

GOVERNMENT OF BOTSWANA

BOREHOLE COMPLETION CERTIFICATE

G.S. 184

OFFICIAL BH NO. 22919

DISTRICT: **GHAZI** MAP SHEET: LAT: **22 42 88** LONG: **20 32 305**
 LOCATION: **MATLHO-A-PHUDUHUBU NO.3**
 NAME AND ADDRESS OF APPLICANT: **MAIKOPANYO SYNDICATE**
 SITED BY: **GABOREKELWE** DRILLED BY: **BPWPL BOTSWANA DRILLING**
 DATE OF COMMENCEMENT: **1/7/97** DATE OF COMPLETION: **4/7/97**

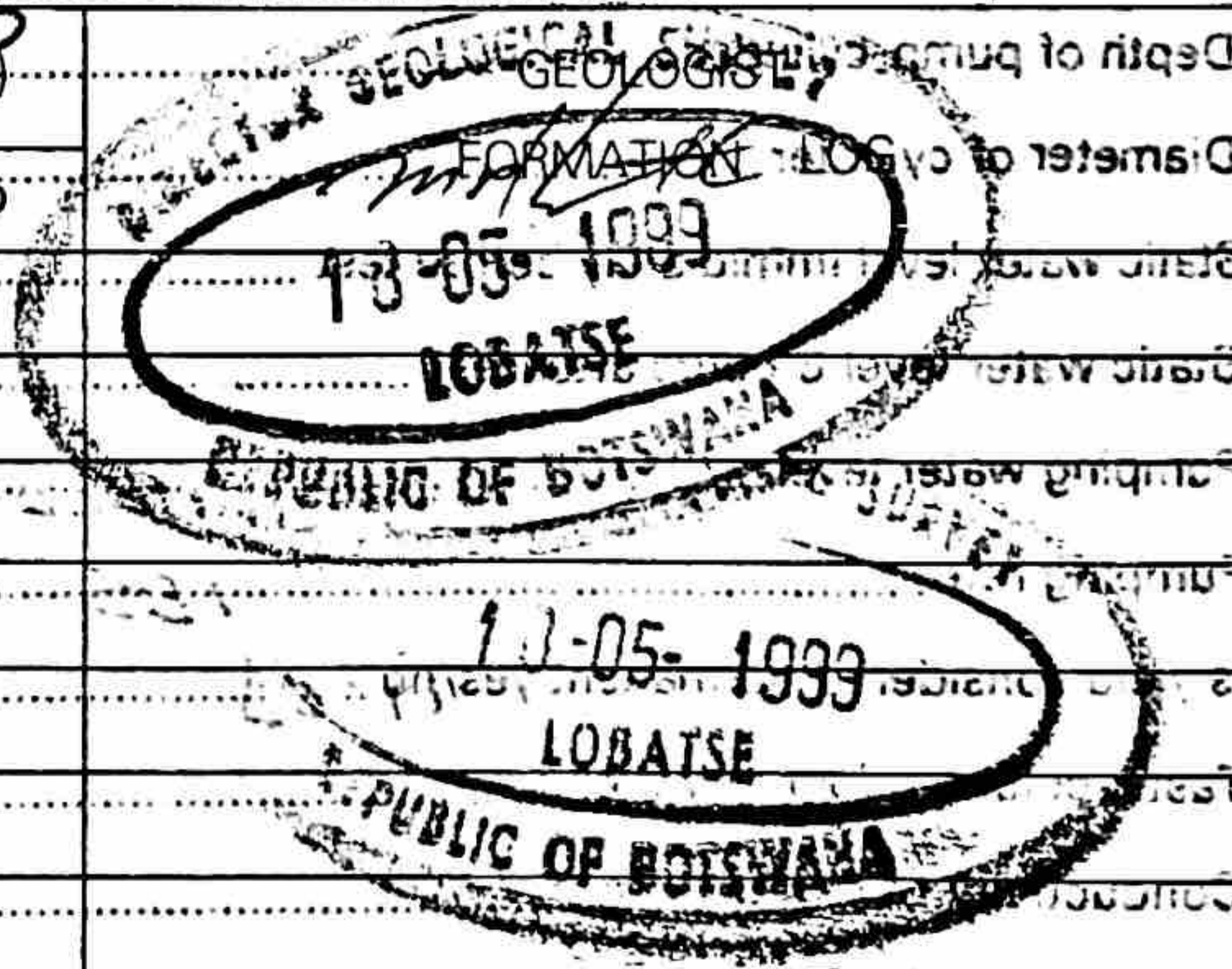
DRILLED DIAMETER			CASING LEFT IN BOREHOLE			
Diameter mm	From m	To m	Diameter mm	Type	From m	To m
254	0	36	167	STEEL	0	137
204	36	137				

SCREEN DETAILS					AQUIFER DETAILS (APPROX SCALE)			
Dia mm	Type	Slot size	From m	To m	No	Water struck m	Water level m	Estimated yield m ³ /h
167	STEEL	0.8mm	122	134	2	122	115	1.8
					3			

Total depth of borehole: **137m** Main aquifer: **123 - 134**

Static water level (SWL) on completion of borehole: **115** in m below top of casing

DEPTH (m)		DRILLER	DEPTH (m)	
From	To	FORMATION LOG	From	To
0	9	RED SAND		
9	15	LIME STONE		
15	36	YELLOW SAND		
36	42	" " WITH L. SAND		
42	81	YELLOW SAND		
81	87	RED SAND		
87	123	RED SANDSTONE WITH SLATE LAYERS		
123	137	RED SANDSTONE WITH WATER		



REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc

SKETCH MAP OF BOREHOLE SITE

BOREHOLE COMPLETION CERTIFICATE

G.S. 184

DISTRICT: **ATHANZI**
 LOCATION: **DIETHEA - A - PANGHUNG W.A.S.**
 NAME AND ADDRESS OF A CLIENT: **MAKUNDAPIA SYNDICATE**
 ORDERED BY: **P.C. BOX 84, CHARLES WILSON**
 DATE OF COMPLETION: **11/1/71**

MAP SHEET: **22.4538**
 LAT: **02° 35' 02" S**
 LONG: **102° 35' 53" E**

DATE OF COMPLETION: **11/1/71**
 ORDERED BY: **P.C. BOX 84, CHARLES WILSON**
 NAME AND ADDRESS OF A CLIENT: **MAKUNDAPIA SYNDICATE**
 LOCATION: **DIETHEA - A - PANGHUNG W.A.S.**
 DISTRICT: **ATHANZI**

NEW XANAGAS

CASING LEFT IN BOREHOLE				DRILLED DIAMETER		
To m	From m	Type	Diameter mm	To m	From m	Diameter mm
1.5	0	STEEL	100	0	0	125
				1.5	0	104

APPROX SCALE: **200m**

ACQUIFER DETAILS				SCREEN DETAILS			
No	Water struck	Water level	Estimated yield	To	From	Slot	Type

YIELD TEST RECORD (Detailed pumping test to be given on form G.S. 200)

All measurements in (m) below top of casing

Date of test: Total time tested: h

Depth of borehole before test: m After test: m

Type of pump/bailer:

Depth of pump-cylinder: m

Diameter of cylinder: mm No. of strokes/min:

Static water level immediately before test: m

Static water level 8 hours after test: m

Pumping water level: **FINAL BLOWN YIELD 1.8** m

Pumping rate: **YES** m³/h

Is yield considered permanent yes/**GOOD**

Taste, colour, odour of water:

Conductivity of water: micromhos.

No. of water samples submitted: by:

Water use:

Date: Signature of driller:

Date: Signature of borehole inspector:

- Copies:
- White - Owner of bh. (private bh.)
 - Dept. Water Affairs (government bh.)
 - Yellow - Dept. Geological Survey
 - Blue - Dept. Water Affairs
 - Pink - Driller

GOVERNMENT OF BOTSWANA

BOREHOLE COMPLETION CERTIFICATE

OFFICIAL BH NO. 78883

G.S. 184

DISTRICT Ghanzi MAP SHEET 22°47'34 LAT 20°04'56 LONG
 LOCATION MAKVUNDA
 NAME AND ADDRESS OF APPLICANT MR NICOLAS KAZIRA
PO BOX 126, CHARLES HILL
 SITED BY CLIENT DRILLED BY PWA GROUNDWATER DEVELOPERS
 DATE OF COMMENCEMENT 15-04-99 DATE OF COMPLETION 18-04-99

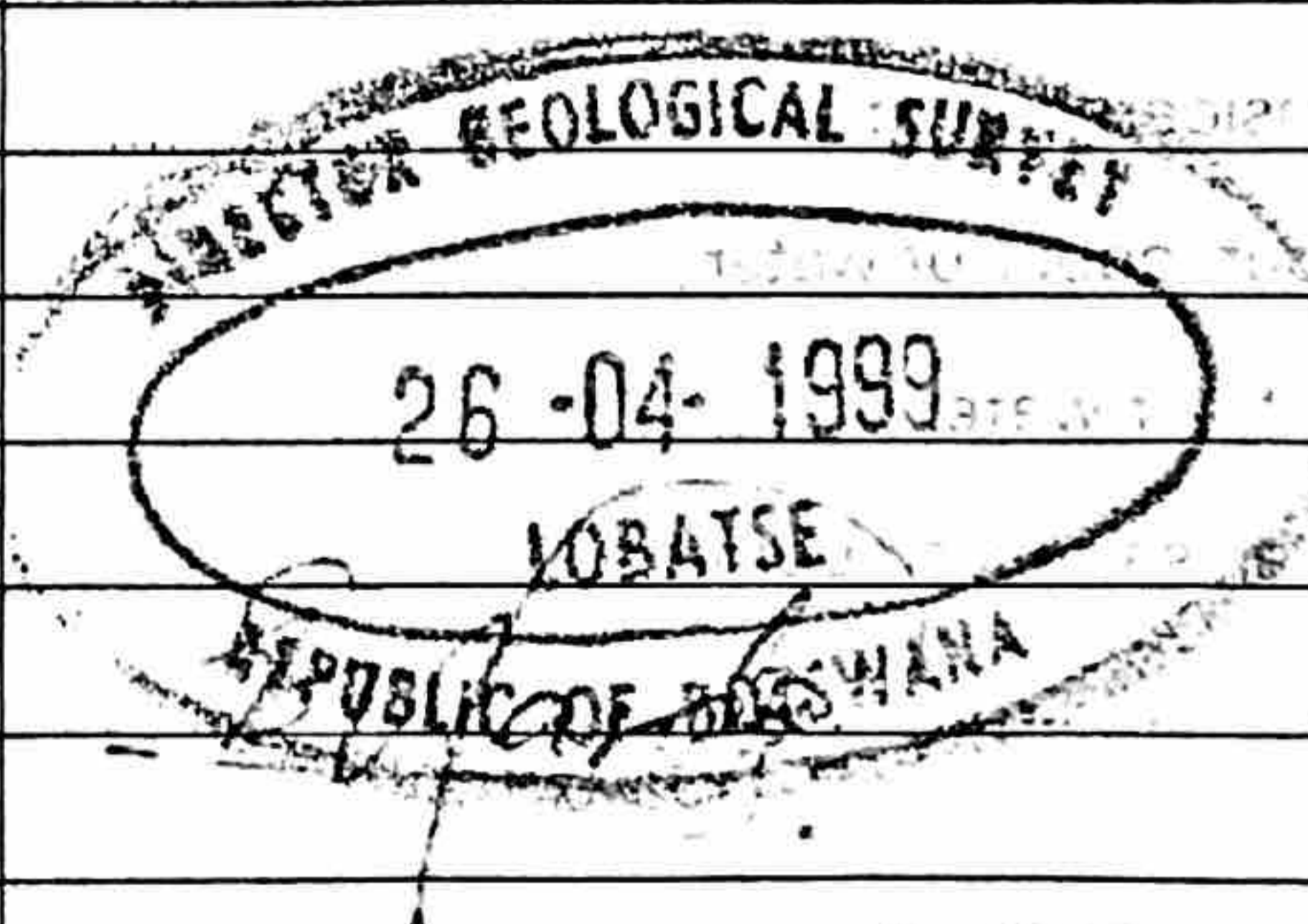
DRILLED DIAMETER		
Diameter mm	From m	To m
254	0	24
203	24	84
165	84	185

CASING LEFT IN BOREHOLE			
Diameter mm	Type	From m	To m
259	PLAIN	0	4
205	PLAIN	0	24
167	PLAIN	0	84

SCREEN DETAILS				
Dia mm	Type	Slot size	From m	To m

AQUIFER DETAILS			
No	Water struck m	Water level m	Estimated yield m ³ /h
129			2.1
169			6.0
3			

Total depth of borehole 185 m Main aquifer 169 m
 Static water level (SWL) on completion of borehole 67.5 in m below top of casing

DEPTH (m)	DRILLER FORMATION LOG		GEOLOGIST FORMATION LOG	
	From	To	From	To
0	2	KALAHARI SAND		
2	6	CALCRETE		
6	23	KALAHARI SAND		
23	30	SILCRETE		
30	81	MUDSTONE - CLAY		
81	185	QUARTZITE		
				
No. of sludge samples submitted		<u>62</u>		

REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc :

SKETCH MAP OF BOREHOLE SITE

BOREHOLE COMPLETION CERTIFICATE D 184

DATE OF COMPLETION: 12-04-99

CLIENT: Mr. Nicholas K. K. K.

DRILLER: P. K. K.

Borehole No: 12-04-99

CASING				DRILLED DIAMETER			
To (m)	From (m)	Type	Diameter (mm)	To (m)	From (m)	Type	Diameter (mm)
0	4	4" DIA	102	0	4	4" DIA	102
4	22	6" DIA	152	4	22	6" DIA	152
22	40	8" DIA	202	22	40	8" DIA	202

APPROX SCALE: _____

Give distances (m/km) to nearest village/land mark/borehole/road

YIELD TEST RECORD (Detailed pumping test to be given on form G.S. 200)

All measurements in (m) below top of casing

Date of test: 12-04-99 Total time tested: 1 h

Depth of borehole before test: 25 m After test: 25 m

Type of pump/bailer: 2-FJ

Depth of pump-cylinder: _____ m

Diameter of cylinder: _____ mm No. of strokes/min: _____

Static water level immediately before test: 67.5 m

Static water level 8 hours after test: 67.5 m

Pumping water level: _____ m

Pumping rate: _____ m³/h

Is yield considered permanent yes/no: YES

Taste, colour, odour of water: CLEAR, LIGHTLY SALTY, NO ODOR

Conductivity of water: _____ micromhos

No. of water samples submitted: 1 by P. K. K.

Water use: _____

Date: 12-04-99 Signature of driller: _____

Date: 12-04-99 Signature of borehole inspector: _____

- Copies:
- White - Owner of bh. (private bh.)
 - Dept. Water Affairs (government bh.)
 - Yellow - Dept. Geological Survey
 - Blue - Dept. Water Affairs
 - Pink - Driller

DEPARTMENT of WATER AFFAIRS

BOREHOLE COMPLETION CERTIFICATE

Borehole No.
4284

DISTRICT ITHELAHARI
 GRID REF. _____
 DRILLER MR M. TIBELA
 DRILLING STARTED 19-6-83

PLACE NGWATLE
 APPLICANT WILDELIFE
 RIG BX No. 5094
 DRILLING FINISHED 10-8-83

Distance in Km and direction from nearest well known Locality _____

CASING IN BOREHOLE				DRILLING DETAILS		
DIA	LENGTH	TYPE	DATE INSERTED/REMOVED	mm from	m, to	m
10"	70 m	10" casing		250 mm from	0.00	m, to 70
"	"	"	"	200 mm from	70 m	m, to 154
"	"	"	"	TOTAL DEPTH FROM SURFACE 154 m		

PUMPING TEST
 From _____ hrs on _____
 To _____ hrs on _____
 Total time testing _____
 Cylinder size _____ Set A _____
 Length of stroke _____
 Static Water Level before Test _____
 Static Water Level After Test _____

WATER
 Quality of water SALTY SALTY
 Purpose for which water will be used WILDELIFE
 Is yield considered permanent _____
 No of water samples submitted 1
 No. of Sludge Samples Submitted 31
 Temperature of Water _____
 First water at 124
 Supply increased at _____
 ESTIMATED YIELD in litres per minute* NOT TESTED

FROM	TO	STRATA	PUMPING TEST				RECOVERY	
			Elapsed Time	Water Level	Strokes p/m	Yield	Elapsed time	Water level
0	6	SAND						
6	36	SAND STONE	0.15				0.15	
36	56	POt clay	0.30				0.30	
56	154	SHALE	0.45				0.45	
			1.00				1.00	
			1.30				1.30	
			2.00				2.00	
			2.30				2.30	
			3.00				3.00	
			4.00				4.00	
			5.00				5.00	
			6.00				6.00	
			7.00				7.00	
			8.00				8.00	
			9.00				9.00	

I certify that the above particulars are correct and that the borehole has been completed in accordance with the Laws of BOTSWANA relating to drilling.
 DATE 8-83 SIGNATURE of DRILLER M. TIBELA

*It is recommended that the borehole be equipped for only up to two thirds this figure.

GOVERNMENT OF BOTSWANA

BOREHOLE COMPLETION RECORD

OFFICIAL BH NO. 6757

G.S. 184

DISTRICT: GALAGADI MAP SHEET VI LAT LONG
 LOCATION: N'lovatla Village
 PROJECT: SETELEMENTS L.W.F.
 NAME AND ADDRESS OF APPLICANT: L.W.F.
 SITED BY: J. van Dyk DRILLED BY: Van Dyk's Drilling
 DATE OF COMMENCEMENT: 23/8/1998 DATE OF COMPLETION: 25/8/1998

DRILLED DIAMETER		
Diameter mm	From m	To m
10"	0	50
8"	50	225

CASING LEFT IN BOREHOLE			
Diameter mm	Type	From m	To m
10"	Steel	0	50
6 1/2"	11m	0	230

SCREEN DETAILS				
Dia mm	Type	Slot size	From m	To m
6 1/2"	Steel	5mm	220	225

ACQUIRY DETAILS			
No	Water struck m	Water level m	Estimated yield m ³ /h
1	80	-	Damp
2	224	-	5 m ³ /h
3	-	-	-

Total depth of borehole: 230 m Main aquifer: 224 m

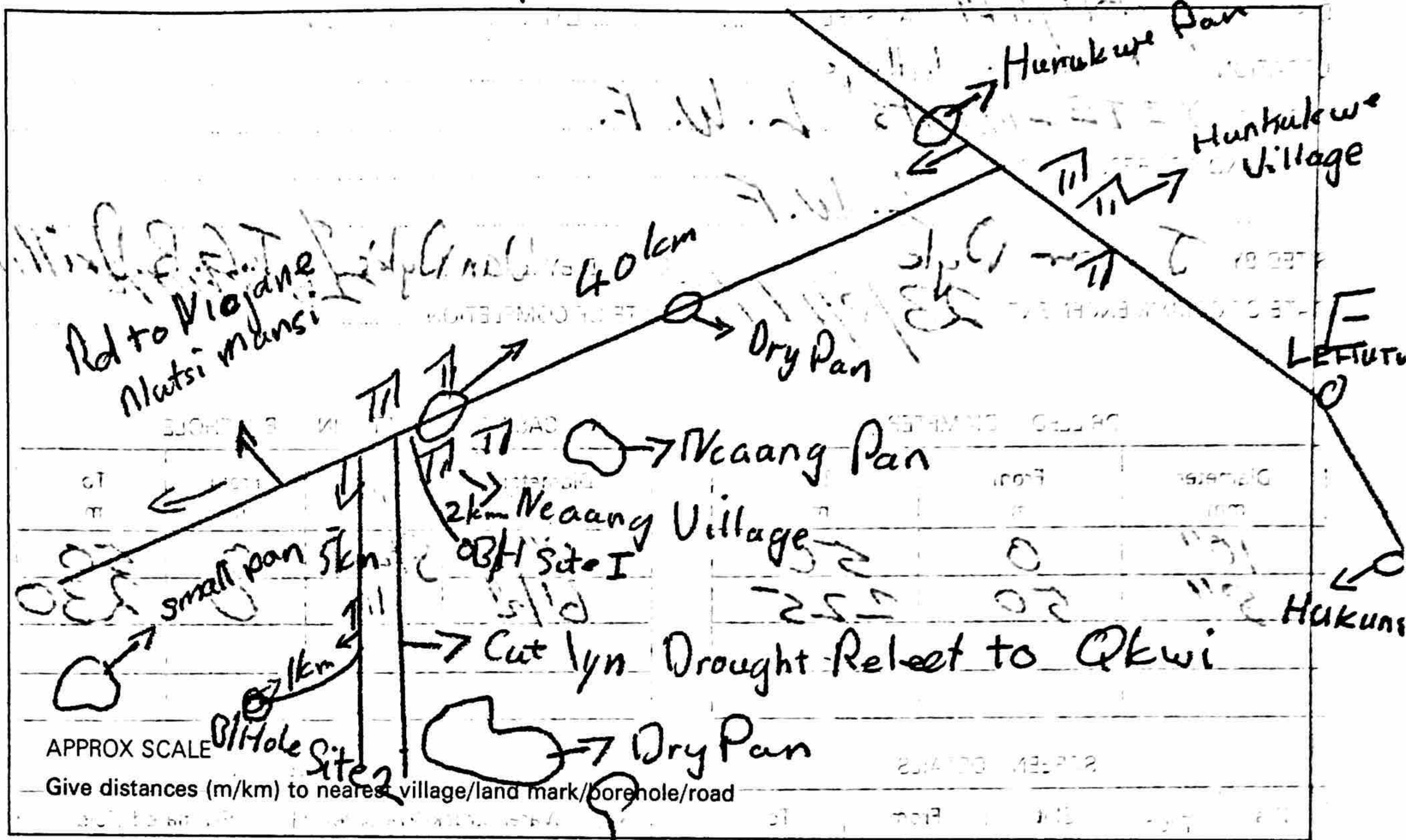
Static water level (SWL) on completion of borehole: 224 m in m below top of casing

DEPTH (m)		DRIILLER FORMATION LOG	DEPTH (m)		GEOLOGIST FORMATION LOG
From	To		From	To	
0	15	Yellowish Brown Sand			
15	21	Greyish Stone			
21	30	Reddish Stone Mixed M/stone			
30	60	" S/stone Mixed Red M/stone			
60	105	Greyish shale mixed M/stone			
105	109	Hard Sand Stone			
109	123	Semi Hard Grey shale			
123	189	Grey shale mixed S/stone			
189	207	Decomposed Dolomite			
207	225	Hard Black Dolomite			

No. of sludge samples submitted: 7

REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc.:
 easy, Mud stone + Clay semi Hard, no cavings but Red clay washed off before installing 6" casing. After upstroke Dolomite was very Hard. Good water strike. Slight salt content noted by grey shale.

SKETCH MAP OF BOREHOLE SITE



YIELD-TEST RECORD (Detailed pumping test to be given on form G.S. 183A and 183B)

All measurements in (m) below top of casing

Date of test: 22/9/90 Total time tested: 2 hrs h

Depth of borehole before test: 230 m. After test: 230 m

Type of pump/bailer: Air Blast

Depth of pump-cylinder: 230 m

Diameter of cylinder: _____ mm No. of strokes/min: _____

Static water level immediately before test: 88m m

Static water level 8 hours after test: 88 m

Pumping water level: _____ m

Pumping rate: ± 3 Qhm³h m³/h

Is yield considered permanent yes/no: Yes

Taste, colour, odour of water: Good semi salty.

Conductivity of water: ± 2800 TDS micromhos

No. of water samples submitted: 3 by: Driller

Water use: Domestic

Date: 22/9/90 Signature of driller: [Signature]

Date: 17/09/90 Signature of borehole inspector or borehole owner: [Signature]

TGB Drilling Contractors
 Botswana (Pty) Ltd
 P.O. Box 20679 Gaborone
 Ph. 312071 Fax 357739

- Copies: White - Owner of bh. (private bh.)
 - Dept. Water Affairs (government bh.)
 Yellow - Dept. Geological Survey
 Blue - Dept. Water Affairs
 Pink - Driller

Certificate Received

GOVERNMENT OF BOTSWANA

G.S. 184

BOREHOLE COMPLETION RECORD

OFFICIAL BH NO. BH 7246

DISTRICT: KGALAGADI MAP SHEET LAT 25° 59' 42" LONG 21° 29' 58"

LOCATION 107 km WEST OF TSAKONG

PROJECT ~~GEOPHYSICAL~~ MIDDLEPITS + MAKOPONG TGLP

NAME AND ADDRESS OF APPLICANT GEOLOGICAL SURVEY, LOBATSE

SITED BY WATER SURVEYS DRILLED BY PULA

DATE OF COMMENCEMENT 22/3/93 DATE OF COMPLETION 5/4/93

DRILLED DIAMETER

Diameter mm	From m	To m
12"	0	83
10"	83	171
8"	171	307
6 1/2"	307	372

CASING LEFT IN BOREHOLE

Diameter mm	Type	From m	To m
12"	PLAIN	0	6.1
10"	"	0	84.5
8"	"	0	171.95
6 1/2"	"	0	307.5

SCREEN DETAILS

Dia mm	Type	Slot size	From m	To m
/				

AQUIFER DETAILS

No	Water struck m	Water level m	Estimated yield m ³ /h
1	78		51.5
2	165		27.7
3	362		6.5

Total depth of borehole 372 m Main aquifer 78 - 133 m

372 15.9

Static water level (SWL) on completion of borehole in m below top of casing

DEPTH (m)		DRILLER FORMATION LOG	DEPTH (m)		GEOLOGIST FORMATION LOG
From	To		From	To	
0	57	SAND	331	372	SANDSTONE + SHALE
57	59	MUDSTONE			
59	68	SANDSTONE			
68	75	SHALE			
75	126	SANDSTONE			LOGGED BY
126	135	SHALE			R HUNT - HYDROGEOLOGIST.
135	177	SANDSTONE			D. O'SULLIVAN
177	216	SANDSTONE + SHALE			
216	224	SHALE			
224	264	SANDSTONE + SHALE			
264	331	SHALE			
No. of sludge samples submitted.....					

REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc:.....

ALL SATURATED SANDSTONE AQUIFERS.
FIRST TWO SEALED OFF

SKETCH MAP OF BOREHOLE SITE

107 km WEST OF TEHRI

MIDDLEBURY + KANPUR

BIOLOGICAL RESEARCH STATION

WATER PUMPS

CASING			DRILLED DIAMETER		
Depth (m)	Type	Material	Depth (m)	Type	Diameter (mm)
1.5	Open	1.5"	0	Open	1.5"
3.0	"	1.5"	1.5	Open	1.5"
3.0	"	2"	3.0	Open	2"
3.0	"	2.5"	3.0	Open	2.5"

APPROX SCALE

Give distances (m/km) to nearest village/land mark/borehole/road

YIELD TEST RECORD (Detailed pumping test to be given on form G.S. 183A and 183B)

All measurements in (m) below top of casing

Date of test..... Total time tested..... h

Depth of borehole before test..... m. After test..... m

Type of pump/bailer.....

Depth of pump-cylinder..... m

Diameter of cylinder..... mm No. of strokes/min.....

Static water level immediately before test..... m

Static water level 8 hours after test..... m

Pumping water level..... m

Pumping rate..... m³/h

Is yield considered permanent yes/no.....

Taste, colour, odour of water.....

Conductivity of water..... micromhos

No. of water samples submitted..... by.....

Water use.....

De Wet's Drilling Machines

P.O. GABERONES

No 983

Section of and Water Supply from Borehole No. 3301 (To be filled in by Driller).

(To be filled in at Headquarters).

PLACE & DISTRICT Kule, Ngwane L.P.M.U. Lamber

Name of Applicant Geo Survey

Date of commencement of work 2-6-77 Date of Completion 9-7-77

DEPTH		COLOUR AND NATURE OF STRATA
From	TO	
0	185	sand
185	360	soft sandstone
360	380	quartzite
380	480	sandstone
480	540	clay
540	700	sandstone

Diameter and Depth of Borehole
 12 ins. from surface to 185 feet
 8" ins. from 185 feet to 220 feet.
 Total depth from surface 700 feet

Pumping Test
 By *Pump pump *Bailer
 Inside diam of pump Cylinder 2" Mono
 Length of Stroke
 No. of strokes per minute
 Depth to which cylinder was inserted 600'
 Commencement of test 9-7-77 hour
 Completion of test 10-7-77 hour
 Total time testing 14 hours

DRILLER'S DAILY REPORT

12 hours development plunging & casing
544ft 5" casing and top 40' x 6" casing
390' x 5" perforated

Water
 Depth from surface at which water was struck 480 + 540 feet
 Depth from surface to which water rises 444 feet.
 Estimated yield per hour 1000 gals.
 Is yield considered permanent Yes
 Apparent quality of water Good
 Purpose for which water will be used cattle

Casing left in Borehole at Completion

Diameter	Length	Class
<u>8"</u>	<u>185'</u>	<u>Solid</u>
<u>5" + 40' 6"</u>	<u>684'</u>	<u>perf.</u>

Foreman R. S. ...
 Drill No. II Date 10-7-77

I certify that the above particulars are correct and that the Borehole has been completed in accordance with the Boring Regulations.

G.S. 184

DISTRICT MAKABALI MAP SHEET 34-X-BE LAT. 24° 10' S LONG. 28° 51' E
LOCATION NORTHERN BORDER CEMENT AREA
NAME AND ADDRESS OF APPLICANT DEPARTMENT OF WATER SUPPLY
PRIVATE JOB OFF, GABORONE
SITED BY CIEFILL DRILLED BY O.D. DRILLING
DATE OF COMMENCEMENT 12/10/94 DATE OF COMPLETION 17/10/94

DRILLED DIAMETER

Diameter mm	From m	To m
304"	0	36
254"	36	78
204"	78	120

CASING LEFT IN BOREHOLE

Diameter mm	Type	From m	To m
304	PLAIN	0	6
254	PLAIN	0	36,4?
204	PLAIN	70,76	78

SCREEN DETAILS

Dia mm	Type	Slot size	From m	To m

AQUIFER DETAILS

No	Water struck m	Water level m	Estimated yield m ³ /h
1			
2			
3			

Total depth of borehole 120 m Main aquifer — m

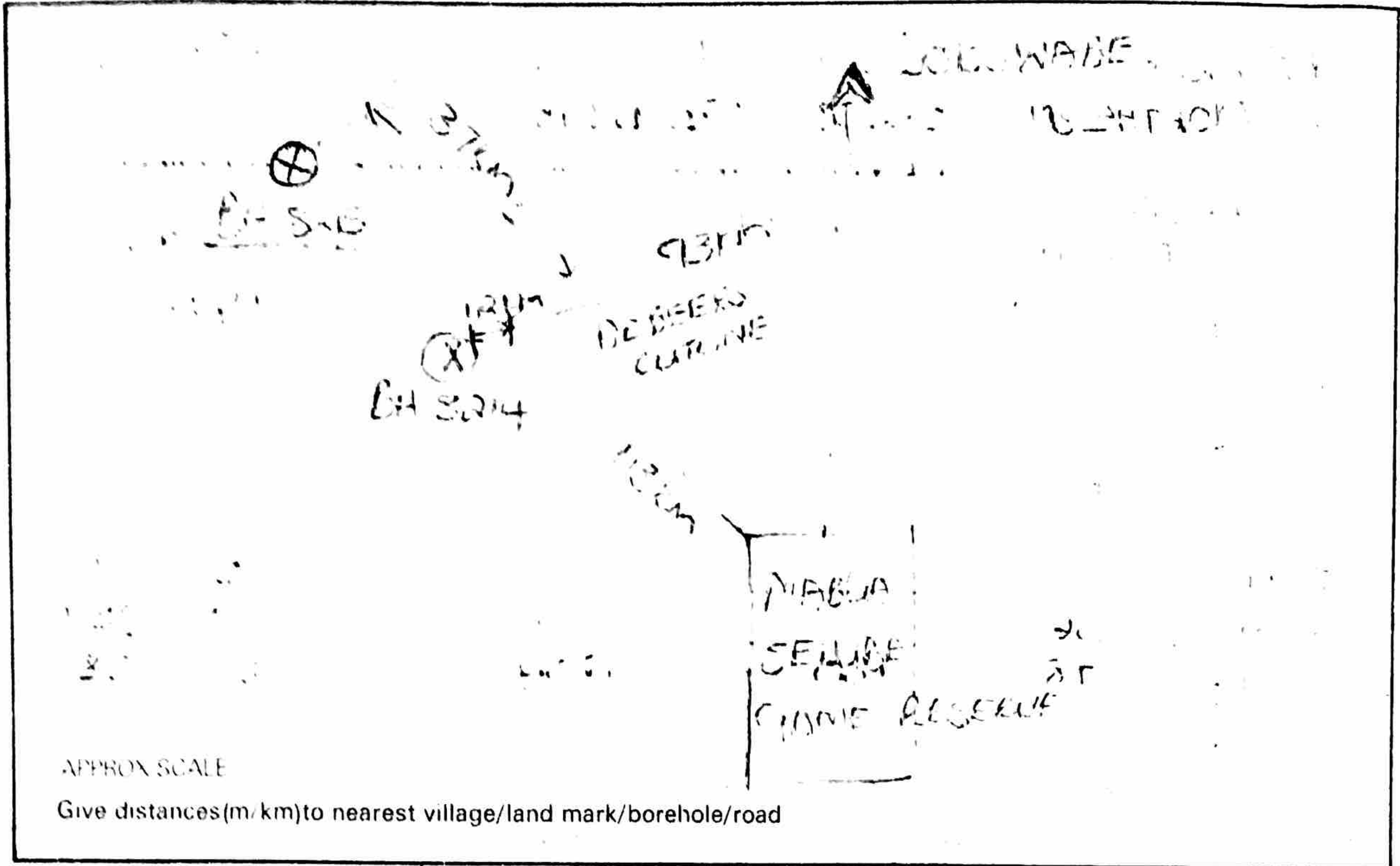
Static water level (SWL) on completion of borehole — in m below top of casing

DEPTH (m)		DRILLER FORMATION LOG	DEPTH (m)		GEOLOGIST FORMATION LOG
From	To		From	To	
0	36	UNCONSOLIDATED SAND	0	36	Unconsolidated light brown calcareous sand.
36	69	LIGHT BROWN SLTSTONE			
69	91	RED BROWN MUDSTONE	36	69	Calcareous light pinkish sandstone
91	96	DOLERITE			
96	102	GREY SILTSTONE	69	91	Red-brown and light grey siltstone
102	121	DOLERITE			
121	123	GREY SILTSTONE	91	96	Green-grey DOLERITE
123	128	DOLERITE	96	101	Light grey to grey SILTSTONE
			101	120	Green-grey DOLERITE
			120	128	light grey massive SILTSTONE
			128	120	Green-grey massive DOLERITE

No. of sludge samples submitted 6

REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc :
.....
.....
.....

SKETCH MAP OF BOREHOLE SITE



YIELD TEST RECORD (Detailed pumping test to be given on form G.S. 200)

All measurements in (m) below top of casing

Date of test 17/10/96 Total time tested h

Depth of borehole before test 150 m. After test 150 m

Type of pump/bailer DRILL RODS

Depth of pump-cylinder m

Diameter of cylinder mm. No. of strokes/min.

Static water level immediately before test m

Static water level 8 hours after test m

Pumping water level m

Pumping rate m³/h

Is yield considered permanent yes/no no

Taste, colour, odour of water

Conductivity of water micromhos.

No. of water samples submitted by

Water use

Date 21/10/96 Signature of driller: J.J. COENOAPE

Date 28/10/96 Signature of borehole inspector: [Signature]

O.D. DRILLING
P.O. BOX 30125
TLOKWENG
TEL: 312681

- Copies:
- White - Owner of bh. (private bh.)
 - Dept. Water Affairs (government bh.)
 - Yellow - Dept Geological Survey
 - Blue - Dept Water Affairs
 - Pink - Driller

DRILLING RECORDS
SIGN [Signature]
Department of Water Affairs

for GEOFLUX
GEOFLUX (PTY) LTD
P.O. BOX 854
GABORONE TEL. 375105

GOVERNMENT OF BOTSWANA

G.S. 184

BOREHOLE COMPLETION RECORD

OFFICIAL BH NO 6340

DISTRICT: Kgalegadi MAP SHEET 2320 D LAT 22 41 52 S LONG 31 00 00 E
 LOCATION Masetlheng
 PROJECT Petro-Canada / Botswana Government
 NAME AND ADDRESS OF APPLICANT Petro-Canada International
 Box # 2844 Calgary - Alberta Canada
 SITED BY Petro-Canada DRILLED BY SDS-Drilling LTD.
 DATE OF COMMENCEMENT April 5/89 DATE OF COMPLETION April 16/89

DRILLED DIAMETER

Diameter mm	From m	To m
7 7/8"	0	82
5 1/2"	82	340

CASING LEFT IN BOREHOLE

Diameter mm	Type	From m	To m
6"	Steel	0	82

SCREEN DETAILS

Dia mm	Type	Slot size	From m	To m

AQUIFER DETAILS

No	Water struck m	Water level m	Estimated yield m ³ /h
1	196		4 Liters/Minute
2			
3			

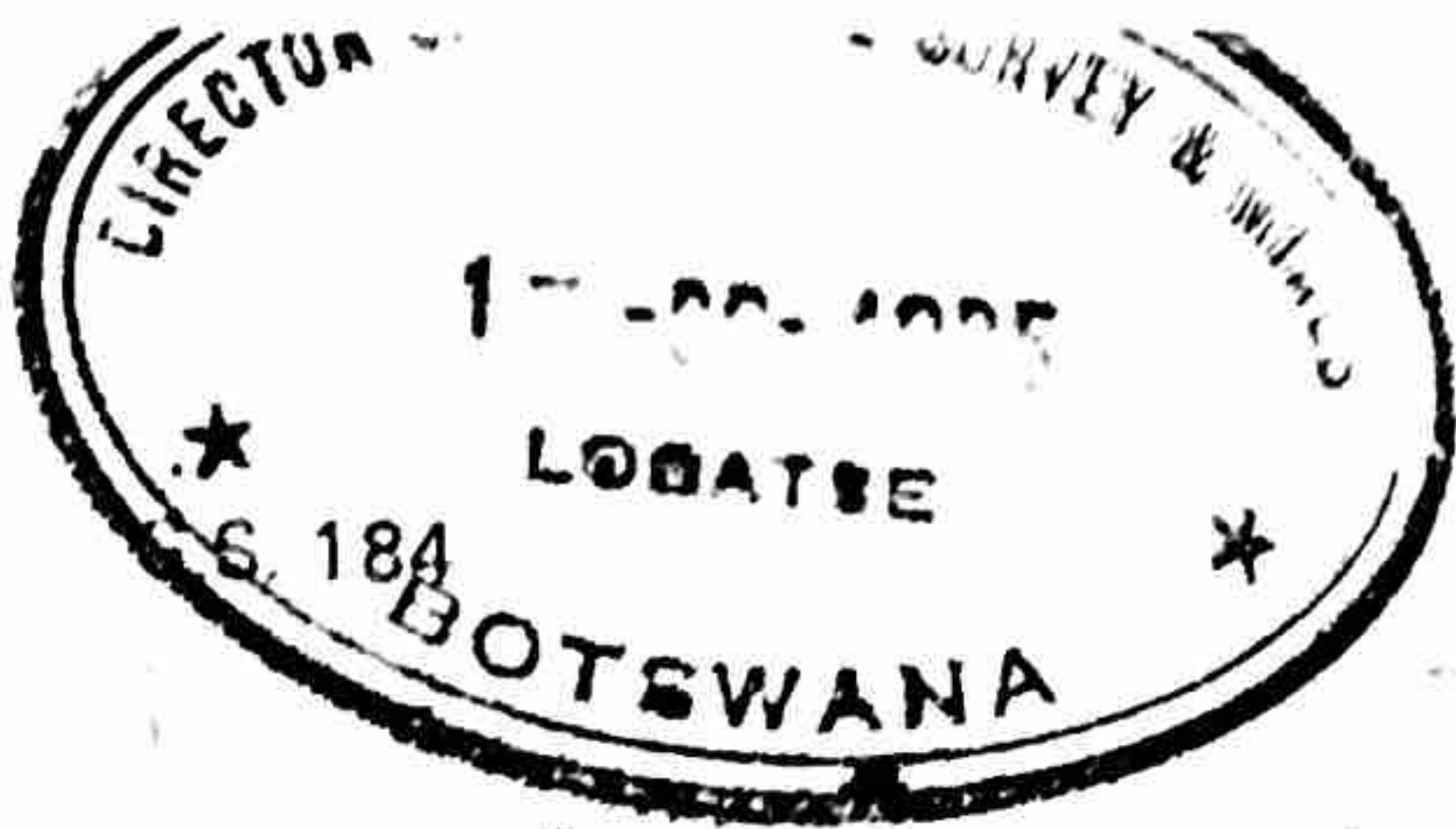
Total depth of borehole 340 m Main aquifer _____ m

Static water level (SWL) on completion of borehole 90.50 in m below top of casing

DEPTH (m)		DRILLER FORMATION LOG	DEPTH (m)		GEOLOGIST FORMATION LOG
From	To		From	To	
0	6	Sand			
6	24	Siltcrete Unconsolidated Sand			
24	51	Pebbly Siltstone			
51	138	Mudstone			
138	207	Carbonaceous Mudstone			
207	234	Black Shale			
234	340	Dolerite			
No. of sludge samples submitted 114					

REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc:

Dry Hole, very hard Dolerite



GOVERNMENT OF BOTSWANA
BOREHOLE COMPLETION CERTIFICATE

OFFICIAL BH NO Z 5338

DISTRICT KGALAGADI MAP SHEET..... LAT..... LONG.....
 LOCATION DUIILOANE - WEST OF HUKUNTSA
 NAME AND ADDRESS OF APPLICANT BOIPOPO SYNDICATE (ALPHAILE MOKGCRISO)
P.O. Box 32 HUKUNTSA
 SITED BY: SELF DRILLED BY: B.M. MOAPARE'S DRILLING SERVICES
P.O. BOX 1 HUKUNTSA
 DATE OF COMMENCEMENT 15th July 1985 DATE OF COMPLETION 15th August 1985

DRILLED DIAMETER

CASING LEFT IN BOREHOLE

Diameter mm	From m	To m
203	0	6
145	6	152

Diameter mm	Type	From m	To m
/			

SCREEN DETAILS

AQUIFER DETAILS

Dia mm	Type	Slot size	From m	To m
/				

No	Water struck m	Water level m	Estimated yield m ³ /h
1	/		
2			
3			

Total depth of borehole 152 m Main aquifer..... m

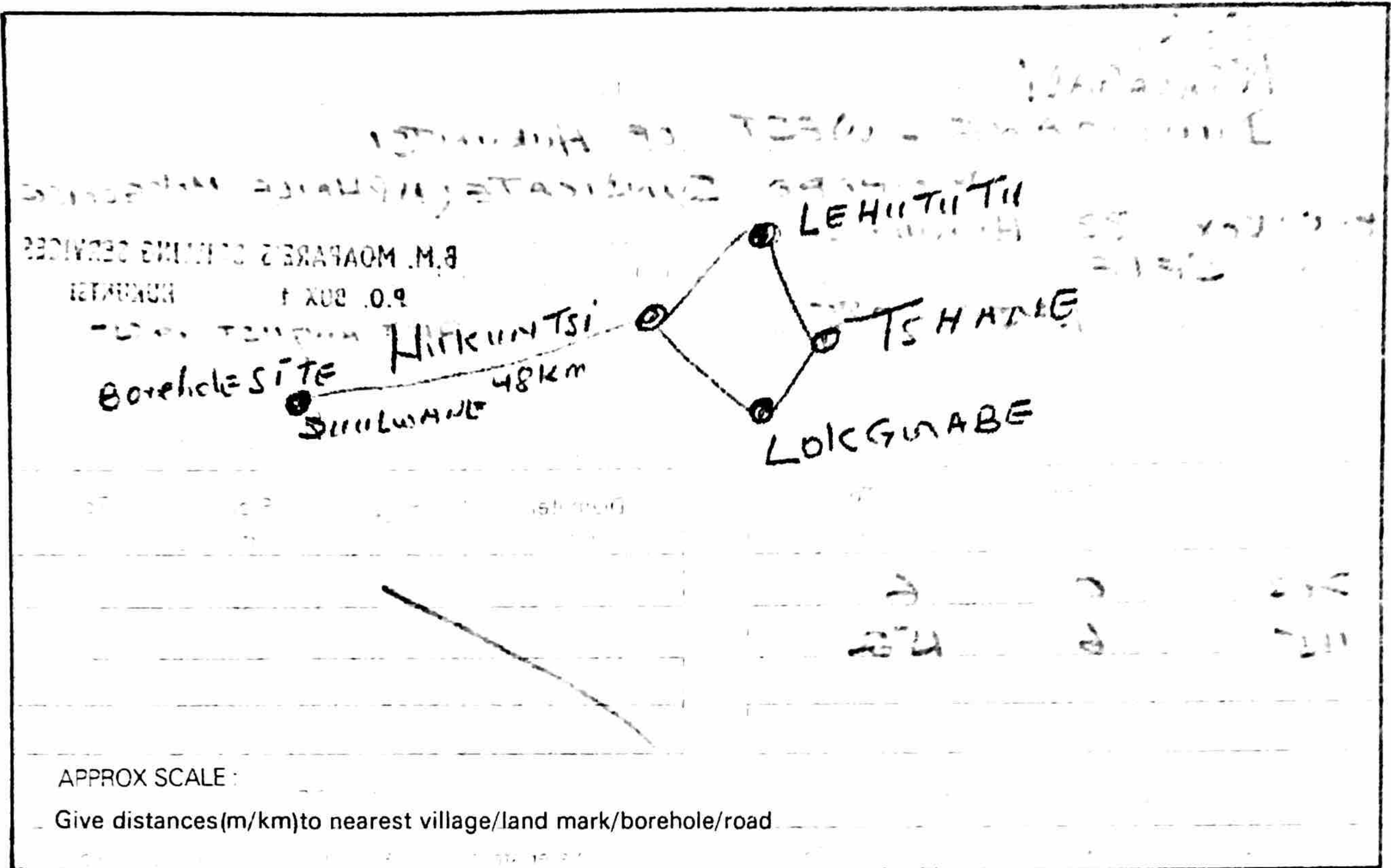
Static water level (SWL) on completion of borehole..... in m below top of casing

DEPTH (m)		DRILLER FORMATION LOG	DEPTH (m)		GEOLOGIST FORMATION LOG
From	To		From	To	
No. of sludge samples submitted.....					

REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc :.....

This is NOT A YIELDING BOREHOLE - Small STREAMS Reached at 46 metres and 69 metres respectively were VERY SALTY - BOREHOLE TEST took only TEN MINUTES AND IT WAS EMPTY - CONSIDERED AS A BLANK.

SKETCH MAP OF BOREHOLE SITE



YIELD TEST RECORD (Detailed pumping test to be given on form G.S. 200)

All measurements in (m) below top of casing

Date of test 21st Aug, 1985 Total time tested 10 MINUTES

Depth of borehole before test 152 m After test 152 metres

Type of pump/bailer PISTON

Depth of pump-cylinder 126

Diameter of cylinder 274 mm. No. of strokes/min. _____

Static water level immediately before test _____ m

Static water level 8 hours after test _____ m

Pumping water level _____ m

Pumping rate _____ m³

Is yield considered permanent yes/no NO

Taste, colour, odour of water TOO SALTY

Conductivity of water _____ micromhos.

No. of water samples submitted 1 by _____

Water use CONSIDERED TO BE A PLANK.

Date: 21/8/85 Signature of driller: Mogore

Date: _____ Signature of borehole inspector

- Copies:
- White - Owner of bh. (private bh.)
 - Dept. Water Affairs (government bh.)
 - Yellow - Dept. Geological Survey
 - Blue - Dept. Water Affairs
 - Pink - Driller

28350

GOVERNMENT OF BOTSWANA

G.S. 184

BOREHOLE COMPLETION CERTIFICATE

OFFICIAL BH NO. 2038

DISTRICT CENTRAL MAP SHEET 2125 N4 LAT 25° 41' 57" E LONG 21° 31' 15" S

LOCATION

NAME AND ADDRESS OF APPLICANT

SITED BY DRILLED BY

DATE OF COMMENCEMENT DATE OF COMPLETION

DRILLED DIAMETER

CASING LEFT IN BOREHOLE

Table with columns: Diameter mm, From m, To m. Handwritten entries: 330, 17, 25; 200, 25, 266.

Table with columns: Diameter mm, Type, From m, To m. Handwritten entries: 200, 17, 0, 2; 200, 17, 0, 55; 200, 17, 0, 266.

SCREEN DETAILS

AQUIFER DETAILS

Table with columns: Dia mm, Type, Slot size, From m, To m. Handwritten entries: 200, 17, 7, 147, 266.

Table with columns: No, Water struck m, Water level m, Estimated yield m/h. Handwritten entries: 1, 167, 179, 9.1.

Total depth of borehole 266 m Main aquifer 179 m

Static water level (SWL) on completion of borehole in m below top of casing

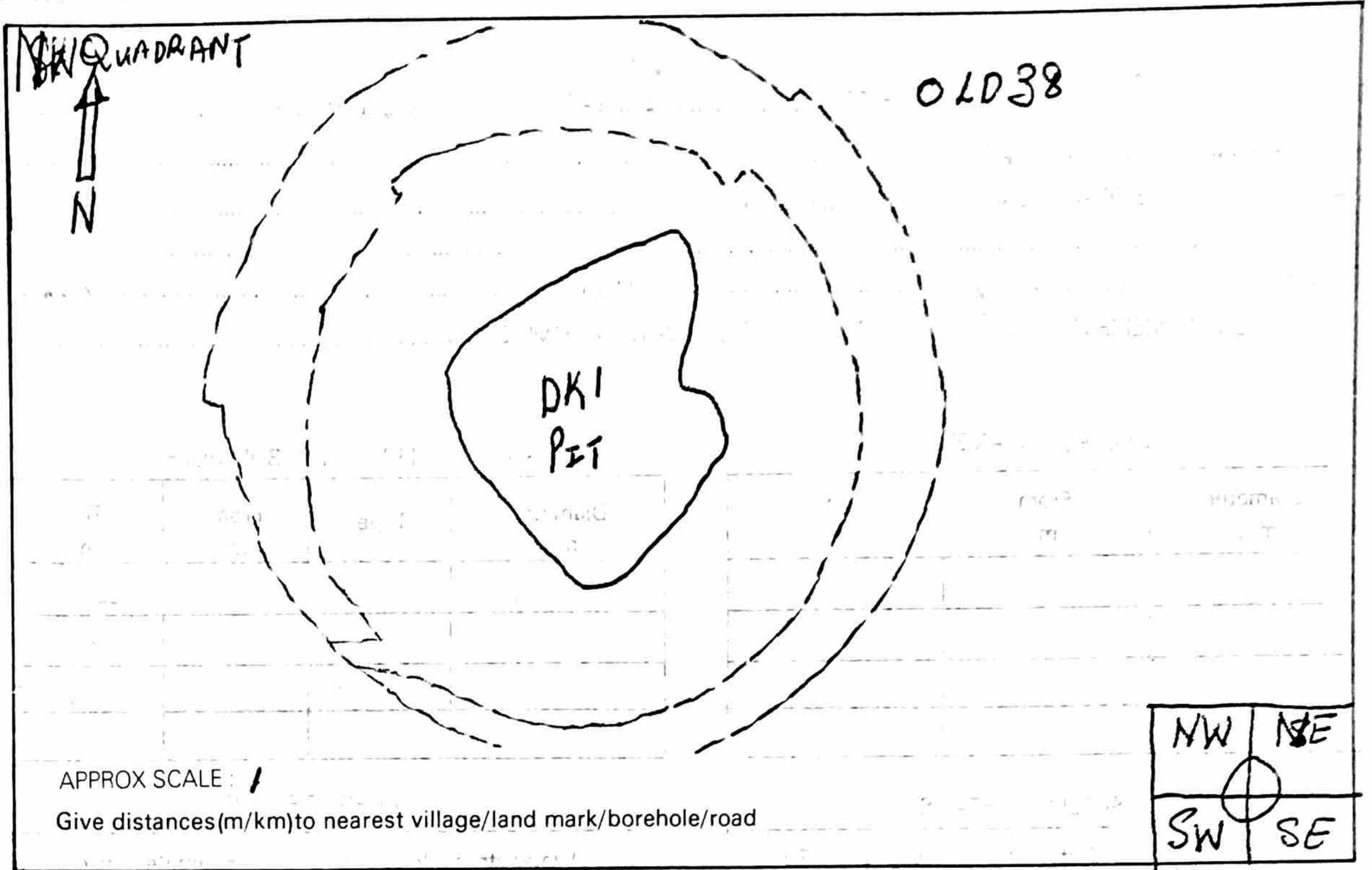
Large table with columns: DEPTH (m) From, To, DRILLER FORMATION LOG, DEPTH (m) From, To, GEOLOGIST FORMATION LOG. Includes handwritten data and a 'No. of sludge samples submitted' row.

REMARKS: Fractures, cavities, changes in penetration rate, caving and drilling difficulties etc

MAIL RECEIVED 29-01-1998 DEPT. OF WATER AFFAIRS GABORONE

DIRECTOR GEOLOGICAL SURVEY 12-12-1997 LOBATSE REPUBLIC OF BOTSWANA

SKETCH MAP OF BOREHOLE SITE



YIELD TEST RECORD (Detailed pumping test to be given on form G.S. 200)

All measurements in (m) below top of casing

Date of test 15-09-97 Total time tested 48 Hrs h

Depth of borehole before test 268 m. After test 268m m

Type of pump/bailer

Depth of pump-cylinder

Diameter of cylinder mm. No. of strokes/min.

Static water level immediately before test 1.34 m m

Static water level 8 hours after test 175.53m m

Pumping water level

Pumping rate 33 m³/hr m³/h

Is yield considered permanent yes/no

Taste, colour, odour of water

Conductivity of water micromhos.

No. of water samples submitted by

Water use MINE USE

Date : Signature of driller :

Date : 23/9/97 Signature of borehole inspector [Signature]

- Copies : White - Owner of bh. (private bh.)
- Dept. Water Affairs (government bh.)
- Yellow - Dept. Geological Survey
- Blue - Dept. Water Affairs
- Pink - Driller

