Form: WRMA 009A Catchment: Athi WRMA ID:WRMA

## Water Resources Management Authority

## **BOREHOLE COMPLETION RECORD**

(To be submitted in triplicate)

(Rule 33)

Borehole No .....

Borehole Name: AMREF- ENDOINYO-ONKOPIT SEC SCH

Formation: BASEMENT

PARTICULARS O	PLICA	NT	DETAILS					
1. Full name of applie	cant(s)	(In Bloo	ck Letters)	ENDOINYO ONKOPIT				
2. Category of Applic	cant -	Individua	al, Group [Association,	INSTITUTION				
Society], Company, Ins								
			ual) or Certificate of					
Incorporation or Regist	ration	for Grou	ps or Companies					
4. PIN Number								
Physical Address whe	re wa	ter is to	be used (see sketch)	Contact Address of	Applicant			
5. L/R Number(s)				6. Box Number		53-40700		
7. Village(s)/Ward(s)	E	NDOINY	O-ONKOPIT	8. Town		KILGOR	IS	
9. Sub-location(s)	E	NDOINY	O-ONKOPIT	10. Post Code				
11. Location(s)	0	LOLCH	ANI	12. Telephone Conta	ct			
				(Landline)				
13. Division(s)	K	KILGORIS		14. Telephone Contact				
			(Mobile)					
15. District(s)	s) NAROK		16. Email Contact					
PARTICULARS O	FCC	ONTRA	CTOR	BETTERLINE V	VATER L	IMITED	).	
17. Box Number		27277		22. License Number WD/N		WD/WO	/C/2769	
18. Town NAIRO		)BI	23. Gazetted On		02/02/2021			
19. Post Code	st Code 00100			24. Drilling Supervisor W		WILSO	N JUMA	
20. Telephone Contact (Landline) 0736948511		8511	25. Type and Make of Drill Rig		MAX DR	ILL 2023		
21. Telephone Contact (Mobile) 0736948511			8					
22. Email Contact Info@betterlinewater.com								
INTENDED USE	OF V	WATE	R					
Public W.S.; Irrigation	ı.; Ind	ustries.; l	Domestic.; Stock, other	DOMESTIC				
PARTICULARS O								
Type of Borehole: - Dr	illed:	Driven: 1	Bored; Jetted; Other	DRILLED				
Borehole Construction								
	09.20		Drilling completed	09.09.2023	All work co	mpleted	22.09.2023	
(date)			(date)		(date)	-		
1 1	175		Measured (m)	175	Final (back	-filled)	NIL	
Reported (m)					Depth (m)			
Hole Diameter 20	3		From (m)	0	To (m)		175	
(mm)								
Hole Diameter			From (m)		To (m)			
(mm)								

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Permanen	t Casing										
Plain											
Туре	Mild steel	Diar (mm		230	Length (m)	1.2	From (m)	0	To (m)	1.2	
Туре		Diar (mm		152	Length (m)	115	From (m)	0 43 85 133 157 169	To (m)	31 79 109 145 163 175	
Slotted or l											
Size and Do	escription	of Ope	nings								
Туре	Mild steel	Diar (mm		152	Length (m)	60	From (m)	31 79 109 145 163	To (m)	43 85 133 157 169	
Туре		Diar (mm			Length (m)		From (m)		To (m)		
Type and N	Make		Lengt	Mild St	teel -	Set from	m (m)		To (m)		
(mm)			Lengt	II (III)		Set Iron	in (in)		10 (m)		
Gravel Pac	ek										
Size of grain (mm)		2-4mm		Roundness (good, fair, poor)		GOOD		in annul (m3)	e inserted lar Space	8 Tonns	
O II. l.				From	(m)	0		To (m)		175	
Open Hole Diam (mm)				From	(m)	-		To (m)			
Aquifer	-			1/10111	(111)	-		10 (111)		-	
	Vater Struck at (m) 30-43				Water Rest Level (		(m)	8.98			
	nd Water Struck at (m) 110 -120			0		Rest Level					
3 <sup>rd</sup> water str	ruck at (m)										
Main Aquifer Struck at 110-120		20		Water	Rest Level	(m)	-				
(m)	.   _				( )	20		F		12	
Water beari material		ractured EDIME		From (m)		30 To (m)			43 120		
Other Aquit (also <i>see</i> log				1		1		1			
Yield: SWL	(m) 8.	8.98		PWL (m below		<b>162.52m</b> D.			ge (litres	8.167	
				surfa	ce)			per minute)			
After pumping (hours)		24		Recovered to SWI				150			
Expected production discharge (litres per hour)		490		With p	ump set at	(m below su	ırface)	162M			

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Pumping Test Record in Summary (Detailed test records on a	ttached sheets): (all dept	h measurements to be in
metres below ground surface)		
	Test No. 1	Test No. 2
Date of Test (day, month, year)	21.09.2023 TO	
, · · · · · · · · · · · · · · · · · · ·	22.09.2023	
Depth of Borehole at time of test (m)	175	
Water Entry (perforations or screen setting at time of test)	Refer to page 2	
Static Water (SWL) before test (m)	08.98	
Type of Pump (Bailler) used	SP 3/60	
Depth of Pump intake (m)	162M	
Discharge (in litres per minute)	8.167	
Pumping Water Level (PWL m)	162M	
After pumping continuously for (hours)	24	
Time of Recovery to Original SWL (minutes)	150	
Rate of Recovery-WL after 5 minutes (%)	160.45	
Rate of Recovery-WL after 20 minutes (%)	150.78	
Rate of Recovery-WL after 60 minutes (%)	122.29	
Rate of Recovery-WL after 120 minutes (%)	110.68	
(Additional pumping tests to be mentioned in REMARKS	and included with file).	

(Additional pumping tests to be mentioned in REMARKS and included with file).

Government representative witnessing the test......

Quality of Water					
Sample (Yes/No)	YES	Collected at	1440HRS	On (date)	22.09.2023
		(hour)			
Sediment	NIL	Taste	-	Odour	NIL
Colour (Pt. Co. APHA)		Temperature (0c)	-	Spec.	
				Conductivity	
				(µmho/cm <sup>3</sup> )	

Remarks: (drilling difficulties, gravel-pack details, all pertinent information about the drilling and completion of the hole)	Drilling formation not good due the presence of boulders.
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Drilling Supervisor		Drilling Contractor		
Signature		Signature		
Name	WILSON JUMA	Name	BETTERLINE WATER LTD	
DATE	29.09.2023		29.09.2023	

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1.

Driller's Log.

DEPTH (m)	GEOLOGICAL NATURE
0.0 - 1.6	Dry surface soil
1.6 – 2.4	Highly Weathered Sub surface soils
2.4 - 8.9	Highly weathered Regolith
8.9-20.2	Weathered Basement
20.2-100	Slightly Weathered /Fractured basement (aquiferous)
100.0 – 175.0	Slightly Weathered to Fresh Basement (aquiferous)

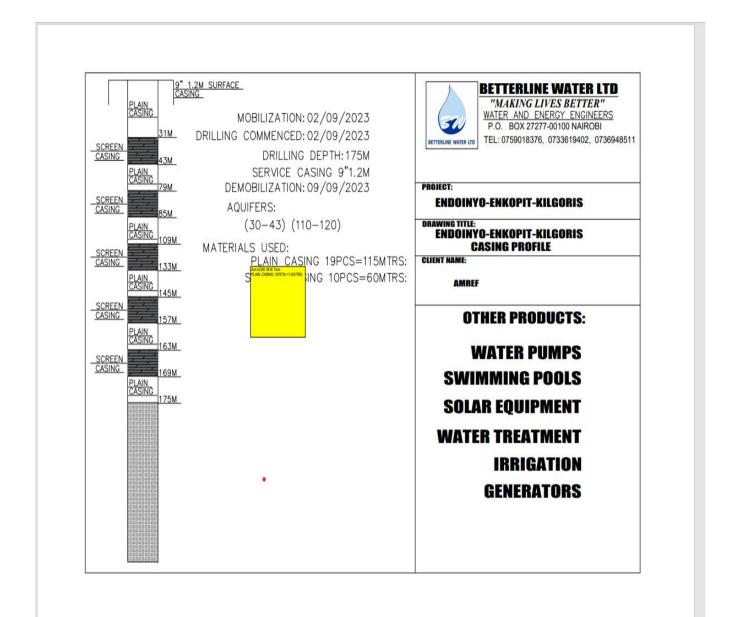
## 12. Sketch of Borehole Construction:

(Geologist's log on attached sheets).

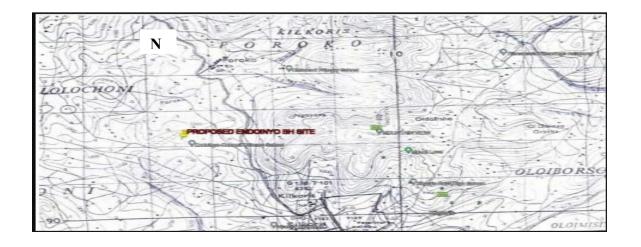
Remarks or additional information on Driller's log, or on sketch of

Formations encountered are basically Sediments. Borehole sketch not drawn to scale, it shows the casing design.....

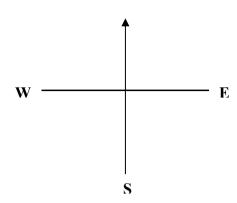
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13. *Location Sketch*: (To be sketched by the driller on the site, showing roads, tracks and prominent land marks, with road distances to the nearest town or trading centre and to water source).



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## 36M 683493 UTM 9891072

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For Of	fficial Use Only	
Entered on Schedule(Yes/No)	) Water Sample Received(Yes/No)	
Drilling Samples Received (Yes/No	) Chemical Analysis Received(Yes/No)	
Drilling Samples Filed(Yes/No)	Geologist's Log Available(Yes/No)	
Location Plotted on Maps(Yes/No		
•	Hydro geological Report Noof	
	(Date)	
	Geophysical Curve Noof	
	(Date)	
Borehole Data entered and checked by (Name)	Signature	
Permit details	•	
Permit Number	Authorised abstraction m <sup>3</sup> /	/d
Authorised water use(s)		
Pump intake depth m bgl	Maximum authorised abstraction rate m <sup>3</sup> /	hr
All Borehole Completion Records duly completed	should be sent to the appropriate WRMA Regional Of	fice