

SECTION TWO

DATA CAPTURE AND RECORDING FORMS

20 LOGS; 21 PENETRATION RATE; 22 AQUIFER

NATIONAL GROUNDWATER DATA BASE

112. Customer Name	Street Address
Postal Address	Plot/Erf No. 113. Borehole No.
Farm Name	

Circle one of the following:

FOR DEPTH	0 - 50m
OR DEPTH	101 - 150m

MAP CO-ORDINATES IN X&Y

7:X									
8:Y									

OR

CO-ORDINATES IN DEGREES

7:Lat.									
8:Long									

INSTRUCTIONS
PENETRATION RATE
 You will be recording penetration rate in minutes taken to drill a metre. Mark the penetration rate by drawing a vertical line over the appropriate number of minutes taken to drill that metre. The scale above the column heading is in metres drilled per hour. This is for computer use only.
 eg.

015.00		7	6	5	4	3	2	1
016.00		7	6	5	4	3	2	1
017.00		6	5	4	3	2	1	
018.00		5	4	3	2	1		
019.00		4	3	2	1			
020.00		3	2	1				
021.00		2	1					

STRIKE
 Mark water strike with S in the block headed "S".

YIELD
 Actual yield should be recorded in litres per second.

METHOD Mark method used to determine yield while drilling

Current meter	C
Estimated	E
Plume	F
Totalling meter	M
Notch (V- or U-notch)	N
Submerged orifice	S
Volumetric measurement	V
Venturi meter	U
Weir	W
Other[Specify]	Z

IMPORTANT: BOREHOLE OWNER
 Only a complete set of 6 forms must be sent to:
 Directorate:
 GEOHYDROLOGY
 Dept Water Affairs
 P/B X313
 PRETORIA 0001
DO NOT SEND ONE FORM AT A TIME.

[mm] Diam	Depth	6	6.5	7.5	8.5	10	12	15	20	30	60	[See tables] Aquifer code	S	[ddd.dd] Yield (l/s)	Comment
	1.00	10	9	8	7	6	5	4	3	2	1				
	2.00	10	9	8	7	6	5	4	3	2	1				
	3.00	10	9	8	7	6	5	4	3	2	1				
	4.00	10	9	8	7	6	5	4	3	2	1				
	5.00	10	9	8	7	6	5	4	3	2	1				
	6.00	10	9	8	7	6	5	4	3	2	1				
	7.00	10	9	8	7	6	5	4	3	2	1				
	8.00	10	9	8	7	6	5	4	3	2	1				
	9.00	10	9	8	7	6	5	4	3	2	1				
	10.00	10	9	8	7	6	5	4	3	2	1				
	11.00	10	9	8	7	6	5	4	3	2	1				
	12.00	10	9	8	7	6	5	4	3	2	1				
	13.00	10	9	8	7	6	5	4	3	2	1				
	14.00	10	9	8	7	6	5	4	3	2	1				
	15.00	10	9	8	7	6	5	4	3	2	1				
	16.00	10	9	8	7	6	5	4	3	2	1				
	17.00	10	9	8	7	6	5	4	3	2	1				
	18.00	10	9	8	7	6	5	4	3	2	1				
	19.00	10	9	8	7	6	5	4	3	2	1				
	20.00	10	9	8	7	6	5	4	3	2	1				
	21.00	10	9	8	7	6	5	4	3	2	1				
	22.00	10	9	8	7	6	5	4	3	2	1				
	23.00	10	9	8	7	6	5	4	3	2	1				
	24.00	10	9	8	7	6	5	4	3	2	1				
	25.00	10	9	8	7	6	5	4	3	2	1				
	26.00	10	9	8	7	6	5	4	3	2	1				
	27.00	10	9	8	7	6	5	4	3	2	1				
	28.00	10	9	8	7	6	5	4	3	2	1				
	29.00	10	9	8	7	6	5	4	3	2	1				
	30.00	10	9	8	7	6	5	4	3	2	1				
	31.00	10	9	8	7	6	5	4	3	2	1				
	32.00	10	9	8	7	6	5	4	3	2	1				
	33.00	10	9	8	7	6	5	4	3	2	1				
	34.00	10	9	8	7	6	5	4	3	2	1				
	35.00	10	9	8	7	6	5	4	3	2	1				
	36.00	10	9	8	7	6	5	4	3	2	1				
	37.00	10	9	8	7	6	5	4	3	2	1				
	38.00	10	9	8	7	6	5	4	3	2	1				
	39.00	10	9	8	7	6	5	4	3	2	1				
	40.00	10	9	8	7	6	5	4	3	2	1				
	41.00	10	9	8	7	6	5	4	3	2	1				
	42.00	10	9	8	7	6	5	4	3	2	1				
	43.00	10	9	8	7	6	5	4	3	2	1				
	44.00	10	9	8	7	6	5	4	3	2	1				
	45.00	10	9	8	7	6	5	4	3	2	1				
	46.00	10	9	8	7	6	5	4	3	2	1				
	47.00	10	9	8	7	6	5	4	3	2	1				
	48.00	10	9	8	7	6	5	4	3	2	1				
	49.00	10	9	8	7	6	5	4	3	2	1				
	50.00	10	9	8	7	6	5	4	3	2	1				

6 6.5 7.5 8.5 10 12 15 20 30 60
 Penetration rate (min/m)

20 LOGS; 21 PENETRATION RATE; 22 AQUIFER

NATIONAL GROUND WATER DATA BASE

1. Samples must be laid out after every metre drilled in order to complete the Geology Information Sheet.
2. On reaching final drilling depth, rule off penetration table column and record the final blow yield in appropriate column.
3. This information will be required to complete your Casing and Hole Construction Data Sheet.
4. Use the notes section at the bottom to record casing details, development and work time.

Circle one of the following:

FOR DEPTH	51 - 100m
OR DEPTH	151 - 200m

ON COMPLETION OF DRILLING COMPLETE THE FOLLOWING SUMMARY:

TOTAL DEPTH OF HOLE	
NOMINAL DIAMETER	
STATIC WATER LEVEL	
FINAL BLOW YIELD	

NOTES

[mm] Diam	Depth	6	6.5	7.5	8.5	10	12	15	20	30	60	[See tables] Aquifer code	S	[ddd.dd] Yield (l/s)	Comment
	51.00	10	9	8	7	6	5	4	3	2	1				
	52.00	10	9	8	7	6	5	4	3	2	1				
	53.00	10	9	8	7	6	5	4	3	2	1				
	54.00	10	9	8	7	6	5	4	3	2	1				
	55.00	10	9	8	7	6	5	4	3	2	1				
	56.00	10	9	8	7	6	5	4	3	2	1				
	57.00	10	9	8	7	6	5	4	3	2	1				
	58.00	10	9	8	7	6	5	4	3	2	1				
	59.00	10	9	8	7	6	5	4	3	2	1				
	60.00	10	9	8	7	6	5	4	3	2	1				
	61.00	10	9	8	7	6	5	4	3	2	1				
	62.00	10	9	8	7	6	5	4	3	2	1				
	63.00	10	9	8	7	6	5	4	3	2	1				
	64.00	10	9	8	7	6	5	4	3	2	1				
	65.00	10	9	8	7	6	5	4	3	2	1				
	66.00	10	9	8	7	6	5	4	3	2	1				
	67.00	10	9	8	7	6	5	4	3	2	1				
	68.00	10	9	8	7	6	5	4	3	2	1				
	69.00	10	9	8	7	6	5	4	3	2	1				
	70.00	10	9	8	7	6	5	4	3	2	1				
	71.00	10	9	8	7	6	5	4	3	2	1				
	72.00	10	9	8	7	6	5	4	3	2	1				
	73.00	10	9	8	7	6	5	4	3	2	1				
	74.00	10	9	8	7	6	5	4	3	2	1				
	75.00	10	9	8	7	6	5	4	3	2	1				
	76.00	10	9	8	7	6	5	4	3	2	1				
	77.00	10	9	8	7	6	5	4	3	2	1				
	78.00	10	9	8	7	6	5	4	3	2	1				
	79.00	10	9	8	7	6	5	4	3	2	1				
	80.00	10	9	8	7	6	5	4	3	2	1				
	81.00	10	9	8	7	6	5	4	3	2	1				
	82.00	10	9	8	7	6	5	4	3	2	1				
	83.00	10	9	8	7	6	5	4	3	2	1				
	84.00	10	9	8	7	6	5	4	3	2	1				
	85.00	10	9	8	7	6	5	4	3	2	1				
	86.00	10	9	8	7	6	5	4	3	2	1				
	87.00	10	9	8	7	6	5	4	3	2	1				
	88.00	10	9	8	7	6	5	4	3	2	1				
	89.00	10	9	8	7	6	5	4	3	2	1				
	90.00	10	9	8	7	6	5	4	3	2	1				
	91.00	10	9	8	7	6	5	4	3	2	1				
	92.00	10	9	8	7	6	5	4	3	2	1				
	93.00	10	9	8	7	6	5	4	3	2	1				
	94.00	10	9	8	7	6	5	4	3	2	1				
	95.00	10	9	8	7	6	5	4	3	2	1				
	96.00	10	9	8	7	6	5	4	3	2	1				
	97.00	10	9	8	7	6	5	4	3	2	1				
	98.00	10	9	8	7	6	5	4	3	2	1				
	99.00	10	9	8	7	6	5	4	3	2	1				
	100.00	10	9	8	7	6	5	4	3	2	1				

6 6.5 7.5 8.5 10 12 15 20 30 60 Penetration rate (min/m)

Company
Address/Code
Signature
Name & Position [print]

23 UNCONSOLIDATED; 24 CONSOLIDATED

NATIONAL GROUND WATER DATA BASE

112:Customer Name	Street Address
Postal Address	Plot/Erf No. 113:Borehole No.
Farm Name	

Depth	Fill in for ALL Boreholes				CONS. ONLY Feature 5	UNCONSOLIDATED FORMATIONS ONLY				
	1.Lithology code	Colour		4Tex ture		6Feature		7A	8S	9R
		2P	3S			P	S			
1.00										
2.00										
3.00										
4.00										
5.00										
6.00										
7.00										
8.00										
9.00										
10.00										
11.00										
12.00										
13.00										
14.00										
15.00										
16.00										
17.00										
18.00										
19.00										
20.00										
21.00										
22.00										
23.00										
24.00										
25.00										
26.00										
27.00										
28.00										
29.00										
30.00										
31.00										
32.00										
33.00										
34.00										
35.00										
36.00										
37.00										
38.00										
39.00										
40.00										
41.00										
42.00										
43.00										
44.00										
45.00										
46.00										
47.00										
48.00										
49.00										
50.00										

Circle one of the following:

FOR DEPTH	1 - 50m
OR DEPTH	101 - 150m

1 LITHOLOGY CODE

Overburden	OBDN
Clay	CLAY
Clay and sand	CLSD
Coal	COAL
Boulders	BLDR
Boulderclay	BLCL
Alluvium	ALVM
Chert	CHRT
Calcrete	CLCR
Conglomerat	CLGM
Diabase	DIBS
Dolerite	DLRT
Dolomite	DLMT
Granite	GRNT
Gravel	GRVL
Lava	LAVA
Quartzite	QRTZ
Sand	SAND
Shale	SHLE
Sandstone	SNDS

2 PRIMARY COLOURS

Black	S
Blue	B
Brown	C
Green	G
Grey	H
Purple	N
Orange	O
Pink	P
Red	R
White	W
Yellow	Y
No information	

3 SECONDARY COLOURS

Bluish	B
Brownish	C
Dark	D
Greenish	G
Greivish	H
Light	L
Purple	M
Orange	O
Pinkish	P
Redish	R
Olive	V
Yellowish	Y
No information	

4 TEXTURE

Crypto	CR
Very fine	VF
Fine	FN
Fine/medium	FM
Medium	MD
Medium/Coarse	MC
Coarse	CO
Very coarse	VC

5 FEATURE [Consolidated only]

Cemented	CE
Consolidated	CS
Fractured	FC
Hard	D
Soft	SF
Unconsolid	UC
Weathered	WT

23 UNCONSOLIDATED; 24 CONSOLIDATED

NATIONAL GROUNDWATER DATA BASE

Fill in for ALL Boreholes				CONS. ONLY Feature 5	UNCONSOLIDATED FORMATIONS ONLY					
Depth	1.Lithology code	Colour			4Texture	6Feature		7A	8S	9R
		2P	3S			P	S			
51.00										
52.00										
53.00										
54.00										
55.00										
56.00										
57.00										
58.00										
59.00										
60.00										
61.00										
62.00										
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85.00										
86.00										
87.00										
88.00										
89.00										
90.00										
91.00										
92.00										
93.00										
94.00										
95.00										
96.00										
97.00										
98.00										
99.00										
100.00										

Circle one of the following:	
FOR DEPTH	51 - 100m
OR DEPTH	151 - 200m

CODES FOR UNCONSOLIDATED ONLY

6 PRIMARY AND SECONDARY FEATURES

Argillaceous	AG
Arenaceous	AR
Blaked	IK
Calcareous	CA
Carbonaceous	CB
Cemented	CE
Chloritic	CL
Consolidated	CS
Clayey	CY
Dark	DK
Fractured	FC
Ferruginous	FE
Fresh	FR
Feldspathic	FS
Glaucousitic	GL
Gravel-bearing	GV
Hard	HD
Heavy minerals	HM
Jointed	JT
Loose	LS
Light	LT
Micaceous	MC
Mineralised	MN
Massive	MS
Oolitic	OO
Phosphatic bearing	PO
Primary	PR
Peaty	PT
Siliceous	SC
Solid	SD
Soft	SF
Shelly	SH
Silicified	SI
Silty	SL
Sandy	SN
Secondary	SR
Unconsolidated	UC
Weathered	WT
No information	

7 FEATURE ATTRIBUTE

Slightly	-
Very	+
No information	

8 SORTING

Unsorted	11
Poorly sorted	22
Poorly to mod sorted	23
Mod to poorly sorted	32
Moderately sorted	33
Mod to well sorted	34
Well to mod sorted	43
Well sorted	44
No information	

9 ROUNDNESS

Angular	11
Angular to sub-angular	12
Angular to sub-rounded	13
Angular to rounded	14
Sub-angular	22
Sub-angular to sub-rounded	23
Sub-angular to rounded	24
Sub-rounded	33
Sub-rounded to rounded	34
Rounded	44
No information	

Company

Address/Code

Signature

 Name &
Position
[print]

IMPORTANT : BOREHOLE OWNER

Only a complete set of 6 forms must be sent to :

 Directorate : GEOHYDROLOGY
 Dept Water Affairs
 P/B X313 PRETORIA 0001

DO NOT SEND ONE FORM AT A TIME.

30 CONSTRUCTION; 31 HOLE; 32 CASING; 33 OPENINGS; 34 FILL
NATIONAL GROUND WATER DATA BASE

Company
Address/Code
Signature
Name & Position [print]

112. Customer Name
Postal Address
Street Address
Plot/Turf No. 113. Borehole No.
Farm Name

8: DATA SOURCE	
Driller/Boring Inspector	D
Geologist/technician	G
Other[Specify]	Z

INSTRUCTIONS
1. Begin with largest diameter in first column. The last column used will indicate open hole diameter i.e. no casing installed.

2. Where fill was used section 34 of the appropriate column only must be completed.
3. FINAL FIGURE IN LAST COLUMN USED MUST INDICATE FINAL DEPTH OF HOLE.

9: METHOD OF CONSTRUCTION	
Air-rotary [Drag bit/tricone]	A
Cable-tool	C
Dug	D
Hydraulic rotary [Mud rotary]	H
Jetted	J
Air percussion [Down-the-hole-hammer]	P
Reverse rotary	R
Other[Specify]	Z

10: TYPE OF FINISH	
Brickwork	B
Porous concrete	C
Gravel pack with perforations	F
Gravel pack with screen	G
Horizontal gallery	H
Open bottom (partially cased)	O
Perforated or slotted casing	P
Screen	S
Well point	W
Open hole	X
Other[Specify]	Z

11: METHOD OF DEVELOPMENT	
Pumped with air lift	A
Bailed	B
Compressed air	C
Air lifted with inductor	I
Jetted or washed	J
None	N
Pumped	P
Surged	S
Other[Specify]	Z

12: DEVELOPMENT: Duration [hrs]
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13: SPECIAL DEVELOPMENT TREATMENT	
Brushing	B
Chemical (acid, calgon etc)	C
Dry ice	D
Explosives	E
Hydrofracturing	H
Other[Specify]	Z

14: TOTAL COST OF BOREHOLE

15: COMMENT

BEGIN by filling in the LARGEST DIAMETER CASING used in COLUMN 1.						
31,32: CASING DEPTH	Col 1	Col 2	Col 3	Col 4	Col 5	Col 6
From top [m]						
To bottom [m]						
31,32: CASING: INTERNAL DIAMETER						
32: CASING MATERIAL						
Brass	B	B	B	B	B	B
Concrete	C	C	C	C	C	C
Copper	D	D	D	D	D	D
PVC or other plastic	P	P	P	P	P	P
Plastic	O	O	O	O	O	O
Steel	S	S	S	S	S	S
Stainless Steel	X	X	X	X	X	X
Other[Specify]	Z	Z	Z	Z	Z	Z
32: MATERIAL/WALL THICKNESS [mm]						

33: FOR SLOTTED CASING [Additional info - Use only the column/s related to casing depth above]						
TYPE OF OPENINGS						
Perforated or slotted with fibre mesh	F	F	F	F	F	F
Mesh screen	M	M	M	M	M	M
Perforated or slotted	P	P	P	P	P	P
Screen	S	S	S	S	S	S
Well point	W	W	W	W	W	W
Open hole	X	X	X	X	X	X
Other[Specify]	Z	Z	Z	Z	Z	Z

33: LENGTH OF OPENINGS mm						
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33: WIDTH OF OPENINGS mm						
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33: DISTANCE BETWEEN OPENINGS						
Horizontal mm						
Vertical mm						

33: METHOD OPENINGS MADE						
Sawn	A	A	A	A	A	A
Drilled	D	D	D	D	D	D
Electric cut	E	E	E	E	E	E
Gas cut	G	G	G	G	G	G
Machine cut	M	M	M	M	M	M
Punched	P	P	P	P	P	P
Screen	S	S	S	S	S	S
Well point	W	W	W	W	W	W
Wire wound	X	X	X	X	X	X
Other[Specify]	Z	Z	Z	Z	Z	Z

34: FILL/GRAVELPACK [Use only the column/s where fill was used with the casing described above.]						
Depth to top [m]						
Depth to bottom [m]						

34: TYPE OF FILL						
Bentonite or clay	B	B	B	B	B	B
Cement	C	C	C	C	C	C
Gravel [> 2mm]	G	G	G	G	G	G
Sand [< 2mm]	S	S	S	S	S	S
Bottom closed	X	X	X	X	X	X

IMPORTANT: BOREHOLE OWNER

Only a complete set of 6 forms must be sent to:

Directorate : GEOHYDROLOGY
Dept Water Affairs
P/B X313
PRETORIA 0001

DO NOT SEND ONE FORM AT A TIME.

100 PUMPING TEST; 60,61 WATER LEVEL

NATIONAL GROUND WATER DATA BASE

Company
Address/Code
Signature
Name & Position [print]

112:Customer Name
Postal Address
Street Address
Plot/Erf No. 113:Borehole No.
Farm Name

PUMPING TEST DATA SHEET

23:REPORTING INSTITUTION
For office use only

5:TEST STARTED

Date							
Time							

6:METHOD TESTED		Duration/hrs	
Air (blow out) test	A		
Bailer test	B		
Free flow test	F		
Owner test	O		
Controlled pumping test	P		
Controlled recovery test	R		
Slug test	S		

7:DEPTH TO PUMP INTAKE (m)
(Only if P is chosen above)

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INSTRUCTIONS : 8, 9 & 10 only to be filled in once CONTROLLED PUMPING TEST is completed. See Discharge Rate Sheet overleaf.

8:RECOMMENDED ABSTRACTION (l/s)

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9:TRANSMISSIVITY (m²/day)

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10:STORATIVITY

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11:COMMENT

IMPORTANT : BOREHOLE OWNER
Only a complete set of 6 forms must be sent to :
Directorate : GEOHYDROLOGY
Dept Water Affairs
P/B X313
PRETORIA 0001
DO NOT SEND ONE FORM AT A TIME.

WATER LEVEL DATA SHEET

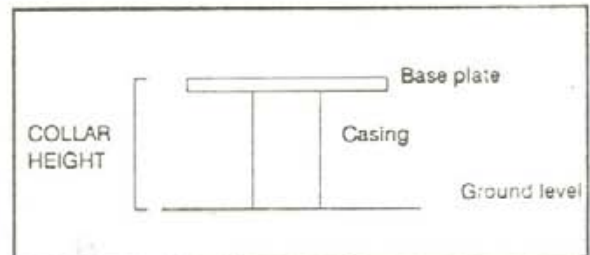
DO NOT FILL IN IF CONTROLLED PUMPING TEST IS PERFORMED.
Use for any other water level measurements taken. Use one column for each measurement.

6:MEASUREMENT METHOD	1	2	3	4	5	6	7
Airline	A	A	A	A	A	A	A
Electrical contact meter	E	E	E	E	E	E	E
Pressure gauge	P	P	P	P	P	P	P
Recorder	R	R	R	R	R	R	R
Steel tape	S	S	S	S	S	S	S
Reported, unknown	U	U	U	U	U	U	U
Estimate	X	X	X	X	X	X	X

7:WATER LEVEL STATUS	1	2	3	4	5	6	7
Water level affected by nearby pumping/drilling	A	A	A	A	A	A	A
Dry	D	D	D	D	D	D	D
Flowing	F	F	F	F	F	F	F
Obstruction, no water level measured	O	O	O	O	O	O	O
Pumping water level	P	P	P	P	P	P	P
Recovering water level	R	R	R	R	R	R	R
Static water level	S	S	S	S	S	S	S

8:COLLAR HEIGHT (m)

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9:DATA SOURCE	1	2	3	4	5	6	7
Driller	D	D	D	D	D	D	D
Geologist	G	G	G	G	G	G	G
Pump operator	P	P	P	P	P	P	P
Other[Specify]	Z	Z	Z	Z	Z	Z	Z

61:DATE

Month							
Day							

61:TIME

hrs							
mins							

61:WATER LEVEL (m below casing top)

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61:COMMENT

Form 5e

2:MAP CODE

BOREHOLE TEST RECORD SHEET

REQ / PROJ. NO. :	MAP REFERENCE	PROVINCE :
BOREHOLE NO. :	COORDINATES (DD-MM-SS) Lo:	DISTRICT :
ALT. BH. NO. :	LATITUDE X:	FARM NAME :
ALT. BH. NO. :	LONGITUDE Y:	SITE NAME :
BOREHOLE DEPTH (m):	DATUM LEVEL ABOVE CASING (m):	EXISTING PUMP:
WATER LEVEL (m bgl):	CASING HEIGHT (magl):	CONTRACTOR:
DEPTH OF PUMP (m):	BH DIAM. (PUMP INLET) (mm):	PUMP TYPE :

STEPPED DISCHARGE TEST AND RECOVERY

DISCHARGE RATE 1					DISCHARGE RATE 2					DISCHARGE RATE 3				
DATE:		TIME:			DATE:		TIME:			DATE:		TIME:		
Time (min)	Draw-down (m)	Yield (l/s)	Time (min)	Recovery (m)	Time (min)	Draw-down (m)	Yield (l/s)	Time (min)	Recovery (m)	Time (min)	Draw-down (m)	Yield (l/s)	Time (min)	Recovery (m)
1			1		1			1		1			1	
2			2		2			2		2			2	
3			3		3			3		3			3	
5			5		5			5		5			5	
7			7		7			7		7			7	
10			10		10			10		10			10	
15			15		15			15		15			15	
20			20		20			20		20			20	
30			30		30			30		30			30	
40			40		40			40		40			40	
50			50		50			50		50			50	
60			60		60			60		60			60	
70			70		70			70		70			70	
80			80		80			80		80			80	
90			90		90			90		90			90	
100			100		100			100		100			100	
110			110		110			110		110			110	
120			120		120			120		120			120	
			150					150					150	

DISCHARGE RATE 4					DISCHARGE RATE 5					DISCHARGE RATE 6				
DATE:		TIME:			DATE:		TIME:			DATE:		TIME:		
Time (min)	Draw-down (m)	Yield (l/s)	Time (min)	Recovery (m)	Time (min)	Draw-down (m)	Yield (l/s)	Time (min)	Recovery (m)	Time (min)	Draw-down (m)	Yield (l/s)	Time (min)	Recovery (m)
1			1		1			1		1			1	
2			2		2			2		2			2	
3			3		3			3		3			3	
5			5		5			5		5			5	
7			7		7			7		7			7	
10			10		10			10		10			10	
15			15		15			15		15			15	
20			20		20			20		20			20	
30			30		30			30		30			30	
40			40		40			40		40			40	
50			50		50			50		50			50	
60			60		60			60		60			60	
70			70		70			70		70			70	
80			80		80			80		80			80	
90			90		90			90		90			90	
100			100		100			100		100			100	
110			110		110			110		110			110	
120			120		120			120		120			120	
			150					150					150	
			180					180					180	
			210					210					210	
			240					240					240	

COMMENTS:

40 INSTALLATION

NATIONAL GROUND WATER DATA BASE

Company
Address/Code
Signature
Name & Position [print]

112:Customer Name	
Postal Address	
Street Address	
Plot/Erf No.	113:Borehole No.
Farm Name	

5:INSTALLATION DATE

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

6:INSTALLATION TYPE	
Airlift	A
Centrifugal pump	C
Gravity suction	G
Hand pump	H
Jet	J
Screw-type pump	M
No equipment	N
Observation tube	O
Piston pump	P
Powerhead	Q
Recorder	R
Submersible pump	S
Turbine	T
Windpump	W
Windpump and powerhead	X
Other[Specify]	Z

7:DEPTH TO PUMP INTAKE (m)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

8:TYPE OF POWER	
Diesel engine	D
Electric engine	E
Hand	H
Wind pump	W
Other[Specify]	Z

9:PUMP POWER RATING [kW]

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10:MANUFACTURER OF PUMP

--

11:SERIAL No OF PUMP

--

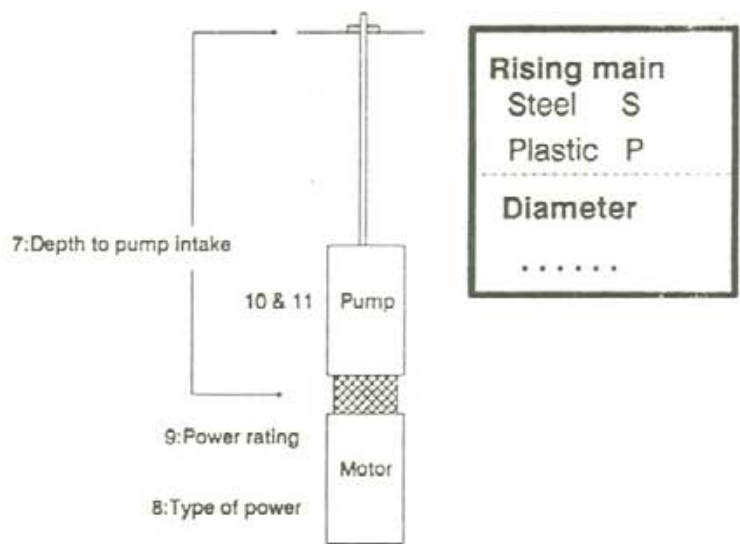
12:POWER METER No (electrical)

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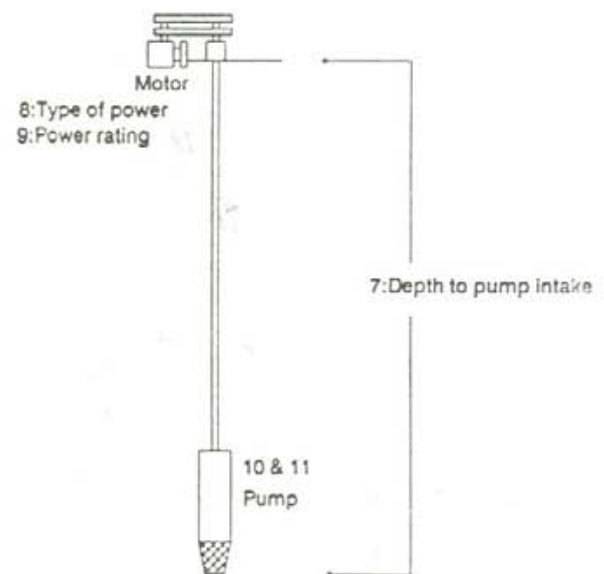
13:MONITORING FACILITY	
Airline	A
Piezometer inside casing	I
Piezometer outside casing	O
Pressure transducer	T
Other[Specify]	Z

14:DATA SOURCE	
Driller's logs	D
Geologist, technician, operator's record	G
Owner's record	O
Pump operator's record	C
Other[Specify]	Z

IMPORTANT : BOREHOLE OWNER
 Only a complete set of 6 forms must be sent to :
 Directorate : GEOHYDROLOGY
 Dept Water Affairs
 P/B X313
 PRETORIA 0001
 DO NOT SEND ONE FORM AT A TIME.



Submersible pump



Lineshaft pump

Form 6a

2:MAP CODE

RECORD OF EXISTING EQUIPMENT AT BOREHOLE	
Borehole No.	Date
District	Contractor
Village/Farm	
Locality	
ITEM(S) PARAMETER(S)	DESCRIPTION (furnish particulars as are relevant to the specific installation)
TYPE OF INSTALLATION	(State type of pump, eg. reciprocal cylinder, mono-type, submersible, hand, wind, solar, etc.)
Type Name & model Depth installed (m) Element diameter (mm) Element stroke (mm)	
PIPE COLUMNS & SHAFTS	
Diameter (mm) Length / section (m) No. of sections Pipe material Shaft diameter (mm)	
MOTORIZED PUMP (State type of motor, eg. electric or diesel.)	
Type Name/model of motor Motor power rating (kW) Motor pulley diam. (mm) Pump pulley diam. (mm)	
HANDPUMP	
Name/model	
WINDPUMP	
Wheel diameter (m) Mast height (m)	
SOLAR PUMP	
No. of panels Rating per panel (Watts)	
ANCILLARY EQUIPMENT	
Storage tank volume (m ³) Stand height (m) Water meter name/model Water meter reading	

VERTICALITY TEST

Company

Customer Name

Address/Code

Postal Address

Signature

Street Address

Name &
Position
(print)

Plot/Erf No.

Borchole No.

Farm Name

DEPTH
(m)DEFLECTION
(m)DEFLECTION
CALCULATION
FACTORACTUAL
DRIFT
(mm)COMPASS
DIRECTION

Deflection calculation factor = $(\text{depth} + \text{tripod height}) \div \text{tripod height}$.
 Actual drift = deflection x deflection calculation factor

GROUNDWATER SAMPLE CUSTODY

2:MAP CODE

INSTRUCTIONS

1 SAMPLING POINT TYPE CODE

NON-STATION	STATION
N01 = BOREHOLE	= S01
N02 = ARTESIAN BOREHOLE	= S02
N05 = MINE	= S05
N20 = FOUNTAIN / SPRING	= S20
N21 = RIVER / SPRUIT / CREEK	= S21
N51 = PAN	= S51
N79 = OTHER	= S79

2 DRAINAGE REGION

i.e.
A21 = 0121
J 12 = 0912

3 SAMPLING METHOD CODE

I = IRREGULAR INTV. GRAB
M = PUMPED
U = UNKNOWN
O = FLOWING

4 WATER USE CODE

AD = AGRICULTURAL AND DOMESTIC
AI = IRRIGATION
AS = STOCK WATERING
DA = DOMESTIC
DG = GARDENING
E = NATURE CONSERVATION
P = PUBLIC
TC = COMMERCIAL
TM = MINING
TP = POWER GENERATION

5 EQUIPMENT CODE

A = AIRLIFT
C = CENTRIFUGAL PUMP
H = HAND PUMP
J = JET PUMP
M = MONO PUMP
N = NONE
P = PISTON PUMP
O = POWER HEAD PUMP
R = WATER LEVEL RECORDER
S = SUBMERSIBLE PUMP
T = TURBINE PUMP
W = WIND PUMP
Z = OTHER

6 DEPT CODE

1 = EASTERN CAPE
2 = HIGHVELD
3 = NATAL
4 = OVS
5 = TVL
6 = WESTERN CAPE

7 PRESERVE CODE

= UNKNOWN
0 = UNPRESERVED
1 = Hg Cl 2
2 = HNO3
3 = H2SO4
4 = Na OH
5 = COOLING

8 ANALYSE FOR

MACR01	MACRO
MACR02	MACRO + B
MACR03	MACRO + TURB
PHOS01	MACRO + KN + TP
PHOS02	MACRO + B + KN + TP
TRME01	TRACE ELEMENTS
TRME02	HG
TRME03	AL + FE
OO	UNKNOWN

9 PROJECT NUMBER

= NONE
GH = GEOHYDROLOGY
HN = HYDRO RESEARCH INST.
TH = APPLIED HYDROLOGY

H NO

BATCH NO

SAMPLING POINT TYPE CODE:

BOTTLE NO.:

DRAINAGE REGION (EG. D41):

1:50 000 MAP NO

LAT (DMS)

LONG(DMS)

L/L ACC:

0	1	2	3	4
1m	10m	100m	1000m	10000m

DECIMAL

DECIMAL

Non-sta. No.:

W No:

Geohydrology No.:

FARM / PLACE

FARM NO.:

Province	District	Farm No
<input type="text"/>	<input type="text"/>	<input type="text"/>

PROJECT No.:

SAMPLING METHOD CODE:

Hole depth (m):

DATE sampled

TIME

Altitude (m):

Site ID

Water use code:

Equipment code:

Dept Region

Temperature (°C)

PRESERVE WITH

Water level (m)

Depth (m) or Pump rate (L/s)

ANALYSE FOR

SAMPLER

Remarks: