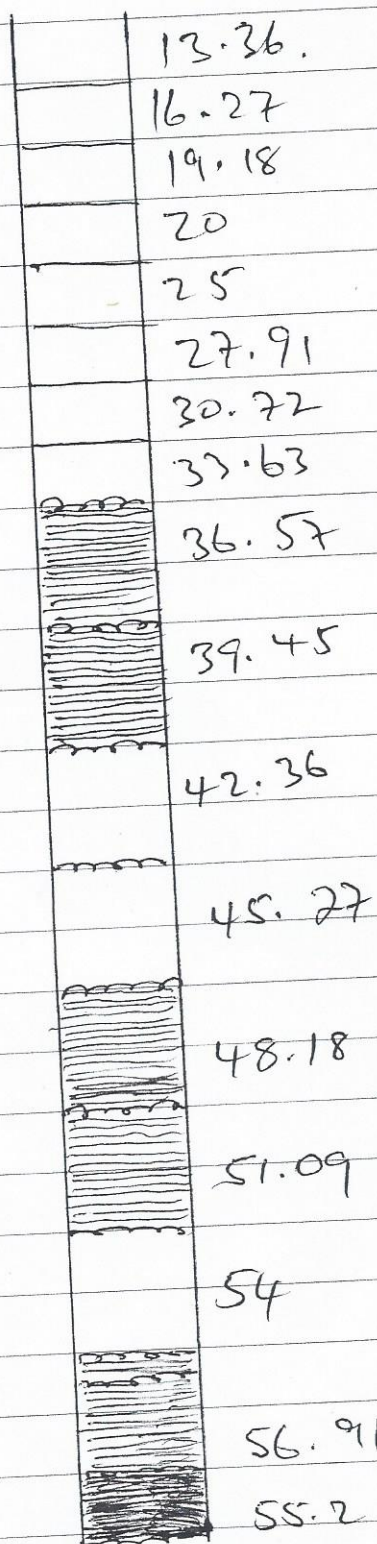
G.P. ^N₅₅ 216162

NE 812482.

21

Drilling and Construction of Bore hole.

[illegible]



gravel pack = 19 m

sealing = 16 m

H₂O over 2,500 lph

Sanitary seal with bentonite, sand and
over 1 m lph.

BH 24

Korica Kpaka.

43

16/04/16

GPS

N = 205235

E = 811869

Drilling and Construction of bore hole.

No.	(M)	Time		Description of soil formation / Samples.
	Meters	From	To	
1	0 - 4.6	9.21	9.23	Top soil
2	4.6 - 9.2	9.25	9.29	Clay
3	9.2 - 13.8	10.12	10.20	Rock 11.3m granite
4	13.8 - 18.4	10.22	10.39	granite
5	18.4 - 23.0	10.42	10.57	✓ ✓
6	23.0 - 27.6	10.59	11.16	✓ ✓
7	27.6 - 32.2	11.19	11.33	✓ ✓
8	32.2 - 36.8	11.36	11.49	✓ ✓
9	36.8 - 41.4	11.51	12.06	Fracture 38m
10	41.4 - 46.0	12.08	12.26	Fracture granite
11	46.0 - 50.6	12.28	12.46	✓ ✓
12	50.6 - 55.2			
13	55.2 - 59.8			
14	59.8 - 64.4			
				50.6 m

- 0.58

12 plane pipes.

Gravel pack - 16
Sealing - 14H₂O over 15,000 lph.

34.34

3 Screen

plane

43.07

1 Screen.

48.98

50.6

BH 25

Manboima
Kpaka.

17/04/16

GPS

N = 209104

E = 804933

Drilling and Construction of Borehole.

	(M)	Time		Description of soil formation / Samples.
	Meters	From	To	
1	0 - 4.6	9.32	9.34	Top soil
2	4.6 - 9.2	9.36	9.42	Clay
3	9.2 - 13.8	10.23	10.41	granite
4	13.8 - 18.4	10.43	10.59	✓ ✓
5	18.4 - 23.0	11.01	11.20	✓ ✓
6	23.0 - 27.6	11.22	11.41	granite
7	27.6 - 32.2	12.03	12.26	✓ ✓
8	32.2 - 36.6	12.28	12.42	granite
9	36.6 - 41.4	12.44	13.00	✓ ✓
10	41.4 - 46.0	13.04	13.23	✓ ✓
11	46.0 - 50.6	13.25	13.46	✓ ✓
12	50.6 - 55.2	13.49	14.09	✓ ✓
13	55.2 - 59.8	14.11	14.35	Fracture granite H ₂ S ₂ S ₂
14	59.8 - 64.4	14.39	15.09	granite Hard.
15	64.4 - 69.0	7.06	7.27	✓ ✓
16	69.0 - 73.6	7.31	7.50	granite hard
17	73.6 - 78.2	7.54	8.12	✓ ✓
18	78.2 - 82.8	8.15	8.39	✓ ✓
19	82.8 - 87.4	8.42	8.59	granite hard
20	87.4 - 92.0	9.02	9.20	granite hard.

92.0 m

Dry Bore hole,

22 plain pipes

gravel pack = 25' m

Sealing = 22 m

49.91

(H₂O) water over
25,000 lph.

52.82

55.73

58.64

61.55

64.46

} 3 screen.

73.19

73.6

BH 28

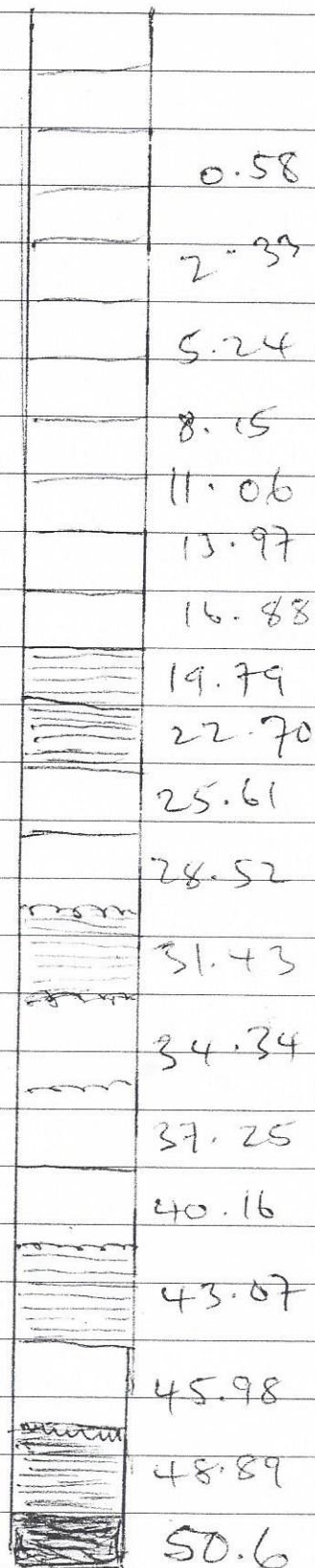
Barveh

23/4/16

G.P.S = N = 205046
E = 796831

Drilling and Construction of Bore hole.

	(M)	Time		Description of Soil Sam
		From	To	
1	0 - 4.6	11.49	11.52	Top Soil / Latonite
2	4.6 - 9.2	11.54	11.57	Clay
3	9.2 - 13.8	12.00	12.02	Clay sand
4	13.8 - 18.4	12.59	13.10	granite hard.
5	18.4 - 23.0	13.14	13.27	Fracture, granite +
6	23.0 - 27.6	13.29	13.42	Fracture granite rock.
7	27.6 - 32.2	13.44	13.55	Fracture rock
8	32.2 - 36.6	13.57	14.09	✓
9	36.6 - 41.4	14.12	14.28	Fracture rock.
10	41.4 - 46.0	14.31	14.48	✓
11	46.0 - 50.6	14.50	15.06	Fracture.
12	50.6 - 55.2			
13	55.2 - 59.8			
14	59.8 - 64.4			
				50.6 m



gravel Park = 13

Sealing = 10

(H₂O) Water over 3000

BH-36.

05/05/16

Gobaru New Site

GPS = N = 815091.
E = 200639.

Drilling and Construction of Bore hole.

No	(M) Meters	Time		Description of Soil Samples
		From	To	
1	0 - 4.6	6.32	6.33	Top soil
2	4.6 - 9.2	6.34	6.37	clay
3	9.2 - 13.8	6.38	6.41	Clay sand
4	13.8 - 18.4	6.43	6.49	Rock 17.23
5	18.4 - 23.0	7.53	8.08	granite
6	23.0 - 27.6	8.09	8.22	✓
7	27.6 - 32.2	8.24	8.40	Fracture rock
8	32.2 - 36.8	8.42	8.53	✓ ✓
9	36.8 - 41.4	8.55	9.09	granite hard
10	41.4 - 46.0	9.10	9.28	H ₂ O Fracture.
11	46.0 - 50.6	9.30	9.49	granite hard
12	50.6 - 55.2	9.51	10.14	✓ ✓
13	55.2 - 59.8	10.17	10.38	✓ ✓
14	59.8 - 64.4	10.40	10.58	✓ ✓
15	64.4 - 69.0	11.30	11.47	H ₂ O granite
16	69.0 - 73.6	11.49	12.08	granite
17	73.6 - 78.6	12.09	12.33	✓ ✓
18	78.6 - 82.8	12.35	12.57	granite
19	82.8 - 87.4	12.59	13.21	✓
20	87.4 - 92.0	13.23	13.41	✓

92.0 m.

BH-29

Suako

24/4/16

GPS

N = 207401

E = 794774.

Drilling and Construction of Bore hole.

NO	(M)	Time		Description of
	Meters	From	To	Soil Samples.
1	0 - 4.6	6.38	6.42	Top soil/Laterite
2	4.6 - 9.2	6.44	6.47	Clay Reddish
3	9.2 - 13.8	6.51	6.54	Sand Clay
4	13.8 - 18.4	7.37	7.41	Granite
5	18.4 - 23.0	9.32	9.37	Fracture H ₂ O
6	23.0 - 27.6	9.38	9.45	H ₂ O Fracture
7	27.6 - 32.2	9.50	10.00	Granite
8	32.2 - 36.6	10.02	10.14	
9	36.6 - 41.4	10.16	10.25	
10	41.4 - 46.0	10.27	10.36	Granite Fractures
11	46.0 - 50.6	10.38	10.48	
12	50.6 - 55.2			
13	55.2 - 59.8			
14	59.8 - 64.4			
				50.6 m

0.50

2.33

5.24

8.15

11.06

13.97

16.88

19.79

22.27

25.61

28.22

31.43

34.34

37.75

40.16

43.07

45.98

48.89

50.6

gravel part = 16m
 sealing = 13m

H₂O over 5000 lph.

25/4/16

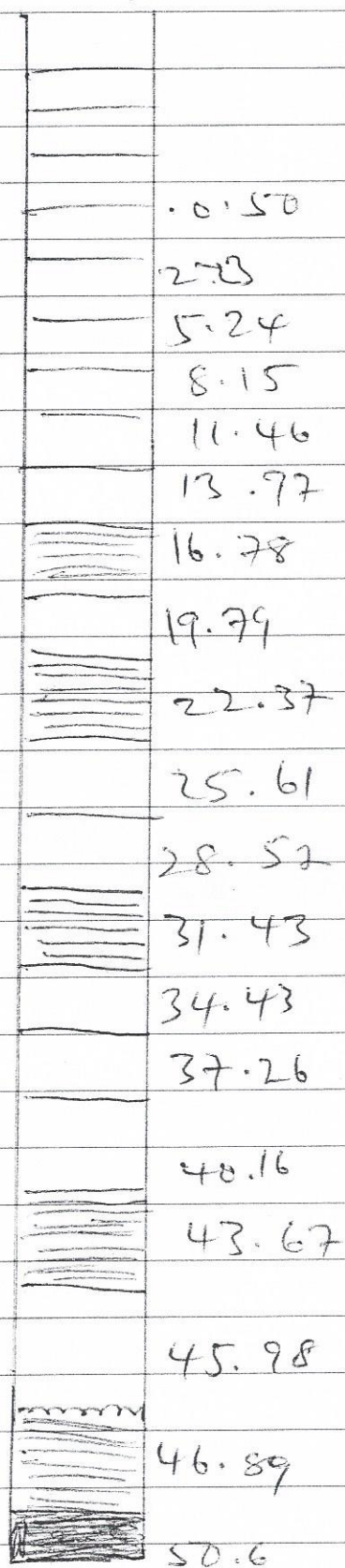
BH 30

Bumbuh Pejeh. 54

GPS = $N = 07^{\circ} 29.393$
 $E = 011^{\circ} 33.913$

Drilling and Construction of Borehole

[illegible]



$$G \cdot P_S = N = E =$$

Drilling and Construction of Bore hole.

NO	(M) Meters	Time		Description of Soil Sample
		From	To	
1	0 - 4.6	6.49	6.57	
2	4.6 - 9.2	7.52	6.57	
3	9.2 - 13.8	7.28	7.37	
4	13.8 - 18.4	7.40	7.50	
5	18.4 - 23.0	7.52	8.04	
6	23.0 - 27.6	8.06	8.17	
7	27.6 - 32.2	8.19	8.29	Fracture.
8	32.2 - 36.8	8.32	8.43	H ₂ O
9	36.8 - 41.4	8.45	9.01	9.17
10	41.4 - 46.0	9.20	9.44	
11	46.0 - 50.6	9.34	9.40	
				50.6

t-50

2.33

5.24

18.15

11.04

13.97

16.18

gravel park 19

19.79

Seal 16 m

22.27

25.61

28.52

31.43

H₂O over 20,000
lph.

34.34

37.25

43.07

45.98

48.89

50.6

BH 32

Wawahun Sewa 27/4/16

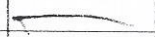
GPS = N = 220250
E = 844470

PHU.

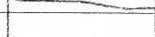
Drilling and Construction of Bore hole

	(M)	Time		Description of Soil Sample
		From	To	
1	0 - 4.6	7.30	7.33	
2	4.6 - 9.2	7.34	7.37	
3	9.2 - 13.8	7.39	7.42	Fracture rock, 15.8 m
4	13.8 - 18.4	8.48	8.54	
5	18.4 - 23.0	9.02	9.15	H ₂ O Fracture
6	23.0 - 27.6	9.17	9.27	granite
7	27.6 - 32.2	9.29	9.40	
8	32.2 - 36.6	9.41	9.51	
9	36.6 - 41.4	9.54	10.04	
10	41.4 - 46.0	10.06	10.17	Fracture gran
11	46.0 - 50.6	10.19	10.31	
12	50.6 - 55.2	10.33	10.57	
13	55.2 - 59.8			
				59.8 m


 1.70


 1.19

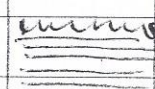

 4.1

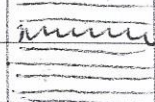

 7.01


 9.92


 12.83


 15.74


 18.65


 21.56

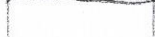

 24.47


 27.38


 30.29


 33.2


 36.11


 39.02

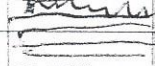

 41.43


 44.84


 47.75


 50.66


 53.57


 56.48


 59.8

gravel pack = 1

Seal = 7m

Water over

2,000 ~~cm~~ lph

BH 3A

manbouma site 2

61

GPS. N = 209106
E = 804935

30/4/16

Drilling and Construction of
Bore hole

No	(M) Meters	Time		Description of Soil Sample.
		From	To	
1	0 - 4.6	9.53	11.54	Top Soil
2	4.6 - 9.2	11.55	11.58	Clay
3	9.2 - 13.8	11.59	12.03	Clay sand red
4	13.8 - 18.4	13.24	13.38	Rock 14.90m
5	18.4 - 23.0	13.40	14.00	granite
6	23.0 - 27.6	14.02	14.15	granite Fracture
7	27.6 - 32.2	14.17	14.35	✓ ✓
8	32.2 - 36.8	14.37	14.54	✓ ✓
9	36.8 - 41.4	14.35	16.46	✓ ✓
10	41.4 - 46.0	16.47	17.03	granite
11	46.0 - 50.6	17.06	17.27	✓ ✓
12	50.6 - 55.2	17.28	17.49	✓ ✓
13	55.2 - 59.8	17.52	18.15	✓ ✓
14	59.8 - 64.4	6.45	7.06	granite 1/05/16
15	64.4 - 69.0	7.08	7.29	✓ ✓
16	69.0 - 73.6	7.33	7.53	✓ ✓
17	73.6 - 78.6	7.57	8.17	Major Fracture
				73.6 m

H₂O 10,000 Lph

Seal ~~31~~ 32
gravel = ~~31~~ 34

63.69

66.55

69.46

72.37

75.28

78.19

78.6

GPS N = 201703
E = 813863

Yonni Township

Drilling and Construction of
Bore hole.

63

BH 35

No	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	8.19	8.21	Top soil
2	4.6 - 9.2	8.23	8.25	clay sand
3	9.2 - 13.8	8.26	8.31	Rock 12.45m
4	13.8 - 18.4	9.02	9.21	granite fracture
5	18.4 - 23.0	9.24	9.38	✓ ✓
6	23.0 - 27.6	9.40	9.54	✓ ✓
7	27.6 - 32.2	9.59	10.11	granite
8	32.2 - 36.8	10.12	10.24	✓ ✓
9	36.8 - 41.4	10.26	10.39	Fracture granite
10	41.4 - 46.0	10.42	10.55	✓ ✓
11	46.0 - 50.6	10.58	11.13	
12	50.6 - 55.2	11.15	11.33	granite
13	55.2 - 59.8	11.35	11.53	Fracture granite
14	59.8 - 64.4	11.56	12.13	✓ ✓
				64.4 m

-1.23.

1.58.

4.49

7.40

10.31

13.22

16.13

19.04

21.95

24.86

27.77

30.68

33.59

36.50

39.41

42.32

45.23

48.14

51.05

55.96

56.76.

59.78

62.69

64.4

gravel park 10 m

Sealing - 8m.

(H₂O) Water over
6,000,000 l

BH 37

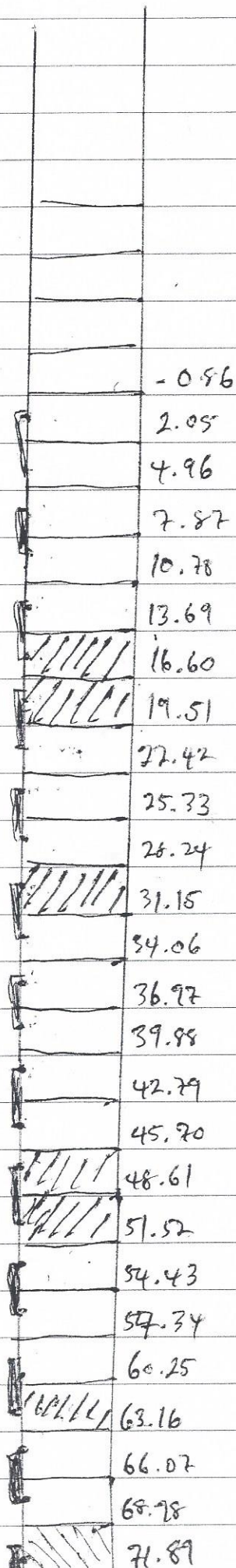
Foni Koth Town
Site No 3

06/05/16.

GPS = N = 810245
E = 214005

Drilling and Construction of Borehole.

No	(m) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	9.16	9.18	Top soil
2	4.6 - 9.2	9.19	9.21	Clay Sand
3	9.2 - 13.8	9.22	9.27	Rock, Granite
4	13.8 - 18.4	10.08	10.23	✓ ✓ hard
5	18.4 - 23.0	10.25	10.39	Fracture granite
6	23.0 - 27.6	10.41	10.55	✓ ✓
7	27.6 - 32.2	10.59	11.15	Fracture granite
8	32.2 - 36.8	11.16	11.33	granite hard
9	36.8 - 41.4	11.35	11.51	✓ ✓
10	41.4 - 46.0	11.52	12.09	✓ ✓
11	46.0 - 50.6	12.12	12.29	✓ ✓
12	50.6 - 55.2	12.31	12.47	granite hard
13	55.2 - 59.8	13.39	13.56	✓ ✓
14	59.8 - 64.4	13.58	14.14	Fracture Small
15	64.4 - 69.0	14.16	14.32	✓ ✓
16	69.0 - 73.6	14.34	14.50	granite



gravel park = 12m
Sealing = 10m

Fracture! 13-16

✓ : 27-30 } minor Fracture
✓ : 44-53 }
46-53 }

H₂O is over 1,500 ^{u3}ph

BH-36.

05/05/16

Gobaru New Site

GPS = N = 815091.
E = 200639.

Drilling and Construction of Bore hole.

No	(M) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	6.32	6.33	Top soil
2	4.6 - 9.2	6.34	6.37	clay
3	9.2 - 13.8	6.38	6.41	Clay sand
4	13.8 - 18.4	6.43	6.49	Rock 17.23
5	18.4 - 23.0	7.53	8.08	granite
6	23.0 - 27.6	8.09	8.22	✓
7	27.6 - 32.2	8.24	8.40	Fracture rock
8	32.2 - 36.8	8.42	8.53	✓ ✓
9	36.8 - 41.4	8.55	9.09	granite hard
10	41.4 - 46.0	9.10	9.28	H ₂ O Fracture.
11	46.0 - 50.6	9.30	9.49	granite hard
12	50.6 - 55.2	9.51	10.14	✓ ✓
13	55.2 - 59.8	10.17	10.38	✓ ✓
14	59.8 - 64.4	10.40	10.58	✓ ✓
15	64.4 - 69.0	11.30	11.47	H ₂ O granite
16	69.0 - 73.6	11.49	12.08	granite
17	73.6 - 78.6	12.09	12.33	✓ ✓
18	78.6 - 82.8	12.35	12.57	granite
19	82.8 - 87.4	12.59	13.21	✓
20	87.4 - 92.0	13.23	13.41	✓

92.0 m.

GOPARU NEW SIDE

	2.83
	0.08
	2.99
	5.90
	8.81
	11.77
	14.63
	17.54
	20.45
	23.36
	26.27
	29.18
	32.09
	35.00
	37.91
	40.82
	43.73
	46.64
	49.55
	52.46
	55.37
	58.28
	61.19
	64.10
	67.01
	69.92
	72.83
	75.70
	78.65
	81.56
	84.47
	87.38
	90.29

gravel park = 9m
Sealing = 7m

H₂O over 2,500-3000ly

BH 37

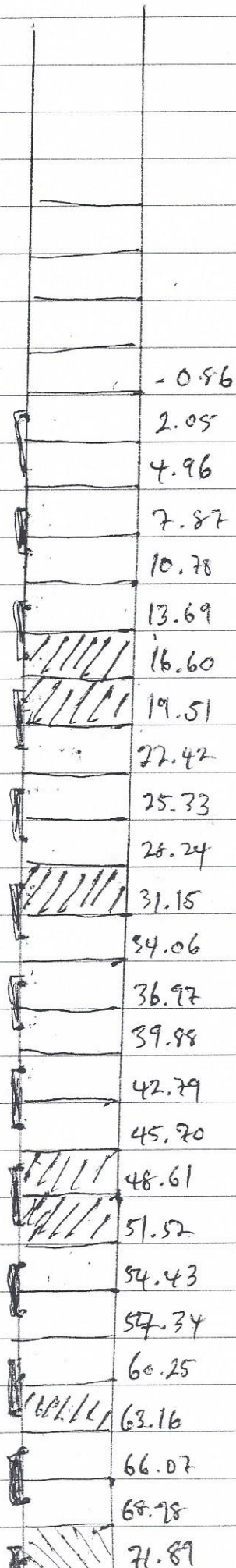
Fonikoh Town
Site No 3

06/05/16

GPS = N = 810245
E = 214005

Drilling and Construction of Borehole.

No	(m) Meters	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	9.16	9.18	Top Soil
2	4.6 - 9.2	9.19	9.21	Clay Sand
3	9.2 - 13.8	9.22	9.27	Rock, Granite
4	13.8 - 18.4	10.08	10.23	✓ ✓ hard
5	18.4 - 23.0	10.25	10.39	Fracture granite
6	23.0 - 27.6	10.41	10.55	✓ ✓
7	27.6 - 32.2	10.59	11.15	Fracture granite
8	32.2 - 36.8	11.16	11.33	granite hard
9	36.8 - 41.4	11.35	11.51	✓ ✓
10	41.4 - 46.0	11.52	12.09	✓ ✓
11	46.0 - 50.6	12.12	12.29	✓ ✓
12	50.6 - 55.2	12.31	12.47	granite hard
13	55.2 - 59.8	13.39	13.56	✓ ✓
14	59.8 - 64.4	13.58	14.14	Fracture Small
15	64.4 - 69.0	14.16	14.32	✓ ✓
16	69.0 - 73.6	14.34	14.50	granite



gravel pack = 12m
Sealing = 10m

Fracture! 13-16

✓ : 27-30 } minor Fracture
✓ : 44-55 }
46-53 }

H₂O is over 1,500 ^{psi} lph

HF

Kortumahun

BH 39

73

GPS N = 07.25717

12/05/16

W = 011.26227

Drilling and Construction of Bore hole.

	(M)	Time		Description of Soil Samples.
		From	To	
1	0 - 4.6	7.26	7.28	Top soil
2	4.6 - 9.2	7.30	7.32	clay
3	9.2 - 13.8	7.34	7.36	clay sand
4	13.8 - 18.4	7.38	7.40	granite
5	18.4 - 23.0	7.42	7.45	✓ ✓
6	23.0 - 27.6	9.52	10.02	✓ ✓
7	27.6 - 32.2	10.04	10.14	granite
8	32.2 - 36.8	10.17	10.27	✓ ✓
9	36.8 - 41.4	10.29	10.38	✓ ✓
10	41.4 - 46.0	10.41	10.52	granite
11	46.0 - 50.6	10.55	11.08	✓ ✓
12	50.6 - 55.2	11.10	11.22	granite
13	55.2 - 59.8	11.24	11.36	✓ ✓
14	59.8 - 64.4	11.39	12.52	✓ ✓
15	64.4 - 69.0	11.59	12.11	granite
16	69.0 - 73.6	12.15	12.25	✓ ✓
17	73.6 - 78.6	12.28	12.40	✓ ✓
18	78.6 - 82.8	12.45	12.53	granite
19	82.8 - 87.4	12.56	13.07	✓ ✓
20	87.4 - 92.0	13.10	13.22	✓ ✓ 92.0m

Dry Bore hole.