

JADP Tubewell data

Department of Water Supply & Sanitation
 Central Region Supervision Office, Kathmandu

Location : Syuchatar VDC-7, Kathmandu

Drilling Started On: 2064/01/02

Drilled by : Prajesh Construction & Tubewell Drilling Co. P. Ltd.

Logging Date : 2064/02/16

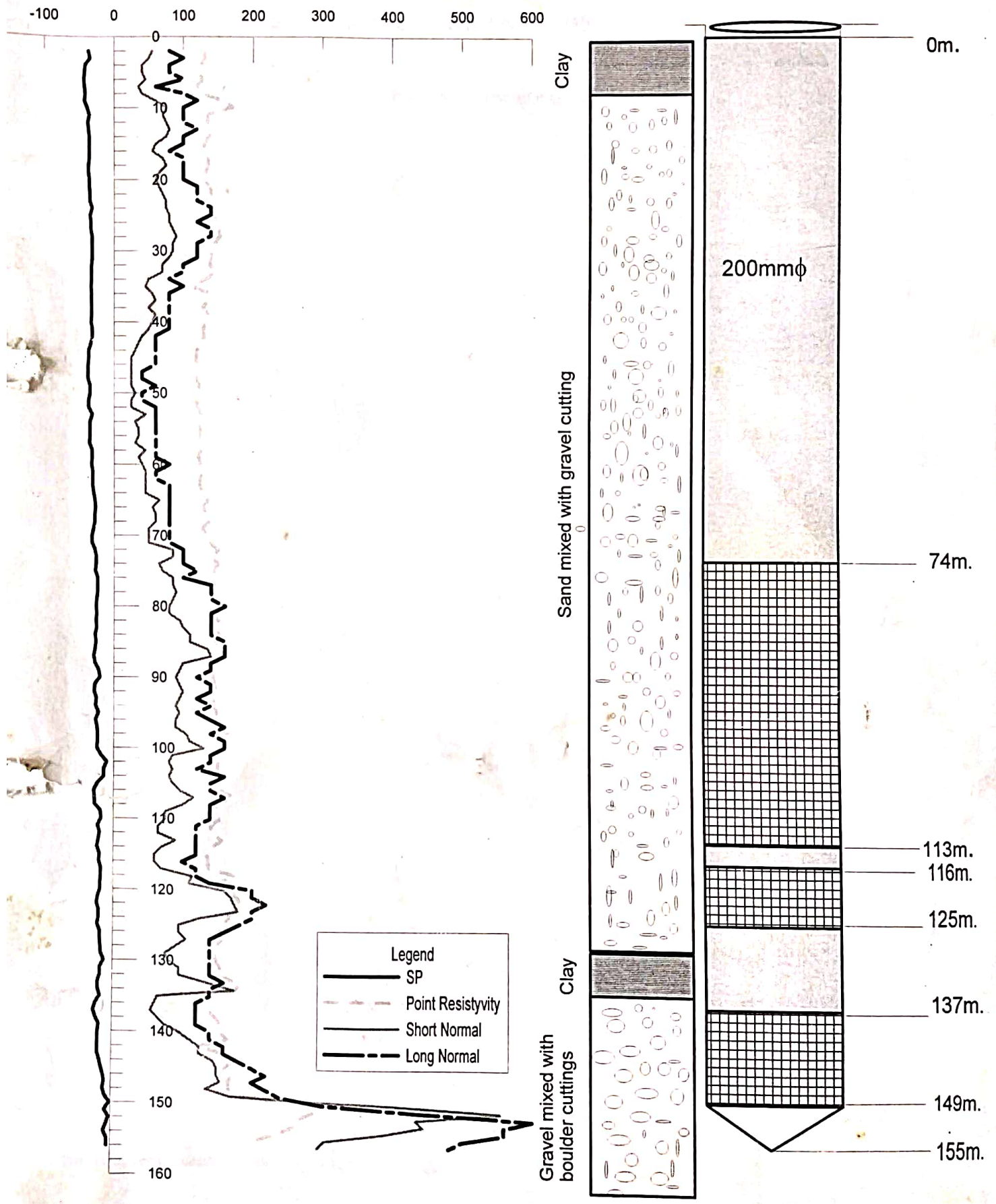


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PARTICULAR TECHNICAL SPECIFICATION

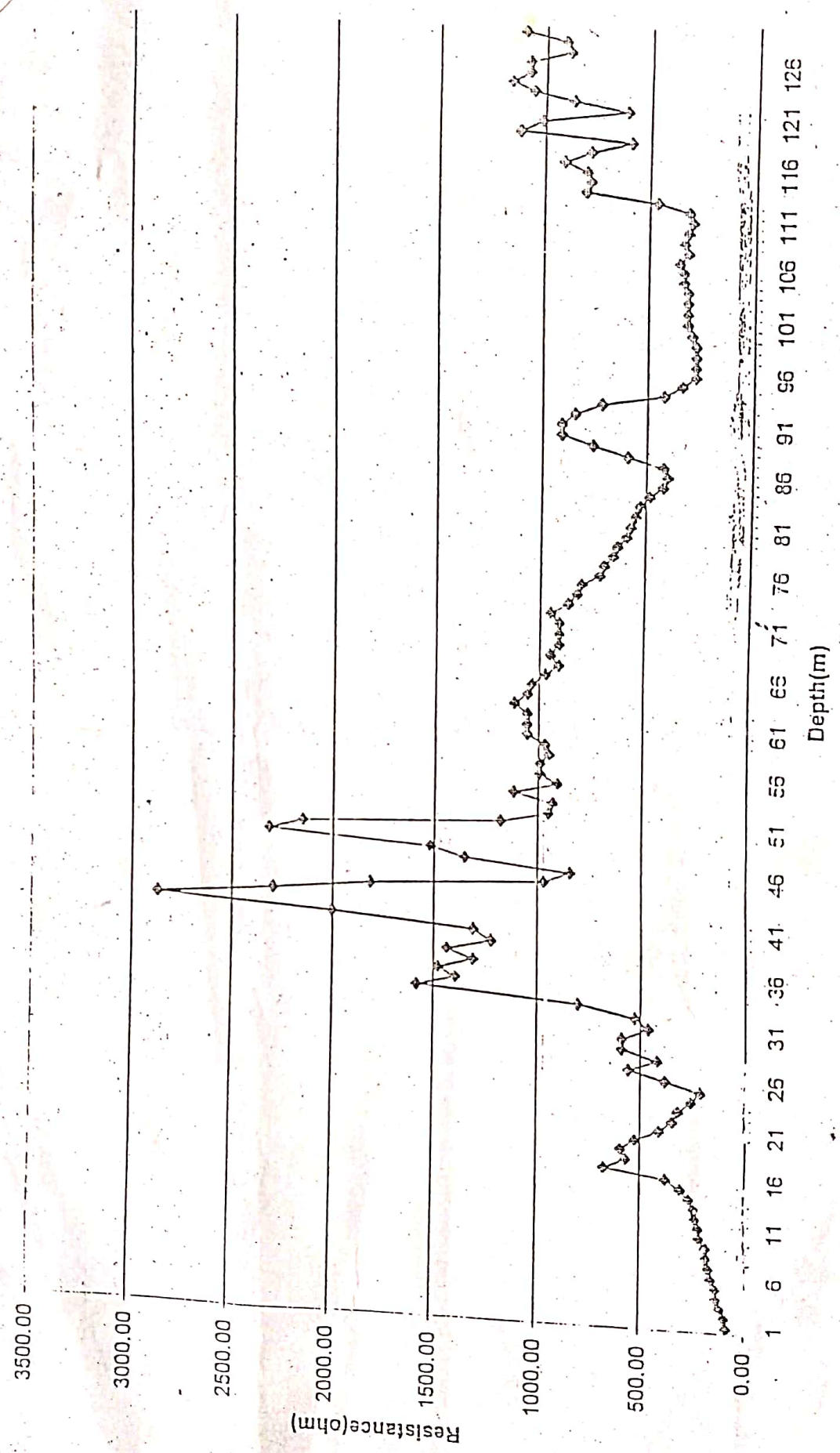
Clause	Description
3.1	Drilling works of Deep tube well construction.

[Handwritten signature]

Logged by: Madan Pd. Lamichhane
Consultant Hydro-Geologist

SAHID GANGALAL NATIONAL HEART CENTRE, Basabari, Kathmandu

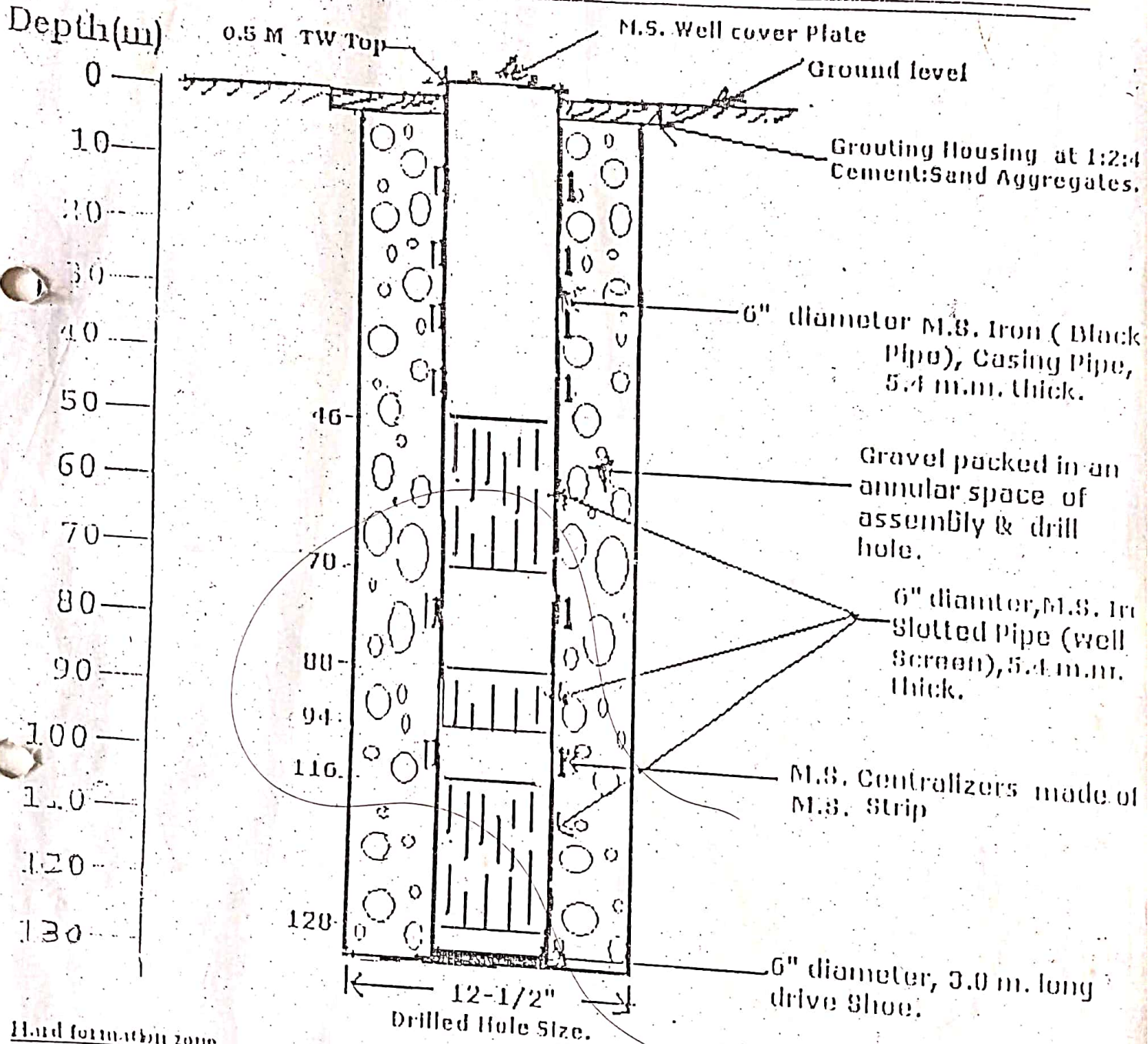
Date: 28/9/062



WELL-DESIGN

Client : SAHID GANGALAL NATIONAL

LOCATION : Basbari, Kathmandu, Nepal.



Hard formation zone

From	To	Total(m)
17	20	04
27	30	03
32	33	01
53	53	00
114	120	06
Grand Total		19 meter

Soft formation zone - 51 meter

DESIGNED BY

(Signature)
 Madan Pd. Lamichhane,
 Consultant Hydro-Geologist

On behalf of : ASCENDER ASSOCIATES &
 A.S. I. House.

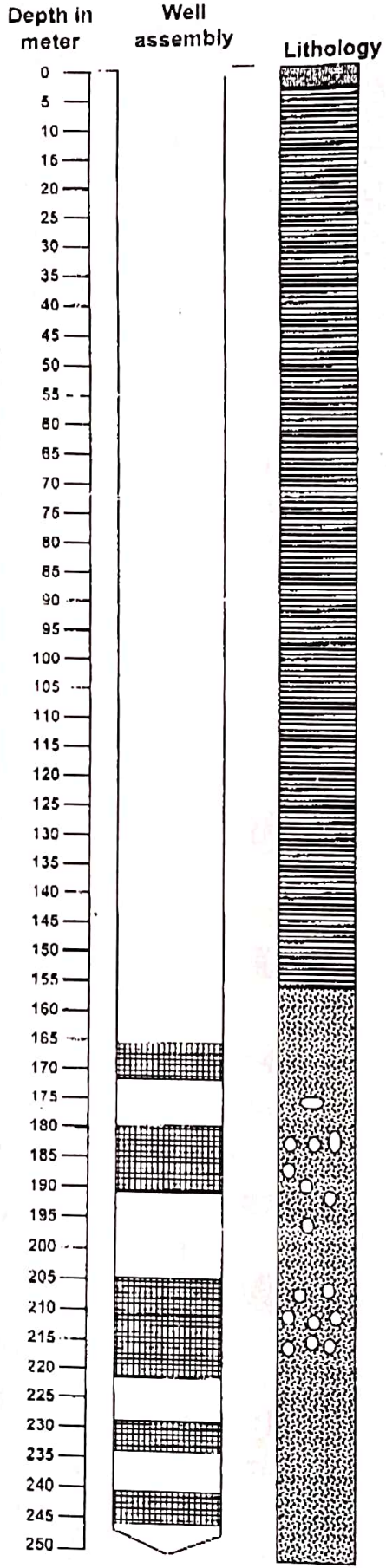
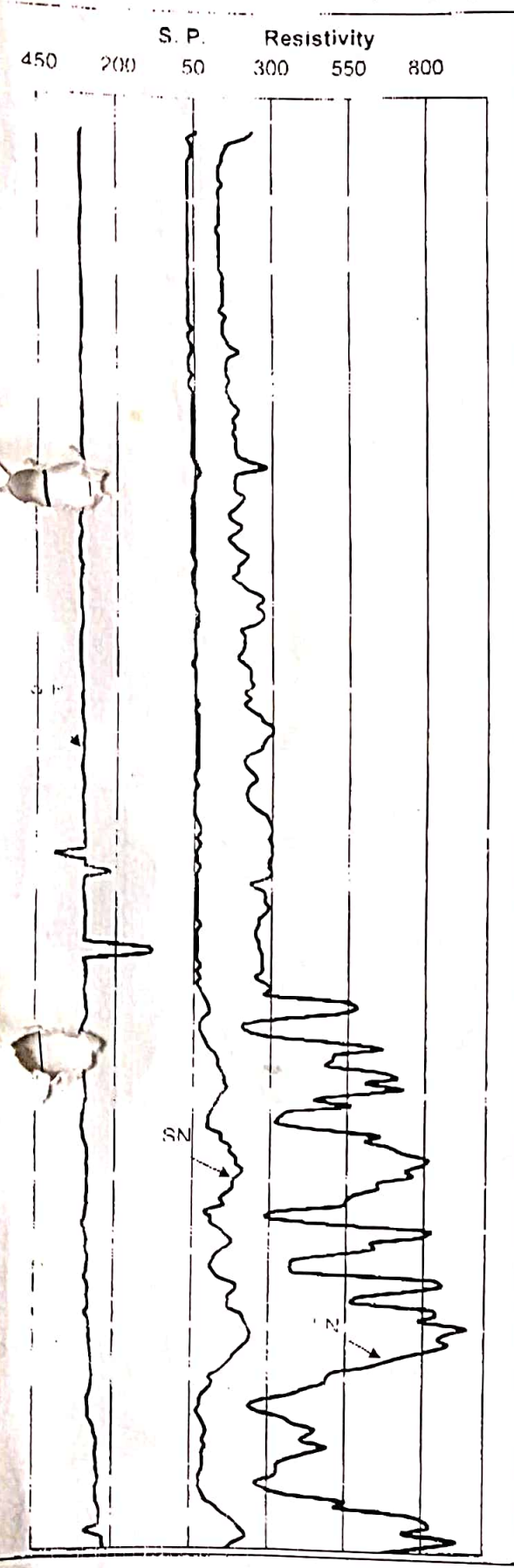
Nepal Water Supply Corporation, Jawalakhel, Lalitpur

Drilling Started on .
062/2/13

Location : Balkumari,
Drilled by Sagarmatha Drilling Company.

Drilling depth : 259m
Lowering Depth : 250m

Logging Date : 062/2/31



Casing positions

- M. P. = 0.5m = 0.5m
- 0.00 - 166.20 m = 166.2m
- 172.00 - 180.00 m = 8.00m
- 191.60 - 205.00m = 13.4m
- 221.94 - 229.00 m = 7.06m
- 234.68 - 241.00 m = 6.32m
- Bail plug = 246.29 - 250.00 = 3.71m
- Screen position
- 166.2 - 172.0 m = 5.80m
- 180.0 - 191.6 m = 11.6m
- 205 - 221.94 m = 16.94
- 229.0 - 234.68 m = 5.68m
- 241.0 - 246.29m = 5.29m

Legends

- Clay, Sandy
- Clay, Black & greyish
- Sand, Coarse

Design by

Recommended by

Approved by

Nepal Water Supply Corporation, Jawalakhel, Lalitpur

Location : Balkumari, Lalitpur

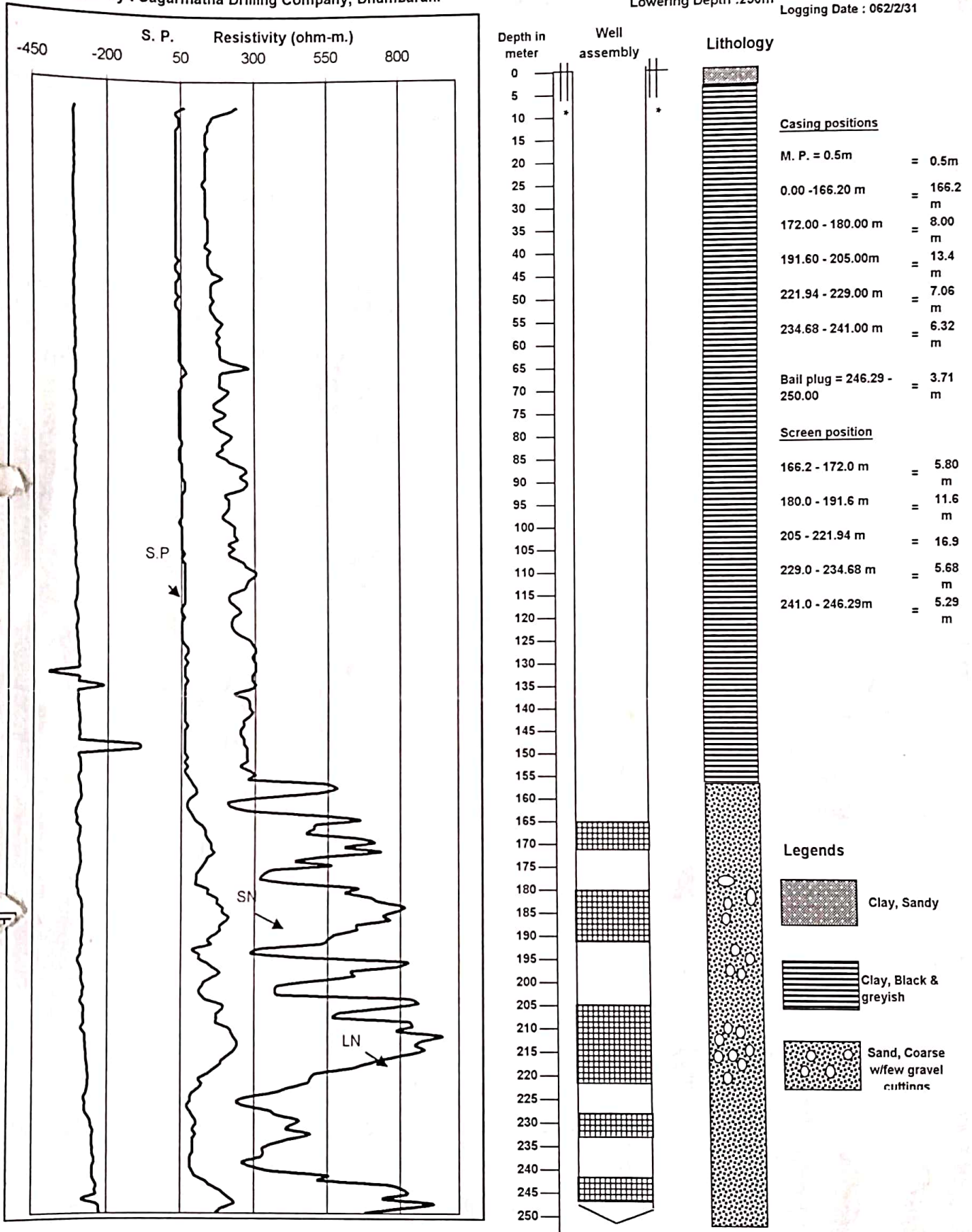
Drilling depth : 259m

Drilling Started on : 06/2/13

Drilled by : Sagarmatha Drilling Company, Dhumbarahi

Lowering Depth : 250m

Logging Date : 06/2/13



Design by

Recommended by

Approved by

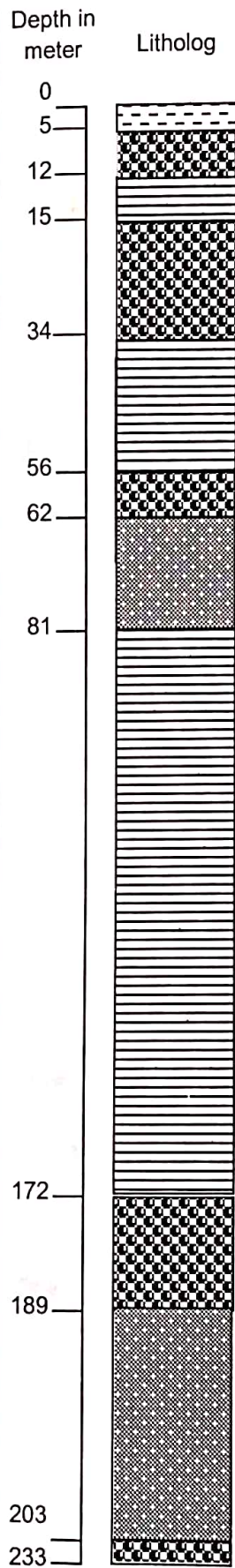
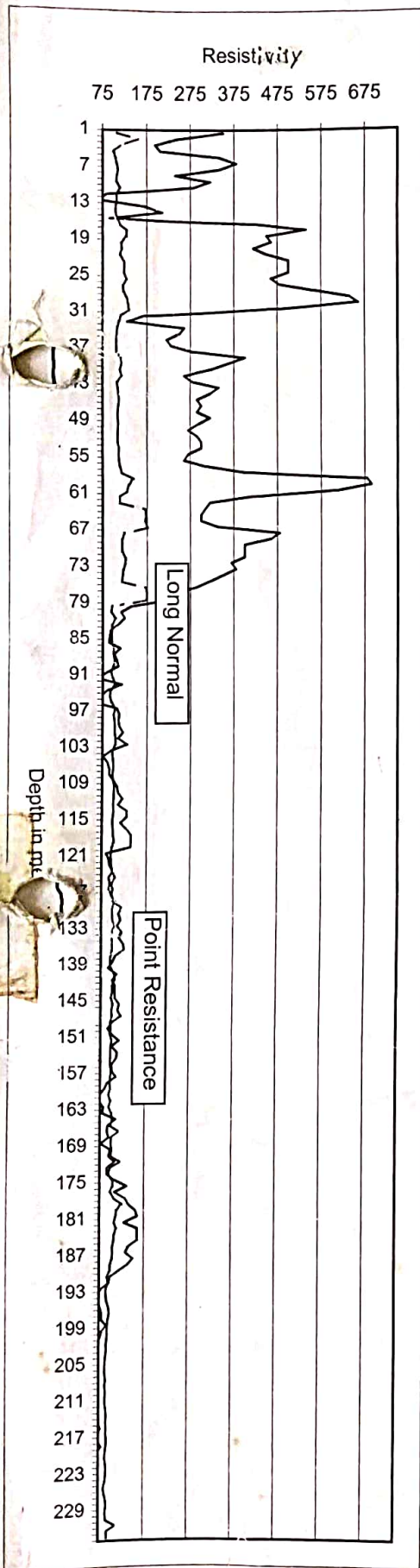
• Pipe for Gravel pack

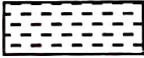

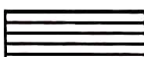

Location : Sunakothe

Logging date :2061/5/23

Drilling started on : 061/5/1

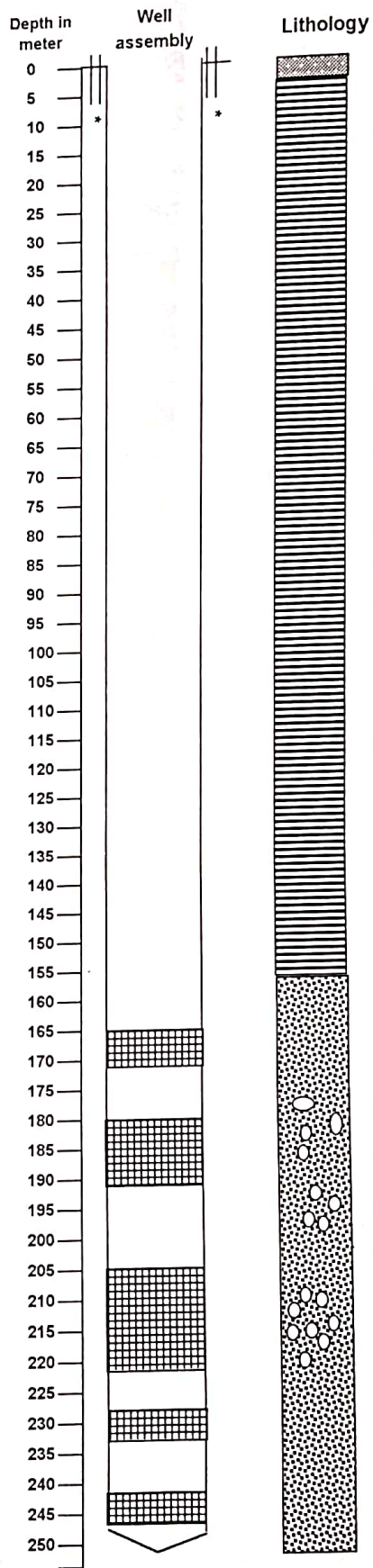
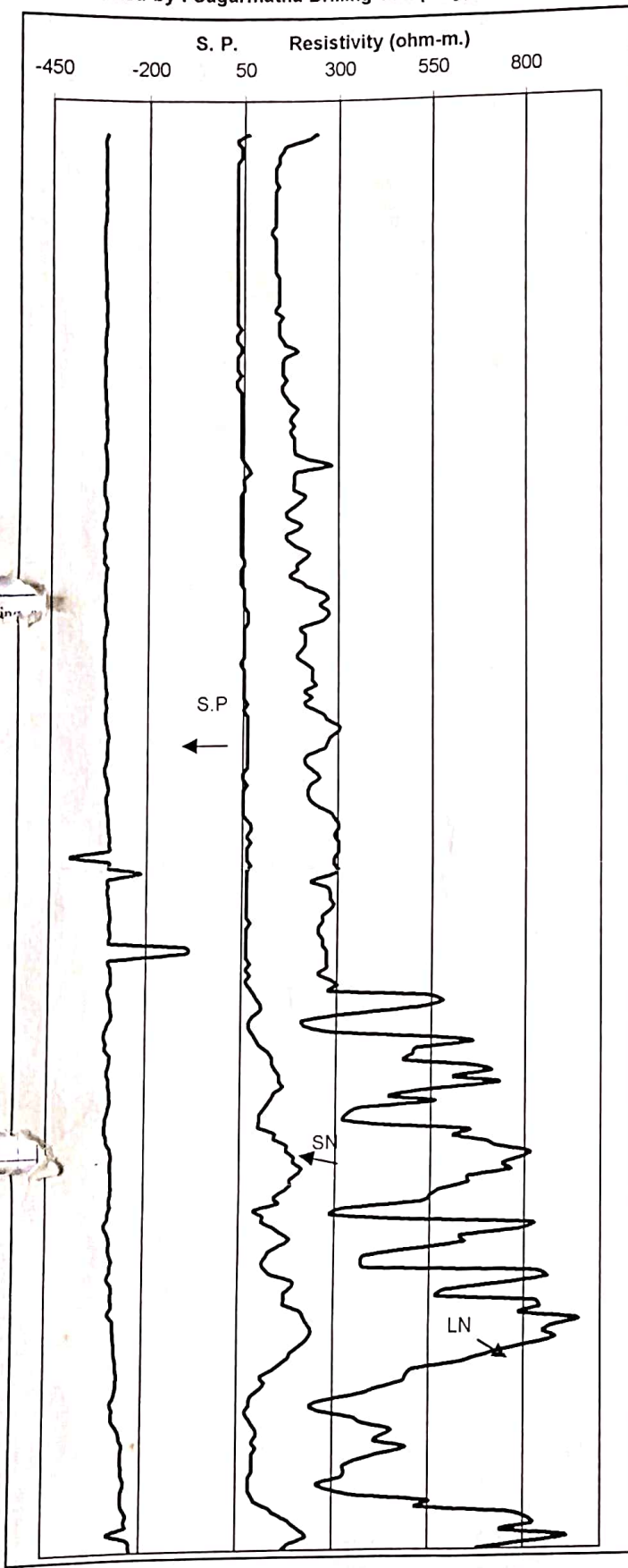
Rig Type : Vol Drill (Model-180)



- Legends
-  Top soil
 -  Pebble cuttings
 -  Clay
 -  Pebble/gravel cuttings mixed with clay

Location : Balkumari, Lalitpur
 Drilled by : Sagarmatha Drilling Company, Dhumbarahi

Drilling depth : 259m
 Lowering Depth : 250m
 Drilling Started on : 06/2/13
 Logging Date : 06/2/31



Casing positions

M. P. = 0.5m	= 0.5m
0.00 - 166.20 m	= 166.2 m
172.00 - 180.00 m	= 8.00 m
191.60 - 205.00m	= 13.4 m
221.94 - 229.00 m	= 7.06 m
234.68 - 241.00 m	= 6.32 m
Bail plug = 246.29 - 250.00	= 3.71 m

Screen position

166.2 - 172.0 m	= 5.80 m
180.0 - 191.6 m	= 11.6 m
205 - 221.94 m	= 16.9 m
229.0 - 234.68 m	= 5.68 m
241.0 - 246.29m	= 5.29 m

Legends

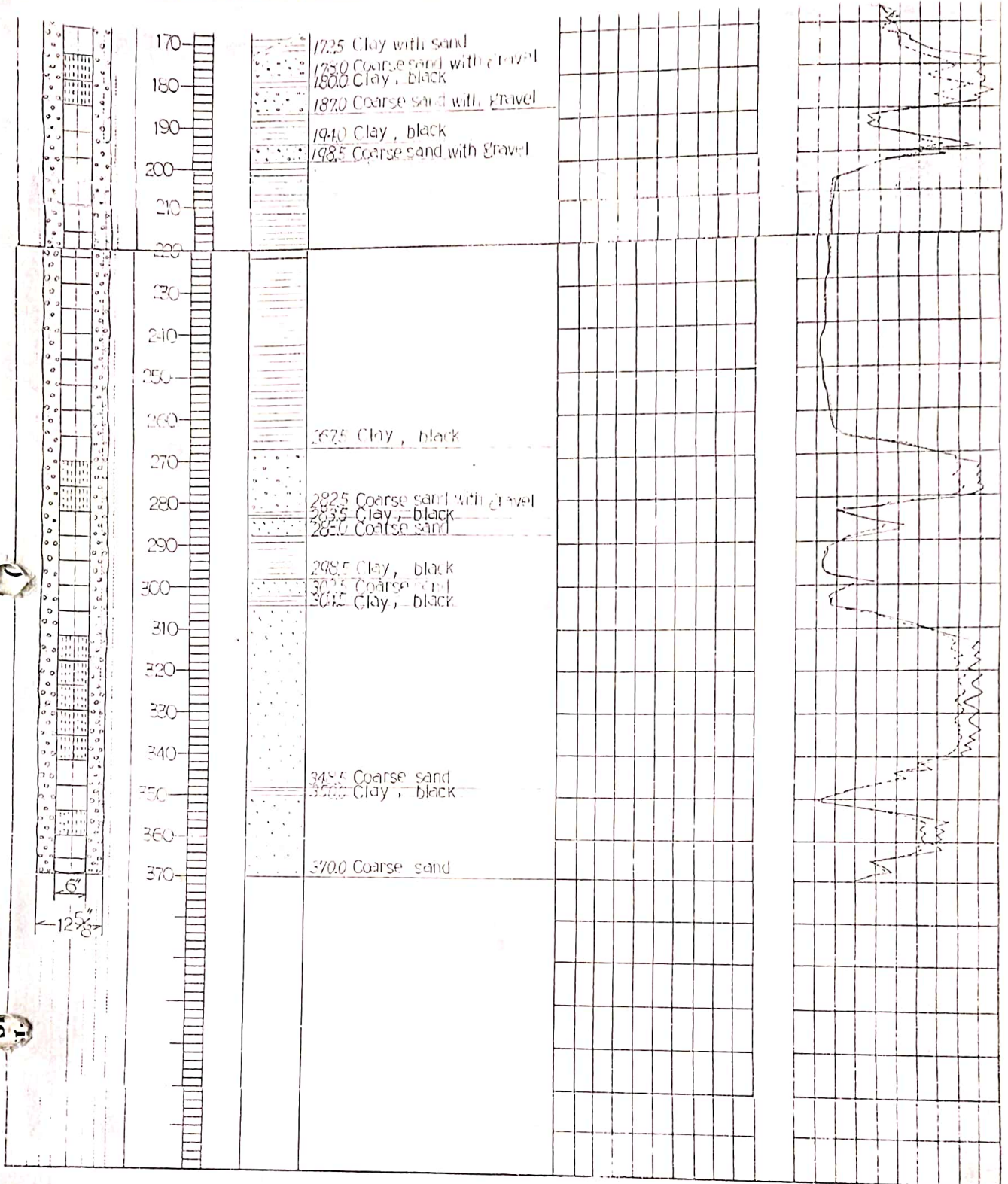
	Clay, Sandy
	Clay, Black & greyish
	Sand, Coarse w/few gravel cuttings

Design by

Recommended by

Approved by

* Pipe for Gravel pack



KATHMANDU DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Flowing (M)	Remarks
220.		Kamalpokhari ✓	12"x8"	265.0	1987	44.0	-11.0	-55.0	10.0	50.0	
221.		Dasrath Rangashala ✓	8"x6"	250.0	Oct. 1988	54.0	+0.5	-50	12.0	80.0	
222.		Gaushala ✓	8"x6"	212	Dec. 1988	42.0	-13.0	-45.0	10.0	42.0	
223.		Police Training Center	8"x8"	222.0	Jan. 1989	44.0	-30.5	-55.0	10.0		
224.		Kanti Hospital ✓	8"x8"	223.36	Mar. 1989	63.0	-28.0	-55.0	10.0		
225.		Army camp Chhauni	8"x8"	160.0	Nov. 1994	42.0 ^{60m}	+0.2.0	-15.0	10.0		Army Hospital 20/11/94
226.		Army camp Tundikhel	8"x8"		Oct. 1994	42.0	-8.0	-14.0	25.0		
227.		Sahakari Sanstha Baneswor	8"x8"	234.0	Feb. 1995	42.0	-11.0	-17.0	25.0		
228.		Army Camp	6"x6"	250.0	Dec. 1989	60.0	-13.0	-55	10.0		
229.		Khumaltar	8"x8"	221.0	July 1988	33.0	-8.0	-50.0	5.0		
230.		Khumaltar	8"x8"	222.0	April 1995	42.0	-10.0	-60.0	3.0		
231.		Baisodhara	8"x8"	118.0	August 1995	48.0	+0.20	-25.0	25.0		
232.		Agriculture Dev.	8"x8"	114.0	Sept. 1994	54.0	-23.0	-55.0	10.0		Submersible
233.		Agri. Ministry ✓	8"x8"	248.0	Oct. 1989	48.0 ^{204-252 m}	-3.0	-13.0	15.0		Submersible
234.		Kalanki	6"x6"	128.0	April 1995	42.0	+0.25	-15.0	10.0		

*** ... ***

Table 4.2.3

INVENTORY OF SHALLOW TUBE WELL IN JHAPA DISTRICT

No.	Location	Depth (m)	SWL (mbgs)	Q (l/s)	D/d (m)	T (m ² /d)	S.C. (l/s/m)	Location		EL(m)
								Lat. -N	Lon. -E	
STW-1	Prithvinagar	35.1						26:29:07.0	88:03:44.6	81
STW-2	Maheshpur	21.3	0.5	7.5	7.5	330	1.00	26:31:40.7	88:05:15.2	81
STW-3	Gherabari	29.9						26:25:26.2	87:56:32.2	66
STW-4	Phulbari	16.8	2.3	15.0	4.6	1,200	3.28	26:33:32.2	87:55:32.7	94
STW-5	Lakhanpur	15.2	2.6	8.7	6.0	500	1.46	26:38:51.7	87:43:02.6	121
STW-6	Sitapuri	27.4	0.6			1,068		26:34:35.7	87:42:54.5	101
STW-7	Kanaki	43.9	6.7	8.3	1.5	1,070	5.57	26:39:19.9	87:51:41.7	120
STW-8	Gwaldubba	36.6	0.8	6.0	0.7	400	8.33	26:30:55.2	87:43:08.8	86
STW-9	Hukkagachhi	35.1						26:27:23.4	87:43:14.2	73
STW-10	Keradhap	36.6						26:37:48.8	87:45:41.8	113
STW-11	Buttabari	38.1	3.0	20.0	0.6	1,000	32.79	26:38:41.3	88:01:09.1	128
STW-12	Satashi	34.8	0.6	4.0	0.4	580	9.76			113
STW-13	Bareghare	25.9						26:42:22.3	88:01:07.1	183
STW-14	Sangambasti	36.6	0.4	5.4	8.4	180	0.64	26:26:53.1	88:03:51.7	69
STW-15	Panchgachhi	35.1	1.6	8.0	5.6	810	1.42	26:33:16.1	87:48:52.8	86
STW-16	Ghailadubba	38.1	0.1	10.3	8.6	280	1.20	26:36:56.0	87:56:22.8	112
STW-17	Satigatta	32.0	1.7	3.0	6.3	210	0.48	26:37:49.3	88:08:21.9	121
STW-18	Gauriganj	27.4						26:28:13.7	87:43:10.0	75
STW-19	Goldhap-4	29.0	1.2	12.0	4.9	445	2.44	26:32:47.5	87:58:08.7	95
STW-20	Kechana	22.9						26:23:05.3	87:59:56.1	63
STW-21	Jalthal	18.6						26:30:42.1	88:00:16.7	84
PRW-1	Dasaharatpur					527				
PRW-2	Pathariya					453				
PRW-3	Topgacchi-3					380				
PRW-4	Gaurigung					909				
PRW-5	Dharampur					483				
Average		30.3	1.7	9.0	4.6	601	5.70			

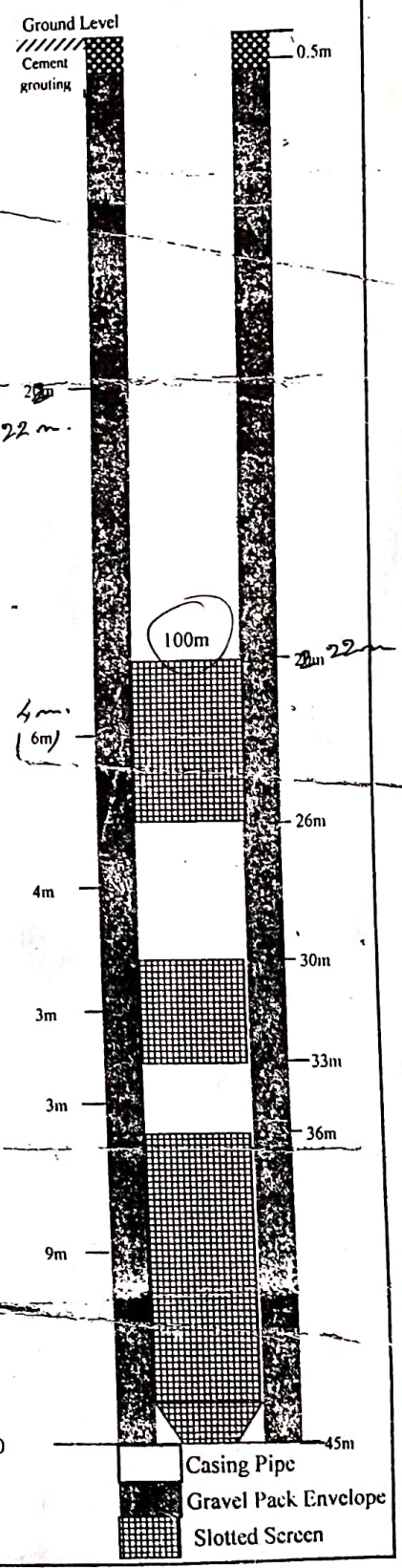
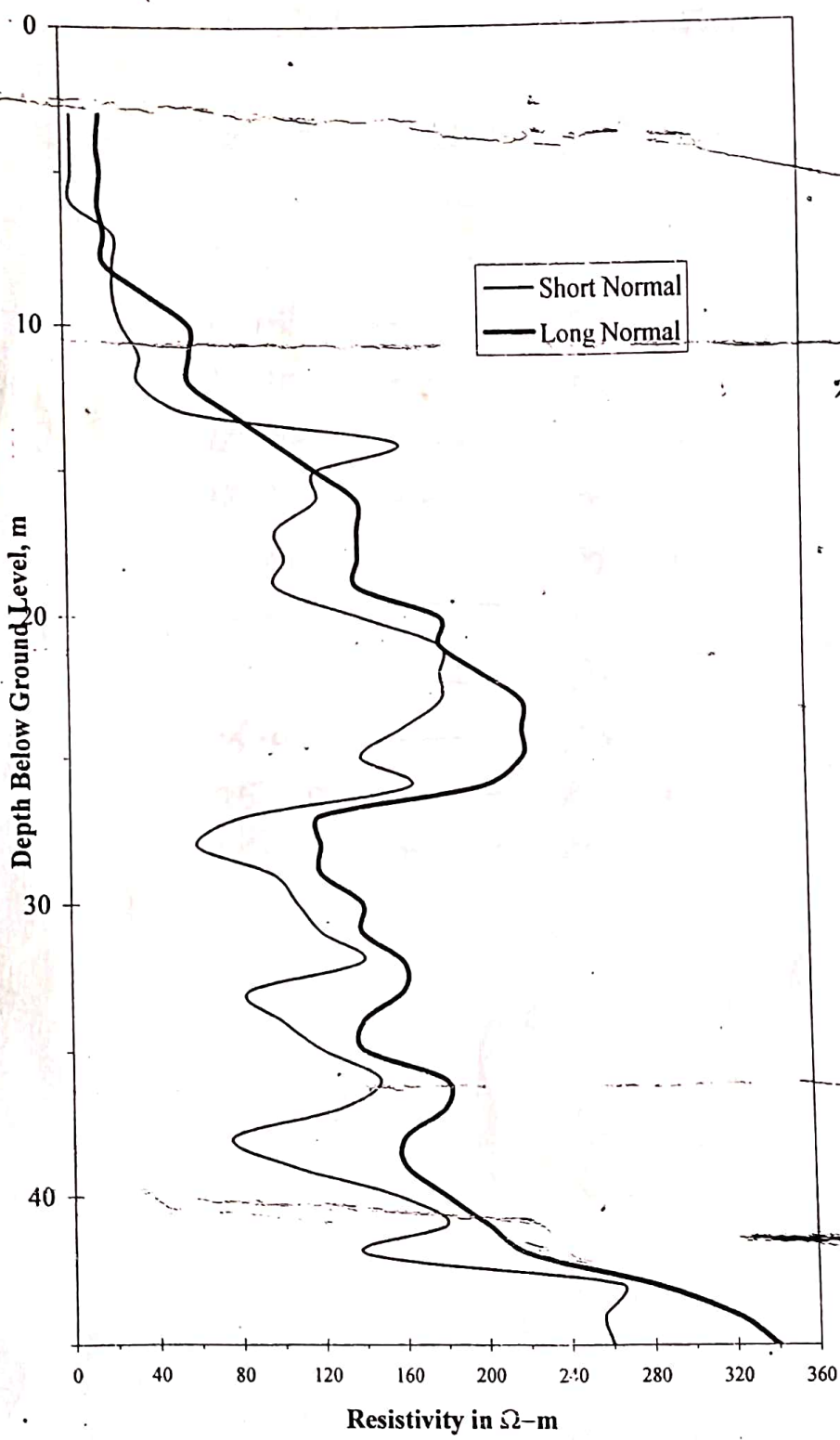
Remark: Q=Yield D/d=Drawdown T=Transmissivity
 S.C.=Specific Capacity SWL=Static Water Level
 Location=Located by Satellite System

Bishnu Devi Mandir
Tui Thang

ELECTRICAL LOG DATA
BASANTA MAHARJAN
WATERWELL DRILLING AT NAIKAP

4" well

WELL ASSEMBLY



Casing Pipe
Gravel Pack Envelope
Slotted Screen

Pump test

Water level 6 meter 21/01/062

Time	Water Level	Per/Hour
11 9 ⁴	6 meter	5000 liter
11.05	7 "	
11.10	7 "	
11.15	8 "	
11.30	9 "	
12.00	11 "	
11 12.30	13 "	
01.00	15 "	
02.00	18 "	
03.00	20 "	
04.00	20 "	
05.00	21 "	
06.00	21 "	

22/01/062

Water Level 7 Meter

7 $\frac{9}{4}$ ——— 7 Meter

7.05 ——— 8 "

7.10 ——— 9 "

7.15 ——— 10 "

7.30 ——— 15 "

7.45 ——— 18 "

8.00 ——— 18 "

8.30 ——— 19 "

9.00 ——— 19 "

10.00 ——— 20 "

11.00 ——— 20 "

12.00 ——— 20 "

1.00 ——— 21 "

2.00 ——— 21 "

3.00 ——— 21 "

4.00 ——— 21 "

Lithology of Deep Well in UNDP office area, Pulchowk

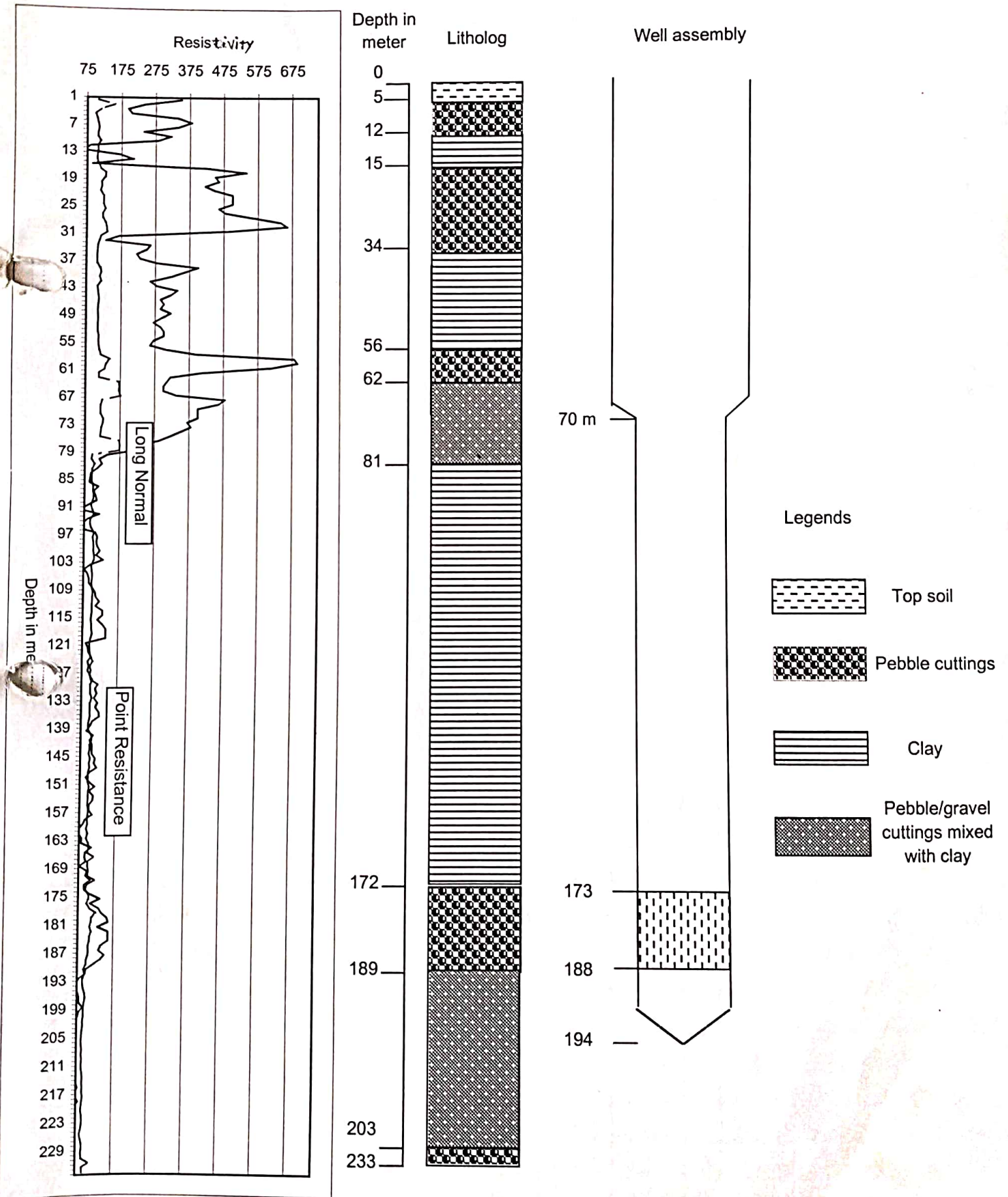
<u>From</u>	<u>To</u>	<u>Lithology</u>
0	90	Alternate layers of dominantly Black clay and little gravel
90	125	Sand with gravel
125	145	Gravels, Boulders of Limestone, Sandstone
145	215	Gravels, boulders of Limestone, Sandstone with black clay

Location : Sunakothe

Logging date :2061/5/23

Drilling started on : 061/5/1

Rig Type : Vol Drill (Model-180)



WELL LOG

Litho No J-28

PROJECT NAME TEATSP		WELL NO.	
AREA AND LOCATION Kumaltar, Lalitpur - District (Kath)			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	221.0 feet	DRILLING RIG	TBM 72 A
DRILLING STARTED		DRILLED BY	G. D. Joshi
WELL COMPLETED	045-4-7	LOGGED BY	P. Mukhiya

STATIC WATER LEVEL	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	feet	CONDUCTIVITY	$\mu\text{S/cm}$
PUMPING RATE	4/min (n ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (feet)	Lithology Data			Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)
4.5"	5.5"	0		Top-soil				
		20		Fine Sand				
		40		Blue Black clay				
		60		Gravel (fine)				
		80						
		100		Blue Black clay				
		120		Clay				
		140						
		160						
		171		Fine Sand				
Slotted Pipe	27.5" Screen (5.5" x 5.5")	180		Coarse Sand				
		200		very little clay				
Slotted	4.5" Pipe 5.5" Screen	206		sandy clay				
		211.5		C. Sand w/ clay				
	9" Pipe	220		Blue Black clay				
		240						
		260						

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
220.		Kamalpokhari ✓	12"x8"	265.0	1987	44.0	-11.0	-55.0	10.0	50.0	
221.		Dasrath Rangashala ✓	8"x6"	250.0	Oct. 1988	54.0	+0.5	-50	12.0	80.0	
222.		Gaushala ✓	8"x6"	212	Dec. 1988	42.0	-13.0	-45.0	10.0	42.0	
223.		Police Training Center	8"x8"	222.0	Jan. 1989	44.0	-30.5	-55.0	10.0		
224.		Kanti Hospital ✓	8"x8"	223.36	Mar. 1989	63.0	-28.0	-55.0	10.0		
225.		Army camp Chhauni	8"x8"	160.0	Nov. 1994	42.0 ^{60/12}	+0.2.0	-15.0	10.0		Army Hospital 20 1/2 m
226.		Army camp Tundikhel	8"x8"		Oct. 1994	42.0	-8.0	-14.0	25.0		
227.		Sahakari Sanstha Baneswor	8"x8"	234.0	Feb. 1995	42.0	-11.0	-17.0	25.0		
228.		Army Camp	6"x6"	250.0	Dec. 1989	60.0	-13.0	-55	10.0		
229.		Khumaltar	8"x8"	221.0	July 1988	33.0	-8.0	-50.0	5.0		
230.		Khumaltar	8"x8"	222.0	April 1995	42.0	-10.0	-60.0	3.0		
231.		Baisodhara	8"x8"	118.0	August 1995	48.0	+0.20	-25.0	25.0		
232.		Agriculture Dev.	8"x8"	114.0	Sept. 1994	54.0	-23.0	-55.0	10.0		Submersible
233.		Agri. Ministry ✓	8"x8"	248.0	Oct. 1989	48.0 ^{200.252.00}	-3.0	-13.0	15.0		Submersible
234.		Kalanki	6"x6"	128.0	April 1995	42.0	+0.25	-15.0	10.0		

WELL LOG

Data No. J-50

PROJECT NAME <u>A. D. P. JANAKPUR</u>		WELL NO. <u>3</u>	
AREA AND LOCATION <u>DASHRATH RANG SHALA TRIPURESHOR</u>			
ELEVATION	<u>M</u>	LATITUDE	LONGITUDE
TOTAL DEPTH	<u>250-52 M</u>	DRILLING RIG	<u>TBM-02</u>
DRILLING STARTED	<u>10 Aug 1988</u>	DRILLED BY	<u>D. N. SEN</u>
WELL COMPLETED	<u>16 Oct. 1988</u>	LOGGED BY	<u>P. MUKHIYA</u>

STATIC WATER LEVEL	<u>40.5 M</u>	WATER TEMPERATURE	<u>°C</u>
DYNAMIC WATER LEVEL	<u>50 M</u>	CONDUCTIVITY	<u>μS/cm</u>
PUMPING RATE	<u>720 l/min (m³/d)</u>	pH	
SPECIFIC CAPACITY	<u>m³/d/m</u>	TOTAL HARDNESS	

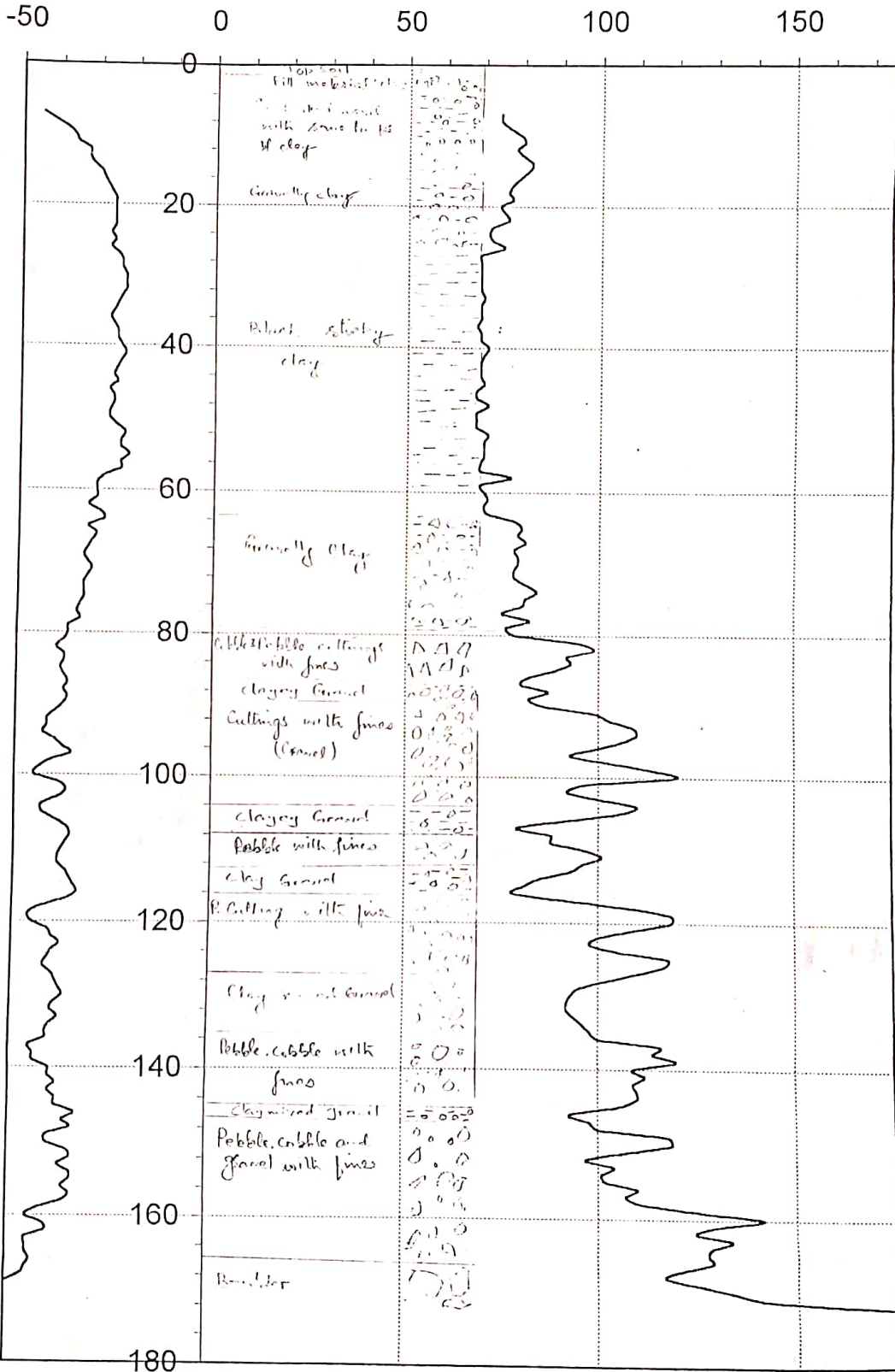
By Air Lift →

WELL SIZE:- 8 1/6"

Drilling and Casing Program		Depth (M)	Lithology Data			Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)
<u>12 1/4"</u>		0			TOP Soil			
		10			Clay Black			
		20			Sticky clay			
	<u>8"</u>	30						
		40						
		50						
		60						
		70						
<u>79.75 m</u>		80			Clay Black			
		90						
		100						
		110						
		120						
		130						
		140						
		150						
		160						
		170			Pebbles			
		180			Sticky clay Black			
<u>11.37 m</u>		190						
		200			Medium to Coarse Sand			
		210						
		220						
		230			Coarse & gravel			
		240			& Gravel			
<u>16.52 m</u>		250						
<u>50.52 m</u>		256			Sticky clay			

Depth Vs SP/Resistivity Plots

SP(mV) / Resistivity (m)



91.7
103.7
119.0
124.7
127.0
146.0

S. Jamichdani

— Resistivity — SP

VISHAL PLASTOCAB INDUSTRIES PVT. LTD.

Satungal, Kathmandu, Nepal

Price List for "SUPREMO" Commercial Quality UPVC Pipes
Effective from 15 May, 2005

1 1/4"
1 1/2"
2"
2 1/2"
3"
4"
6"

OD in MM	2.5 kg f/cm ² Rate/meter	4 kg f/cm ² Rate/meter	6 kg f/cm ² Rate/meter	10 kg f/cm ² Rate/meter
48 MM	-	63.00	-	-
50 MM	-	-	67.90	106.84
60 MM	-	112.00	-	-
75 MM	-	108.67	152.60	241.96
90 MM	97.02	151.10	220.49	344.97
110 MM	143.94	218.33	319.67	511.05
160 MM	295.88	470.27	676.29	1062.86

TERMS & CONDITION

- 1) The above price are Inclusive of 13% VAT
- 2) The price list supersedes all our previous Price List.
- 3) The prices are subject to change without any prior notice.

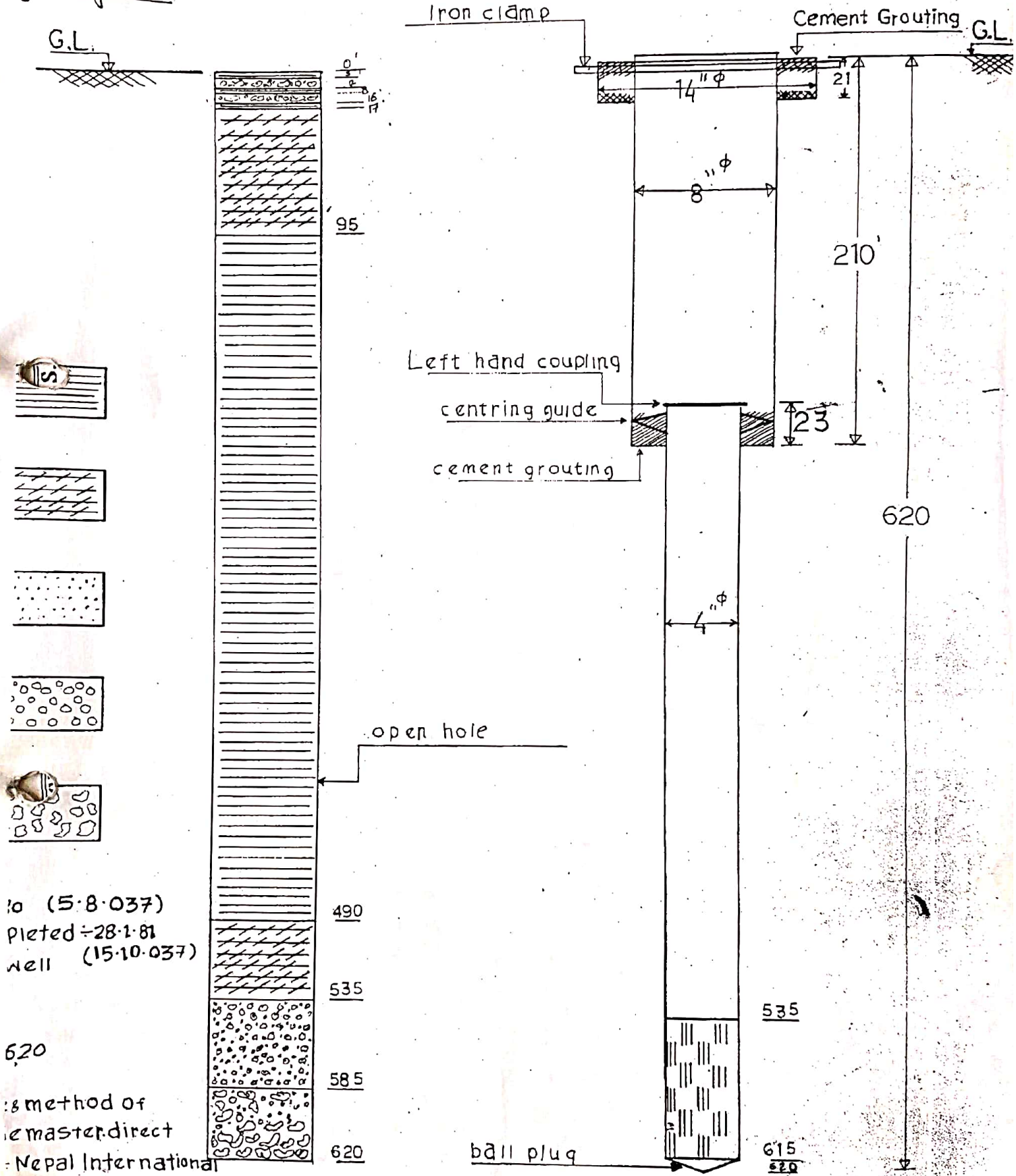
Refer Balsa Ras Taker.

Well No. G-17, Patan Hospital,
Lalitpur

DIAGRAM OF BORE WELL CONSTRUCTED

AT
PATAN HOSPITAL, LALITPUR.

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to (5.8.037)
pleted = 28.1.81
well (15.10.037)

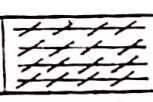
620
method of
master direct
Nepal International

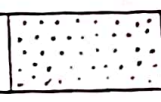
Note: All Dimensions in feet.

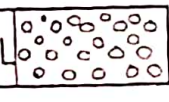
PATAN HOSPITAL PROJECT
PH 515

fe 3 of 3

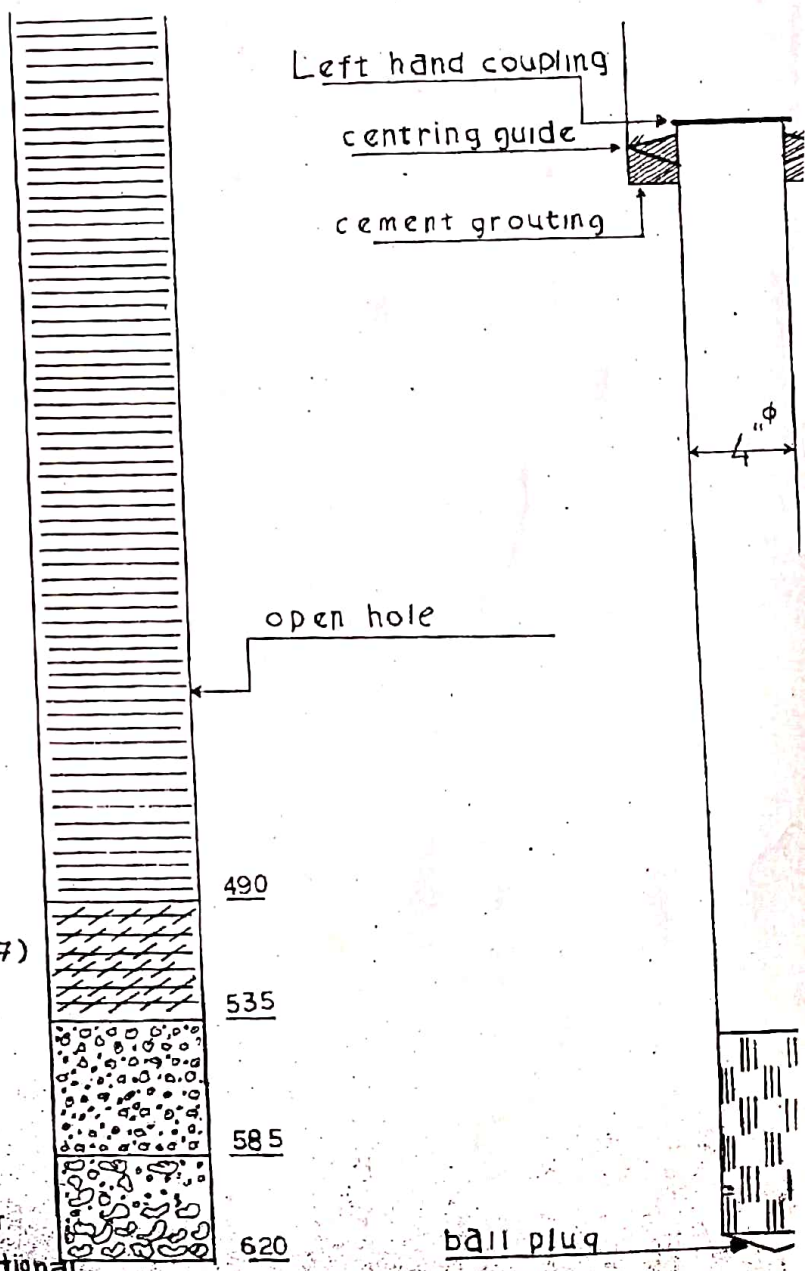
CLAY 

SILT 

SAND 

GRAVEL 

BOULDER 



Drilling started ÷ 4.11.80 (5.8.037)
 Drilling & Lowering completed ÷ 28.1.81
 Kind of Well ÷ Pumping well (15.10.037)
 Total Depth ÷ 620'
 Size of well ÷ 8"X4"
 Pipe inserted depth ÷ 620
 static water level ÷ 76'
 Type of Drilling machines method of
 drilling ÷ Falling 1500 hole master direct
 rotary. Drilling done by ÷ Nepal International
 Drilling co. (P) Ltd

Note: All Dimensions in feet

KATHMANDU DISTRICT

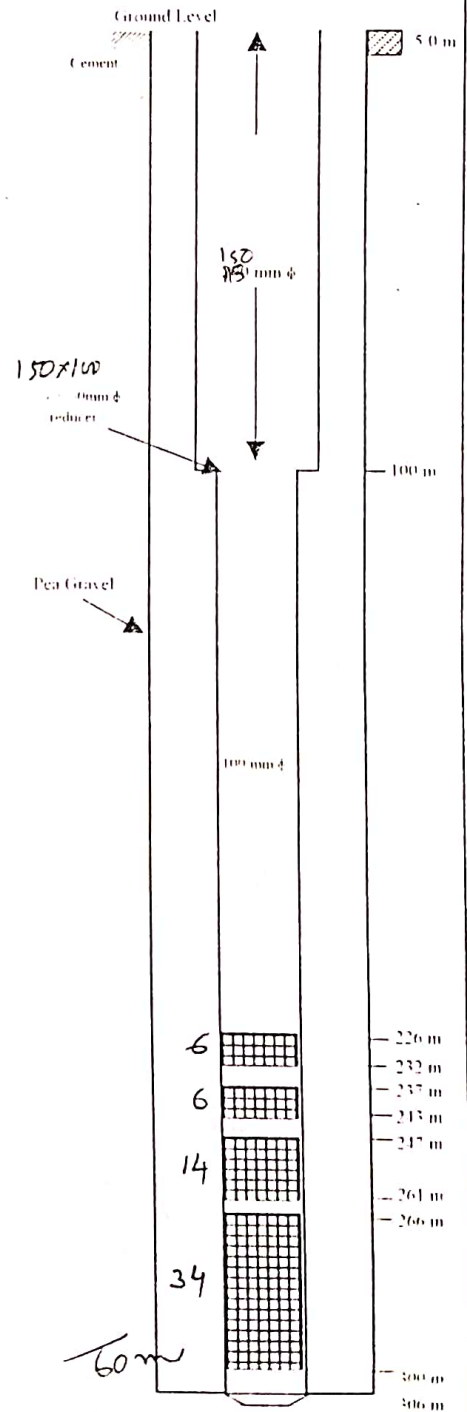
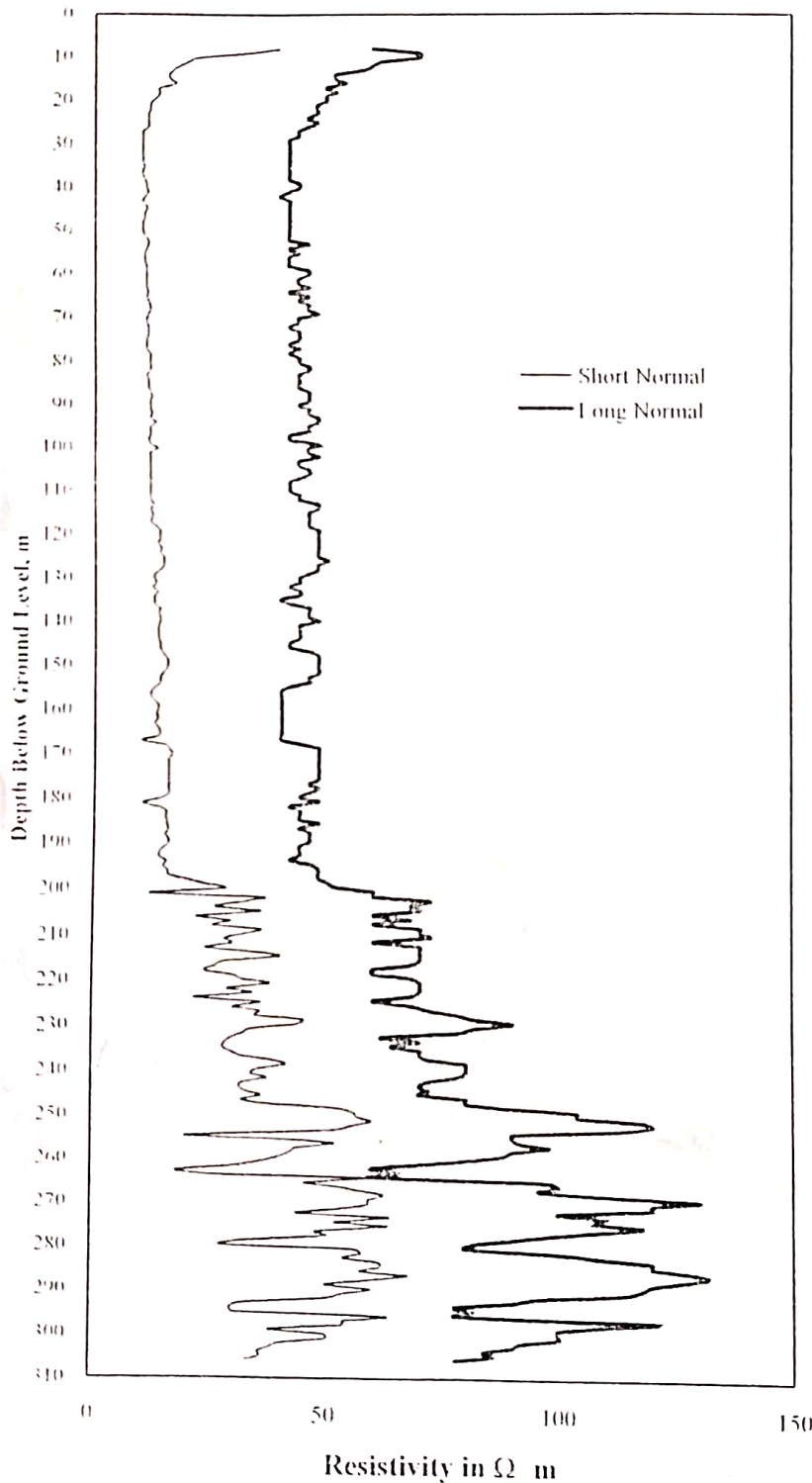
S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
220.		Kamalpokhari ✓	12"x8"	265.0	1987	44.0	-11.0	-55.0	10.0	50.0	
221.		Dasrath Rangashala ✓	8"x6"	250.0	Oct. 1988	54.0	+0.5	-50	12.0	80.0	
222.		Gaushala ✓	8"x6"	212	Dec. 1988	42.0	-13.0	-45.0	10.0	42.0	
223.		Police Training Center	8"x8"	222.0	Jan. 1989	44.0	-30.5	-55.0	10.0		
224.		Kanti Hospital ✓	8"x8"	223.36	Mar. 1989	63.0	-28.0	-55.0	10.0		
225.		Army camp Chhauni	8"x8"	160.0	Nov. 1994	42.0 ^{60M}	+0.2.0	-15.0	10.0	Army	No. 204
226.		Army camp Tundikhel	8"x8"		Oct. 1994	42.0	-8.0	-14.0	25.0		
227.		Sahakari Sanstha Baneswor	8"x8"	234.0	Feb. 1995	42.0	-11.0	-17.0	25.0		
228.		Army Camp	6"x6"	250.0	Dec. 1989	60.0	-13.0	-55	10.0		
229.		Khumaltar	8"x8"	221.0	July 1988	33.0	-8.0	-50.0	5.0		
230.		Khumaltar	8"x8"	222.0	April 1995	42.0	-10.0	-60.0	3.0		
231.		Baisodhara	8"x8"	118.0	August 1995	48.0	+0.20	-25.0	25.0		
232.		Agriculture Dev.	8"x8"	114.0	Sept. 1994	54.0	-23.0	-55.0	10.0		Submersible
233.		Agri. Ministry ✓	8"x8"	248.0	Oct. 1989	48.0 ^{204-252 M}	-3.0	-13.0	15.0		Submersible
234.		Kalanki	6"x6"	128.0	April 1995	42.0	+0.25	-15.0	10.0		

ELECTRICAL LOG DATA

Nepal Television

WATERWELL DRILLING AT SINGHDURBAP, KATHMANDU

FINAL TUBEWELL DIAGRAM



Main Identity

From: Naba Raj <nrbina@wlink.com.np>
To: <gwater@enet.com.np>
Sent: Monday, September 27, 2004 8:28 AM
Attach: undp well.xls
Subject: Un well lithology

Dear Mr. Nir Shakya

As discussed in the phone on last friday, the Lithology of deep well in the UNDP Office area is attached here for your kind attention. Hope it will serve the purpose.

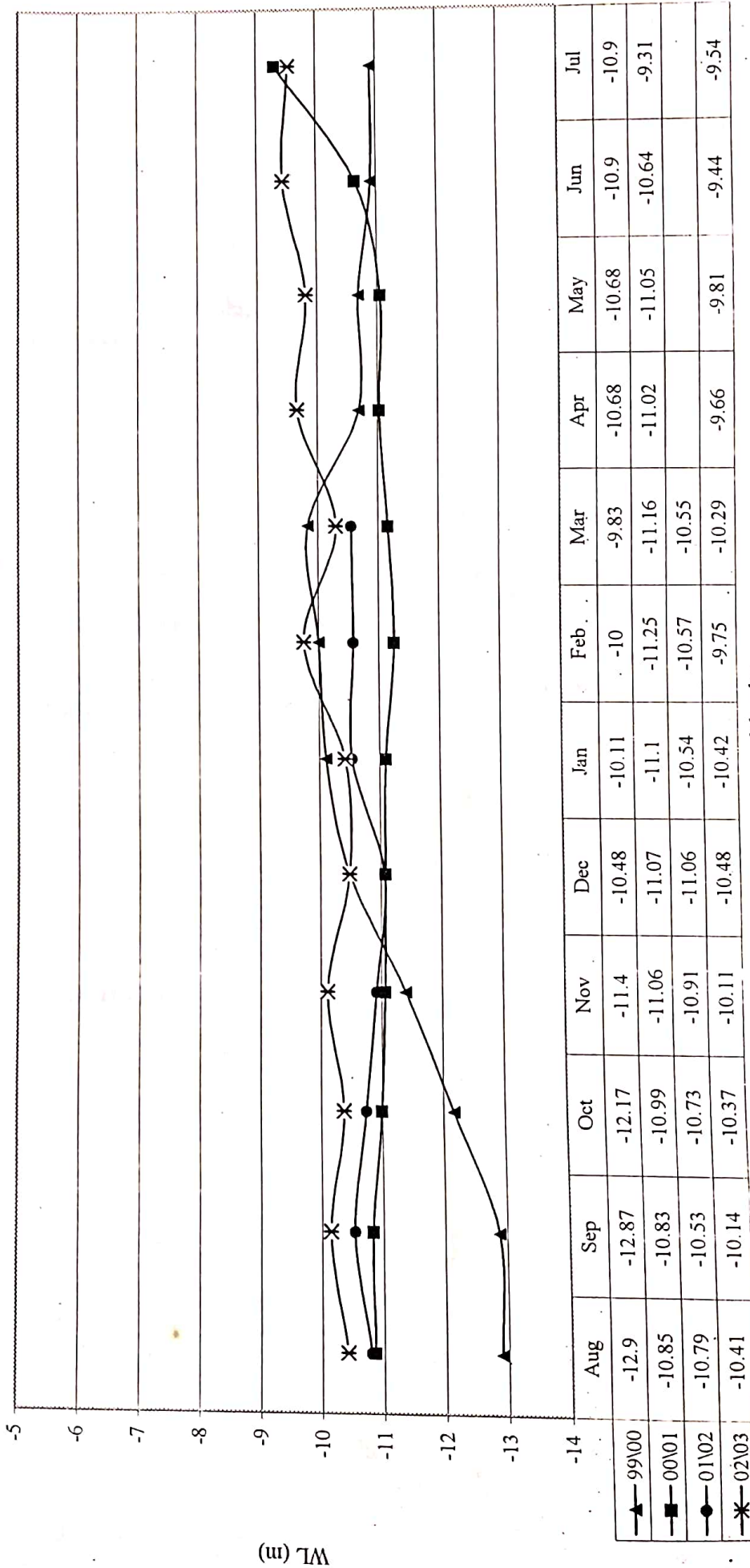
Regards

N R Shrestha

9/28/04

Hydrogrph-49

Comparison of SWL in Yr. 99/00 & 02/03
Well No. G-17, Patan Hospital, Lalitpur



Months

WL (m)

Page 1 of 3

Fax No: 4262979
~~4262979~~

~~4262979~~
~~4262979~~

Att: Mr. Nir Shakya
Hydrogeologist
Groundwater Resources Development Project
Babar Mahal, Kathmandu, Nepal.

Dear Sir,

Hydro Consult (P) Ltd. would like to thank you for your help in providing the static ground water level data of Well No. G-17 at Patan Hospital, Lalitpur. In appreciation of your kind consideration we would like to provide you with the boring log of the well (G-17). I hope the boring log, which is attached along with this cover letter, will help you to better interpret the ground water level data at Well No. G-17.

Thank you once again and we look forward to establishing a good working relationship with you and the Groundwater Resources Development Project.

Sincerely,

Aashish Sharma
On behalf of Hydro Consult (P) Ltd.

WELL LOG

Djlo No J-50

PROJECT NAME <u>A. D. P. JANAKPUR</u>		WELL NO. <u>3</u>	
AREA AND LOCATION <u>DASIRATH RANG SHALATRIPURESIBR</u>			
ELEVATION	M	LATITUDE	LONGITUDE
TOTAL DEPTH <u>250-52</u>	M	DRILLING RIG <u>TBM-42</u>	
DRILLING STARTED <u>10 Aug. 1988</u>		DRILLED BY <u>D. N. SEN</u>	
WELL COMPLETED <u>16 Oct. 1988</u>		LOGGED BY <u>P. MUKHIYA</u>	

STATIC WATER LEVEL <u>40.5</u>	M	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL <u>50</u>	M	CONDUCTIVITY	μS/cm
PUMPING RATE <u>720</u>	l/min	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Air Lift

WELL SIZE:- 8" / 6"

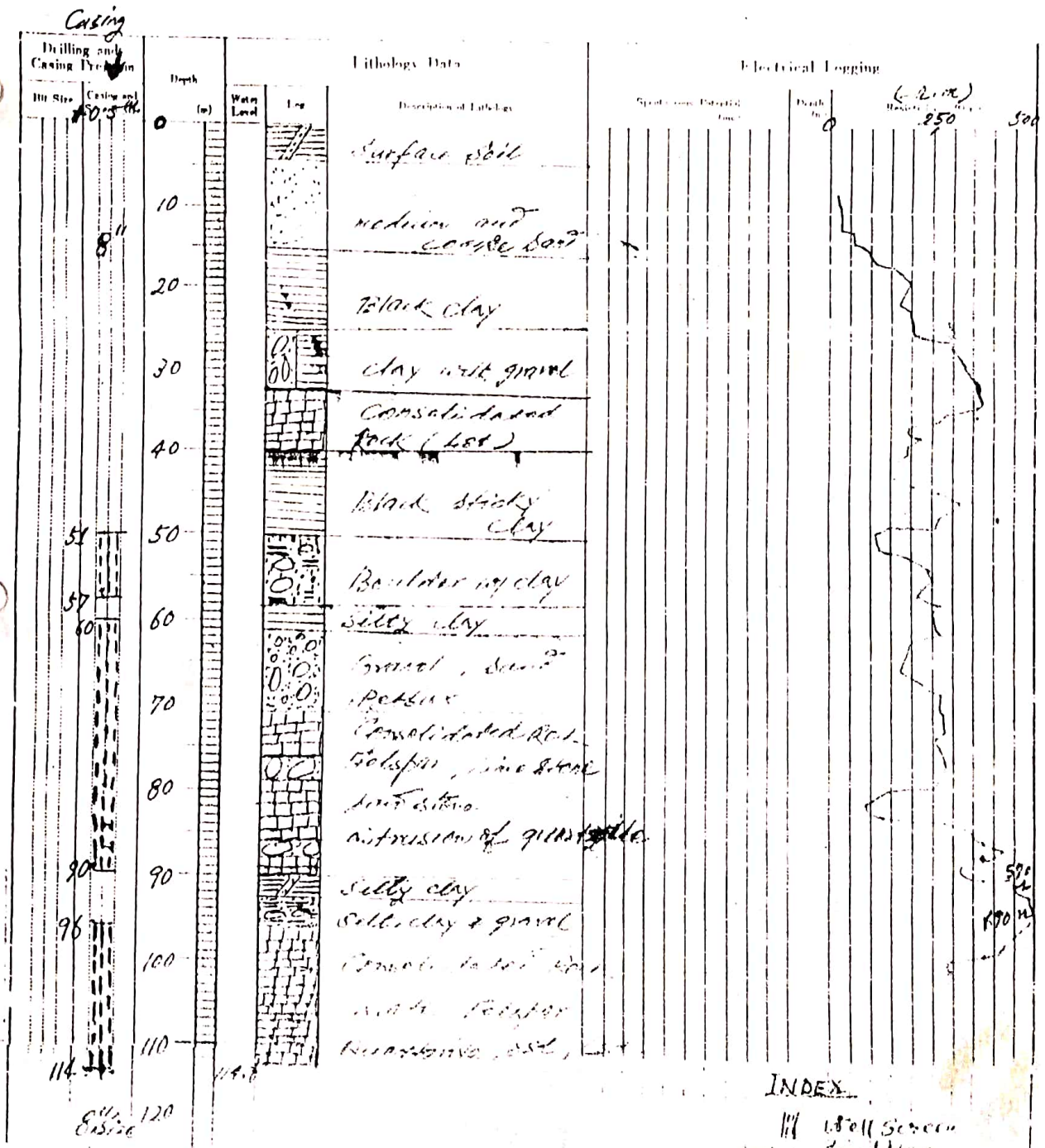
Depth (m)	Lithology Data		Electrical Logging	
	Log	Description of Lithology	Spontaneous Potential (mv)	Resistivity (Ωm)
0		TOP Soil		
10		Clay Black		
20		Sticky clay		
30				
40				
50				
60		Clay Black		
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170		- Pebbles		
180		Sticky clay Black		
190		Medium to coarse Sand		
200				
210				
220		Coarse & gravel		
230		& Gravel		
240				
250		Sticky clay		

WELL LOG

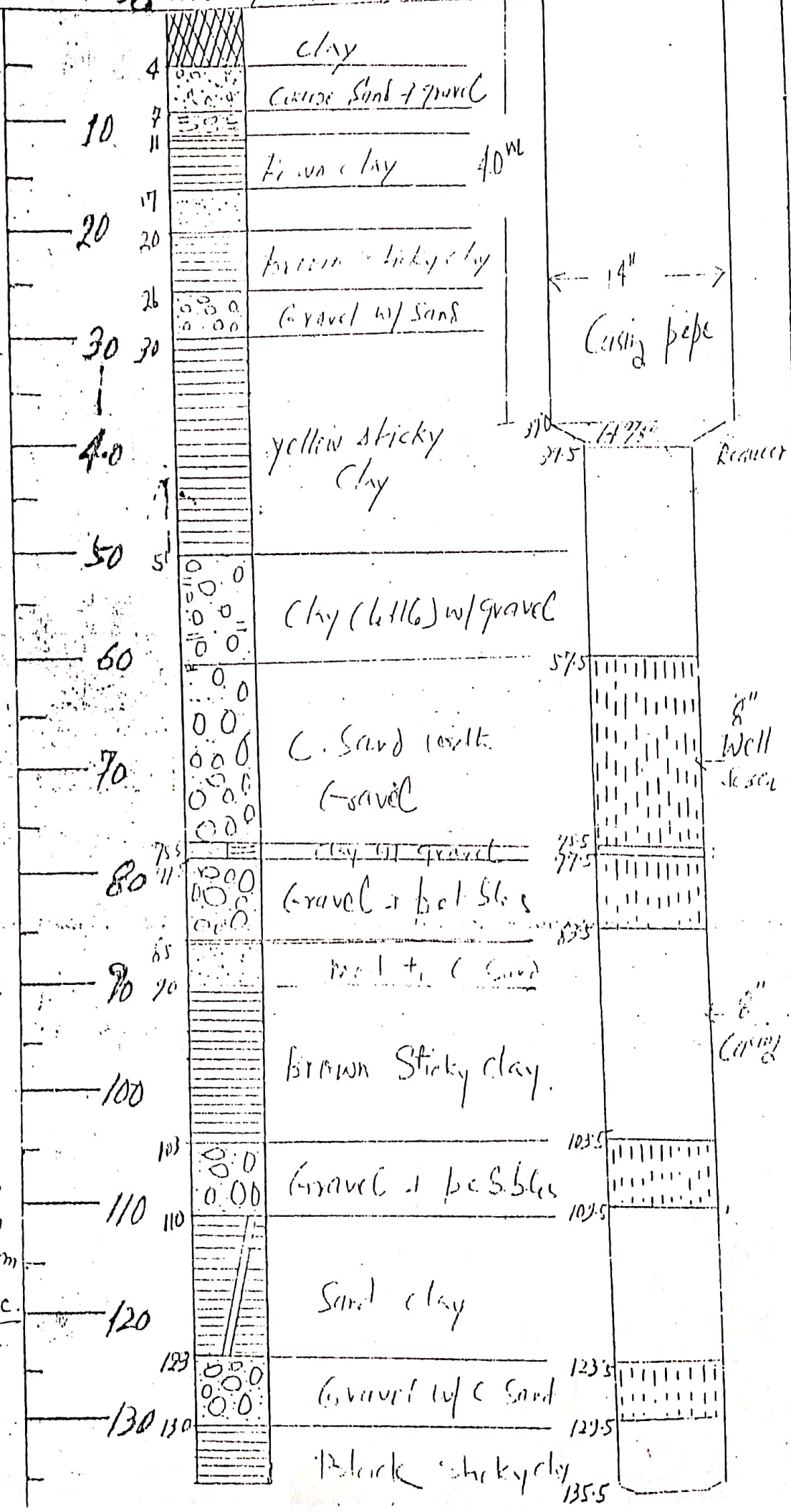
Date 15/

PROJECT NAME	A. D. S. Jankapur	WELL NO.	
AREA AND LOCATION	Dept. of Agricultural Dev	HARIHAR BHARAN	
ELEVATION		LATITUDE	
TOTAL DEPTH	114.0	LONGITUDE	
DRILLING STARTED		DRILLING NO.	TRD-500
WELL COMPLETED		DRILLED BY	S. N. SEN
		LOGGED BY	M. L. MICHHAANE

STATIC WATER LEVEL	23.00	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	43.00	CONDUC TIVITY	
PUMPING RATE	10.0 gpm	PH	
SPECIFIC CAPACITY		TOTAL HARDNESS	



Depth (meter) Lithology



4" casing 40m
 3" " 60m
 3" slotted 36m
 Reducers 1 Pc.

136.5

14" casing pipe

Reducer

3" Well screen

6" casing

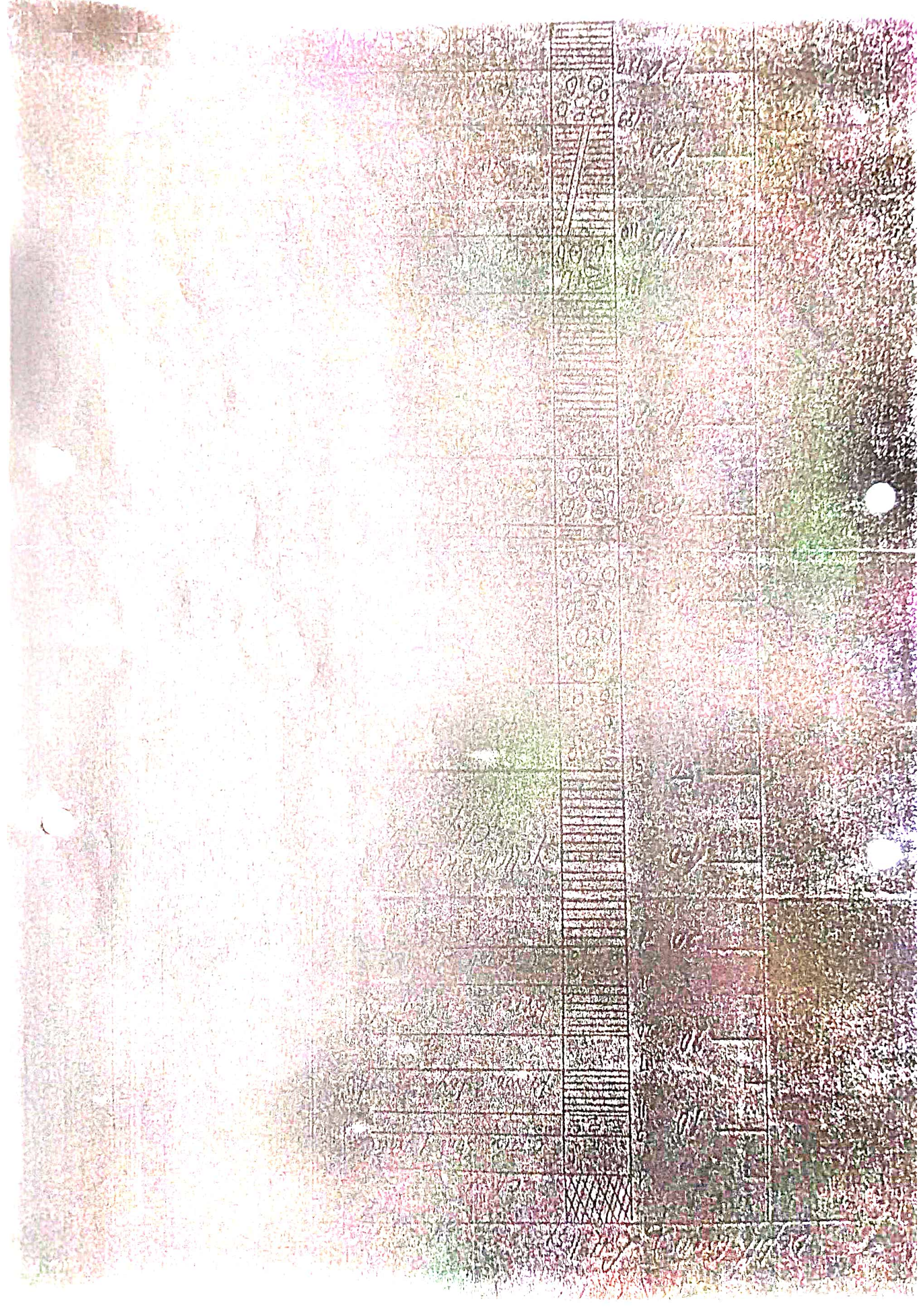
135.5

1		11.12
2		11.13
3		11.14
4		11.15
5		11.16
6		11.17
7		11.18
8		11.19
9		11.20
10		11.21
11		11.22
12		11.23
13		11.24
14		11.25
15		11.26
16		11.27
17		11.28
18		11.29
19		11.30
20		11.31
21		11.32
22		11.33
23		11.34
24		11.35
25		11.36
26		11.37
27		11.38
28		11.39
29		11.40
30		11.41
31		11.42
32		11.43
33		11.44
34		11.45
35		11.46
36		11.47
37		11.48
38		11.49
39		11.50
40		11.51
41		11.52
42		11.53
43		11.54
44		11.55
45		11.56
46		11.57
47		11.58
48		11.59
49		11.60
50		11.61
51		11.62
52		11.63
53		11.64
54		11.65
55		11.66
56		11.67
57		11.68
58		11.69
59		11.70
60		11.71
61		11.72
62		11.73
63		11.74
64		11.75
65		11.76
66		11.77
67		11.78
68		11.79
69		11.80
70		11.81
71		11.82
72		11.83
73		11.84
74		11.85
75		11.86
76		11.87
77		11.88
78		11.89
79		11.90
80		11.91
81		11.92
82		11.93
83		11.94
84		11.95
85		11.96
86		11.97
87		11.98
88		11.99
89		12.00
90		12.01
91		12.02
92		12.03
93		12.04
94		12.05
95		12.06
96		12.07
97		12.08
98		12.09
99		12.10
100		12.11

Handwritten notes in the right margin of the table, including numbers and symbols such as 11.12, 11.13, etc., corresponding to the table rows. Some notes include a star symbol and other markings.

Handwritten notes in the left margin of the table, including numbers and symbols such as 11.12, 11.13, etc., corresponding to the table rows. Some notes include a star symbol and other markings.

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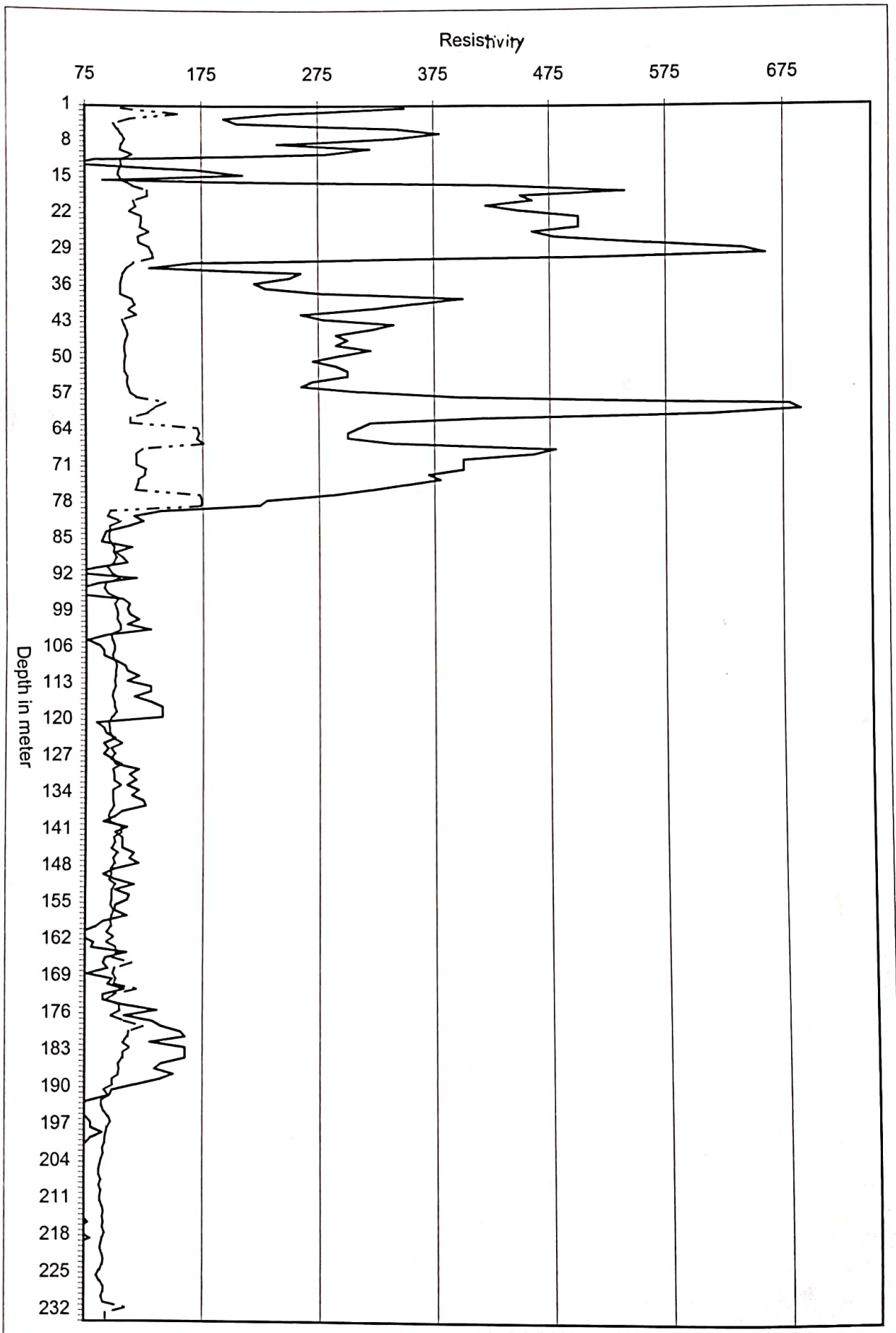
Depth

Geo. log.

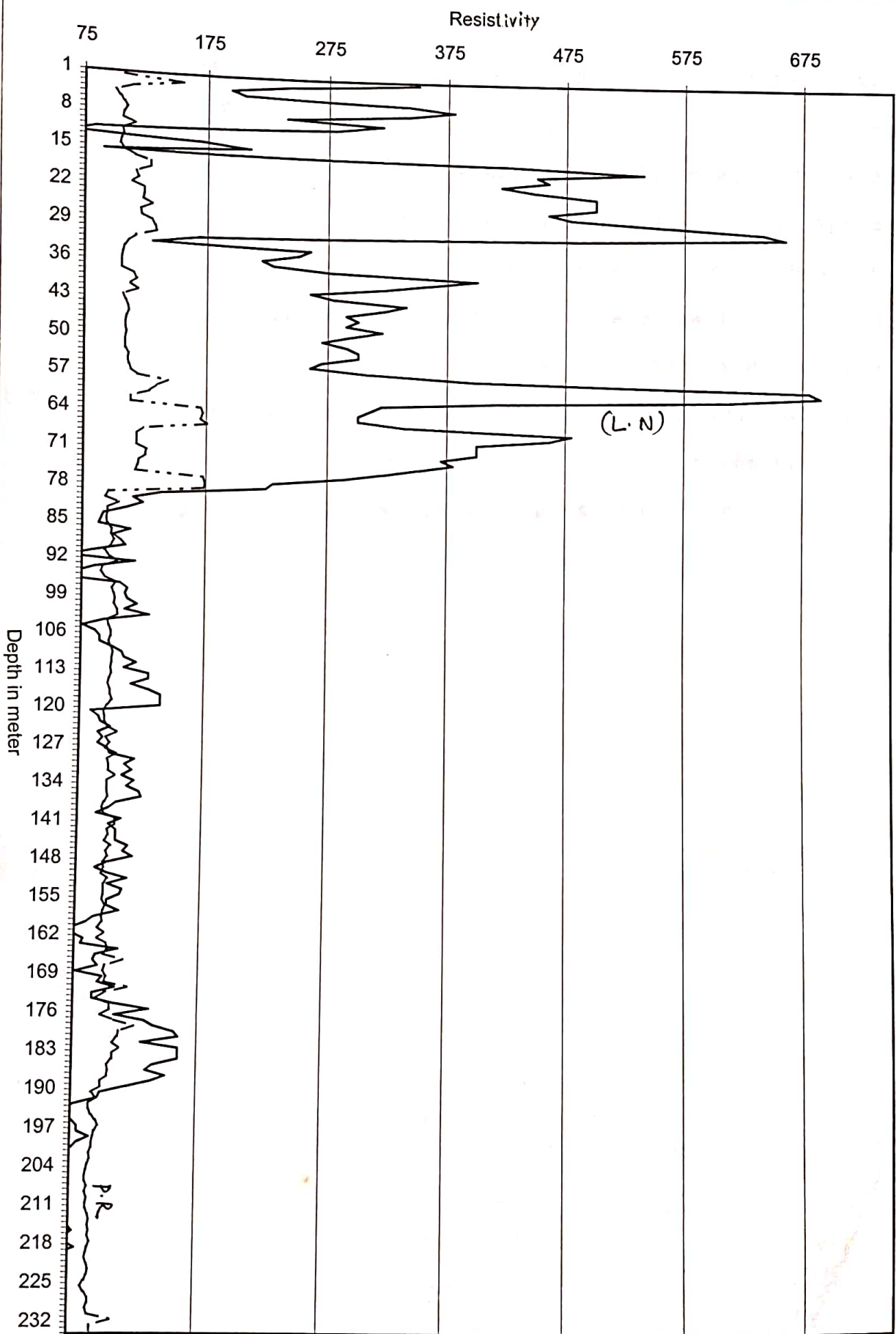
Int. 271 rd # 2412

Depth	Geo. log.	Int. 271 rd # 2412	J-31
	Top Soil (Sand) Fine sand		
10	clay with Boulders and coarse sand		
20	yellowish sticky clay		
30			
40	Gravel + Boulder with yellow clay		
50	yellowish clay		
60	yellow clay with Gravel + Boulders		
70	Boulders with Rich clay		
80	Boulder, pebbles, fine sand with little clay	75 31 4580 77 31 4680 77 31 70 71 78 31 81 17 79 31 85 87 80 31 84 88 81 31 87 93 82 31 88 90 83 31 87 88 84 31 85 88 85 31 82 84	
90			
100	Sandy clay		
110	Gravel with Boulders & fine sand	87 31 85 88 87 31 82 84 87 31 87 88 87 31 87 88 87 31 87 88 87 31 87 88 87 31 87 88	
120	119.57 meter		

Handwritten signature or initials at the bottom right of the page.



— Long Normal
 -- Point Resistance



Proposal for YANMAR Pump set Spare Parts

JADP received pump sets TS-60, 1000 sets and TS-80-450 sets under KR-2 fund in 1981 along with sufficient spare parts to be distributed to the farmers. Now almost all the pump sets are distributed to farmer in subsidized price but the price of spare parts increased drastically so the farmers are not ready to buy the spare parts. This resulted the stock of spare parts in large quantity in JADP store. Now, it is an urgent task to distribute spare parts to the farmers before terminating the life of pump sets. So, the price of spare parts must be revised on the basis of current market prices of Indian product as given below:

Proposal for Utilization of Micro Hydro Pump Set

JADP has received 1.5 kw. and 2.2 kw. micro hydro pumps each 65 sets in quantity under KR-2 assistance of Japan. As per the project agreement, those electric pump sets were to be supplied to the farmers of the mountain area of Janakpur zone for the purpose of irrigation, where the micro hydro plants were installed. But instead of lifting water for irrigation, the farmers used them for lighting their houses.

So, 56 units of pump sets are still in the storage of JADP in good condition. But, the storage for a long time in the ware house is not a solution. So, they should be distributed for the alternative use before they get mechanical deterioration in the store.

The micro hydro pump sets operate in 3 phase electricity line. In the villages, it is a problem to get 3 phase line. So, the 3 phase motors are now converted to single phase with special attachments (free of cost). Now, these pump sets can be operated in household for small scale irrigation purposes. The local market prices of such micro hydro pump sets were surveyed as below:

	CIF JKR	Made in China (NRS)	Made in India (NRS)	(NRS)
Ebara Motor Pump Centrifugal 2.5" diameter (1.5 kw 1800 rpm) Head 10m Cap 0.48/min	₹ 172,000.-	11,000.-	14,000.-	
Ebara Motor Pump Centrifugal 3.0" diameter (2.2 kw 1800 rpm) Head 12m Cap 0.6 m ³ /min	₹ 231,000.-	14,000.-	15,000.-	

List For Necessary Spare Parts :-

- Flat Engine
 - Tone Rig Machine Trd 500
 - Yanmar Diesel Tractor
 - Komatsu Wheel Loader
 - Toyota Pick-Up
 - Nissan Pick-Up
 - Toyota Station Wagon Jeep
 - Hino dump Truck, Cargo Truck, Water Tank Lorry, Fuel Tank And Unique Crantruck, Etc
- Model :FT 173 K
- Toyota Land Cruiser Jeep
 - Kubota Diesel Engine

FY	Location		Schedule for Installation	Remarks
	Well No.	District VDC		
1997/98	T-5	Dhanusha Godar		EBARA + FIAT
"		Dhanusha Bateshwar		EBARA + FIAT 54/55
"		Dhanusha Sinurjora		OKAMOTO + ISUZU 054/55
"	T-13	Dhanusha Kajraramaul		OKAMOTO + ISUZU
"	T-12	Dhanusha Jankinagar		OKAMOTO + ISUZU
"	T-15	Dhanusha Hanspur Kathpulla		OKAMOTO + ISUZU
"	T-11	Dhanusha Gohiyahi		OKAMOTO + ISUZU

FY	Location		Schedule for Installation	Remarks
	Well No.	District VDC		
1996/97	T-7	Dhanusha Gauripur		EBARA + FIAT
"	T-8	Dhanusha Radhapur		EBARA + ISUZU
✓		Chitwan Lankaline Jutpani	End of Feb	EBARA+FIAT 57/55
"		Mahottari Dhirapur		OKAMOTO+ISUZU 54/55
"		Mahottari Pipara		OKAMOTO+ISUZU Artisan farmer not interested
"		Mahottari Ramnagar-3		EBARA+FIAT 54/55
"		Mahottari Suga		OKAMOTO+ISUZU farmer not interested
"		Mahottari Ekrahiya-B		OKAMOTO+ISUZU Artisan
✓		Sarlahi Bhaktapur-B-3		EBARA+FIAT
"		Sarlahi Ghukauli		EBARA+FIAT 054/55
✓		Dhanusha Laxminibas-7		EBARA + FIAT 053/54
"		Dhanusha Tulsiyahi-2		OKAMOTO+ISUZU 054/55

- To be continued -

Pump Set Installation Schedule

FY	Location		Schedule for Installation	Remarks
	Well No.	District VDC		
1996/97		Morang Majhare		EBARA+FIAT 03/4/85
"		Siraha Govindapur-6		EBARA+FIAT
"		Chitwan Pithuwa-7	Middle of march	EBARA+FIAT 03/4/85
"		Chitwan Pithuwa-3C	"	EBARA+FIAT 03/8/85
"		Mahottari Ekrahiya-A		OKAMOTO+ISUZU 03/1/85
"		Sarlahi Ranigunj	Early of march	EBARA+FIAT 03/4/85
"		Sarlahi Bhaktapur-7		OKAMOTO+ISUZU
"		Dhanusha Lagma-7		OKAMOTO+ISUZU Artesian farmer not installed
"		Dhanusha Lagma-4		OKAMOTO + ISUZU "
"		Dhanusha Phulgama		OKAMOTO + ISUZU 3/4/85
"		Dhanusha Laxminibas-5	End of Feb	EBARA+FIAT
"		Dhanusha Lohana		OKAMOTO + ISUZU ⊕
"	T-3	Dhanusha Bharatpur		EBARA + ISUZU "
"	T-5	Dhanusha Godar		EBARA + FIAT

PER K.M. COST OF TUBELL ELECTRIFICATION WITHOUT PUMP AND MOTOR

S.N.	DESCRIPTION	QTY	UNIT	UNIT PRICE IN NRS.	AMOUNT IN NRS.
1	Concrete Pole	28	nos.	5,000.00	140,000.00
2	Transformer	1	nos.	250,000.00	250,000.00
3	3d Wires	5000	m	25.00	125,000.00
4	Insulator	120	nos.	100.00	12,000.00
5	MS. Angle	32	nos.	400.00	12,800.00
6	Stay Set wire	100	nos.	50.00	5,000.00
7	Panel Board set (with accessories)	1	set	25,000.00	25,000.00
8	Erection of pole, wire tensioning , fixing and fitting etc	1000	m	100	100,000.00
9	Contingency cost				50,000.00
				Total cost for 1 KM	719,800.00

Fuel consumption of Engine related to Dis. & heads

Well no.	District VDC	Combination of Engine and Pump	PWL	Discharge (l/sec)	Fuel consumption Engine RPM (l/Hr)
	Hattilet	FIAT Eng + EBAR (72Hp) (TDH 45m)	56m	20 ^L /sec	10 ^L /Hr 1700rpm
	Hariyon	FIAT Eng + EBAR	61m	32 ^L /sec	11 ^L /Hr 1700rpm
	Ramnagara (Danusa)	FIAT Eng + EBAR	11m	35 ^L /sec	6.5 ^L /Hr 1400rpm
	Ramnagar (Mohottari)	FIAT Eng + EBAR	31m	40 ^L /sec	7.5 ^L /Hr 1500rpm

Fiat engine is specified as 45m head for 60 l/s discharge. If it is lower than 45m head , it will not be economical. So Fiat engine should be used in high discharging well (35 ~ 45l/s) in 45m head for the economical rate of return.



RECOMMENDATION TABLE OF PUMP SET
(According to their Heads)

Total head	Types of Pump	Recommended Pump set
0 ~ 10m	Centrifugal Pump	18HP ~ 20 HP Engine TDH 10m Pump
0 ~ 30	Vertical turbine Pump	ISUZU Engine (42HP) OKAMOTO Pump (TDH40m)
30 ~ 45	Vertical turbine Pump	FIAT Engine (72 HP) EBARA Pump (TDH 45m)
45 ~ 60	Electric submersible Pump	(TDH 65m)

NOTE: Drilling Point should be fixed only to those areas where the pump is not deeper than 45m Head, otherwise any pump will be costly. Even Submersible Pump also requires much higher kilowatt motor.

Cost estimate of Tubewell Electrification

Per KM cost of Tubewell electrification without Pump & motor is Rs. 700,000/KM

Deep Tubewell, Hattilet (Maliyetti)
February 1997

Crop	Rainfed Sector		DTW Sector		Remarks	
	Land Available (ha.)		Land Available (ha.)			
		Cropped Area%		Cropped Area%		
Early Paddy	14.58	11.32	78	37.02	33.38	90
Wheat		6.12	42		19.74	53
Tobacco		3.5	24		4.22	11
Maize		0.27	2		3.64	10
Sugarcane		1.02	7		5.58	15
Vegetables		0.64	4		0.61	2
Oilseeds		0.27	2		0.28	1
		14.58	23.14		159	37.02

Production Per Unit Area (Ton Per Ha.)

Crop	Rainfed Sector	DTW Sector	Differences (%)
Early Paddy	1.38	3.20	232
Wheat	0.80	1.67	209
Tobacco	0.41	2.04	498
Maize	1.17	2.94	251
Sugarcane	6.54	16.99	260
Vegetables	0.81	4.27	527
Oilseeds	0.04	0.74	1850

Deep Tubewell Information
Hattilet, Mahottari
February, 1997

Depth of Well : 118.0 meter
Water Level : 41.0 meter; 61.0 meter in pumping time
Engine & Pump Installed : 1990
Engine : FLAT; Horse power: - 72
: Cylinder: - 6
: RPM: - 1700
: Fuel Consumption : - 10:00 L/Hr.
Pump : EBARA
: Capacity : 45 meter
: Discharge : 20.00 L/Sec.
: Utilized Hr: ~~145~~ :00 (January 1997)
Command Area : 80.00 hectares
Households : 70
Irrigation System : Group Organized (9 member)

Surveyed Households : 27
Surveyed Sector : DTW command area & rainfed area of same farms.

Survey findings is given in next page.

Deep Tubewell, Ramnagara
Dhanusha
February 1997

Crop	Rainfed Sector		DTW Sector		Remarks	
	Land Available (ha.)		Land Available (ha.)			
		Cropped Area%		Cropped Area%		
Early Paddy	63.18	1.03	2	58.79	27.37	47
Normal Paddy		59.41	94		24.39	41
Wheat		7.68	12		24.12	41
Potato		1.31	2		20.55	35
Onion		0.55	1		3.61	6
Lentil		1.41	2		3.26	6
Mustard		0	0		1.21	2
Vegetables		0	0		0.53	1
		63.18	71.39		113	58.79

Production Per Unit Area (Ton Per Ha.)

Crop	Rainfed Sector	DTW Sector	Differences (%)
Early Paddy	1.95	2.60	133
Normal Paddy	1.70	2.63	155
Wheat	0.72	1.39	193
Potato	8.94	14.03	157
Onion	8.87	8.88	100
Lentil	0.25	0.41	164
Mustard	0	0.49	-
Vegetables	0	11.93	-

Deep Tubewell Information Ramnagara, Dhanusha February, 1997

Depth of Well :	171.5 meter
Water Level :	8.0 meter; 11.0 meter in pumping time
Engine & Pump Installation :	1996
Engine :	FIAT; Horse power: - 72
:	Cylinder: - 6
:	RPM: - 1500
:	Fuel Consumption: - 7.5 ^l /hr
Pump :	EBARA
:	Capacity: 45 meter
:	Discharge: 35.0 L/Sec. _____ 9
:	Utilized Hr: 47:00 (January 1997)
Command Area :	40.00 hectares _____ 9
Households :	80
Irrigation System :	Group Organized (9 members)

Surveyed Households : 51
 Surveyed Sector : DTW command area & rainfed area of same farms.

Survey findings is given in next page.

Institutional	Present status and problems	Solutions
<p>1. Supervision for pump installation of DTWS</p>	<p>1. Pump installation is delayed due to shortage of pump installation accessories in JADP. so project have purchased pump installation accessories for 30 dtws through tendering process under KR 11 fund in this fiscal year.</p> <p>2. The pump installation maintenance and repair section is well equipped with manpower, vehicles machines tools, materials are not sufficient.</p>	<p>1. Necessary spare part and accessories shall be procured utilising KR 11 fund.</p> <p>2. An efficient team should be established comprising the technicians from drilling, pump installation and workshop sections of the project and periodical maintenance should be carried out in time, along with optimal vehicle, machinery, material and fund facilities.</p> <p>One well experienced person in to be deputed in the pump installation and maintenance section by creating new post in the organization of the ADP.J</p>

3. Others Problems and Countermeasures

Institutional Organization and Extension	Present Status and Problems	Solutions
	<p>In this Project, well drilling is the major scope of work. Including the IAP, the guidance on water use to the farmers in the deep and shallow tubewell development regions, the extension services, and the instruction and coordination to the ADO, has not been carried out so far</p> <p>Additionally, the ADO who are responsible for direct extension services to the farmer have been more or less participating in activation plans for the extension workers. However, in actuality, scope of responsibility of the extension workers covers a wider field such as technical guidance, investigation statistics, ^{for} the development of farmer's organization.</p> <p>Accordingly, the present reality shows that the extension workers have not been giving closer attention to their extension guidance, and their services.</p>	<p>Two persons dealing with Agronomy and Extension separately should be deputed in the ADPS.</p> <p>They shall be responsible to primarily extend guidance and coordination to the A.D.O., and water management extension training services directly to the farmers.</p>

<p>General Grant Aid Scheme (NISSAKU)</p>	<p>Out of the totally drilled 8 wells water extraction is possible only at 4 locations. Pump fault was seen at 2 locations. For the rest of 2 location, water extraction was not possible on account of screen clogging</p>	<p>Pump repairing shall be executed once components have been procured (from India), around and of March cleaning chemicals shall be procured under 2 KR 1997.</p>	<p>* Condition of the well and counter measures (<u>Annex XV</u>)</p>
<p>Deep Tubewell Installations Construction of pump house and canal as new installation.</p>	<p>On account of budget shortages, the construction has not progressed well (current fiscal year target: pump house and canal at 5 locations). As of 31 Jan. 1997, the total wells drilled so far was 234 numbers. Out of this agriculture wells was 173. The rest wells at 62 location is meant for school hospitals, temples etc.</p> <p>* Construction Condition of pump house. Out of 173 location, 127 locations have been completed. 46 locations is still to be executed.</p> <p>* Construction Condition of feeder (1 km) canal, out of 170 locations, 90 locations had been completed 66 location still to be completed,</p>	<p>In order to continue the installation of the pumps, the pump foundation shall precede. Additionally, the pump house shall be made by the Water Utilization Committee (farmers organization), and this shall be bamboo built (temporary one), as shown in picture.</p>	<p>* The target objective of drilling 40 deep wells in the current fiscal year shall be reduced to 30 wells. The saved budget shall be utilized for Construction of pump foundations, pump house and canals.</p> <p>* Construction Schedule (<u>Annex XVI</u>)</p>

2. Technical Assessment on State of Problematic Deep Wells, and their Reactivation Planning

Installation Name	Status Problems	Contents of Investigation	Solutions
<p>Installation for Deep Tube Well IAP</p>	<p>Out of the total 9 installations, the water extraction at the following 3 installation was not possible.</p> <p>IAP No. 4 The Screen had been damaged.</p> <p>IAP No. 6 On account of very large sand quantity out flow, the pump house had caved in.</p> <p>IAP No. 7 Reduction in Pumped water Quantity.</p>	<p>In No. 6 the geological boring log casing design and construction content had been investigated. As a result, it was understood that the positioning of the screen, the breadth and quantity of gravel packing was the problem.</p> <p>* The foot valve had dropped down during construction works in well No. 7, and it was understood to be in the reducer portion position (-55 m).</p> <p>On account of above, cleaning was not possible.</p>	<p>* IAP No. 4 Drilling Initiation 2 Feb. No. 4, No. 6, No. 7. Drilling shall be done within 30-70 m of the old well, and the existing canals shall be reactivated.</p> <p>* Re-drilling Planning (Annex XII)</p> <p>* Repairing works budget and construction works planning of pump-house (newly built) and canal as per (Annex XIII)</p> <p>* Utilization of Existing Infrastructure (Pump House and Canals) of Tube-wells (Annex XIV)</p>
<p>Deep Tubewell Installation KR-II Tumkey (TONE)</p>	<p>Year 1982 25 l/sec Presently 5 l/sec</p> <p>Of the totally drilled 16 wells, the extraction of water is possible only at Well No. 14 (Laliya, Dhanusha).</p>	<p>The geological bore log, casing design and the content of works had been investigated, showed that redrilling works at 11 location was possible. It was judged that there was no possibility of redrilling at the rest 4 locations.</p>	<p>Drilling for the 11 locations shall be carried out under 3 year plan, and the existing canals reactivated. Additionally, the pump house at the 11 location shall be used as a materials house.</p> <p>* Well No. 3 (KR-II Tumkey) Drilling Works Commencement 18th Feb.</p> <p>* The pump house, administration house and the feeder canal (500 m) for the rest 4 locations shall have to be discarded.</p>

<p><u>Vehicles</u></p> <p>The vehicle have been used for 13 years ~20 years in quite detrimental condition and the vehicle have aged significantly, thus the frequency of repair and maintenance is extremely high.</p>	<p>40 units of 36 types are in need of repair at present, and for the 9 types, necessary list up of the Parts shall be prepared (excluding those Parts that can be procured in India, or are available in the stores).</p>	<p>* The fault conditions is as per (<u>Annex X</u>)</p> <p>* Necessary Parts list (<u>Annex V</u>)</p> <p>* KR-II 1997 fund shall be utilized for procuring the necessary components.</p>
<p>Stocking Condition of Spare Parts and Selling Price</p>	<p>1-1 The selling prices of Indian manufactured Kirloskar pump-set spare parts of equivalent class had been investigated.</p>	<p>2-1-1 The selling price shall be set as identical to the prices of equivalent class Indian manufactured parts</p> <p>Price list (<u>Annex XI</u>)</p>
<p>Machinery Types Targetted to be Auctioned off</p>	<p>16 Types Selected</p>	<p>* Auction List (<u>Annex VI</u>)</p>

<p>Agriculture Machinery Kubota Tractor Attachment</p>	<p>1. Total procured quantity 11 types and out of the entire 190 sets, 98 sets comprised of 8 types are stored in unused condition.</p>	<p>1-1 The investigation showed no corrosion, no damages and no parts loss in the entire quantity, and they are almost new.</p> <p>1-2 In consideration of the above, it is recommended that the machineries be handed over to the Agriculture Research Center under the Ministry of Agriculture.</p>	<p>Proposal for the handing over of the machinery and their recipient (Annex VIII)</p> <p>1-2-1 Recipient of the handing over</p> <p>1. NARC (11 Agriculture Research Station) 6 types total 96 units</p> <p>* ADPI shall use 6 types 6 units.</p>
<p>Motor-pump for Microhydro (Ebara make) 1.5 kw 50 units 2.2 kw 15 units</p>	<p>1. Out of the total 65 units Procured 56 units are stored in an unused condition. Since the motor of the pump is rated for 220 volt 3 phase, they cannot be used for 3 phase supply (British Standard is applicable in Nepal).</p>	<p>1-1 Trial test had been carried out to transform the 3 phase motor into Single phase motor. As a result, by making use of Capacitors, they could be transformed into Single phase motors.</p>	<p>1-1-1 These shall be sold out in shallow tubewell regions with well developed electric distribution lines (farmlands under the Ministry of Agriculture, and also may be used in general house holds)</p> <p>* The selling price shall be identical to Indian or Chinese made motor pumps of equivalent capacity.</p> <p>The proposal for selling price set out is as per (Annex IX)</p>
<p>* Attachment for Bull dozer</p>	<p>Out of the total procured 5 units of disc harrow for the bull dozers, 2 units are not working on account of fault. Remaining 3 units are stored in unused condition.</p>		<p>The 2 units which have developed fault shall be repaired in March, and the entire 5 units is to be handed over to the Dept. of Roads within this fiscal year.</p>

Screen Pipe for Deep Wells (SANKYO Manufactured)

1. Out of the total 5670 m (5m, 3m) procured, 4232 m had been stacked in the outdoors. However, the pipes had not undergone any corrosion and no problem may be encountered in the quality itself.

On account of strength shortfall, these cannot be used for deep wells.

Additionally, the strength of the screen was 4.6 kg/m² resulting on usage up to 50 m only which indicated that the problem had been at the planning and requesting stage.

Furthermore, when Nissaku had carried out drilling works project in 1992 (2KR turn key) for 8 wells, inner cylinder for reinforcement had been placed to increase the strength up to 16 kg/m² (possible depth of use 100m 150m) and the screen pipe was utilized. As a result, no fault had been encountered in the 8 wells.

1-1 In order to ensure sufficient strength for their use in shallow tubewell, application tests shall be carried out (within the premises of ADPJ).
As the result, the following advantage is present when comparing them 1 with steel screen made of polyethylene or steel.

1. As the diameter is 8", the water collection area is larger.
 2. The opening area is larger.
 3. As the screen gap is smaller, the sand protection effect is greater.
- Pumped water quantity increased (in above 1,2,3).

The second turn application test shall be carried out in a farmer's field (Feb. 15 - Feb 28).

The above test shall be executed by widening the screen gap.

Trial production test of reducer pipe for interconnecting 4" Casing pipe and 8" Screen pipe.

1-1-1 The same 8" screen shall be used for Shallow Tubewell.
Application Planning
5 year Shallow Tubewell Development Plan of ADPJ
Annual shallow Tubewell drillings 150 number (average 8m used for 1 Tubewell, total 529 wells = 4232 m).

Therefore, the total quantity shall be used within the 3 years period of FY 1996/97 to 1999/2000

& Proposal for the Utilization of 8" Ø Tubewell Screen in S.T.W's (Annex VII)

<p>Well Drilling Rig for Shallow Tubewell, Tone Manufacture</p> <ul style="list-style-type: none"> • TRD-100 6 units • TOP-150 3 units (Truck Mounted) • TOP-150 3 units (Tractor Mounted) • Cleaning Van 4 units 	<p>1. Out of the total 12 units procured, 5 units cannot be used</p> <ul style="list-style-type: none"> * TRD 100 2 units * TOP 150 2 units (Truck Mounted) * TOP 150 1 units (Tractor Mounted) * Cleaning Van 4 units <p>* These have already been auctioned</p>	<p>1-1 The result of the investigation on the rig showed that 3 units of the hydraulic (TOP 150) drilling rig and 4 units of the cleaning van cannot be repaired for operating once again.</p> <p>These Vehicles can be Used only as a Cargo truck</p>	<p>1-2 The recommendation is to auction off these machinery.</p> <p>Auction List(Annex VI)</p>
<p>Casing Pipe 4269 m (8") 940 m (14")</p>	<p>1. The entire procurement quantity of 5209 m (8", 12") has been used.</p>	<p>1-2 Request has been made to Japan for a 2 year's quantity comprising 8", 12" totaling 5555 m (for 37 wells) and these are slated for delivery in April 1997.</p> <p>As a measure for supply continuity, borrowing from Ministry for Water Resources until April.</p> <p>8" 500 m 14" 600 m</p> <p>Besides the above procurement from India by utilizing 2KR C/P funding has been done in (Feb.97)</p> <p>8" 700m</p>	<p>1-2-2 From next fiscal year onwards, procurement shall be done from India by utilizing 2 KR C/P funding.</p>

<p>Oil Drilling rigs meant for deep Tubewell Yoshida Man. 3 units Tone Man. 4 units</p>	<p>done.</p> <p>* No. of accident accountable to shaft distortion 5 number</p> <p>Time of use at the time of accident generation 30~80 hrs.</p>	<p>2-2 An endurance test is underway by using purely manufactured bus at Well No. J 105 (Bachlaura) Current hours of endurance 133hrs (20th Jan. 1997)</p> <p>2-3 A trial production of rubber bush shall be done (Kirkoskar method, Indian Manufacture)</p> <p>Commencement of application test. Beginning of March 1997.</p>	<p>1-2-1 Necessary Parts list (Annex V)</p> <p>The KR-II 1997 grant-aid fund shall be utilized for the procurement of the parts.</p>
	<p>1. Of the totally procured 7 units of rig, 6 units have been running.</p> <p>For the remaining Tone 1 unit, the mast and body joint had undergone damage during the time of transportation and as a result, it is not possible to operate it presently.</p>	<p>1-1 As a result of the investigation, it was found out that the damaged portion had been repaired by a TONE Engineer in 1989 and no problem may be encountered..</p> <p>The main reason of why it could not be operated was on account that this rig was used as a spare part source for other similar model rig (3 units).</p> <p>1-2 In order to reoperate the rigs, a list up of necessary parts shall be prepared.</p>	

<p>EIBARA Manufactured Deep Tubewell Pump (Pump Head 45 m) KR-II</p>	<p>1. Out of the totally procured 101 units, 36 units are stored in un-utilized state. The reason was that the FIAT which was supposed to be used in pair was assessed as expensive and not installed.</p> <p>2. Should be used as a pair with the Isuzu Engine which has better fuel consumption.</p> <p>Accordingly, coupling joint is under trial production and testing.</p>	<p>1-1 Consideration on installation plan</p> <p>2-1 Test result at test well No. J125 Baniya (Time of use at the testing 16 hours)</p> <p>On continuous running for 2 hrs, no abnormal sound at coupling joint, heating, vibration, looseness of set bolt etc. was induced, and no problem may be encountered in durability.</p>	<p>1-1-1 Installation Plan(Annex IV)</p> <p>2-1-1 Test result showed that no problem encountered in locally trail produced Coupling and can be used as a pair with the Isuzu engine. But basically, this Ebara pump shall be used as pair with the FIAT engine.</p>
<p>ISUZU Manufactured Diesel Engine (42 IIP) KR-II</p>	<p>1. Of the total 79 units procured 66 units are stored in an unused condition.</p> <p>2. Shall be used as a pair. Since a technical fault was present in Okamoto Pump, its installation could not progress.</p>	<p>1-1 Consideration on the Installation Plan.</p> <p>2-1 An investigation on the distortion of the main shaft shall be undertaken.</p> <p>* Good Condition shaft number</p> <p>* Bad Condition shaft number</p>	<p>1-1-1 A combination with Ebara Manufactured Pump is possible.</p> <p>* Installation plan(Annex IV.)</p>
<p>OKAMOTO Manufactured Deep Tubewell Pump (Pump Head 45m)</p>	<p>1. Out of the total 79 units procured, 66 units are stored in unused condition.</p> <p>2. The shaft is a metal alloy and prone to distortion by heating. As a result since the bushing (shaft) could be detached due to distortion and vibration, thus rendering it un-usable, the installation of the unit was not</p>	<p>2-1-1 The procurement of shortage shaft amounting to units shall be done under KR-II 1997</p> <p>* Installation Plan(Annex IV)</p> <p>2-2-1 Shaft which have been assessed as good one, shall be used, and setting of the units shall be done extensively.</p>	

ADPJ : PROBLEM POINTS AND SOLUTIONS

Technical Evaluation Report on State of Un-utilized Machines & Equipment The Plan of Activation and Execution Content.

Machine & Equipment	CONDITION PROBLEM POINTS	CONTENT OF DETAILED INVESTIGATION (TESTING & INVESTIGATION)	PROPOSED SOLUTIONS
<p>1. FLAT DIESEL ENGINE: (72 IIP) KR-II</p>	<p>1. Total of 101 units procured but their utilization was slow and still 45 units remain unused, all on account of high fuel consumption because of large IIP.</p> <p>2. Stocking of important spare parts was absent.</p> <p>Only filters, packing materials had been sent as main spare parts, when the engine was imported into Nepal at that time.</p>	<p>1-1 Status of Fiat Engine Utilization, Well Condition, Execution of analysis on farmer's economy & finance.</p> <p>1-2 Fuel Consumption Test (4 Sites)</p> <p>Poor Condition Well (Low PWL)</p> <p>1. Hatfield - 5 1/2 (FVWL) 1 1/10</p> <p>2. Hariyon - 6 1/2 (FVWL) 1 1/10</p> <p>(Good Condition Well (High PWL))</p> <p>1. Rannagar - 11 1/2 (PWL) 6.5 1/4</p> <p>2. Rannagar - 3 1/2 (PWL) 1.5 1/10</p> <p>1-3 Assessment of Installation Plans</p> <p>2-1 Therefore, list up for necessary parts shall be made (excluding for those spares that could be procured in Nepal and India).</p>	<p>* List of installed DTW (Annex I)</p> <p>* Analysis of Results on the farm (Annex II)</p> <p>1-2-1 Install Pump of Suitable Head (Refer Annex III for recommended setting)</p> <p>* Pump Installation Schedule (Annex IV).</p> <p>2-1-1 As an emergency measure, the following spares from the existing 4 units of engines shall be used.</p> <p>Serial No.</p> <p>037193.85</p> <p>035295.85</p> <p>035303.85</p> <p>035051.85</p> <p>2-1-2 Accordingly fund from the KR-II shall be apportioned to make procurement of the necessary spares (as recommended in 2-1)</p> <p>* List for Necessary Spare Parts as per Annex V</p>

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ADPJ: PROBLEM POINTS AND SOLUTIONS

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2. Technical Assessment on State of Problematic Deep Wells and their Reactivation Planning.
3. Other Problems and Countermeasures.

ANNEX

- I List of Deep Tubewells Drilled with the Installation of Pump and Engine by ADPJ
- II Analysis of Results on the Farm
- III Recommendation Table of Pumpset
- IV Pumpset Installation Schedule
- V List for Necessary Spareparts
- VI Machinery and Vehicles Recommended for Auction
- VII Proposal for the Utilization of 8" Diameter Johanson Screen in STWs
- VIII Distribution Proposal for Attachments of Kubota Tractor
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- XIV Utilization of Existing Infrastructure (Pumphouse and Canals) of Tubewells
- XV Present Condition of Deep Tubewell *under General Grant Aicl.*
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A TERMINAL REPORT ON AGRICULTURAL MACHINERY
AT THE AGRICULTURE DEVELOPMENT PROJECT JANAKPUR (ADPJ)
(6th January 1997 - 3rd March 1997)

27th February 1997

Presented By:
Kenro Esaki
Agricultural Machinery Expert (JICA)

JICA Japan International Cooperation Agency
Japan Overseas Cooperation Volunteers (JOCV)

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Date : Mar. 04, 1997

Ref. No : JICA 03-01

Mr. M. D. PANT
Secretary
Ministry of Agriculture
Singh Darbar
Kathmandu, Nepal.

Dear Mr. PANT,

It is our pleasure to mention here the joint meeting held at your office on February 27, 1997, about the Agriculture Development Project Janakpur.

Now we would like to submit one copy of the report prepared by Mr. Kenro Esaki, for the actual implementation of the proposed recommendations made by the expert which goes together with the action plan prepared by the Agriculture Development Project Janakpur.

Based on the series of discussion /meeting held so far at the different level from the both sides (MOA and EOJ /JICA Nepal office) on this topic, now we feel it is high time for the implementation for the reutilization of unopened engines, pumps and other items laying in the project and also for reviving the unused Deep Tube Wells .

So, please let me request you to expedite this matter further from your side.

C. C.

Mr. M. P. GHIMIRE
Joint Secretary
MOF


Mr. J. N. THAPALIYA
Joint Secretary
MOA

Mr. T. B. SHRESTHA
D. G.
DOA

Mr. T. NAKAYA
Second Secretary
EOJ

✓ Mr. K. B. SHRESTHA
Project Chief
ADPJ, Janakpur

Sincerely yours


A. UCHIDA
Assist. Resident Representative
JICA Nepal Office
MAR - 4 1997
NEPAL
OFFICE

WELL LOG

Well Case: H-41

PROJECT NAME T.I.M.T.S.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION MIRCHAIYA-2, Siraha-District, Sagarmath-Zone.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	101.0	m	DRILLING RIG TBD-500
DRILLING STARTED		DRILLED BY Sudeep Ram	
WELL COMPLETED Mar., 1997		LOGGED BY P. Mukhiya	

STATIC WATER LEVEL	-12.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-54.0	m	CONDUCTIVITY	µS/cm
PUMPING RATE	300.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
Bit Size	Casing and Log No.		Water Level	Log	Description of Lithology	Spontaneous Potential (mV)	Depth (m)	Resistivity (ohm m)
		0				0	100	250
		10			Sandy Clay			
		20			Gravel with Clay			
		30			Black Sticky Clay			
		40						
		50			Clay Compacted Boulders.			
		60						
		60.5						
		66.0			Gravel and Coarse Sand			
		70			Black Sticky Clay.			
		80						
		80.25						
		90			Pebbles, Gravel, grit Fine to Coarse Sand			
		100						
		100.8						
		101.0			Black Sticky Clay.			
		110						
		120						

WELL LOG

N-49.

PROJECT NAME TJATSP		WELL NO.	
AREA AND LOCATION Rom Nagar, Maho Hari - Dist			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	96.25	DRILLING RIG	TRD-500
DRILLING STARTED		DRILLED BY	Sudesh Rana
WELL COMPLETED	11/15/1988	LOGGED BY	M. Kamichane

STATIC WATER LEVEL	-29.00 feet	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	-31.00 feet	CONDUCTIVITY	
PUMPING RATE	42.0 l/min	pH	
SPECIFIC CAPACITY	m³/d/m	TOTAL HARDNESS	

Drilling and Logging Program		Depth (feet)	Lithology Data		Electrical Logging			
			Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)
Drilling Program 5" Size Logging Program 5.5 x 2 Sanky 2.25 x 2 96.25		0			clay with silt			
		0.0			Pebbles, C. Sand			
		10						
		0.0						
		0.0			Clay (yellowish black)			
		0.0			with Gravel			
		20						
		0.0			Yellowish sticky clay			
		40						
		0.0			Clay with Gravel			
		60						
		0.0			Black sticky clay			
		70						
		0.0			Pebbles gravel very little clay			
	0.0			Black sticky clay				
	80							
	0.0			Boulders, pebbles				
	0.0			Gravel & C. Sand				
	90							
	0.0			Yellowish sticky clay				
	100							

WELL LOG

Data No. 1-47

PROJECT NAME <u>TIATSP</u>		WELL NO.	
AREA AND LOCATION <u>Bhrampuri, S-7 Block, Sarlahi - District.</u>			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH <u>281.0</u>	m. feet.	DRILLING RIG <u>YPO-50R</u>	
DRILLING STARTED		DRILLED BY <u>JICA M. R. Jishi</u>	
WELL COMPLETED <u>26 Feb. 1988</u>		LOGGED BY <u>H. ISIKAWA</u>	

STATIC WATER LEVEL	X	feet	WATER TEMPERATURE
DYNAMIC WATER LEVEL	X	feet	CONDUCTIVITY <u>µmhos/cm</u>
DUMPING RATE	(l/min)	(m ³ /d)	pH
SPECIFIC CAPACITY		(m ³ /d/ft)	TOTAL HARDNESS

Drilling Hole is abandoned in the absence of Aquifer.

Depth (feet)	Lithology Data		Electrical Logging	
	Log	Description of Lithology	Spontaneous Potential (mv)	Resistivity
0 - 5.5		Top - Soil		
5.5 - 15		Sandy clay		
15 - 20		Sandy & Gravel		
20 - 24		Gravel with clay		
24 - 34		Gravel		
34 - 41		Sandy clay		
41 - 105		Blue Black yellowish clay		
105 - 110		Sand with clay		
110 - 146		Blue, yellow sticky clay		
146 - 151		Sand with clay		
151 - 161		clay		
161 - 162		clay with gravel		
162 - 223		Clay		
223 - 227		Gravel with clay		
227 - 233		Clay		
233 - 235		Sand gravel clay		
235 - 240		Sandy clay		
240 - 281		Gravel with clay		
281		Clay		

WELL LOG

TRAINING CENTRE

5-34

PROJECT NAME JANAKPUR AQUACULTURE		WELL NO	
AREA AND LOCATION JANAKPUR			
DEPTH	156.6 m	LATITUDE	LONGITUDE
DRILLING RIG	YBM 501 (214 B)	DRILLED BY	S JHA
DATE STARTED	09/6/10	LOGGED BY	M. Kamichand
WELL COMPLETED	09/6/10		

STATIC WATER LEVEL	+ 16 m	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		feet	CONDUCTIVITY	μS/cm
DISCHARGE RATE	60 l/s	4 min	pH	
STORAGE CAPACITY	60 l/s	m ³ /m	TOTAL HARDNESS	

Depth (m)	Lithology Data		Electrical Logging	
	Log	Description - Lithology	Spontaneous Potential (mv)	Resistivity (Ωm)
0 - 1.5		Top soil		
1.5 - 2.5		Black sticky		
2.5 - 3.5		Sticky clay		
3.5 - 4.5		Sandy clay		
4.5 - 5.5		Sticky Black clay		
5.5 - 6.5		Gravels sand		
6.5 - 7.5		clay mixed gravel		
7.5 - 8.5		Rich clay gravels		
8.5 - 9.5		Slickly Black clay		
9.5 - 10.5		Gravels Pure		
10.5 - 11.5		Black clay		
11.5 - 12.5		Pebbles		
12.5 - 13.5		Black clay		
13.5 - 14.5		Gravels Pure		
14.5 - 15.5		Black clay		

4" casing = 10"

6" casing = 12" 31/2"

8" casing = 14"

Reducers = 1 P.

WELL LOG

Well No: J-33

PROJECT NAME <i>J.P.P. Inc.</i>	WELL NO.
AREA AND LOCATION <i>Pasubati</i>	
ELEVATION <i>feet</i>	LATITUDE LONGITUDE
TOTAL DEPTH <i>212 Meter feet</i>	DRILLING RIG
DRILLING STARTED	DRILLED BY <i>J.P.P. Inc.</i>
WELL COMPLETED	LOGGED BY <i>J.P.P. Inc.</i>

STATIC WATER LEVEL <i>feet</i>	WATER TEMPERATURE °C
DYNAMIC WATER LEVEL <i>feet</i>	CONDUCTIVITY μS/cm
PUMPING RATE <i>600 4min</i>	pH
SPECIFIC CAPACITY <i>m³/min</i>	TOTAL HARDNESS

Estimated

Well Description

Drilling and Casing Program		Depth (feet)	Lithology Data			Electrical Logging		
			Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		10			Medium to coarse sand			
		20			Sand			
		30			Sand			
		40			Sand			
		50			Sand			
		60			Sand			
		70			Sand			
		80			Sand			
		90			Sand			
		100			Clay			
		110			Clay			
		120			Clay			
		130			Clay			
		140			Clay			
		150			Clay			
		160			Clay			
		170			Clay			
		180			Clay			
		190			Clay			
		200			Clay			
		210			Clay			
		220			Clay			

Screen Position
165" to 210"

WELL LOG

Lulu No. N-51

PROJECT NAME TIATSP		WELL NO.	
AREA AND LOCATION Laxmi Niwas, Dhanusha - District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	122.50 feet	DRILLING RIG	YRD-501R
DRILLING STARTED		DRILLED BY S. Jha	
WELL COMPLETED Apr. 1998		LOGGED BY M. Lamichhane	

STATIC WATER LEVEL	-37.25 feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-44.50 feet	CONDUCTIVITY	μS/cm
PUMPING RATE	30.0 (min/2000d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Casing and Program		Depth (feet)	Lithology Data		Electrical Logging		
Bit Size	Casing and Screen Size		Notes	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0		Sandy clay			
		10	OO	Boulders, pebbles Coarse to fine Sand			
		20	OO				
		30	OO				
		40	OO	Clay with gravel			
		50	OO				
		55		Silt with clay			
		60	OO	Clay with gravel			
		65	OO				
		70	OO				
		75		Silty clay			
		80	OO	Gravel & C. sand			
		85	OO				
		90		Silt to sand			
		95	OO	Gravel & med to C. sand			
		100	OO				
		105	OO	Gravel, pebbles with sticky clay			
		110	OO				
		115	OO	Pebbles, C. sand & gravel			
		120	OO				
		122.5		Sticky brown clay			

6.5" = R

S. Jha

R.F.

R.F.

120

WLLL LUG

Date: / /

N-53

PROJECT NAME TATSP		WELL NO. N-53	
AREA AND LOCATION Ishorpur, Sarlahi-District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH 75.0	feet	DRILLING RIG YRD-5CR	
DRILLING STARTED		DRILLED BY D.N. Sen	
WELL COMPLETED Apr. 1988		LOGGED BY M. Lami Khara	

STATIC WATER LEVEL -30.70	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL -40.45	feet	CONDUCTIVITY	μS/cm
PUMPING RATE 43.0	l/min (gpm)	pH	
SPECIFIC CAPACITY	m ³ /m	TOTAL HARDNESS	

Depth (feet)	Lithology Data		Electrical Logging	
	Water Level	Description of Lithology	Spontaneous Potential (mv)	Resistivity (Ω-ft)
0		Silty clay		
10		Yellowish sticky clay		
20		Boulders with clay		
30		Silt		
40		Clay with gravel		
50				
60				
65.4				
70		Med. gravel with c.s.		
80		Silt with clay		
90		Pebbles, Gravel fine to med Sand		
93.4		Yellowish sticky clay		
100				
110				

55
 95.0
 93.4
 65.4

WELL LOG

Well No.

N-54

PROJECT NAME TIATSP		W.F.L. NO.	
AREA AND LOCATION Balganga, Ghurkauli Sarlahi District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	92.5 feet	DRILLING RIG	TRD-500
DRILLING STARTED		DRILLED BY Sudesh Rana	
WELL COMPLETED May, 1988		LOGGED BY M. L. ...	

50 वि. वि. कार. बा. ज. ...
 म. वि. वि. कार. बा. ज. ...
 म. वि. वि. कार. बा. ज. ...

STATIC WATER LEVEL	-17.00 feet	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	-23.45 feet	CONDUCTIVITY	
PUMPING RATE	48.0 4 min (per day)	pH	
SPECIFIC CAPACITY	m³/d/m	TOTAL HARDNESS	

Drilling and Logging Program	Depth (feet)	Lithology Data			Electrical Logging	
		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Resistivity (Ω m)
	0			Sandy clay		
	10			Sand & fine gravel		
	20			Black sticky clay		
	30			Clay with Gravel		
	40			Clay mixed med. gravel		
	50			Black sticky clay		
	60	82.5		Pebbles, gravel		
	70			Coarse sand		
	80			Black sticky clay		
	90	90.0				
	100					

R

92

Kisan Nagar, Mahottari - District

N-11

by JICA Team

Installed: 1981

Loc. M-4 Site - Well Log

Driller: Mr. S.P.

Rig: Rotary YRD-501
Mud pump HAS-7

Depth (m)	Casing Program	Daily Drilling	Driller Log	Lithology Data
0	7 24" Bit			0-1 m Black silt
11.00	7 22" Conductor	11. 2/15		Gravel and Boulder 200+ big Boulder,
18.00		18. 2/16		20 m Gravel
24.00		24. 2/17		22 m Yellow clay with Gravel
28.00		28. 2/20		23 m " clay
				24 m " clay with Gravel.
				25 m " clay
				26 m " clay
				28 m Gravel with Boulder
50	7 17 1/2" Bit	43. 2/21		43 m Yellow clay
	7 14" Pump-housing-casing			47 m Gravel and Boulder with yellow clay
				57 m Yellow clay
				64 m Gravel and Boulder with yellow clay
				71. 2/22
	Reducer 7 1/2" x 4 1/2"			82 m
	25.32 m			
	91.35 m			Gravel with yellow clay
100	7 14 3/4" Bit	101. 2/23		
	7 8" Production casing (Johnson-type screen)			112 m Yellow clay with Gravel
				120 m Yellow Clay
		118. 2/24		
		130. 2/25		
				135 m Gravel with yellow clay
				139 m Yellow Clay (very hard, 1.0 m/2 h. from 147 m)
150				147 m " Clay with Gravel
				150 m Gravel with Sandy Clay and Boulder
		156. 2/26		159 m Clay (very hard, 0.5 m/2 5 h), yellow
				166 m Gravel with yellow clay
		168. 2/27		
				rich clay (hard, yellow) with little gravel
				170. 2/28
200				190 m

WELL LOG

PROJECT NAME: Govt. Project Jankpur		WELL NO.	
AREA AND LOCATION: Police Training Centre, Tharjivanj, Kathmandu			
ELEVATION	M	LATITUDE	LONGITUDE
TOTAL DEPTH	222.0 M	DRILLING LOG NO. - 72 A	
DRILLING STARTED: Nov. 16, 1988		DRILLED BY: S. Jai.	
WELL COMPLETED: 10 Jan, 1989		LOGGED BY: S. Kulkarni.	

STATIC WATER LEVEL	33.5 M	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	55.0 M	CONDUCTIVITY	μS/cm
PUMPING RATE (Q)	4 m ³ /d	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Throughput = 6"

Depth (m)	Lithology Data			Electrical Logging	
	Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Resistivity (Ω m)
0			Top soil		
10			Clay Black		
20			Fine to medium Sand		
30			Silty Clay		
40			Medium to coarse Sand		
50					
60					
70			Clay Black		
80					
90					
100					
110			Sand and Gravel		
120					
130					
140			Clay Black		
150			Sticky Clay		
160			Coarse Sand & Gravel		
170					
180			Fine Sand		
190			Sand and Gravel		
200					
207.0			Silty Clay		
215.2			Sticky Clay		

6" casing pipe - 151.7 m
 5" drilled pipe - 43.5 m
 Screen position
 157.5 - 182.0 m

WELL LOG

Date No. N-5-

PROJECT NAME <u>TIA TSP</u>		WELL NO.	
AREA AND LOCATION <u>Shree Nagar, Gauri-Shankar, Surlahi - District</u>			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	<u>106.0</u> meet	DRILLING RIG	<u>YRD-50" R"</u>
DRILLING STARTED		DRILLED BY <u>Mr. G. D. JOSHI</u>	
WELL COMPLETED <u>Mar. 1988</u>		LOGGED BY <u>Mr. M. Lamichhand</u>	

STATIC WATER LEVEL	<u>-17.20</u> feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	<u>-21.0</u> feet	CONDUCTIVITY	$\mu\text{S/cm}$
PUMPING RATE	<u>42.0</u> (min. $\frac{\text{gallon}}{\text{min}}$)	pH	
SPECIFIC CAPACITY	$\text{m}^3/\text{d}/\text{m}$	TOTAL HARDNESS	

Drilling and Casing Program		Lithology Data			Electrical Logging	
Bit Size	Depth (feet)	Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Resistivity (Ωm)
	0			<u>sandy clay</u>		
	10			<u>Boulders, pebbles gravel & clay (lite)</u>		
	20					
	30					
	40			<u>Gravel & clay</u>		
	50			<u>clay with gravel</u>		
	60	<u>60.5</u>		<u>Sticky clay</u>		
	70			<u>Sand med to coarse, gravel</u>		
	80	<u>71.5</u>		<u>Sticky clay with gravel</u>		
	90	<u>83.5</u>		<u>Gravel, coarse Sand & med. Sand</u>		
	100	<u>100.0</u>				
	110			<u>clay with gravel</u>		
	120			<u>clay</u>		

WELL LOG

Well Paper No. 43

PROJECT NAME T.I.T.-S.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION BHAKTIPUR, Sarlahi District, Janakpur-Zona.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	112.0	DRILLING RIG	TRD-500
DRILLING STARTED		DRILLED BY	Suleep Barn
WELL COMPLETED	Feb, 1987	LOGGED BY	P. Ishikya

STATIC WATER LEVEL	-1.5	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-54.0	m	CONDUCTIVITY	µS/cm
PUMPING RATE	Fullal Q _{1/2} / min (m ³ / d)		pH	
SPECIFIC CAPACITY	m ³ / m		TOTAL HARDNESS	

Drilling and Casing Program		Depth m	Lithology Data		Electrical Logging			
Bit Size	Casing and Log Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0			Top-Soil			
		10			Sand (Medium)			
		20			Gravel and Sand			
		30			Clay with sticky Gravel			
		40			Black Sticky Clay			
		50			Black Sticky Clay			
		60			Gravel & Sand			
		70			Clay & Gravel			
		80			Black Sticky Clay			
		90			Boulders, Pebbles & Coarse Sand			
		100			Black Sticky Clay			
		110						

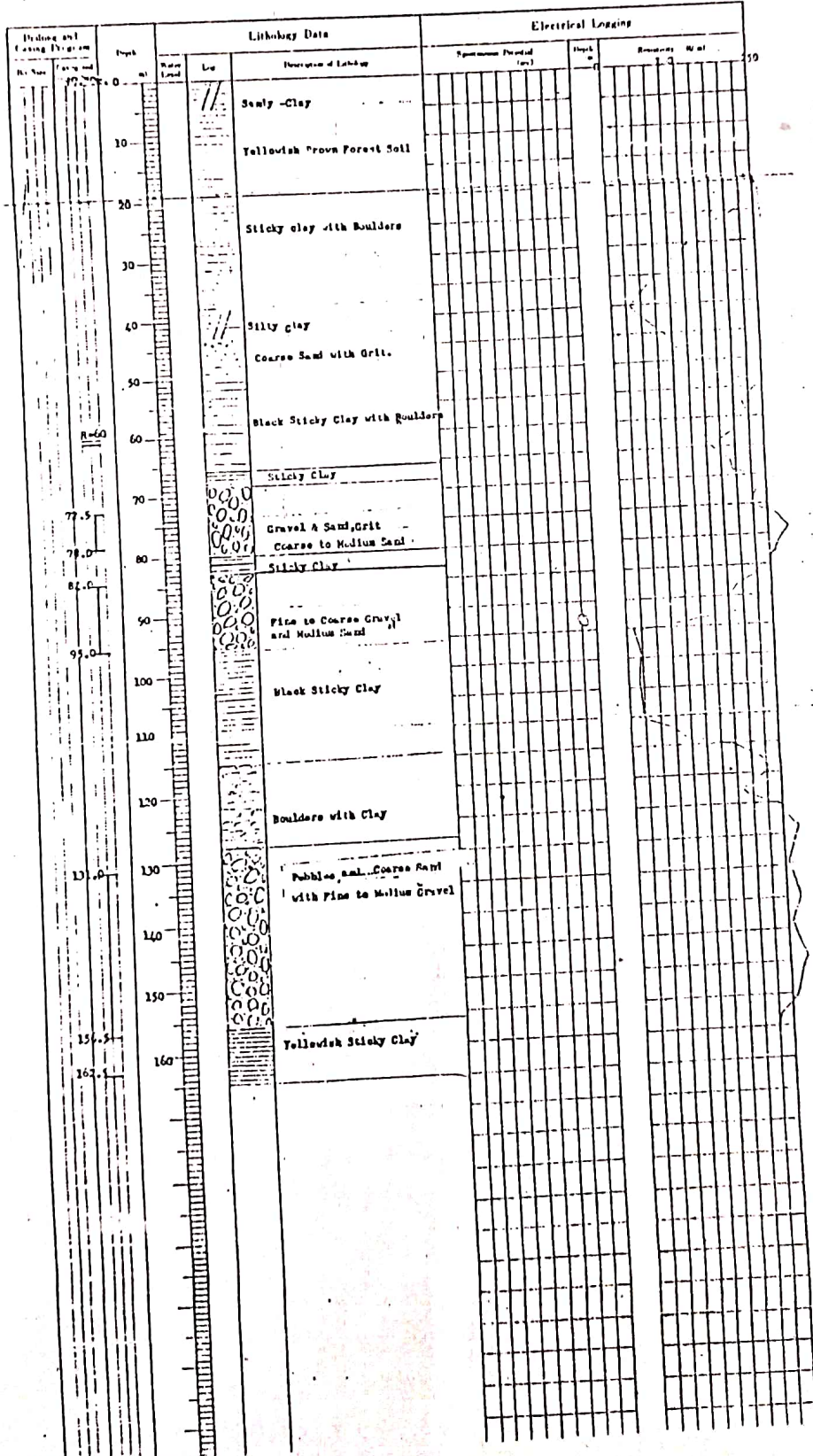
Tube-Well is pulled out due to the damage of the Screen

WELL LOG

Well Paper H-22

PROJECT NAME <u>F.T. & S.P.</u> Sheet 145/0*	
AREA AND LOCATION <u>MIRCHETA-3, Mircha-District, Nagarmatha.</u>	
ELEVATION _____	LATITUDE _____
TOTAL DEPTH <u>162.5</u>	DRILLING RIG <u>TPD 300</u>
DRILLING STARTED _____	DRILLED BY <u>Gulcep Asm</u>
WELL COMPLETED <u>Apr 1977</u>	LOGGED BY <u>P. Puhly</u>

STATIC WATER LEVEL <u>-35.0</u>	WATER TEMPERATURE _____
DYNAMIC WATER LEVEL <u>-35.0</u>	CONDUCTIVITY _____
PUMPING RATE <u>1900.0</u> l/min (_____ m ³ /d)	pH _____
SPECIFIC CAPACITY _____	TOTAL HARDNESS _____

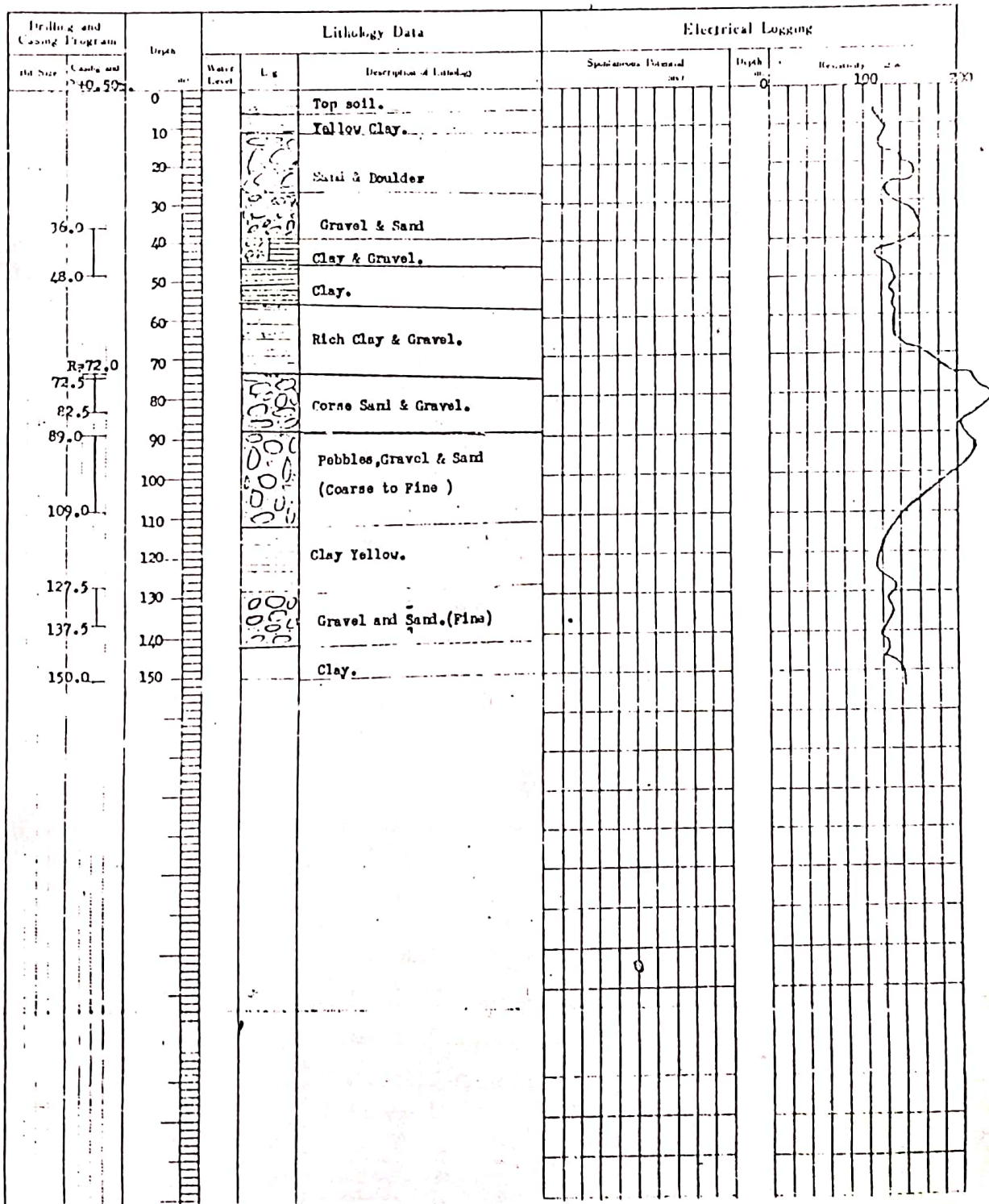


WELL LOG

Well Number K-27

PROJECT NAME Tera Ground Water Project (JICA) TIATSP		Size: 14"/8"	
AREA AND LOCATION JAMHEDAS, Dhameha-District, Jamkpur-Zone.			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	150 m	DRILLING RIG	TRD-501
DRILLING STARTED	2 Feb, 1987.	DRILLED BY	D.N. Sen.
WELL COMPLETED	4 March, 1987.	LOGGED BY	O. Nagata.

STATIC WATER LEVEL	-37.0 m	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	-66.0 m	CONDUCTIVITY	
PUMPING RATE	60 l/min	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

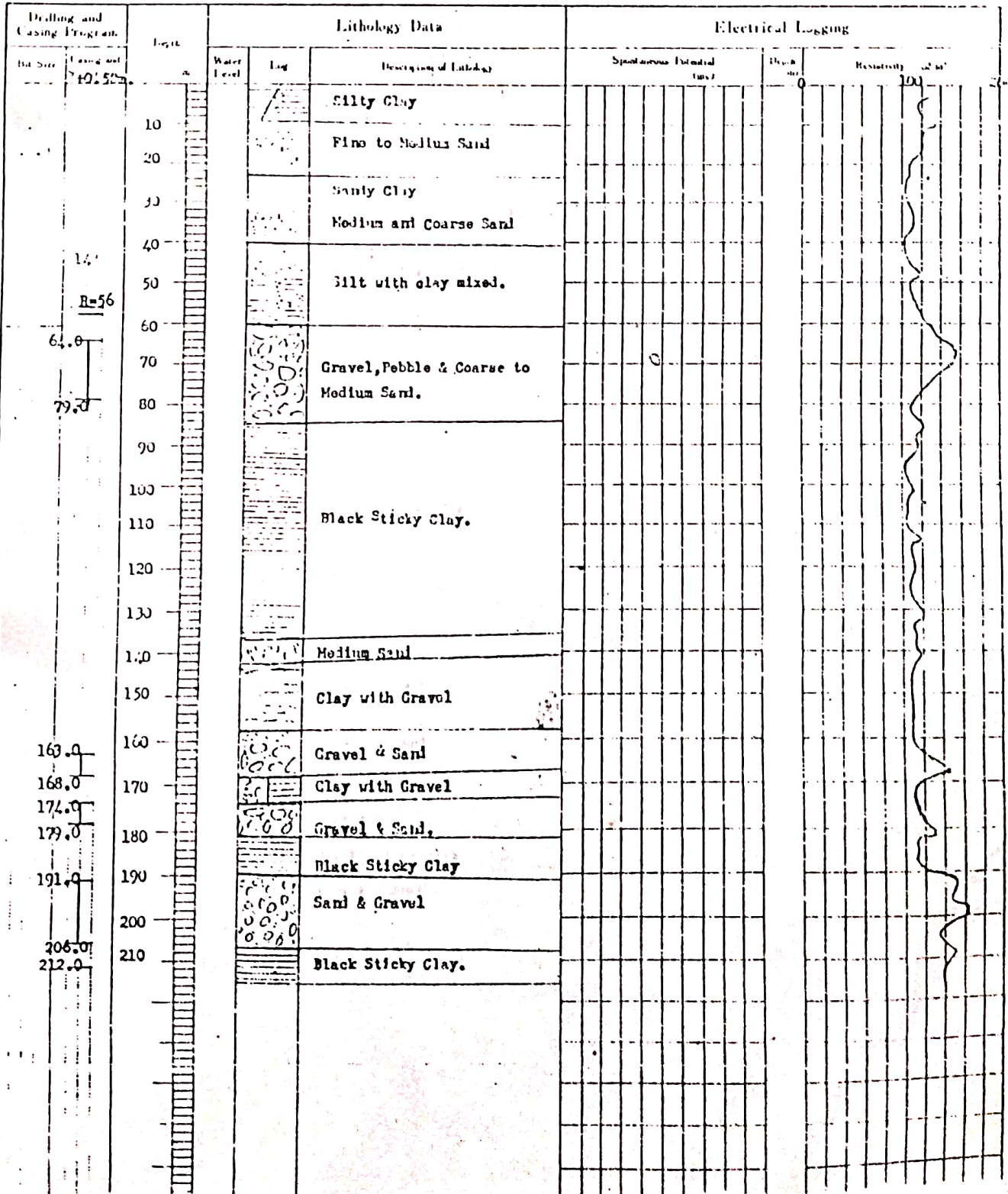


WELL LOG

Well Name: R-29

PROJECT NAME	J I C A Total Ground Water Project (TIATSP)	Size: 14" / 8"
AREA AND LOCATION	RANI BAZER, Dhanusha-District, Janakpur-Zone.	
ELEVATION	m	LATITUDE . LONGITUDE
TOTAL DEPTH	212.00 m	DRILLING RIG 210-501
DRILLING STARTED	16 Feb, 1937	DRILLED BY S. Jha.
WELL COMPLETED	10 March, 1937.	LOGGED BY Nagata.

STATIC WATER LEVEL	-0.2 m	WATER TEMPERATURE
DYNAMIC WATER LEVEL	m	CONDUCTIVITY
PUMPING RATE	180.0 l/min (m ³ /d)	pH
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS



WELL LOG

WELL NUMBER 28

PROJECT NAME T.T.L.T.S.F.		Sheet 14/8	
AREA AND LOCATION 172221A, Dhamaha-District, Jamshyur-Zone.		LATITUDE: _____ LONGITUDE: _____	
ELEVATION _____	TOTAL DEPTH 210.5		
DRILLING STARTED _____		DRILLED BY S.P.M.	
WELL COMPLETED Feb., 1957		LOGGED BY O. Raghava	

STATIC WATER LEVEL _____	WATER TEMPERATURE _____
DYNAMIC WATER LEVEL _____	CONDUCTIVITY _____ $\mu\text{M/cm}$
FLOWING RATE 12.0 l/min (m ³ /d)	pH _____
SPECIFIC CAPACITY _____	TOTAL HARDNESS _____

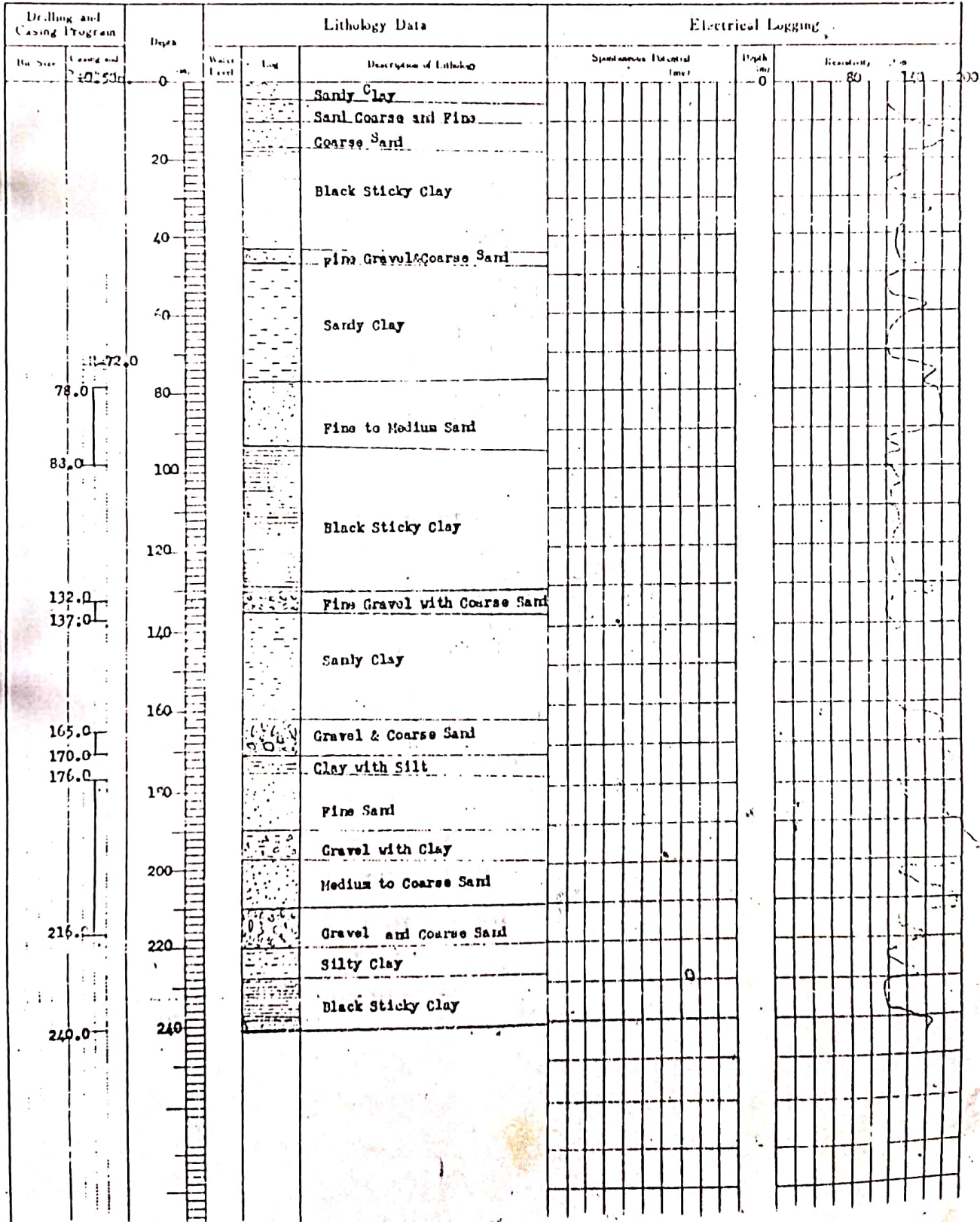
Drilling and Casing Diagram		Depth m	Lithology Data		Electrical Logging		
No	Type		Name	Description of Lithology	Apparent Resistivity	Depth	Remarks
		0		Sandy Clay			
		10		Silt			
		20		Black Sticky Clay			
		30					
		40					
		50		Clay with Gravel			
		55		Gravel and Sand			
		60		Silt			
		66.5					
		70		Black Sticky Clay			
		76.5					
		80		Medium to Fine Sand			
		90		Gravel, Pebble and Sand			
		100					
		110		Yellowish-brown sticky clay			
		120		Silt			
		130		Sandy Clay			
		140		Clay Gravel			
		150		Gravel and Coarse Sand			
		160		Sand & Gravel			
		162.5					
		165		Black Sticky Clay			
		170					
		180		Clay and Gravel			
		190		Gravel & Sand			
		198		Clay & Gravel			
		200		Sand & Gravel			
		210		Clay			
		220		Sand & Gravel			
		230		Black Sticky Clay			

WELL LOG

Well No: N-30

PROJECT NAME <u>JICA Team & T.I.T.S.P.</u>		Size: <u>1 1/8"</u>	
AREA AND LOCATION <u>PARKAULI, Mahottari-District, Janakpur-Zone</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	<u>240.0</u>	DRILLING RIG	<u>YTD 501 R</u>
DRILLING STARTED		DRILLED BY	<u>O. Joubi</u>
WELL COMPLETED	<u>Jan., 1987</u>	LOGGED BY	<u>O. Nagata</u>

STATIC WATER LEVEL	<u>-0.3</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	<u>-60.0</u>	m	CONDUCTIVITY	μS/cm
PUMPING RATE	<u>300.0</u>	l/min (m ³ /d)	PH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

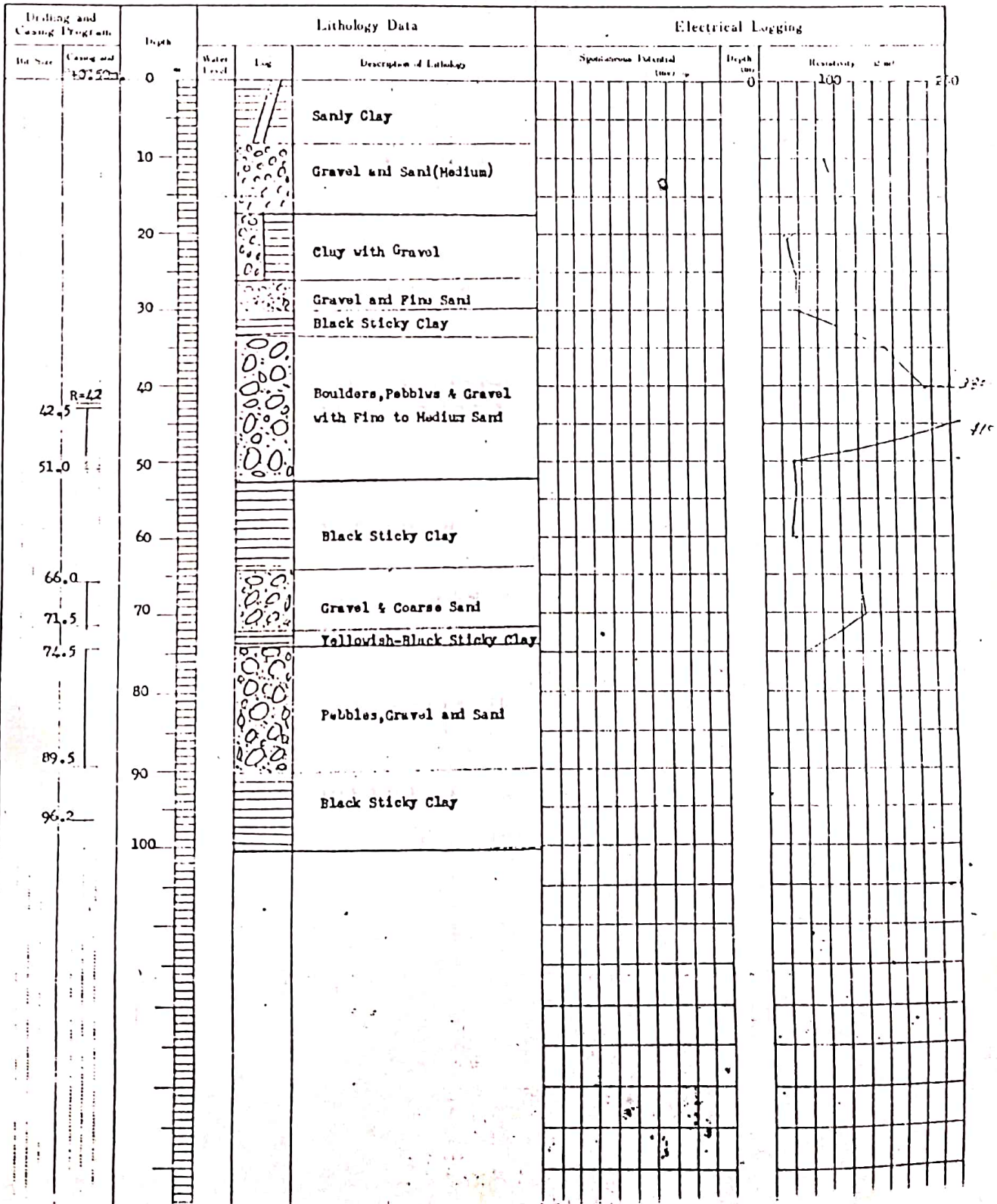


WELL LOG

Well Name: M-31

PROJECT NAME T.I.A.T.S.P.		Size: 14"/8"	
AREA AND LOCATION SASAPUR, Sarlahi-District, Janakpur.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 96.2	m	DRILLING RIG YTD 501 R	
DRILLING STARTED		DRILLED BY D.N. Sen	
WELL COMPLETED Mar., 1977		LOGGED BY P. Mukhiya	

STATIC WATER LEVEL -30.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL -57.0	m	CONDUCTIVITY	μS/cm
PUMPING RATE 1200.0	l. min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d.m	TOTAL HARDNESS	

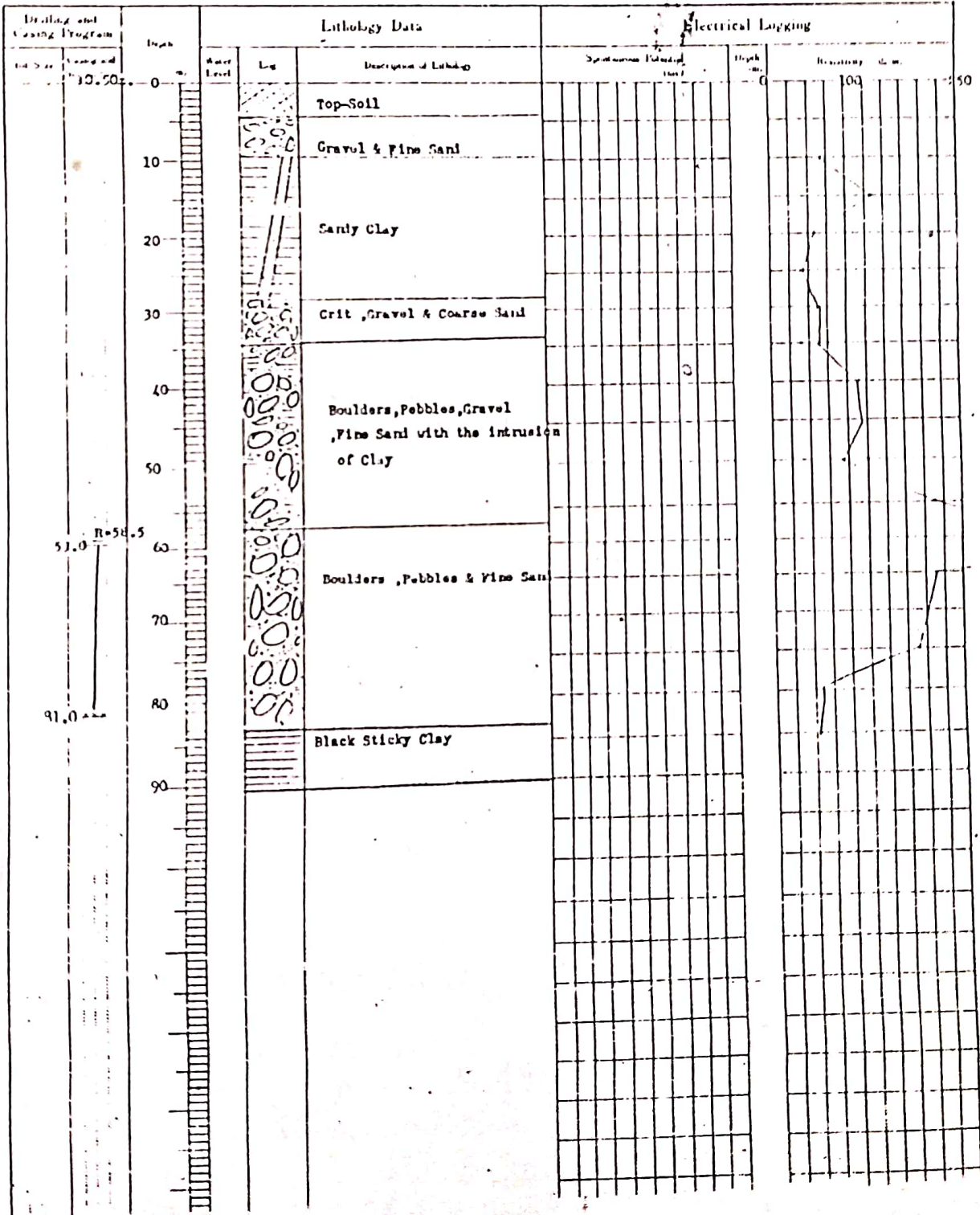


WELL LOG

Well Name: H-33

PROJECT NAME <u>T.I.T.S.P.</u> Size: <u>1 1/2" Ø"</u>	
AREA AND LOCATION <u>PAJAR, Sarlahi-District, Jamkpur-Zona</u>	
ELEVATION _____ m	LATITUDE _____ LONGITUDE _____
TOTAL DEPTH <u>81.0</u> m	DRIILLING RIG <u>YMD 501 R</u>
DRIILLING STARTED _____	DRIILLED BY <u>D.N.Sen.</u>
WELL COMPLETED <u>Apr., 1977</u>	LOGGED BY <u>P. Mukhiya</u>

STATIC WATER LEVEL <u>-33.0</u> m	WATER TEMPERATURE _____ °C
DYNAMIC WATER LEVEL <u>-53.0</u> m	CONDUCTIVITY _____ µS/cm
PUMPING RATE _____ m ³ /d	pH _____
SPECIFIC CAPACITY <u>1900.0</u> m ³ /d m	TOTAL HARDNESS _____

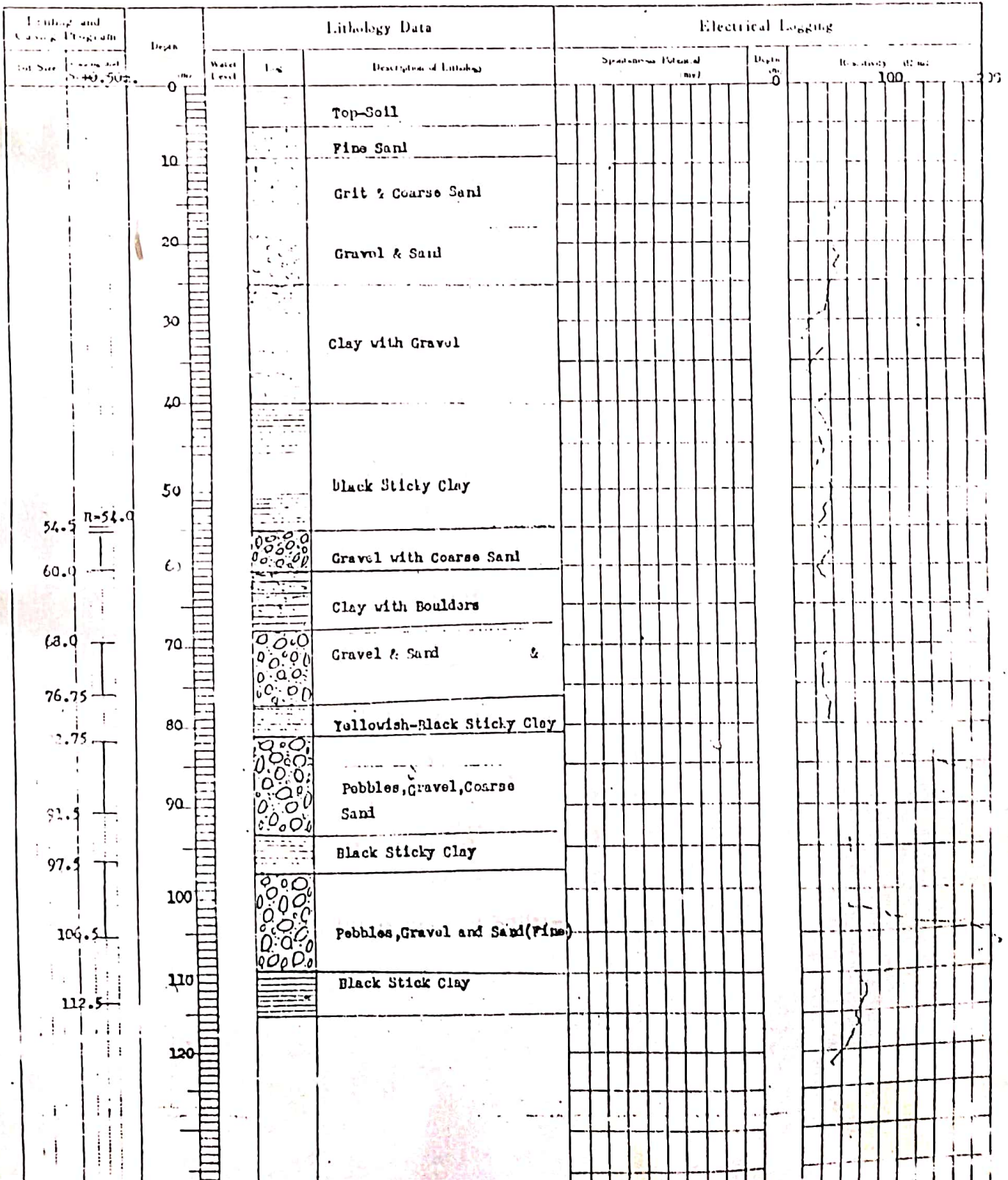


WELL LOG

Well No.: N-27

PROJECT NAME T.I.A.T.S.P.		Size: 1 1/8"	
AREA AND LOCATION DIAKTIQUR, Sarlahi-District, Bangladesh			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	112.5	m	DRILLING RIG TRD 500
DRILLING STARTED		DRILLED BY N. H. M. M. M.	
WELL COMPLETED Apr., 1977		LOGGED BY P. M. M. M.	

STATIC WATER LEVEL	-1.5	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-29.0	m	CONDUCTIVITY	μS/cm
PUMPING RATE	2600.0	l/min (m ³ /d)	PH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



WELL LOG

PROJECT NAME		T.T.A.T.S.P.		Size: 14"/6"	
AREA AND LOCATION		MURUGA, Dharmaba-District, Jambhvir-Zam.			
ELEVATION		m		LATITUDE	
TOTAL DEPTH		210.5		DRILLING NO.	
DRILLING STARTED				DRILLED BY	
WELL COMPLETED		Feb., 1977		LOGGED BY	
				O. Bhatia.	

STATIC WATER LEVEL		0		WATER TEMPERATURE	
DYNAMIC WATER LEVEL		-		CONDUCTIVITY	
FLOWING RATE		12.0 l/min		pH	
SPECIFIC CAPACITY		m ³ /m		TOTAL HARDNESS	

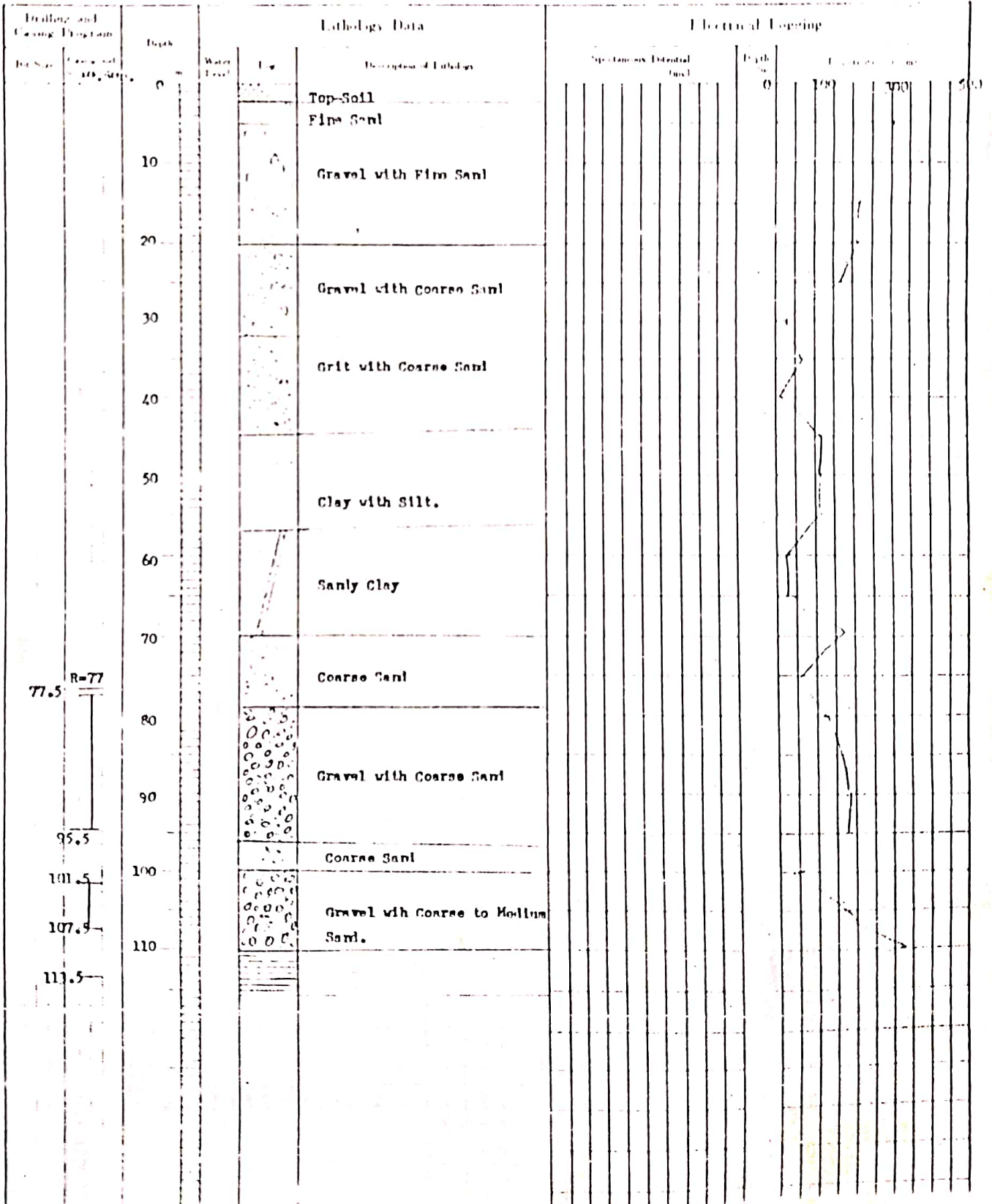
Drilling and Logging Diagram	Depth (m)	Lithology Data	Electrical Logging			
			Apparent Resistivity (ohm m)	True Resistivity (ohm m)	Apparent Resistivity (ohm m)	True Resistivity (ohm m)
	0					
	10	Sticky Clay				
	20	Silt				
	30	Black Sticky Clay				
	40					
	50	Clay with Gravel				
	55	Gravel and Sand				
	60	Silt				
	70					
	76.5	Black Sticky Clay				
	80	Yellow to Fine Sand				
	90	Gravel, Pebble and Sand				
	100					
	110					
	120	Yellowish-brown sticky Clay				
	130	Silt				
	140	Sticky Clay				
	150	Clay Gravel				
	160	Gravel and Coarse Sand				
	168.5	Sand & Gravel				
	170	Black Sticky Clay				
	180	Clay and Gravel				
	190	Gravel & Sand				
	198.5	Clay & Gravel				
	200					
	210	Sand & Gravel				
	210.5	Clay				
	220	Sand & Gravel				
	230	Black Sticky Clay.				

WELL LOG

Well No: W-33

PROJECT NAME	T.I.A.T.S.P.	Size: 14"/8"
AREA AND LOCATION	NAKTAJHJ, Ohanasha-District, Jankpur-Zone	
ELEVATION	m	LATITUDE
LONGITUDE		
TOTAL DEPTH	113.5	m
DRILLING STARTED		DRILLING NO. YRD 501R
DRILLING BY		G. Joshi
WELL COMPLETED	Mar., 1987	LOGGED BY P. Mukhiya

STABLE WATER LEVEL	-40.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-61.0	m	CONDUCTIVITY	µmhos/cm
PUMPING RATE	1800.0	lit/min	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



WELL LOG

Well No: N-35

PROJECT NAME <u>T.I.A.T.S.P.</u>		Size: <u>1 1/2"</u>	
AREA AND LOCATION <u>MAHADRAGAR, Shalchun-Mahendragar Village Panchayat.</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <u>118.0</u>	m	DRILLING RIG <u>YND 501R</u>	
DRILLING STARTED		DRILLED BY <u>Mr. S. Jha</u>	
WELL COMPLETED <u>Apr., 1987</u>		LOGGED BY <u>Mr. P. Mishra</u>	

STATIC WATER LEVEL <u>-15.000</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL <u>-30.000</u>	m	CONDUCTIVITY	μS/cm
PUMPING RATE <u>3000.0</u>	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth		Lithology Data		Electrical Logging		
						Spontaneous Potential (mv)	Resistivity (Ω-cm)	
Bit Size	Casing Screen Size	m	ft	Water Level	Log	Description of Lithology	Depth (m)	Resistivity (Ω-cm)
		0				Top-Soil Fine Sand Gravel & Sand		100
		10						
		20						
		30				Clay & Gravel		
		40				Gravel & Sand		
		50				Clay & Gravel		
		58.0				Yellowish Sticky Clay		
		60				Sandy Clay		
		70				Fine Sand Clay		
		72.5				Gravel, Medium Sand		
		78.0				Clay & Gravel		
		87.5				Gravel & Sand (Fine to Medium)		
		98.5				Pebbles, Gravel, Coarse Sand		
		101.5						
		110						
		113.0				Black Sticky Clay		
		118.0						

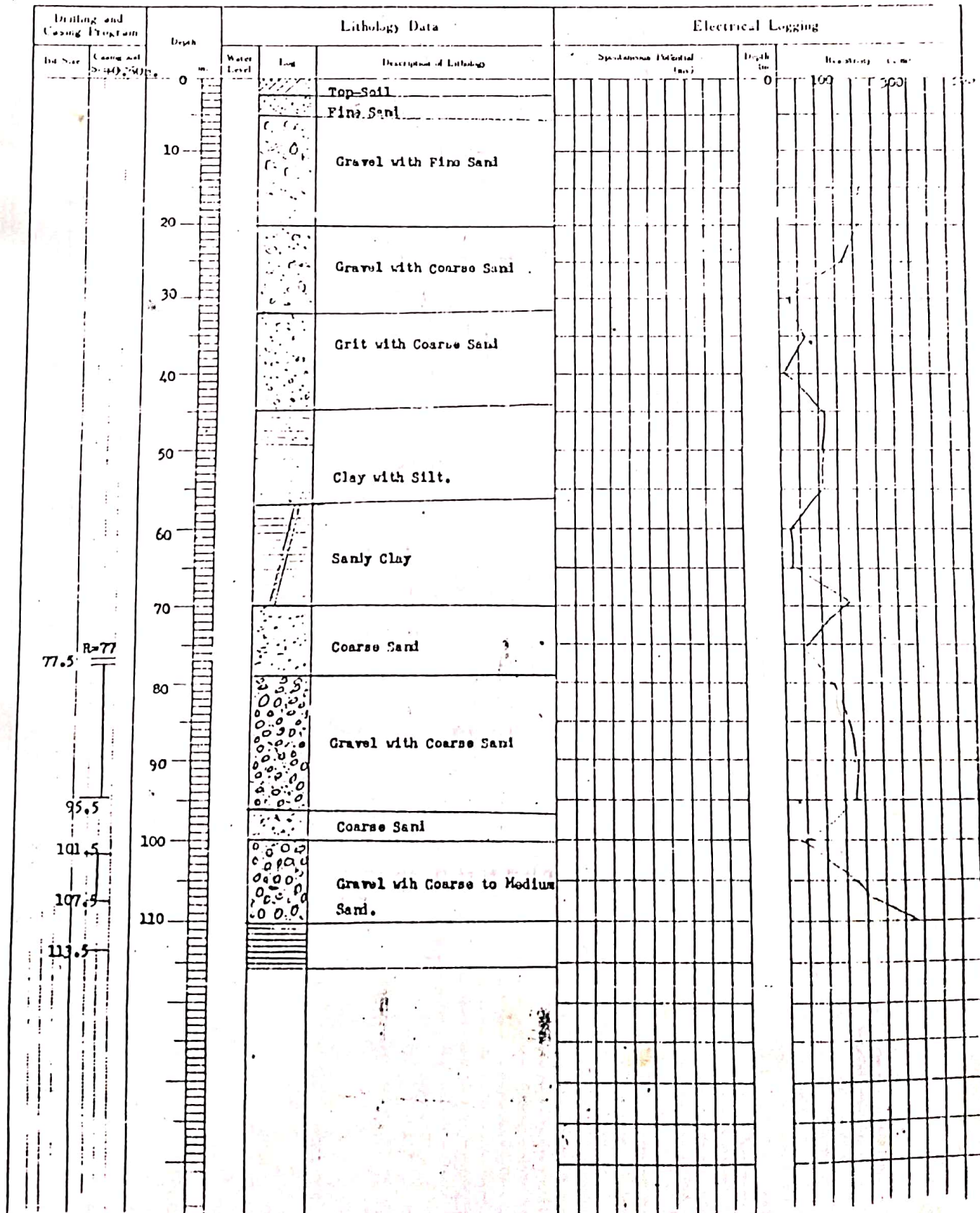
4

WELL LOG

Well No. 1-23

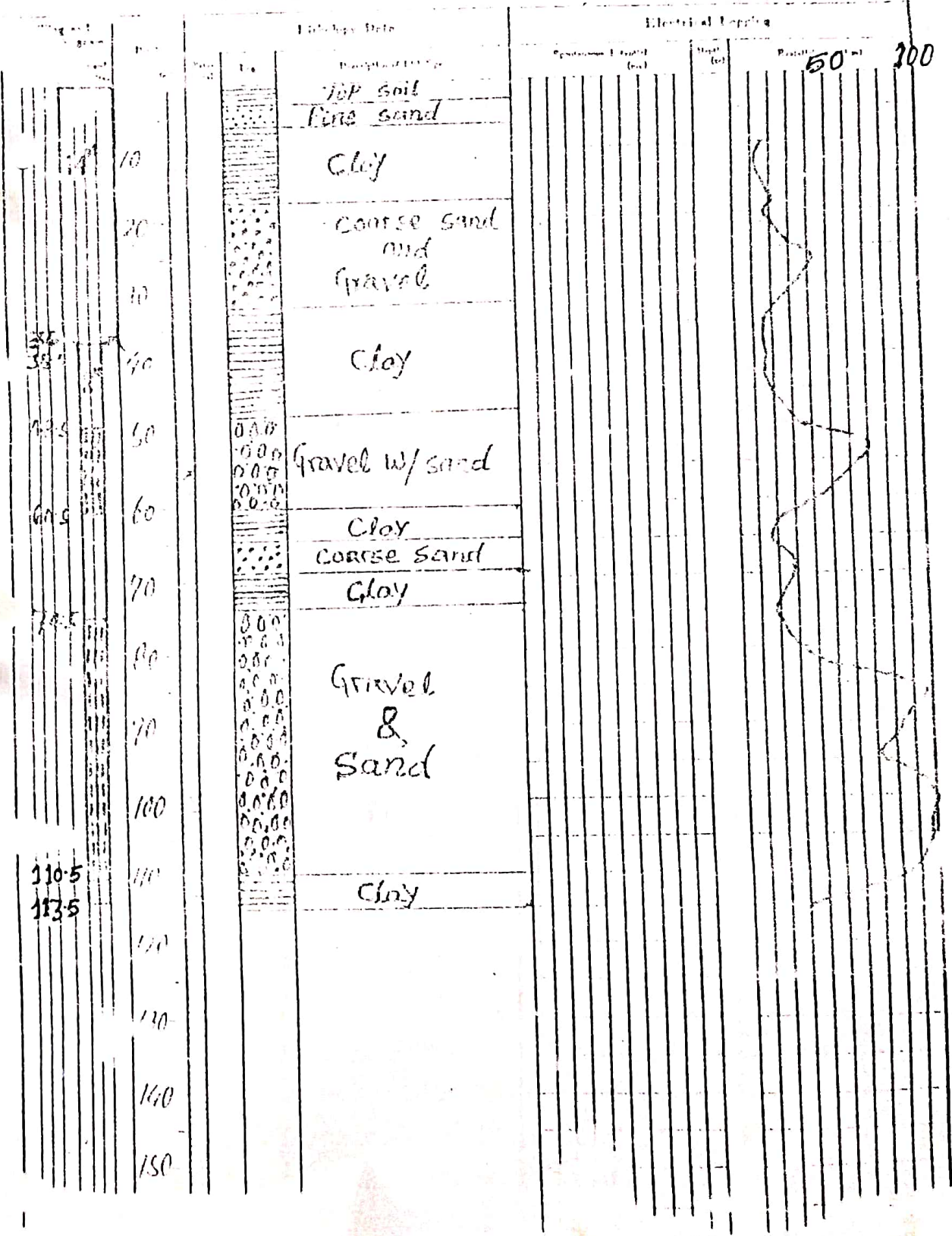
PROJECT NAME <u>T.I.A.T.S.P.</u>		Size: <u>1 1/8"</u>	
AREA AND LOCATION <u>NAKTAHIJ, Dhamaha-District, Jalpaiguri-Zone</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <u>113.5</u>	m	DRIILLING RIG <u>YND 50LR</u>	
DRIILLING STARTED		DRIILLED BY <u>G. Joshi</u>	
WELL COMPLETED <u>Mar., 1987</u>		LOGGED BY <u>P. Mukhiya</u>	

STATIC WATER LEVEL <u>-40.0</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL <u>-61.0</u>	m	CONDUCTIVITY	$\mu S/cm$
PUMPING RATE <u>1800.0</u>	(m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



PROJECT NAME	Agri. Dev. Project	WELL NO.	
AREA AND LOCATION	Majhore Morang	LABORER	
DATE ADDED		LOCALITY	
DEPT. FILE NO.	1135	WELLING TIME	7:30 - 8:00
WELLING STARTED	2050-2-2	DRILLED BY	R.B.K.C.
WELL COMPLETED	2050-3-10	LOGGED BY	R.B.K.C.

STATIC WATER LEVEL	6.5	WATER TEMPERATURE	
PUMPING WATER LEVEL	22.0	CONDUCTIVITY	
WELL DEPTH	3600	PH	
WELL CAPACITY		TOTAL HARDNESS	



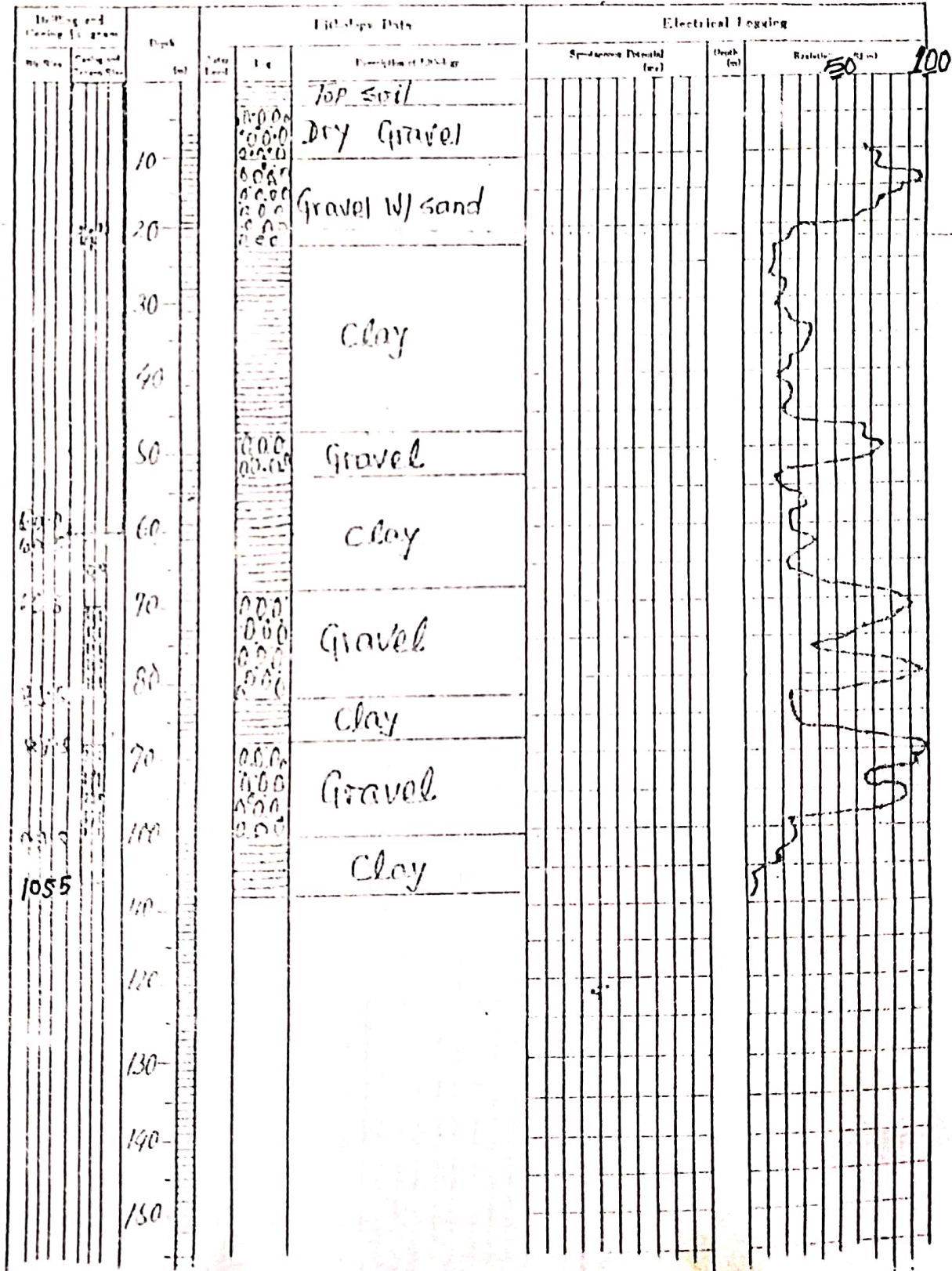
110.5
113.5

WELL LOG

Data No. _____

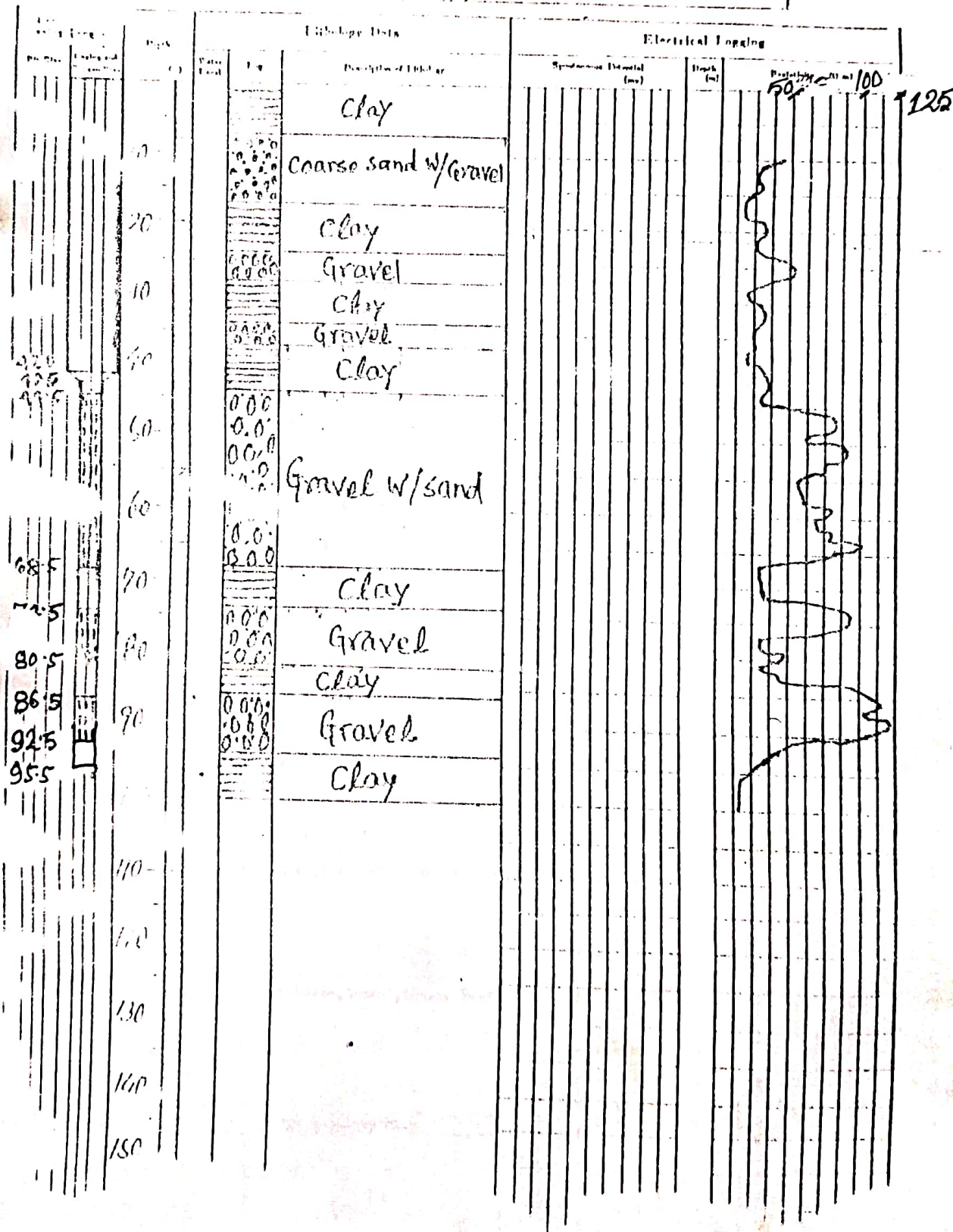
PROJECT NAME	Agri. dev. Project	WELL NO.	
AREA AND LOCATION	Lalbandi-3 Sorlahi		
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	105.5	DRILLING RIG	TRD 500
DRILLING STARTED	2050-12-23	DRILLED BY	R.B.K.C
WELL COMPLETED	2051-2-28	LOGGED BY	R.B.K.C

STATIC WATER LEVEL	46.0	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	56.0	CONDUCTIVITY	μS/cm
DRILLING RATE	25 l/sec	pH	
SPECIFIC CAPACITY		TOTAL HARDNESS	



PROJECT NAME	Agri dev Project		WELL NO.	
AREA AND LOCATION	Netragan-1 Sarlahi			
ELEVATION		LATITUDE	LONGITUDE	
W. DEPTH	95.5	COLLECTOR DIG	TRD 500	
WIRE STARTED	2050-3-2	DRILLED BY	R. B. K. C.	
COMPLETED	2050-3-31	LOGGED BY	R. B. K. C.	

WATER TEMPERATURE	22.0	WATER TEMPERATURE	
CONDUCTIVITY	20.0	CONDUCTIVITY	
PH		PH	
TOTAL HARDNESS		TOTAL HARDNESS	

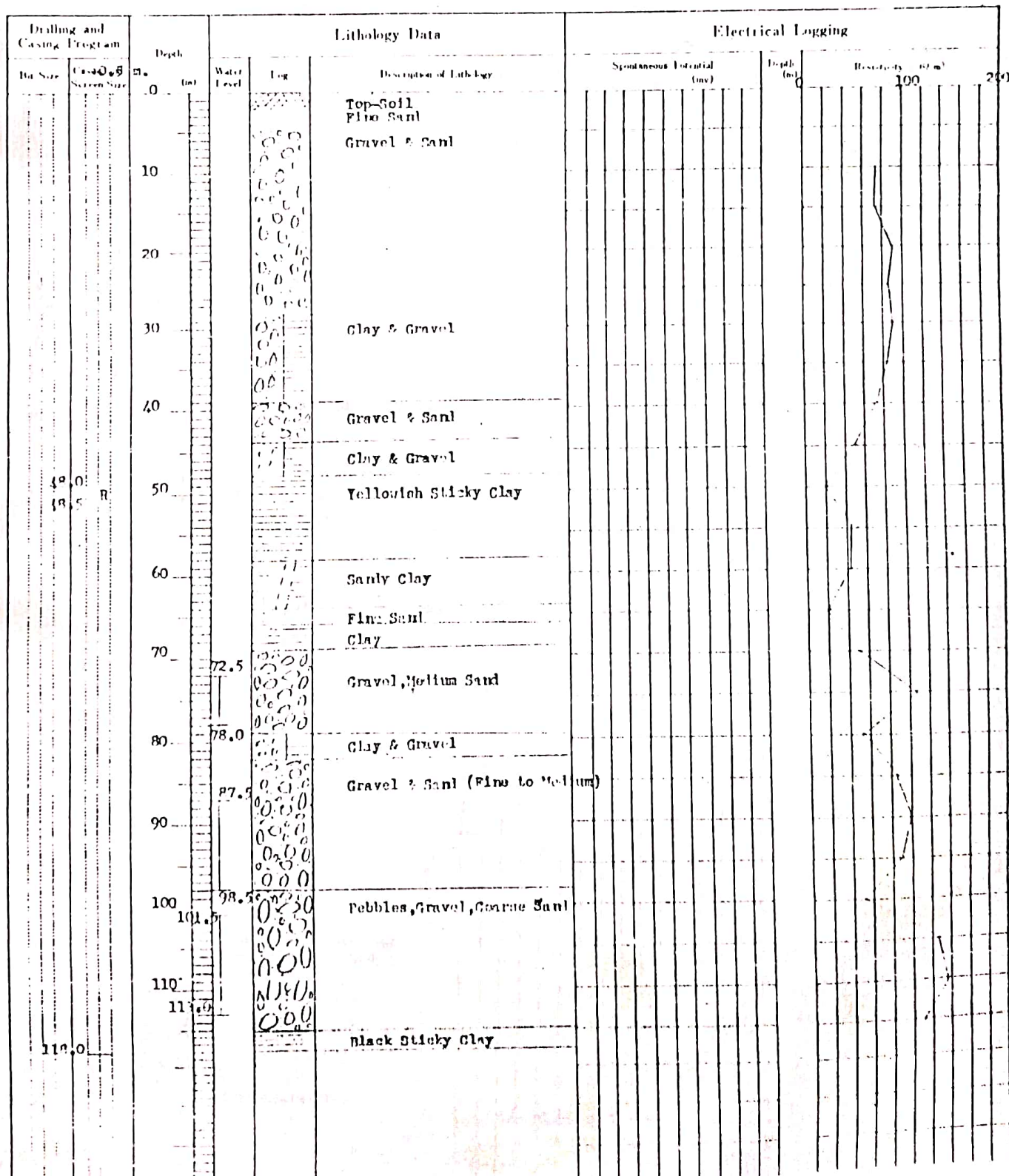


WELL LOG

Well Name: B-35

PROJECT NAME T.I.A.T.S.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION HAFEDRABAGAR, Shakhanu Bahadradapur Village Pambayat.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	118.0	DRILLING RIG	vnp 501"R"
DRILLING STARTED		DRILLED BY Mr. S. Jha	
WELL COMPLETED Apr., 1987		LOGGED BY Mr. P. BHEMVA	

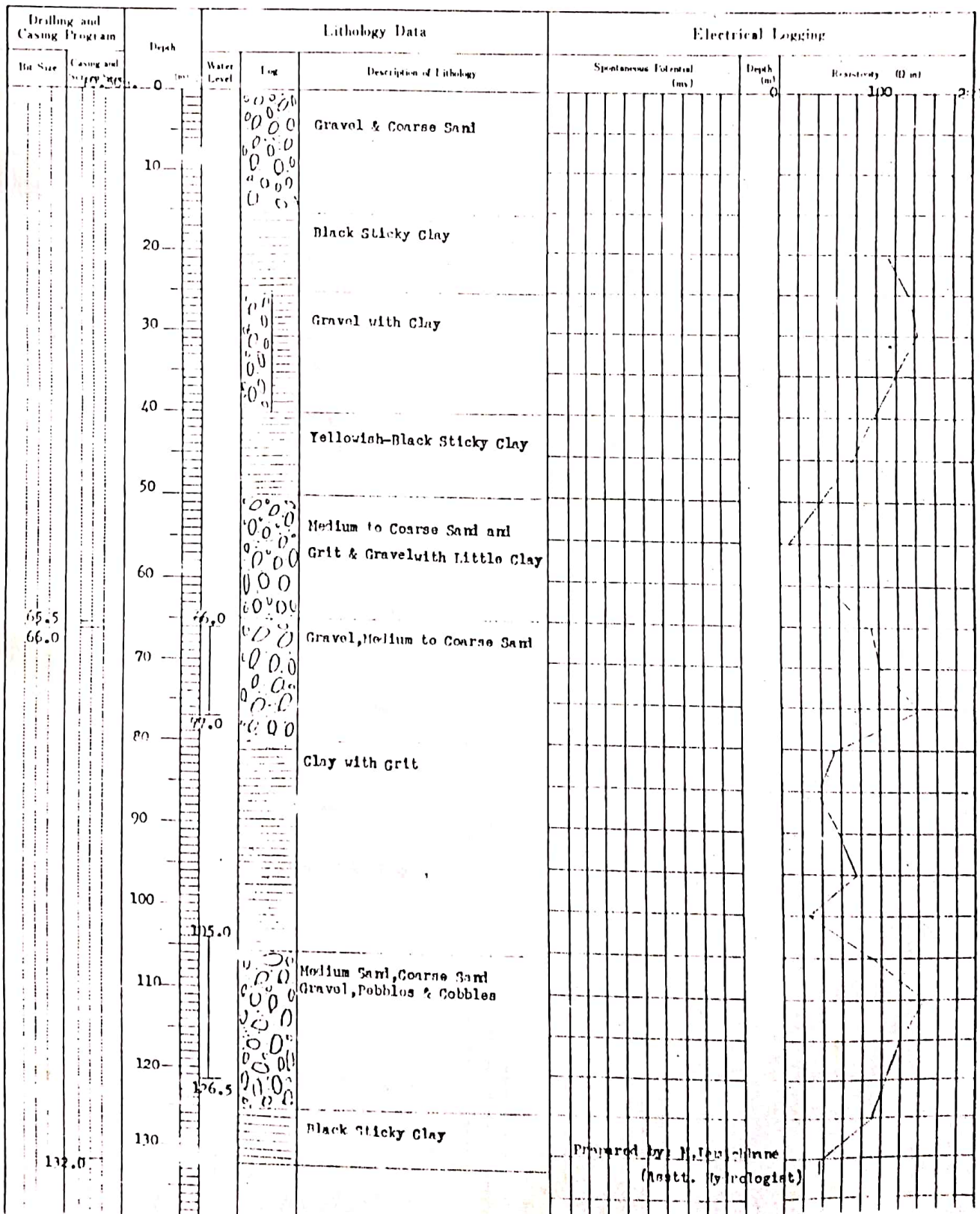
STATIC WATER LEVEL	-15.000	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-30.000	m	CONDUCTIVITY	µS/cm
PUMPING RATE	3000.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m		TOTAL HARDNESS	



WELL LOG

PROJECT NAME <u>J.I.D.P.</u>		Size: <u>1 1/2" / 8"</u>	
AREA AND LOCATION <u>MALTOLE, Hampurpur Village Panchayat</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <u>132.0</u>	m	DRILLING RIG <u>YRD 501 "R"</u>	
DRILLING STARTED		DRILLED BY <u>Mr. S. Jha</u>	
WELL COMPLETED <u>Mar., 1956</u>		LOGGED BY <u>Mr. M. Janichane</u>	

STATIC WATER LEVEL <u>-25.0</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	μS/cm
PUMPING RATE <u>600.0</u>	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d·m	TOTAL HARDNESS	

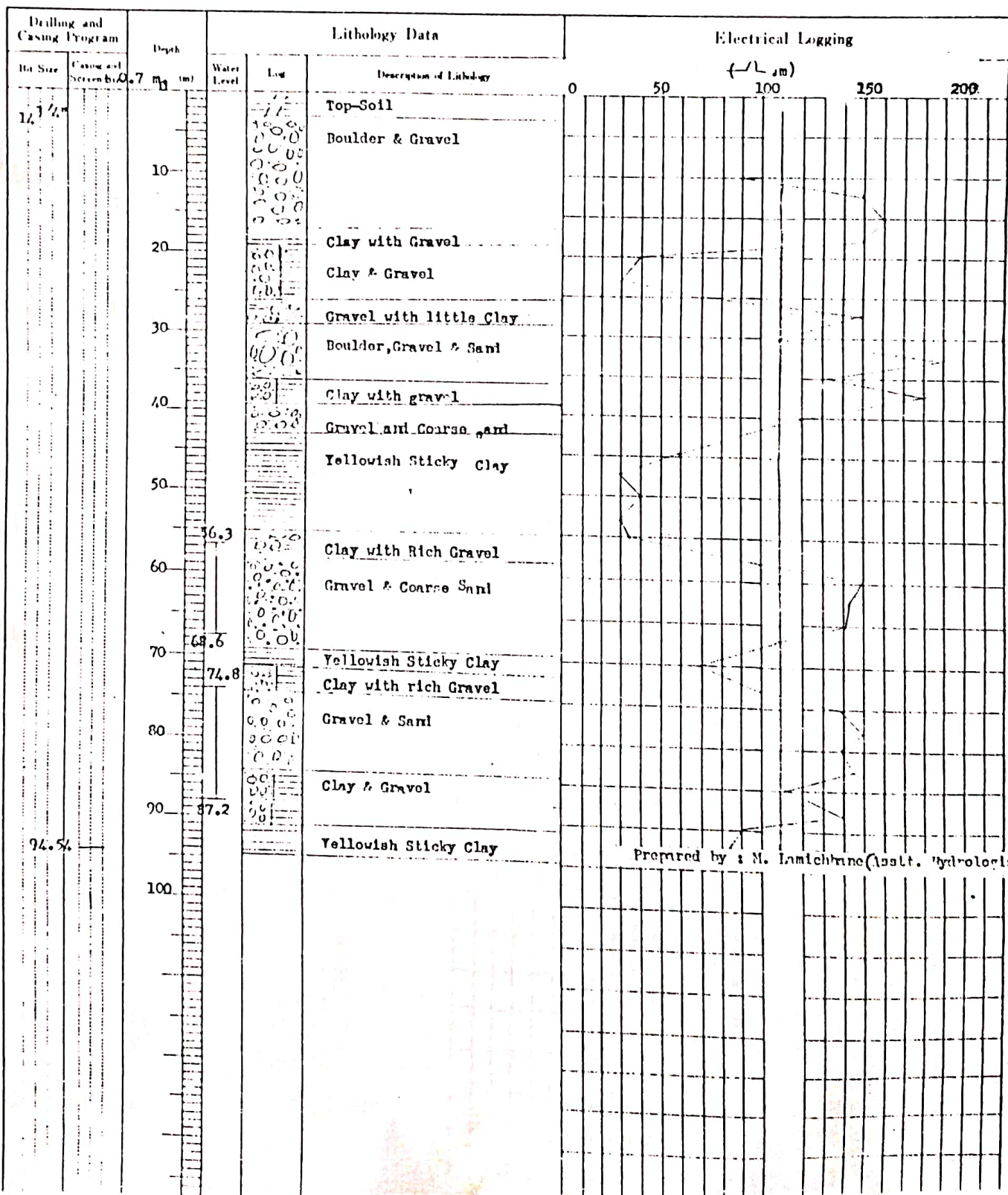


WELL LOG

Well Name : J-20

PROJECT NAME J.A.D.P.		Size: 8"/8"	
AREA AND LOCATION SAGARIATH FOREST DEVELOPMENT PROJECT, PATILET, Mahottari district.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 94.54	m	DRILLING RIG TBM 72" A"	
DRILLING STARTED		DRILLED BY Mr. P. Mukhiya & D.M. Sen	
WELL COMPLETED Aug., 1985		LOGGED BY Mr. P. Mukhiya	

STATIC WATER LEVEL -42.30	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL -60.00	m	CONDUCTIVITY	μS/cm
PUMPING RATE 1500.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



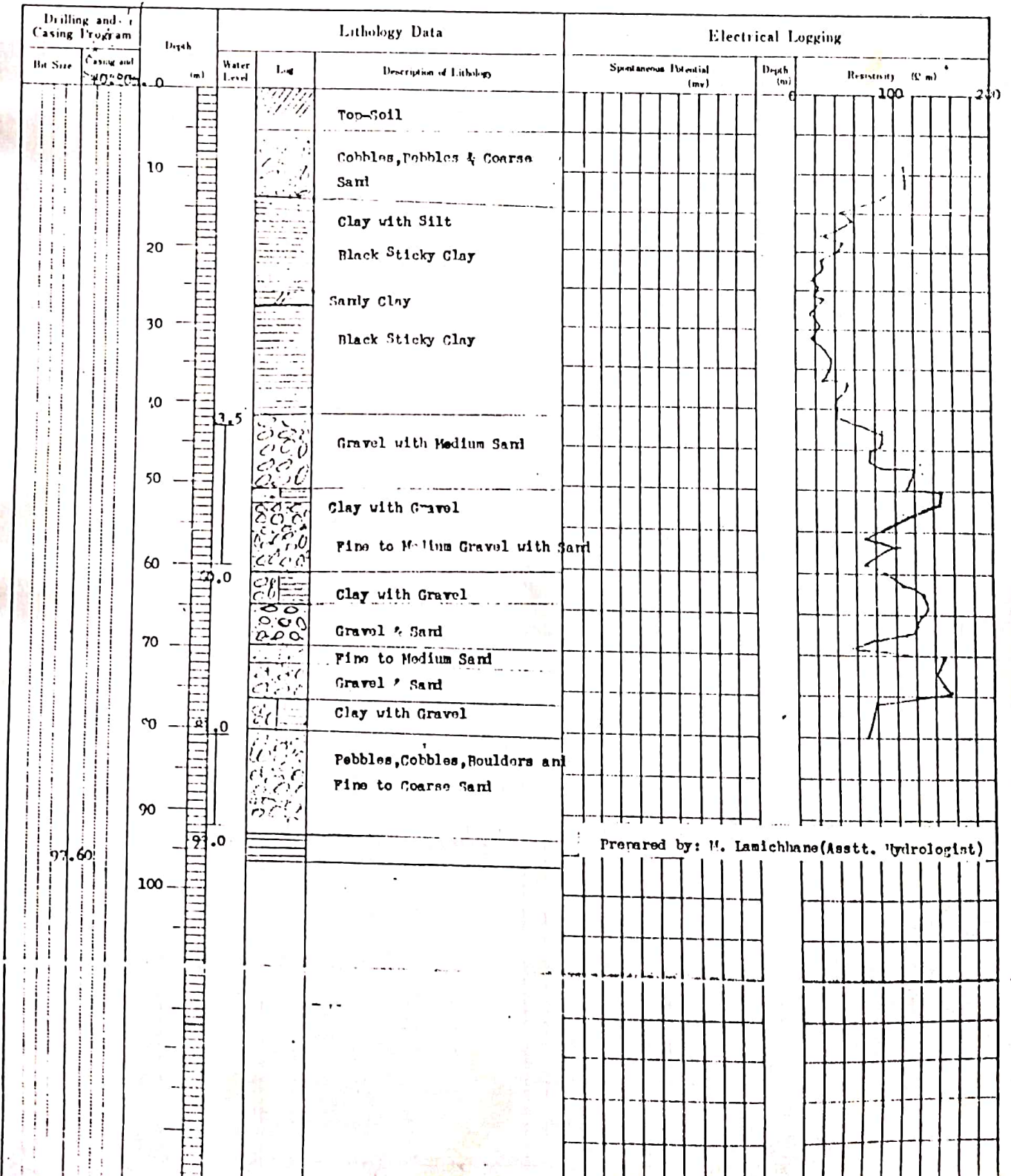
Prepared by : **M. Lamichhane (Asstt. Hydrologist)**

WELL LOG

Well Name: J-03

PROJECT NAME J.A.D.P.		Size: 12"/8"	
AREA AND LOCATION SAGAREATH FOREST DEVELOPMENT PROJECT, Sagarmth, Nepal			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	97.60 m	DRILLING RIG	TM 72" A
DRILLING STARTED		DRILLED BY	Mr. S. Lamichhane & P. Mishra
WELL COMPLETED	15 Feb, 1972	LOGGED BY	Mr. S. Lamichhane

STATIC WATER LEVEL	-11,000 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-15,000 m	CONDUCTIVITY	μS/cm
PUMPING RATE	1500.0 l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



WELL LOG

N-49

PROJECT NAME TJATSP		WELL NO.	
AREA AND LOCATION Rom Nagar, Maho Hari - District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	96.25 feet	DRILLING RIG	TRD-500
DRILLING STARTED		DRILLED BY	Sudesh Ram
WELL COMPLETED	MARCH, 1988	LOGGED BY	M. Kamichane

STATIC WATER LEVEL	-28.00 feet ^M	WATER TEMPERATURE	81.0
DYNAMIC WATER LEVEL	-31.00 feet ^M	CONDUCTIVITY	207.5
PUMPING RATE	42.0 l/min (1.4 m ³ /d)	pH	7.2
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (feet)	Lithology Data			Electrical Logging		
Drill Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)
7.5"		0			clay with silt			
		10			Pebbles, c. sand			
		20			Clay (yellowish black) with gravel			
		30			yellowish sticky clay			
		40			clay with gravel			
		50			Black sticky clay			
		60	60		Pebbles, gravel			
		70	71		very little clay			
		74	74		Black sticky clay			
		80			Boulders, pebbles			
		90			Gravel & c. sand			
		96.25	96.25		Yellowish sticky clay			

58.5
64.0

58.5
64.0

Sandy
3.25 x 5

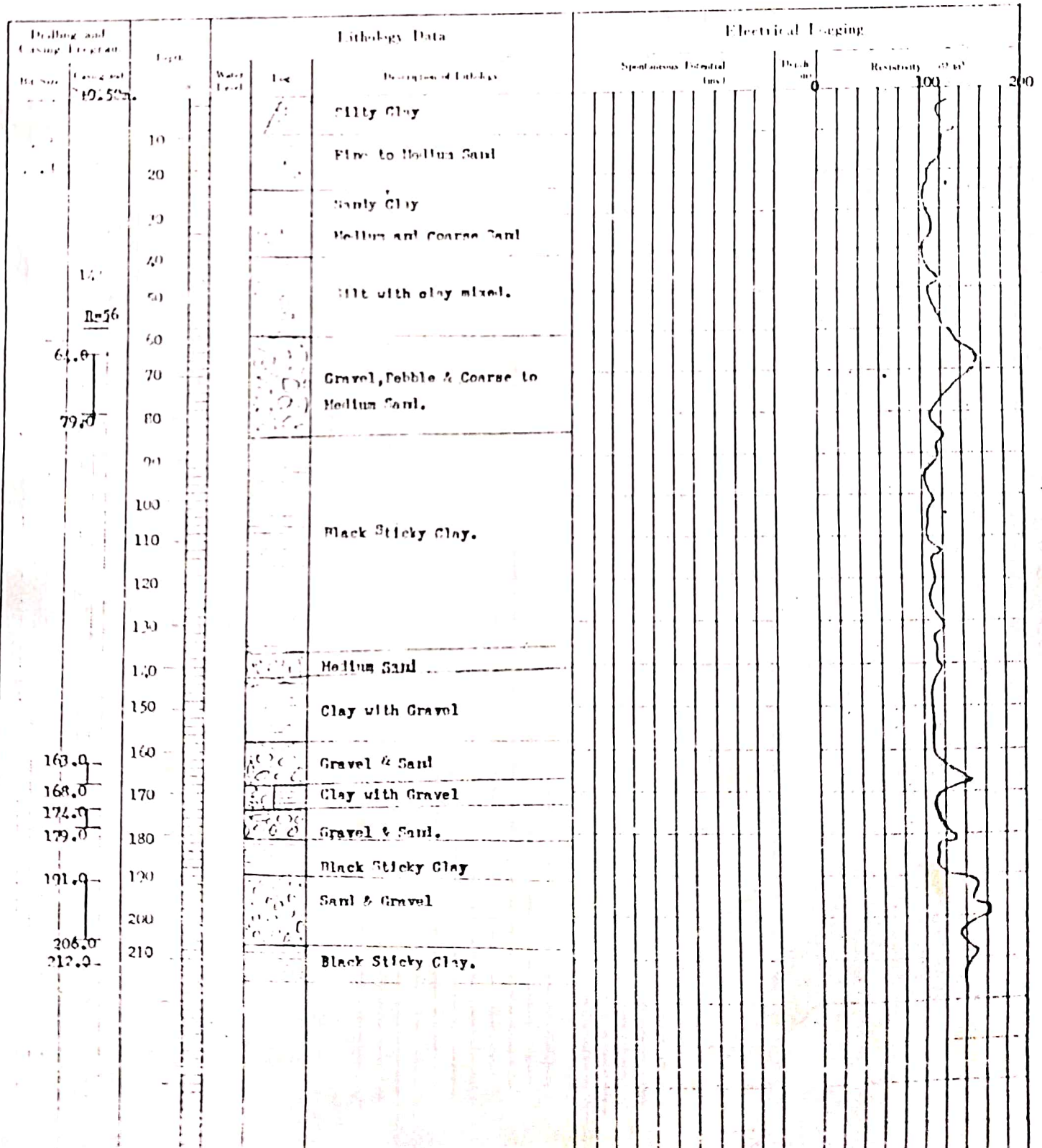
96.25

WELL LOG

Well Name: H-29

PROJECT NAME: JICA Rural Growth Water Project (PACOP)		Size: 1 1/2" / 8"
AREA AND LOCATION: RANI BAZAR, Dhamsha-District, Jharkhand-Zone.		
ELEVATION	m	LATITUDE
LONGITUDE		
DEPTH	m	DRILLING RIG: Y60-501
DRILLING STARTED: 16 Feb, 1977		DRILLED BY: S. Jha.
WELL COMPLETED: 10 March, 1977.		LOGGED BY: Bagata.

STATIC WATER LEVEL: -0.2 m	m	WATER TEMPERATURE
DYNAMIC WATER LEVEL	m	CONDUCTIVITY
PUMPING RATE: 180.0	m ³ /d	pH
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS



PROJECT NAME	Agri. Dev. Project	WELL NO.	
AREA AND LOCATION	Ramnagar-1 Maholari	LATITUDE	LONGITUDE
ELEVATION	m	DRIILLING RIG	TRD 500
TOTAL DEPTH	114.5 m	DRIILED BY	R. B. K. C
BUILDING STARTED	2052-8-6	LOGGED BY	Ran Bdr K.C
WELL COMPLETED	2052-9-6		

STATIC WATER LEVEL	19.0 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	24.0 m	CONDUCTIVITY	µS/cm
LOADING RATE	2400 l/min (m ³ /d)	pH	
SEISMIC CAPACITY	m ² /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Water Level	Log	Lithology Data		Electrical Logging	
Dr. Size (mm)	Casing and Screen Size				Description of Lithology	Resistivity Interval (ohm)	Depth (m)	Resistivity Interval (ohm)
		0-10		Clay				
		10-20		Gravel				
		20-30						
		30-40		Clay				
		40-50						
		50-60		Clay & Gravel				
		60-70		Gravel				
		70-80		Gravel & Clay				
		80-90						
		90-100		Gravel & Sand				
		100-110						
		110-120		Clay				

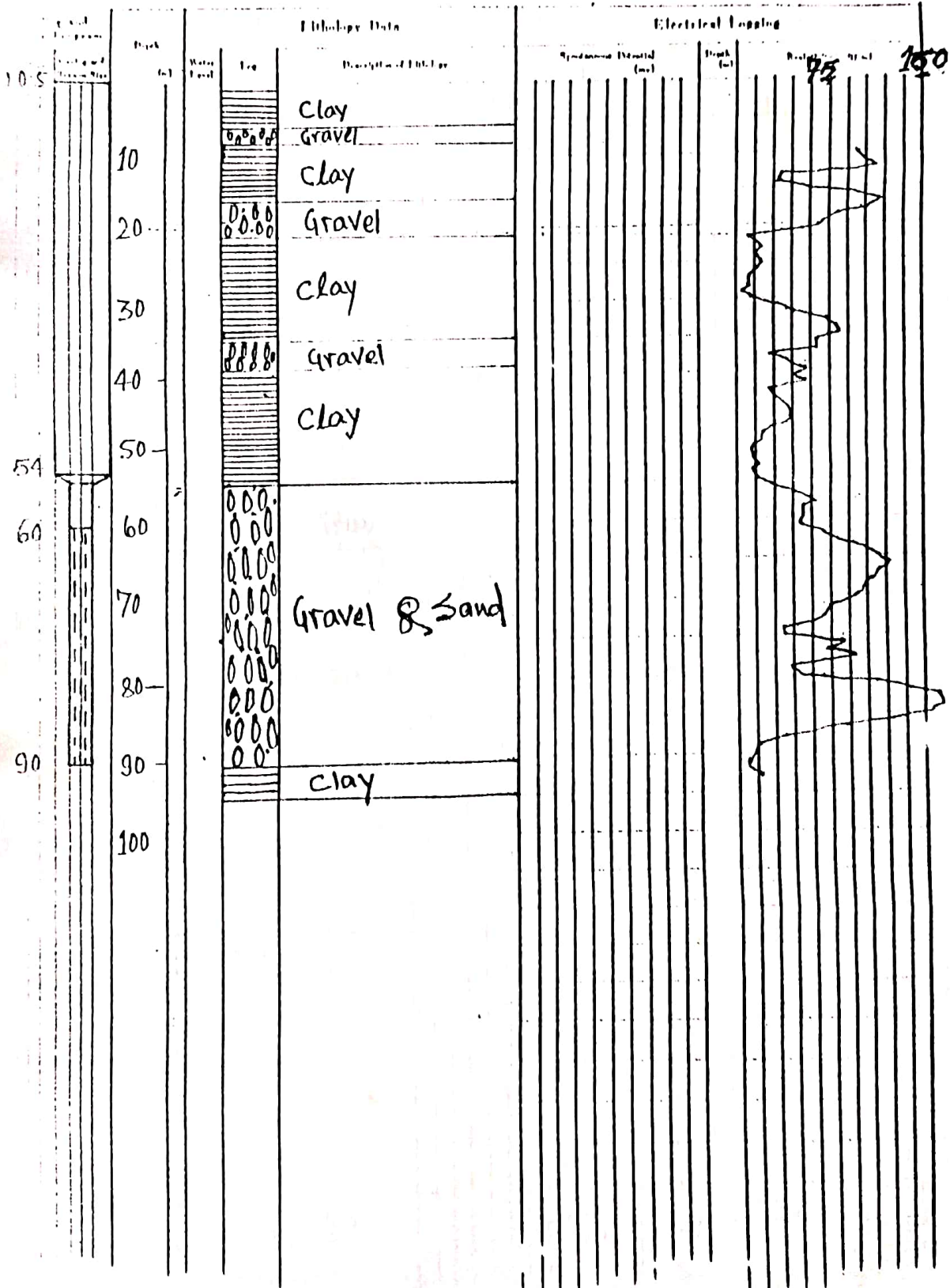
150

2052-31
2052-31

Agriculture Development Project, Jambhaya Taluk
WELL LOG Data No.

PROJECT NAME	Agriculture Project	WELL NO.	
AREA AND LOCATION	Ramnagar - 6 Mahotari		
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	90.5	DRILLING NO.	TRD 500
DRILLING STARTED	2052-9-7	DRILLED BY	R.B.K.C
WELL COMPLETED	2052-10-4	LOGGED BY	Ran. Bch. K.C.

STATIC WATER LEVEL	23.0	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	30.0	CONDUCTIVITY	µS/cm
PUMPING RATE	1800 l/min	pH	
SPECIFIC CAPACITY	l/min/m	TOTAL HARDNESS	

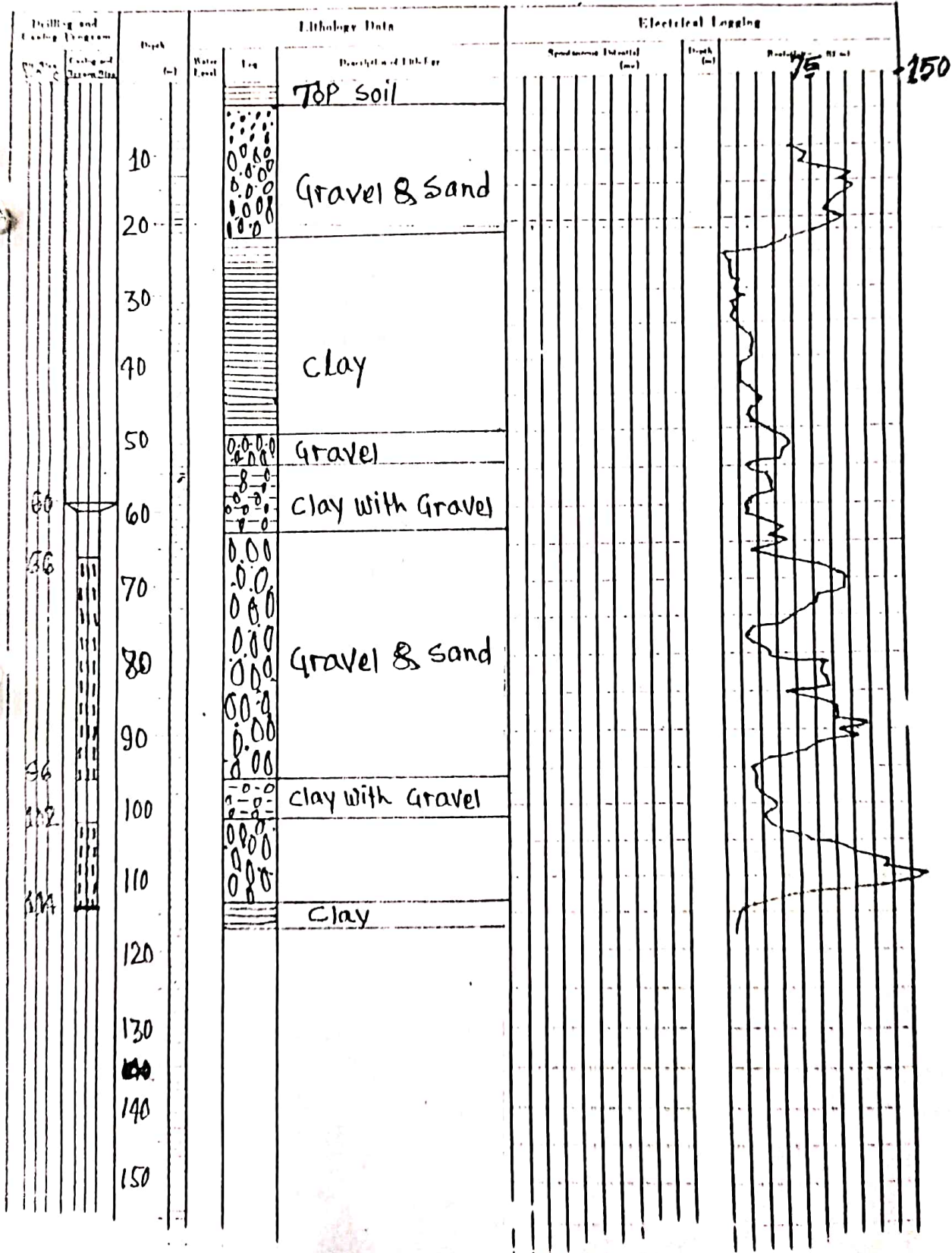


Drawn by
R.B.K.C

WELL LOG

PROJECT NAME: <u>Agri. Dev. Project</u>		WELL NO.	
AREA AND LOCATION: <u>Kannagar - 7 Mahotari</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH: <u>114.5</u>	m	DRILLING RIG: <u>TRD 500</u>	
DRILLING STARTED: <u>2052-7-1</u>		DRILLED BY: <u>R.B.K.G.</u>	
WELL COMPLETED: <u>2052-8-5</u>		LOGGED BY: <u>Ran. Bdr K.C.</u>	

STATIC WATER LEVEL: <u>41.0</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL: <u>41.5</u>	m	CONDUCTIVITY	µS/cm
FLOWING RATE: <u>1800</u>	l/min (m ³ /d)	pH	
ELECTRIC CAPACITY	m ² /d/m	TOTAL HARDNESS	



Drawn By
R.B.K.G.

WELL LOG

Data No. J-32

PROJECT NAME: <i>Gov. Project Lunken</i>		WELL NO:	
AREA AND LOCATION: <i>Police Training Center, Khatmandu</i>			
ELEVATION: <i>M</i>	LATITUDE:		LONGITUDE:
TOTAL DEPTH: <i>222</i>	DRIED: <i>72</i>		
DRILLING STARTED: <i>Nov. 16, 1959</i>		DRIED BY: <i>M. M.</i>	
WELL COMPLETED: <i>10.10.1959</i>		LOGGED BY: <i>M. M.</i>	

STATIC WATER LEVEL: <i>M</i>	WATER TEMPERATURE: <i>°C</i>
DYNAMIC WATER LEVEL: <i>M</i>	CONDUCTIVITY: <i>μS/cm</i>
PUMPING RATE: <i>m³/d</i>	
SPECIFIC CAPACITY: <i>m³/d/m</i>	TOTAL HEAD LOSS:

Through Out = 6"

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging		
Bit Size	Casing and Screen Size		Well Level	Log	Self-Potential (mv)	Depth (m)	Resistivity (Ωm)
<i>12 1/8"</i>	<i>6"</i>	0					
		10		Thin soil			
		20		Clay Black			
		30		Fine to medium Sand			
		40		Silty Clay			
		50		Medium to Fine Sand			
		60					
		70					
		80		Clay Black			
		90					
		100					
		110					
		120		Sand and Gravel			
		130					
		140		Clay Black			
		150		Sticky Clay			
		<i>157.5</i>		Coarse Sand and Gravel			
		<i>176.0</i>					
		<i>182.0</i>		Fine Sand			
				Sand and Gravel			
		<i>207.0</i>		Silty Clay			
<i>215.0</i>		Sticky Clay					

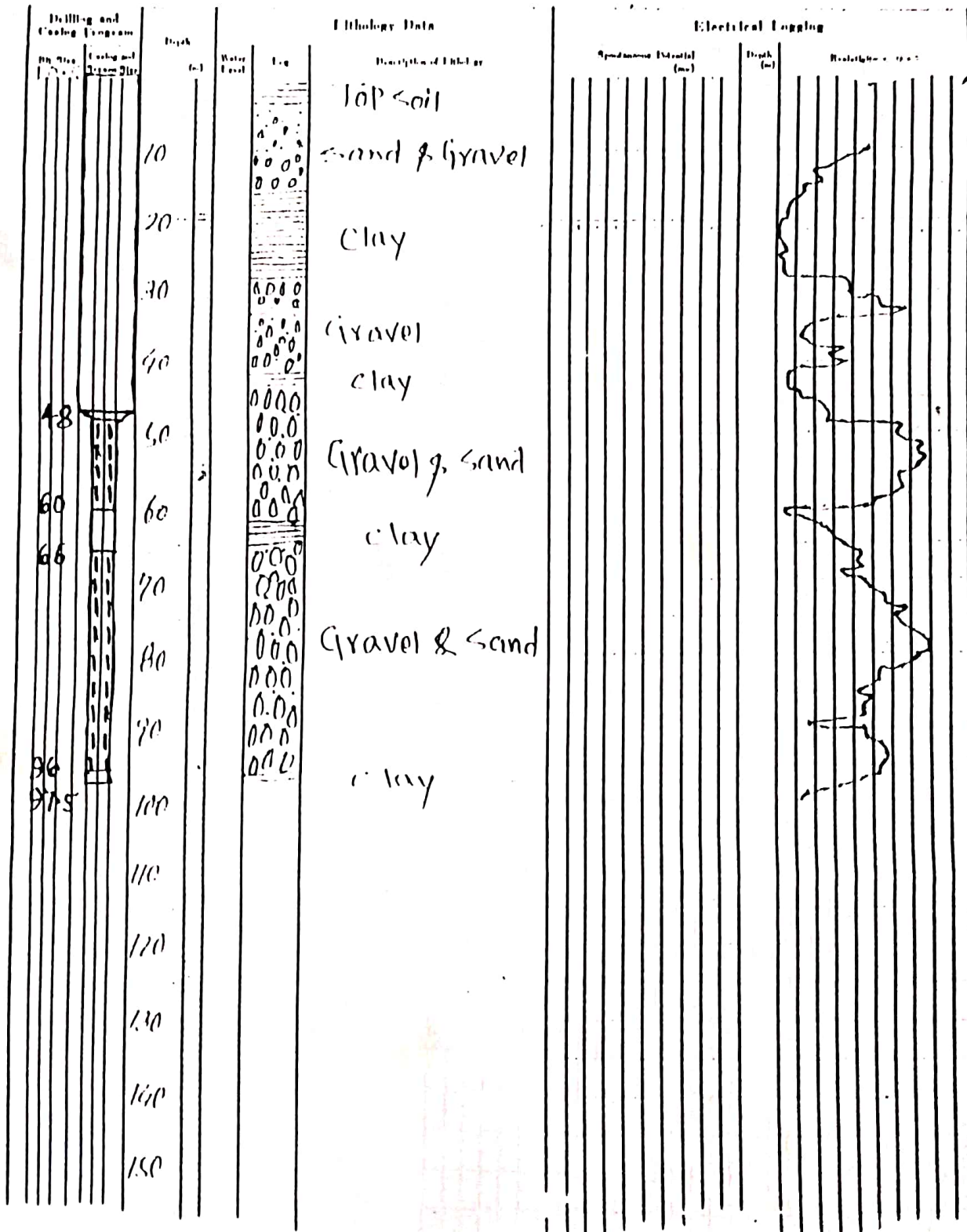
Screen position

152.5 - 176.0

182.0 - 207.0

PROJECT NAME	Agri. Dev. Project	WELL NO.	
AREA AND LOCATION	Ranigung	Sarlahi	
ELEVATION		LATITUDE	
TOTAL DEPTH	98.0	DRILED TO	JRD 500
DRILING STARTED	2052-2-28	DRILED BY	Ran Bar K.C
WELL COMPLETED	2052-4-10	LOGGED BY	R.B.K.C

STATIC WATER LEVEL	43.0	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	47.0 (Air Comp)	CONDUCTIVITY	
PUMPING RATE	25.0 l/sec	pH	
SPECIFIC CAPACITY		TOTAL HARDNESS	



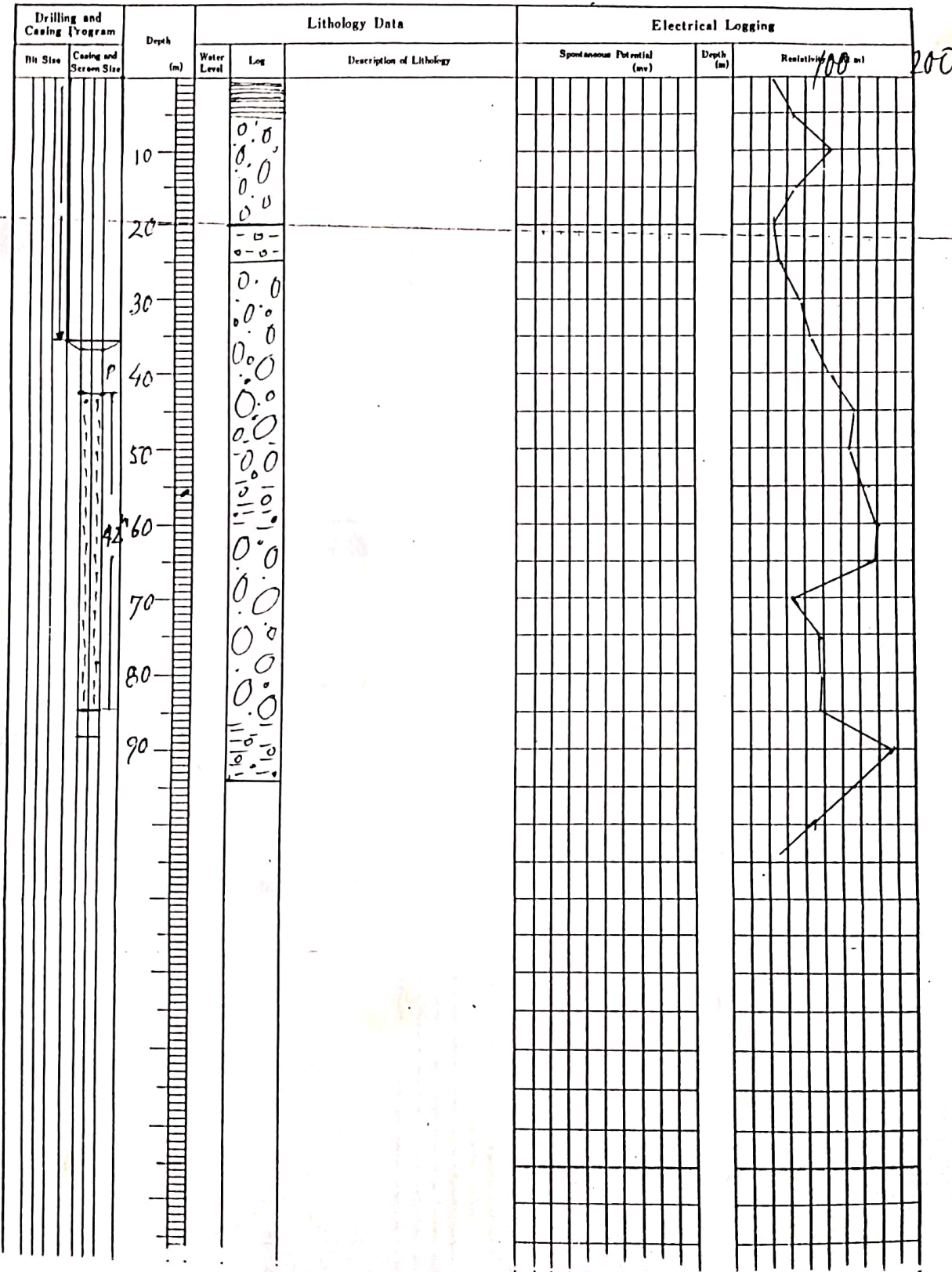
Drawn By
R.B.K.C

WELL LOG

Data No. _____

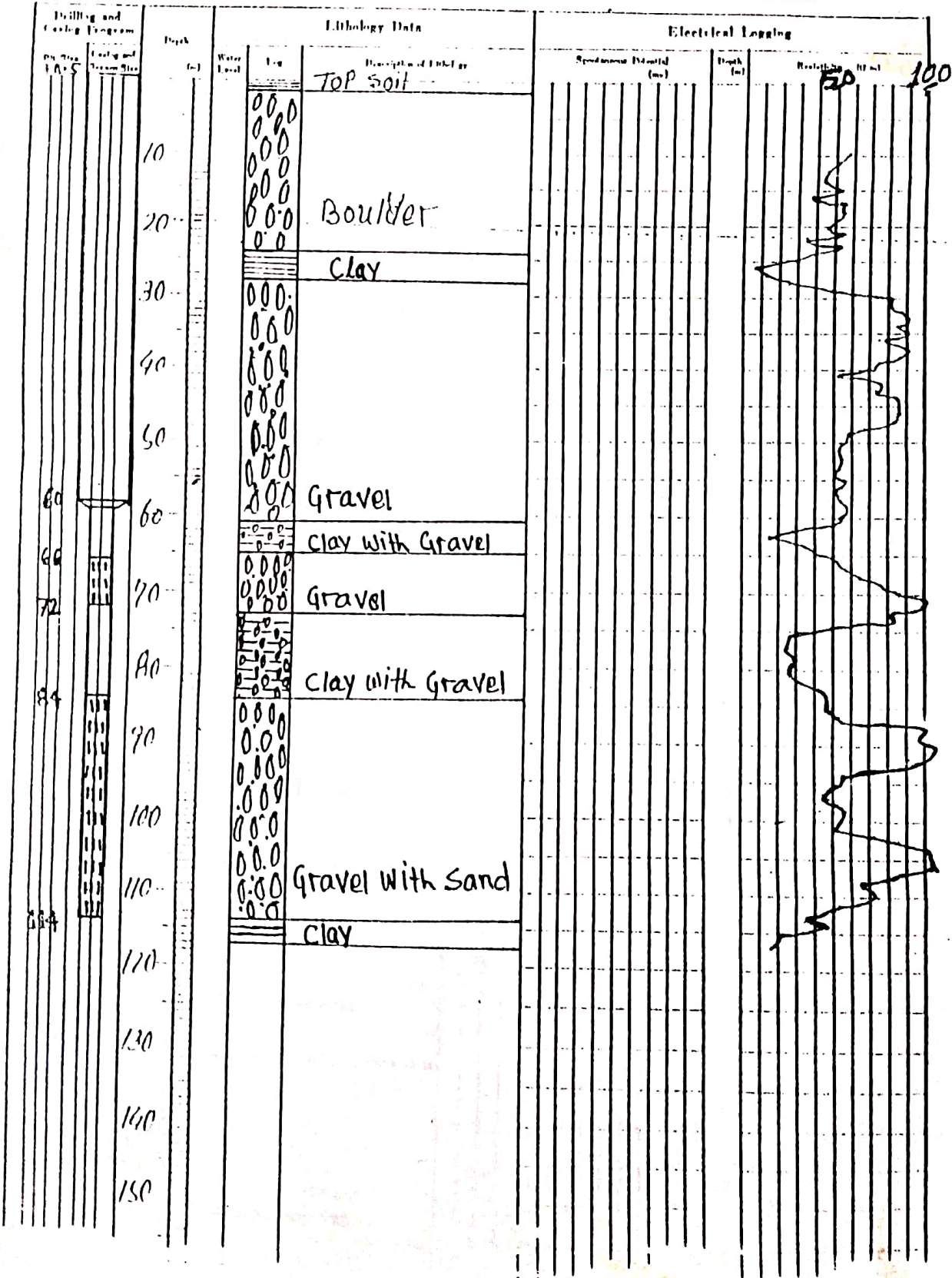
PROJECT NAME	Agri. Dev. Project	WELL NO.	1
AREA AND LOCATION	P.K.V. Ward-4	Madharpur	
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	90 M	DRILLING RIG	YRD 500
DRILLING STARTED	2050/8/07	DRILLED BY	S. JHA
WELL COMPLETED	2050/9/18	LOGGED BY	S. JHA

STATIC WATER LEVEL	10 M	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	32 m	m	CONDUCTIVITY	μS/cm
PUMPING RATE	2400 l/min	(m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m		TOTAL HARDNESS	



PROJECT NAME: <u>Agro-culture Project</u>	WELL NO. _____
AREA AND LOCATION: <u>Pasupatinagar-4 Mahotari</u>	
ELEVATION: <u>114.5</u> m	LATITUDE: _____
LONGITUDE: _____	
TOTAL DEPTH: <u>114.5</u> m	DRILLING RIG: <u>TRD 500</u>
DRILLING STARTED: <u>2052-5-20</u>	DRILLED BY: <u>R.B.K.C</u>
WELL COMPLETED: <u>2052-6-25</u>	LOGGED BY: <u>Ran Bdr K.C</u>

STATIC WATER LEVEL: <u>34.0</u> m	WATER TEMPERATURE: _____ °C
DYNAMIC WATER LEVEL: <u>39.0</u> m	CONDUCTIVITY: _____ μS/cm
PUMPING RATE: <u>1800</u> l/min (m ³ /d)	pH: _____
SEISSIC CAPACITY: _____ m ³ /d/m	TOTAL HARDNESS: _____



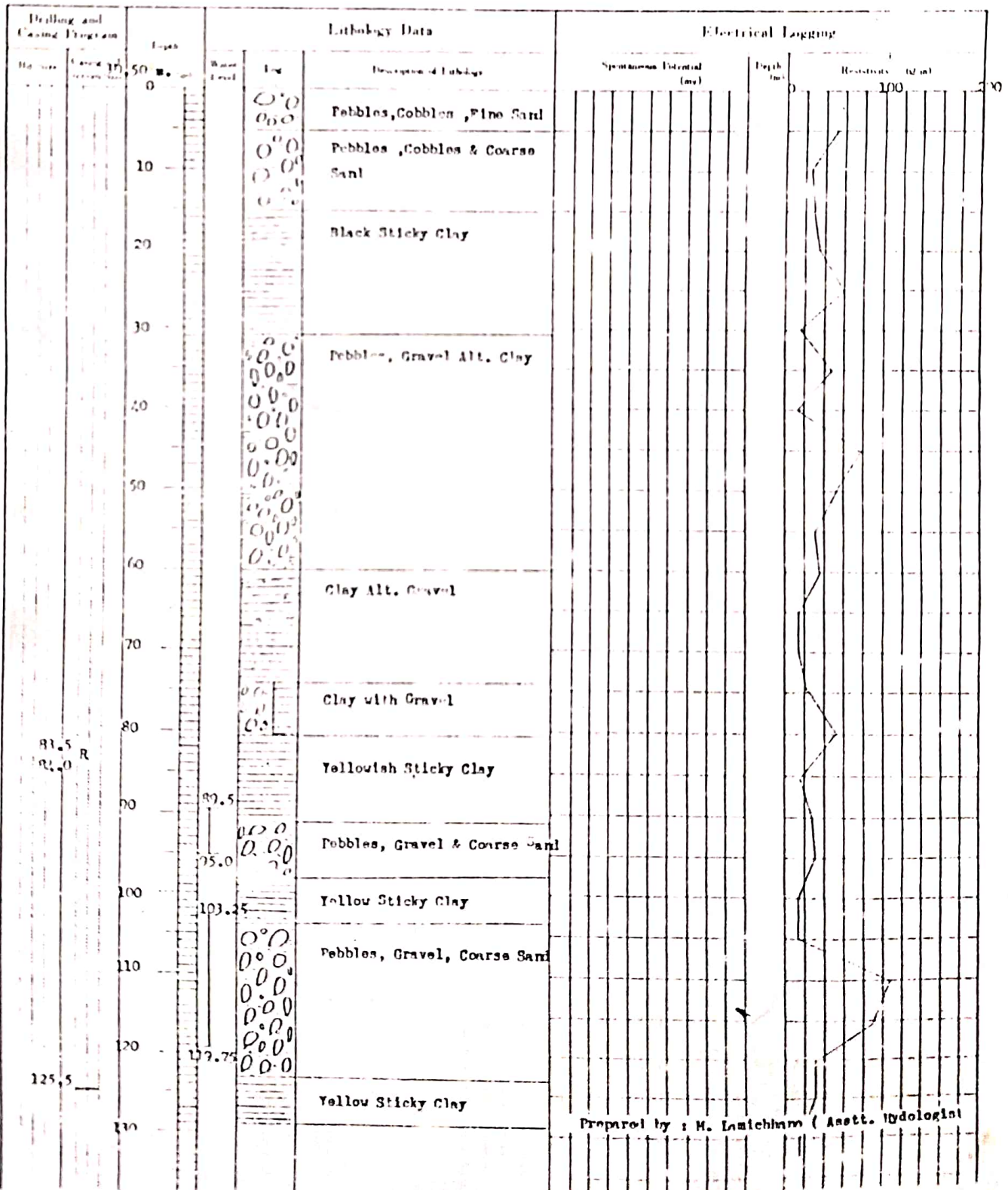
Handwritten notes and signatures at the bottom right corner of the page.

WELL LOG

Well No: P-19

PROJECT NAME J.A.P.F.		Size: 1 1/2" / 3"	
AREA AND LOCATION PUSALPUR, Pusapur Village Panchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	125.50	DILLING RIG	TRD-500
DILLING STARTED		DILLING BY Mr. Suresh Ram	
WELL COMPLETED Apr., 1976		LOGGED BY Mr. M. Laxmicharan	

STATIC WATER LEVEL	-45.0	m	WATER TEMPERATURE	C
DYNAMIC WATER LEVEL	-60.0	m	CONDUCTIVITY	μS/cm
PUMPING RATE	600.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d m		TOTAL HARDNESS	

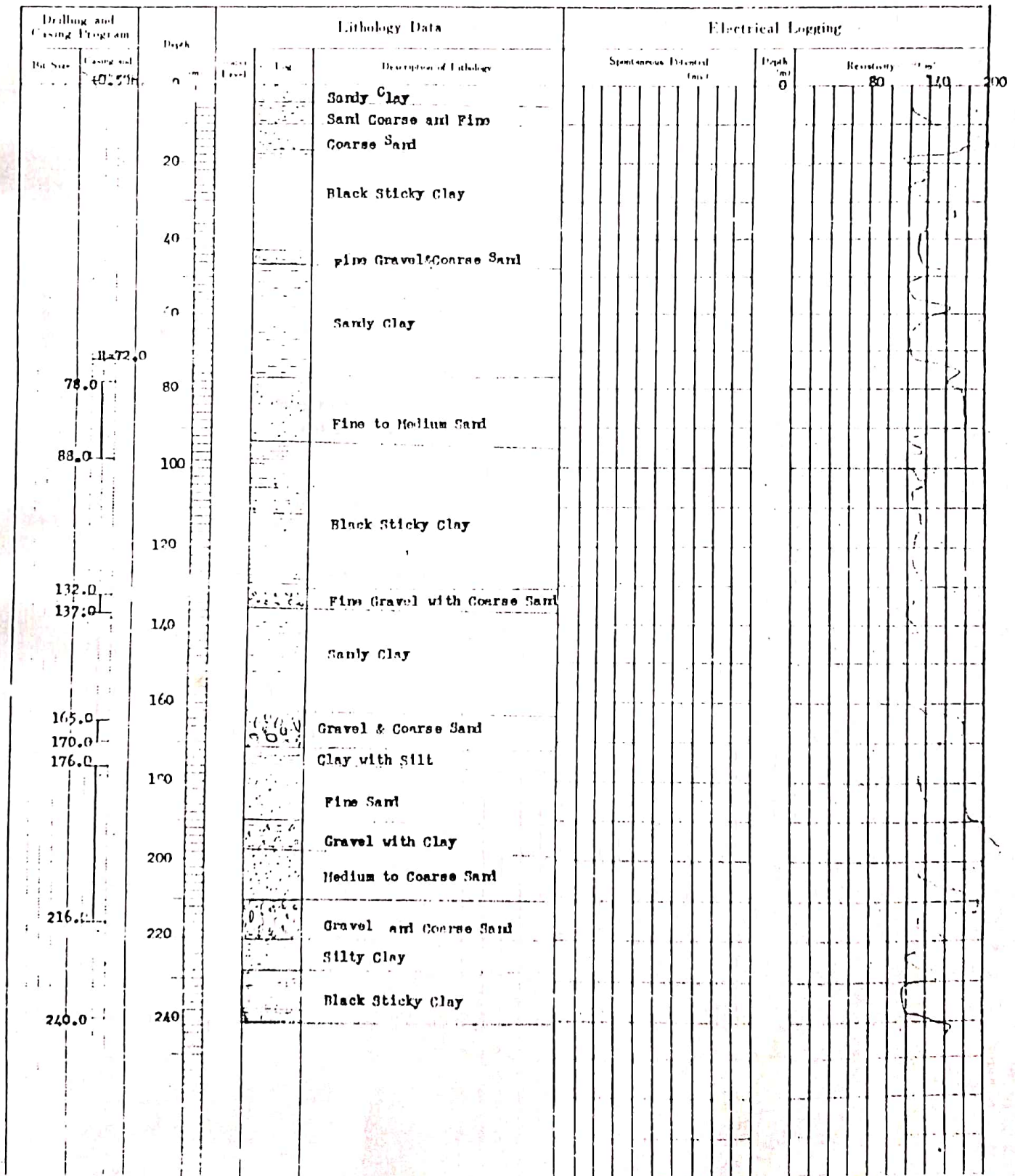


WELL LOG

Well No: B-30

PROJECT NAME		JICA Team T.T.A.T.S.P.	Size: 1 1/2" / 8"	
AREA AND LOCATION		PARKAULI, Mohottari-District, Janakpur-Zone		
ELEVATION		m	LATITUDE	
TOTAL DEPTH		240.0	LONGITUDE	
DRILLING STARTED			DRILLING RIG: YUD 501 R	
WELL COMPLETED		Jan., 1987	DRILLED BY: G. Joshi	
			LOGGED BY: O. Nagai,	

STATIC WATER LEVEL	-0.3	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-60.0	m	CONDUCTIVITY	μS/cm
PUMPING RATE	300.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

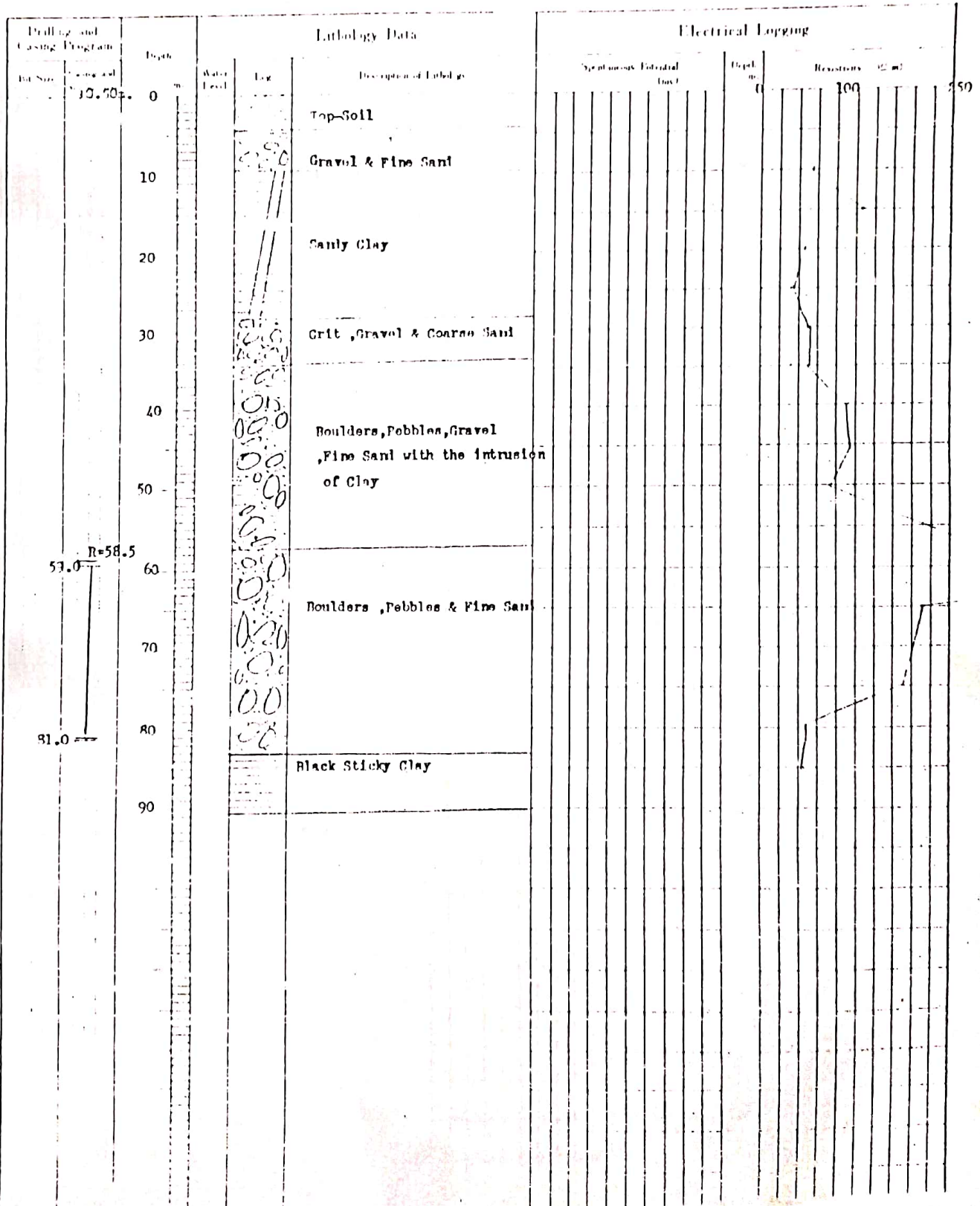


WELL LOG

Well Form 1 (1-32)

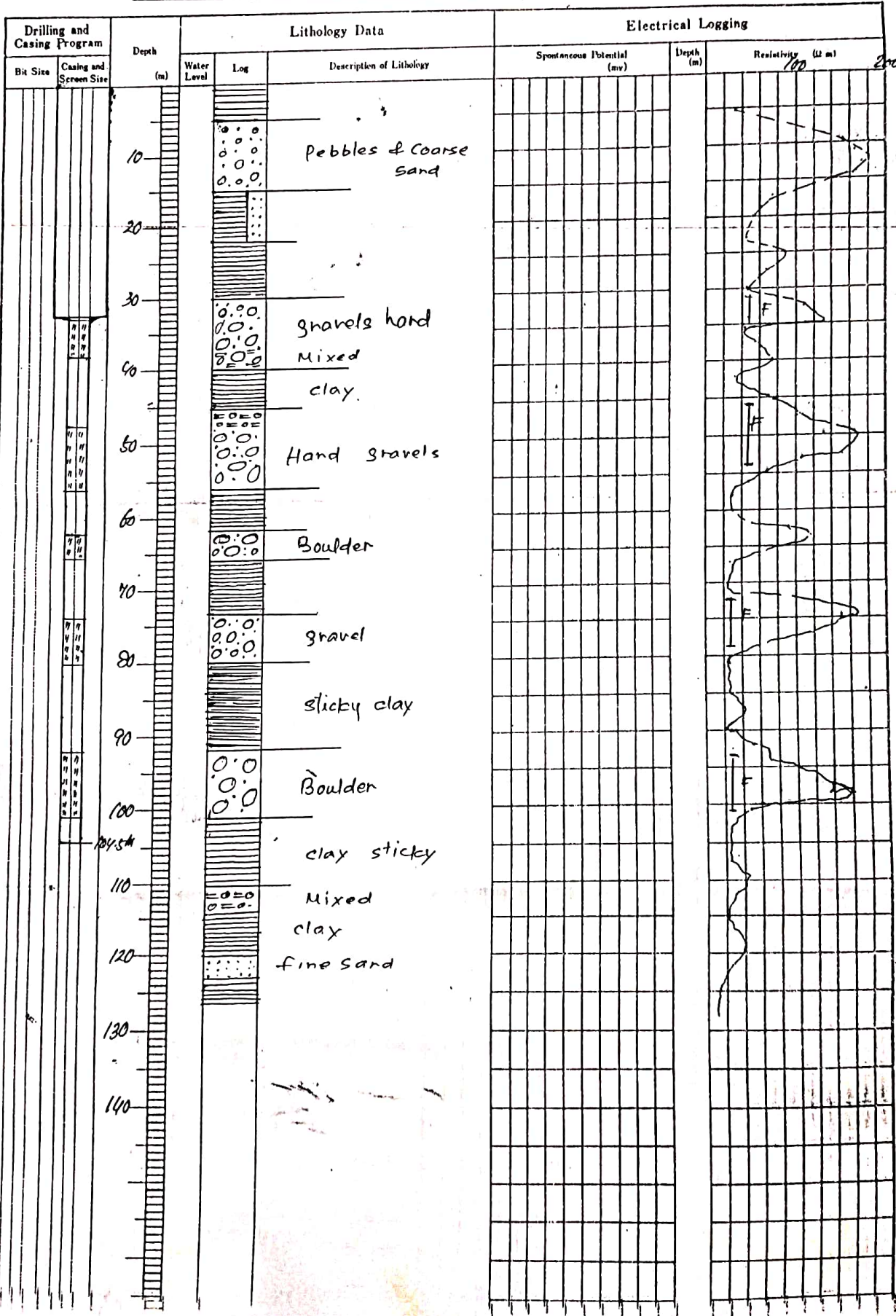
PROJECT NAME	T.T.A.T.S.P.	Size: 1 1/2" / 8"
AREA AND LOCATION	PATAR, Sarlahi-District, Jambhaur-Zona.	
ELEVATION	m	LATITUDE LONGITUDE
TOTAL DEPTH	81.0 m	DRIILLING RIG YRD 501 R
DRIILLING STARTED		DRIILLER BY D.N.Sen.
WELL COMPLETED	Apr., 1977	LOGGED BY P.Mukhiya

STATIC WATER LEVEL	-33.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-53.0	m	CONDUCTIVITY	µmhos/cm
PUMPING RATE	l/min	m ³ /d	pH	
SPECIFIC CAPACITY	1200.0	m ³ /d/m	TOTAL HARDNESS	



PROJECT NAME	4921 Dev Project JNK		WELL NO.	4
AREA AND LOCATION	PARNERIYA - 4			
ELEVATION	m	LATITUDE	LONGITUDE	
TOTAL DEPTH - 130 ^m	(104.50) m	DRILLING RIG	YRD 500 JN 214	
DRILLING STARTED	DRILLED BY		S. JHA, RAJAJ	
WELL COMPLETED	LOGGED BY		S. JHA	

STATIC WATER LEVEL	- 6 ^m	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	- 21 ^m	m	CONDUCTIVITY	$\mu\text{S/cm}$
PUMPING RATE	2400 l/min	(m^3/d)	pH	
SPECIFIC CAPACITY	$\text{m}^3/\text{l}/\text{m}$		TOTAL HARDNESS	

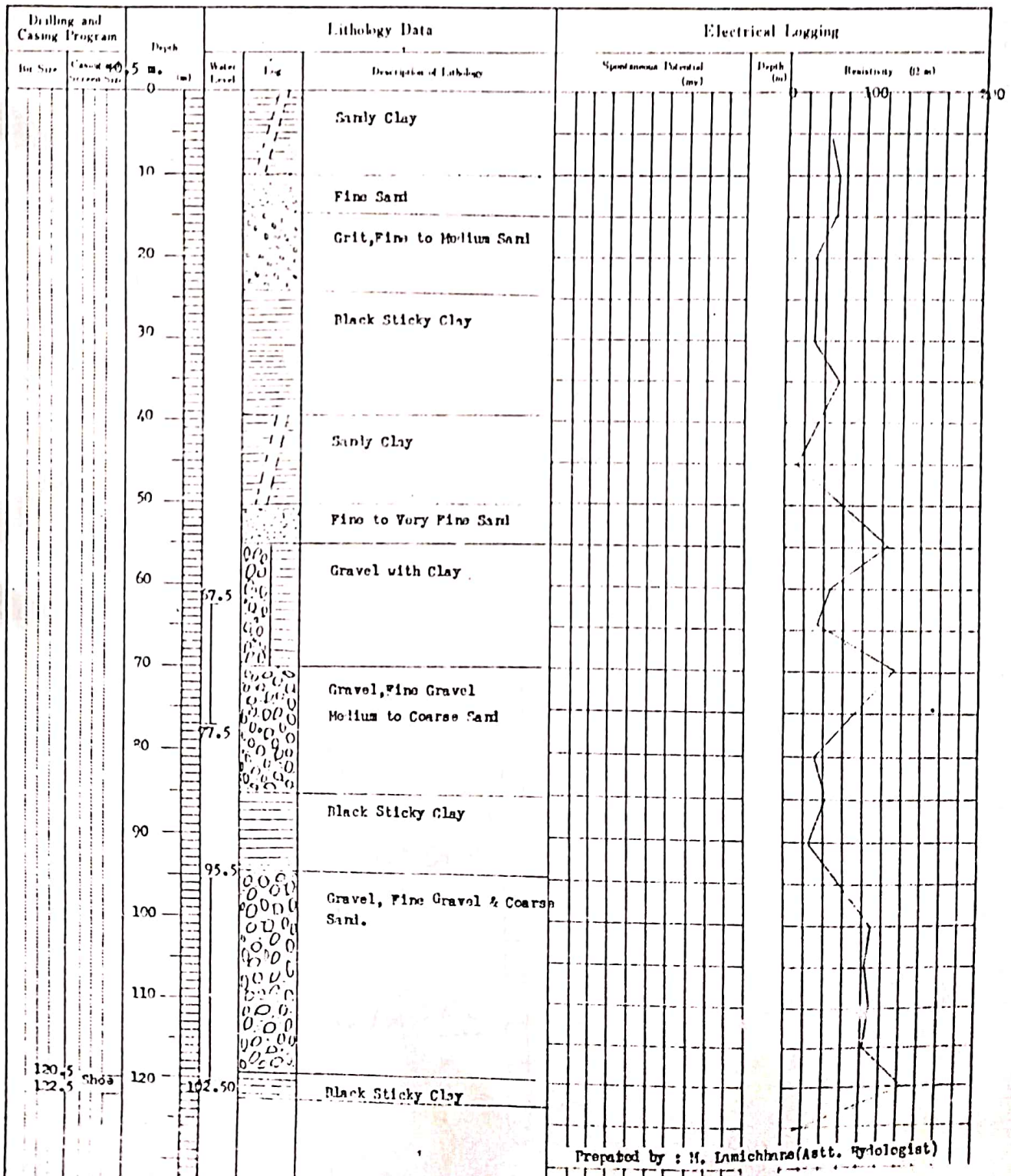


WELL LOG

Well No. J-25

PROJECT NAME <u>J.A.D.P.</u>		Size: <u>8"/8"</u>	
AREA AND LOCATION <u>PARAKIPUR AGRICULTURE CENTRE, Para-District, Phrayani-200</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	<u>122.50</u>	DRILLING RIG	<u>TOP-150 (Tractor Mounted)</u>
DRILLING STARTED		DRILLED BY	<u>Mr. Ran B. K. G.</u>
WELL COMPLETED	<u>July, 1976</u>	LOGGED BY	<u>Mr. P. Bikhya</u>

STATIC WATER LEVEL	<u>-7.000</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m		CONDUCTIVITY	μS/cm
PUMPING RATE	<u>1800.0</u>	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d.m		TOTAL HARDNESS	



PROJECT NAME	<i>P. D. P. ...</i>	WELL NO.	
AREA AND LOCATION	<i>Pasubato ...</i>		
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	<i>212 Meter feet</i>	DRILLING RIG	
DRILLING STARTED		DRILLED BY <i>...</i>	
WELL COMPLETED		LOGGED BY <i>P. M. ...</i>	

STATIC WATER LEVEL	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	feet	CONDUCTIVITY	$\mu\text{S/cm}$
PUMPING RATE	<i>600 4mint</i>	pH	
SPECIFIC CAPACITY	<i>...</i>	TOTAL HARDNESS	

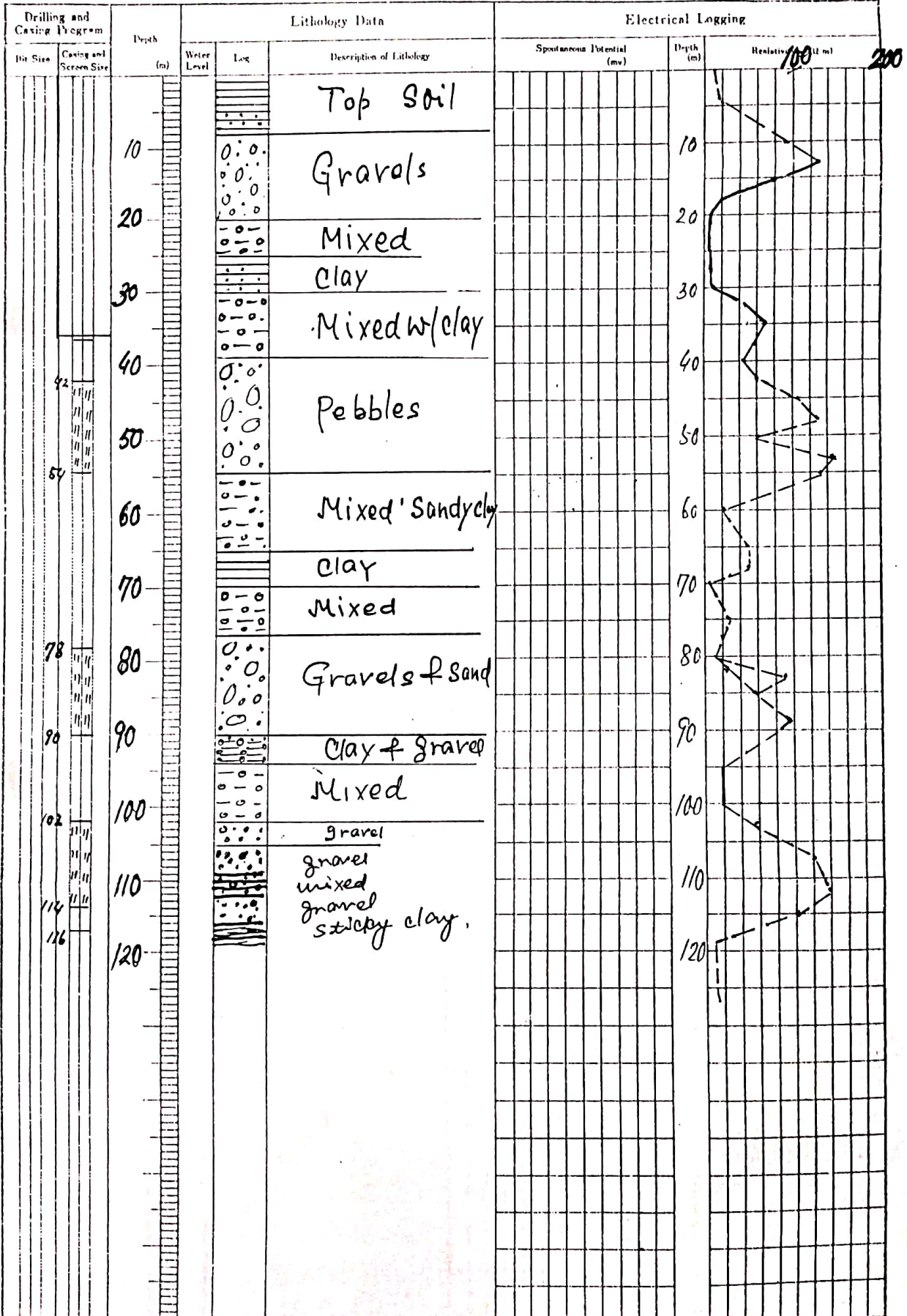
Estimated

Well Assembly *045-13-15 Logging well.*

Drilling and Casing Program		Metric Depth (feet)	Lithology Data			Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)
	<i>8</i>	10			Medium to coarse Sand and gravel			
		20						
		30						
		40						
		50			Sand fine to medium			
		60			Fine Sand			
		70						
		80			clay Block			
		90						
		100						
		110						
		120			Sticky clay			
		130						
		140						
		150						
		160			Silty clay			
		170			Coarse Sand			
		180			Rich gray mud clay			
		190			Sand and pebbles			
		200			Sand and Sand			
		210			Sticky clay			
		220						
					Screen Position			
					<i>165' to 210'</i>			
					<i>= 45' H</i>			

PROJECT NO.	1812-Dev-1702	WELL NO.	05-100
AREA AND LOCATION	Pirorboni, VDC Pakaria		
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	116.50 ^m	DRILLING RIG	YRDS00, J.A.214,
DRILLING STARTED	2052/8/10	DRILLED BY	Rajlat & Jitendra
WELL COMPLETED	2052/9/10	LOGGED BY	S. JHA.

STATIC WATER LEVEL	13.0 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	27.0" A" m	CONDUCTIVITY	μS/cm
PUMPING RATE	4800 l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

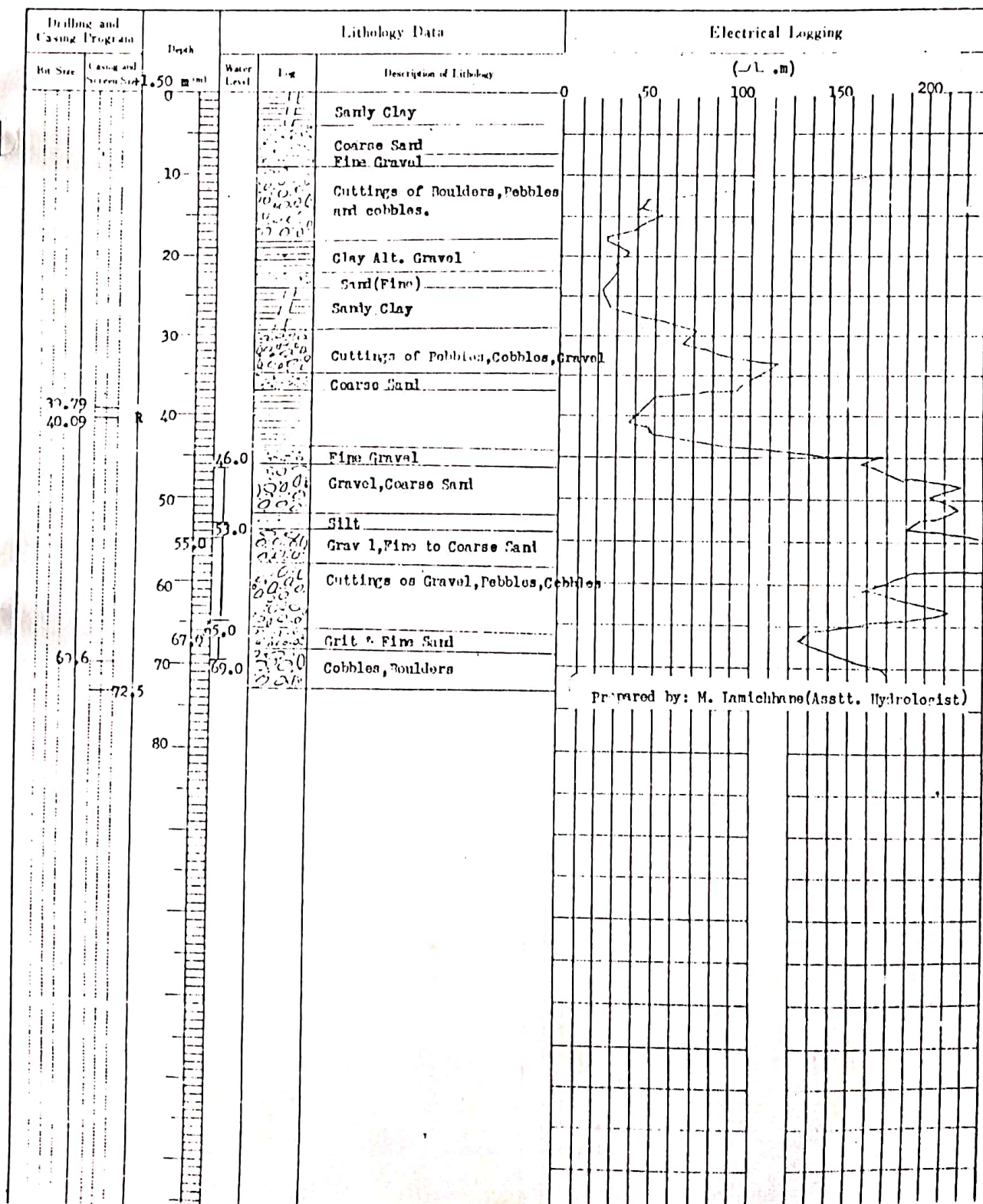


WELL LOG

Well No. J-22

PROJECT NAME		J.A.D.P.		Size: 12" / 8"	
AREA AND LOCATION		NATIONAL OIL SEED PROGRAMME, MAHALPUR, SAILAHI-DISTRICT.			
ELEVATION		m	LATITUDE		LONGITUDE
TOTAL DEPTH		72.50	DRILLING RIG		TBM-72" A1
DRILLING STARTED		27 Aug., 1979	DRILLED BY		Mr. S. Lamichhane & Mr. P. Mukhiya
WELL COMPLETED		22 Sept., 1979	LOGGED BY		Mr. H. Lamichhane

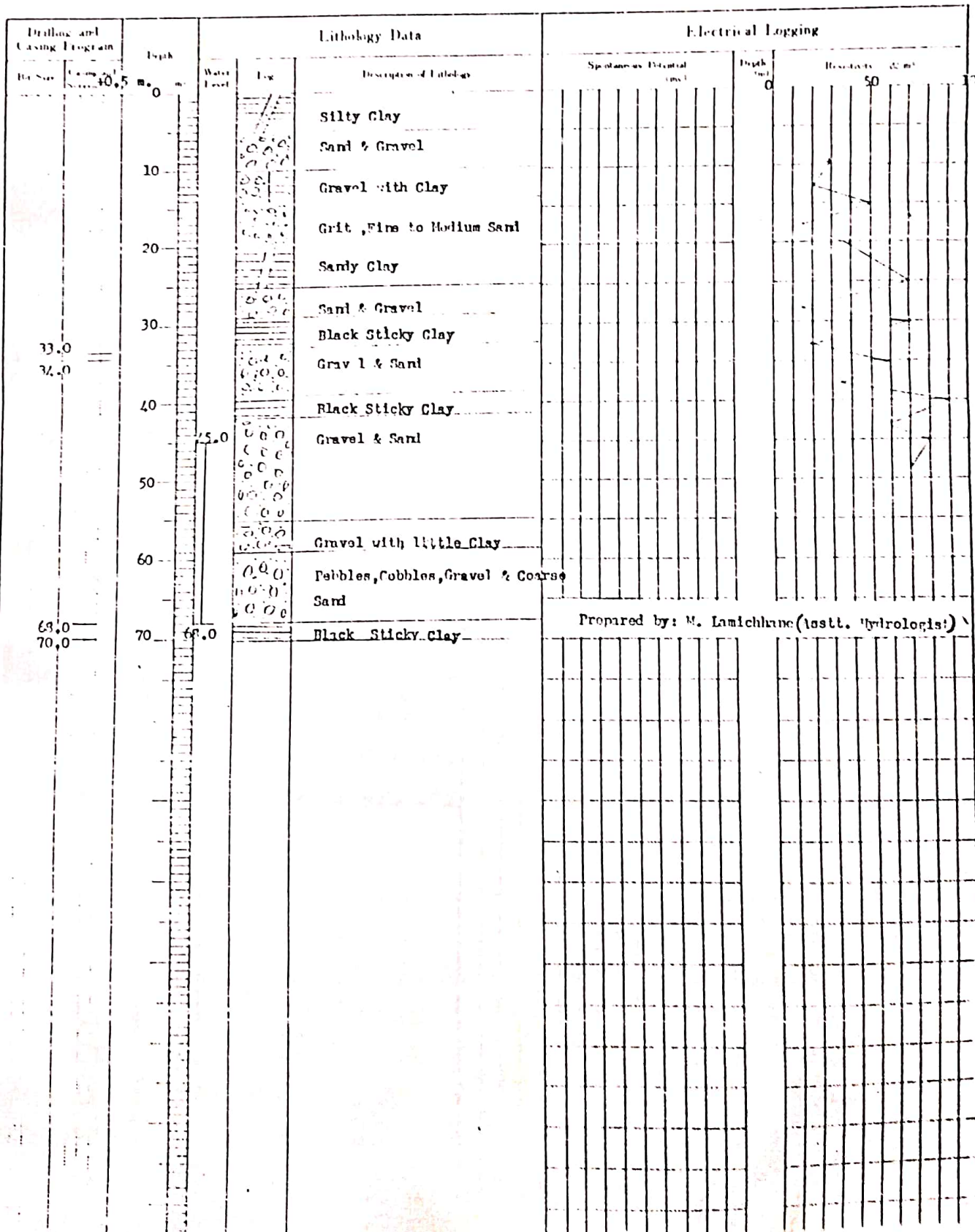
STATIC WATER LEVEL	-21.300	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-37.500	m	CONDUCTIVITY	μS/cm
PUMPING RATE	2700.0	m ³ /d	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



WELL LOG

PROJECT NAME J.A.D.P		Size: 12"/8"	
AREA AND LOCATION KAWALPUR HORTICULTURE FARM, Sarlahi-District.			
ELEVATION	m	LATITUDE	LONGITUDE
DEAL DEPTH	70.0	DRILLING RIG	TFM 72" A"
DRILLING STARTED		DRILLED BY	Mr. S. Lamichhane & Mr. D.N. San
WELL COMPLETED	Dec., 1971	LOGGED BY	Mr. S. Lamichhane

STATIC WATER LEVEL	-22.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-33.0	m	CONDUCTIVITY	µm/cm
PUMPING RATE	940.0	l/min (m ³ /d)	PH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



WELL LOG

Date: / /

N-48

PROJECT NAME 7th IA 7th SP		WELL NO	
AREA AND LOCATION Nagarayan, Bhanuoka - District.			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH 166.0	feet	DRILLING RIG TRD-500	
DRILLING STARTED		DRILLED BY N. Mukhiya	
WELL COMPLETED Mar, 1988		LOGGED BY M. Lamichhane	

STATIC WATER LEVEL +1.5	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL -20.0	feet	CONDUCTIVITY	μS/cm
PUMPING RATE 55.0	l/min (2/30 m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Artesian Dis = 15 l/m²

Drilling and Casing Program		Depth (feet)	Lithology Data			Electrical Logging			
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)	
14"		0		Top Soil					
		20		Black sticky clay					
				Sand					
		40		Black sticky clay					
		60		Clay with silt					
				Clay with gravel					
		80		Sticky clay					
				84.5		fine to med. gravel			
				87.5					
		100				Black sticky clay			
8"		113.5		Mod. coarse gravel					
		120							
				125.5		Clay with c. sand & fine gravel			
		140		133.8					
				137.4		Coarse gravel with clay			
				141.4		very fine sand			
		160		153.4		Gravel with c. sand			
				166.0		Black sticky clay			

480 = R

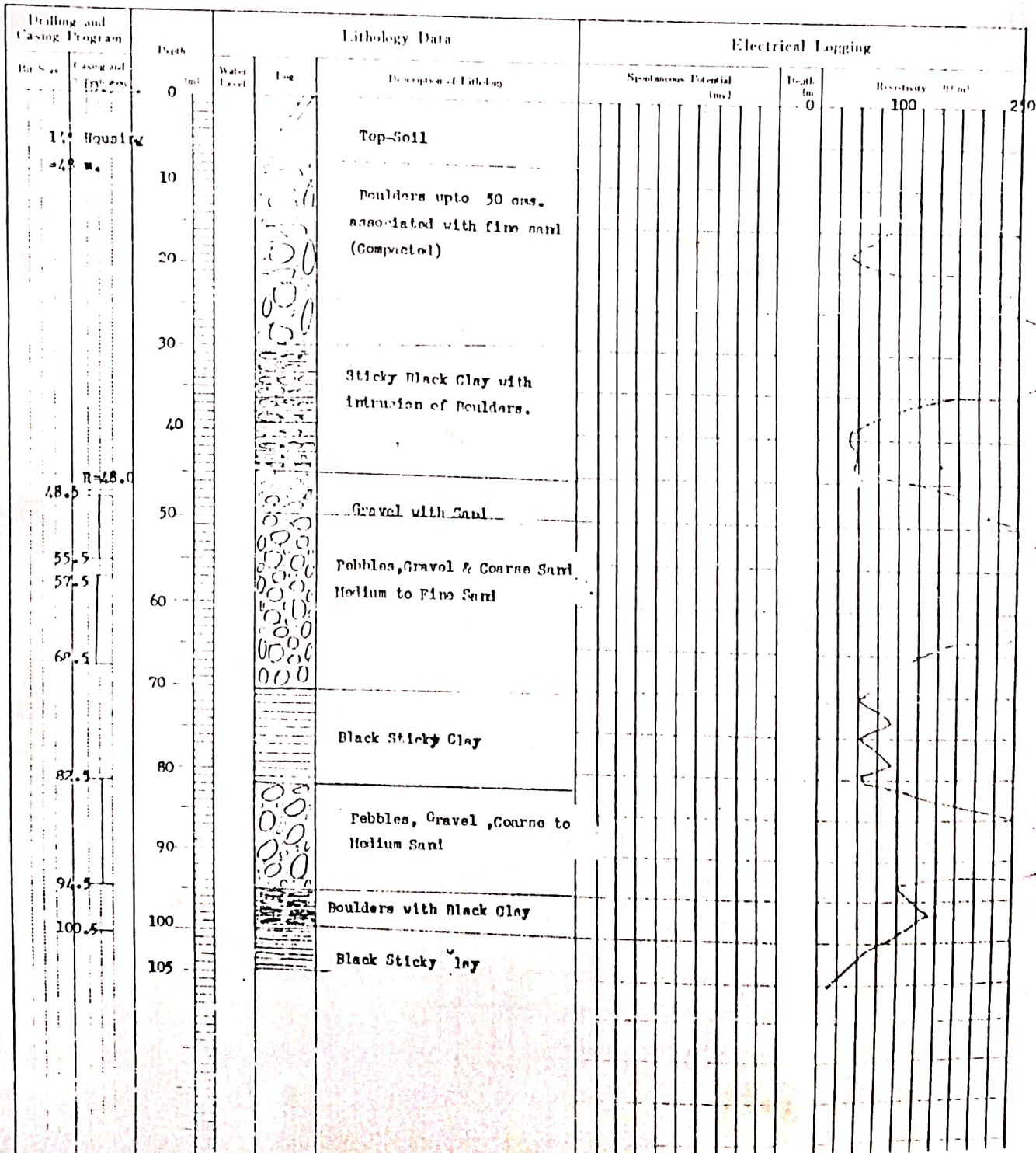
*166.0
166.0*

WELL LOG

Well Name: N-44

PROJECT NAME TIATP		Size: 1 1/8"	
AREA AND LOCATION Bawalpur, Horticulture Centre		LATITUDE	LONGITUDE
ELEVATION	100.5 m	DRILLING RIG	TRD-500
TOTAL DEPTH	100.5 m	DRILLED BY	N. Mukhiya
DRILLING STARTED		LOGGED BY	P. Mukhiya
WELL COMPLETED	Mar 2, 1977		

STATIC WATER LEVEL	-21.0 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-31.0 m	CONDUCTIVITY	µS/cm
PUMPING RATE	2400.0 L/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d m	TOTAL HARDNESS	



WELL LOG

PROJECT NAME	Agri. Dev. Project, Jarakpur			WELL NO.	3
AREA AND LOCATION	Jaymaugla, P.V. DS-9 CHITWAN				
ELEVATION	m	LATITUDE	LONGITUDE		
TOTAL DEPTH	84.5	m	DRILLING NO.	YRD 500	
DRILLING STARTED	2051-8-15		SPILLED BY	S. JHA	
WELL COMPLETED	2051-9-20		LOGGED BY	S. JHA	

STATIC WATER LEVEL	13 ^m	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	28 ^m	m	CONDUCTIVITY	$\mu S/cm$
PUMPING RATE	2400	liters (l)	pH	
SPECIFIC CAPACITY		$m^3/d/m$	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (ohm)
		0						
		10		0.0				
		20		0.0				
		30		0.0				
		40		0.0				
		50		0.0				
		60		0.0				
		70		0.0				
		80		0.0				
		90		0.0				

WELL LOG

Data No. _____

PROJECT NAME		Agri. Dev. Project Jarak		WELL NO. - 2	
AREA AND LOCATION		Jaymangla-9, Panch Kanyo v.K. Chitwan			
ELEVATION	m	LATITUDE	LONGITUDE		
TOTAL DEPTH	85.90 M	DRILLING RIG	YRD 500		
DRILLING STARTED	2050/9/23	DRILLED BY	S. JHA		
WELL COMPLETED	2050/10/30	LOGGED BY	S. JHA		

STATIC WATER LEVEL	10 ^m	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	33 ^m	m	CONDUCTIVITY	µS/cm
PUMPING RATE	2400 l/min	(m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0		XXXX	Top soil			
		10		○○○○	gravels			
		20			clay mix			
		30		○○○○	Hard gravels			
		40		○○○○	"			
		50		○○○○	Boulder zone			
		60		○○○○	"			
		70			sandy clay & gravels			
		80		○○○○	Boulder zone			
		90						
		100						

17 1/2

14 3/4

1

P

Agriculture Development Project, Janakpur, Nepal
WELL LOG
 Date No. _____

PROJECT NAME: <u>Agri. Dev. Project, Janakpur</u>		WELL NO. <u>5</u>	
AREA AND LOCATION: <u>Pauch kanya v.D.S - 7 Jirauha</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	<u>78m</u>	DRILLING RIG	
DRILLING STARTED	<u>2051-2-01</u>	DRILLED BY <u>S. JHA</u>	
WELL COMPLETED	<u>2051-3-05</u>	LOGGED BY <u>S. JHA</u>	

STATIC WATER LEVEL	<u>12.00m</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	<u>21.00m</u>	m	CONDUCTIVITY	μS/cm
PUMPING RATE	<u>2400</u>	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS		

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
BH Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity/100 m
		10	▽	●●●●	Gravels			
		10	SWL	●●●●	Sticky clay & gravels			
		20	P.W.	●●●●	Boulder core			
		30		●●●●	" "			
		40		●●●●	Boulder			
		50		●●●●				
		60		●●●●	Mixed w/clay			
		70		●●●●	Gravels			
		70		●●●●	sandy coarse Gravels			
		80		●●●●	Mixed w/clay			

WELL LOG

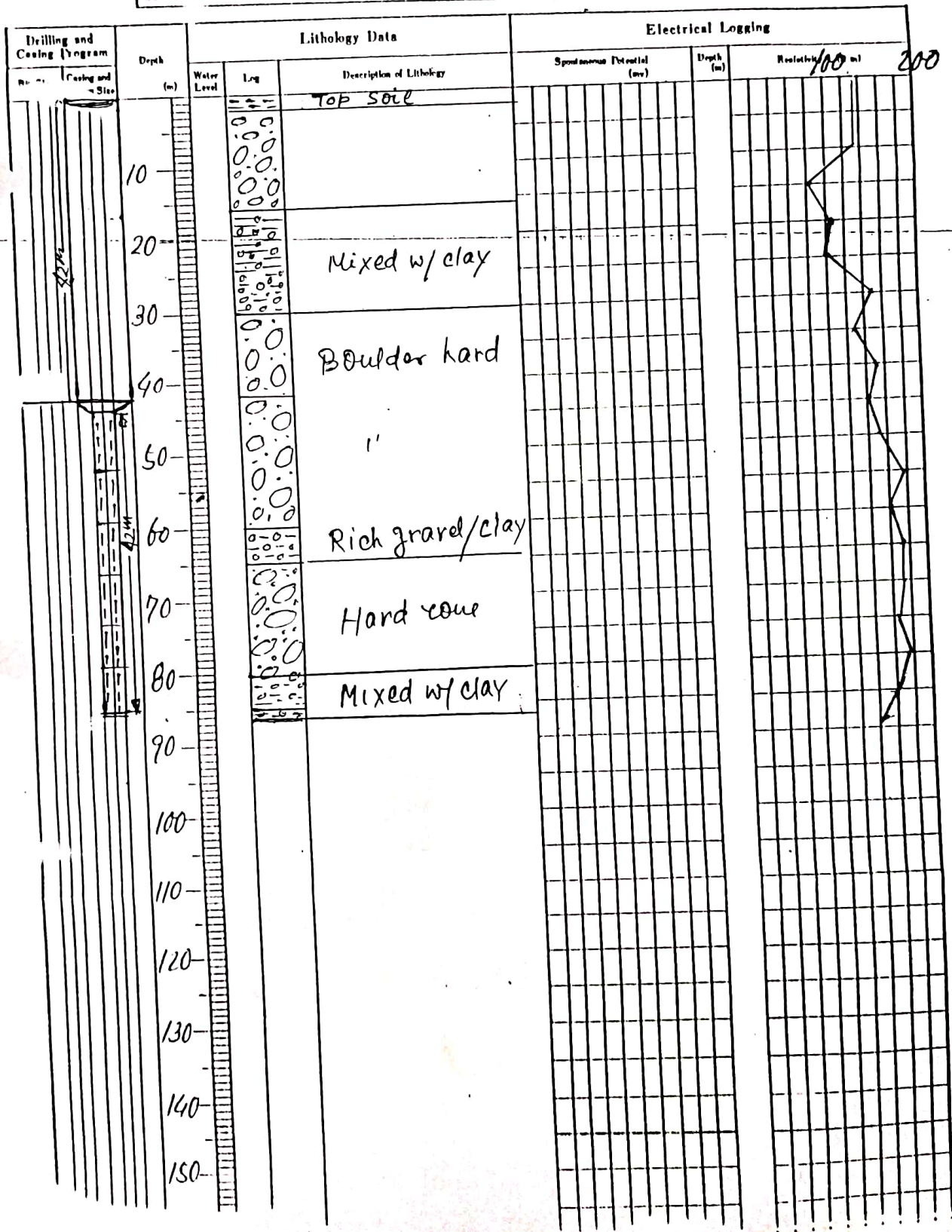
PROJECT NAME	Agr. Dev. Proj.	WELL NO. - 3
AREA AND LOCATION	Chitwan, Madharpur (२०)	
ELEVATION	m	LATITUDE LONGITUDE
TOTAL DEPTH	92.00 M	m DRILLING RIG YRD 500
DRILLING STARTED	2050/11/05	DRILLED BY S. JHA
WELL COMPLETED	2050/12/25	LOGGED BY S. JHA

STATIC WATER LEVEL	12 M	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	33 M	m	CONDUCTIVITY	µS/cm
PUMPING RATE	2100	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
SWL		10	0.00	0.00				
		20	0.00	0.00	Mixed w/clay			
		30	0.00	0.00	Hard gravel			
		40	0.00	0.00	Mixed			
		50	0.00	0.00	gravel			
		60	0.00	0.00	fine sand, Medium Rich gravel & clay			
		70	0.00	0.00	Boulder zone			
		80	0.00	0.00	Hard			
		90	0.00	0.00	Mixed clay			
		100						
		110						

PROJECT NAME	Agri. dev. Project	WELL NO.	6
AREA AND LOCATION	Champur - 8	Chitwan	
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	88 m	DRILLING RIG	YRD 500
DRILLING STARTED	2051-3-	DRILLED BY	S. JHA
WELL COMPLETED	2051-4-	LOGGED BY	S. JHA

STATIC WATER LEVEL	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	μS/cm
PUMPING RATE	80 l/min (m³/d)	pH	
SPECIFIC CAPACITY	m³/d/m	TOTAL HARDNESS	



Well No
T-31

277 10/27/74 H&H B&B, ~~10/27/74~~ J-31
10/27/74 H&H B&B

Depth	Geo. log		
		Top Soil (Sand) FINE sand	
10		clay with Boulders and Coarse Sand	
20		yellowish sticky clay	
30		yellowish sticky clay	
40		Gravel & Boulder with yellow clay	
50		yellowish clay	
60		yellow clay with Gravel & boulders	
70		Boulders with Rich clay	
80		Boulder, pebbles, fine sand with little clay	
90		sandy clay	
100		Gravel with Boulders & fine sand	
		112.57 meters	

75.51	4.280
76.51	4.280
77.51	4.280
78.51	4.280
79.51	4.280
80.51	4.280
81.51	4.280
82.51	4.280
83.51	4.280
84.51	4.280
85.51	4.280

H&H B&B

WELL LOG

PROJECT NAME	Agriculture dev. Project Jau	WELL NO. 3
AREA AND LOCATION	Chitwan (P. Kanya, V.D-4)	
ELEVATION	m	LATITUDE LONGITUDE
TOTAL DEPTH	92	DRILLING RIG YRD 500, J.A 214
DRILLING STARTED	2050/11/4	DRILLED BY Satyendra Jha
WELL COMPLETED	2050/12/18	LOGGED BY Satyendra Jha

STATIC WATER LEVEL	12	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY	µS/cm
PUMPING RATE	2100	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0		//	Top soil			
		10		○ ○ ○ ○ ○	Hard gravels			
		20		○ ○ ○ ○ ○				
		30		○ ○ ○ ○ ○	gravels			
		40		○ ○ ○ ○ ○	clay & gravels			
		50		○ ○ ○ ○ ○				
		60		○ ○ ○ ○ ○	fine sand & gravels			
		70		○ ○ ○ ○ ○	Bouldon			
		80		○ ○ ○ ○ ○				
		90		○ ○ ○ ○ ○	Mix w/clay gravels			
		95		○ ○ ○ ○ ○	clay w/gravels			
		100						

WELL LOG

PROJECT NAME	Agr. development Project	WELL NO.	
AREA AND LOCATION	Chamlinggaon, Bante		
ELEVATION	m	LATITUDE	LONGITUDE
WELL DEPTH	142 m	DRILLING RIG	'D' '501'
DRILLING	2050-3-27	DRILLED BY	R.L. V.C.
WELL COMPLETED	2050-5-28	LOGGED BY	M. Laxmikhanf

STATIC WATER LEVEL	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	μS/cm
PUMPING RATE	liters (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
No.	Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0			Clay			
		30			Coarse sand			
		40			Sticky Black Clay			
		60			Coarse sand w/ clay			
		80			Black sticky clay			
		100						
		120						
		140						
		160						
		180						
		200						

WELL LOG

Well No

N-55

PROJECT NAME TIATSP	WELL NO
AREA AND LOCATION Saharawa, Mahottari - District	
ELEVATION _____ feet	LATITUDE _____ LONGITUDE _____
TOTAL DEPTH 210.0 m feet	DRILLING RIG N. Mukhiya
DRILLING STARTED _____	DRILLED BY TRD-500
WELL COMPLETED May, 1988	LOGGED BY M. Samichane



STATIC WATER LEVEL +0.5 feet	WATER TEMPERATURE _____ °C
DYNAMIC WATER LEVEL -14.0 feet	CONDUCTIVITY _____
PUMPING RATE 45.0 m ³ /min (l/min)	pH _____
SPECIFIC CAPACITY _____ m ³ /d/m	TOTAL HARDNESS _____

निकाश योजना
 निकाश योजना
 निकाश योजना

575 = R
520 = R

210

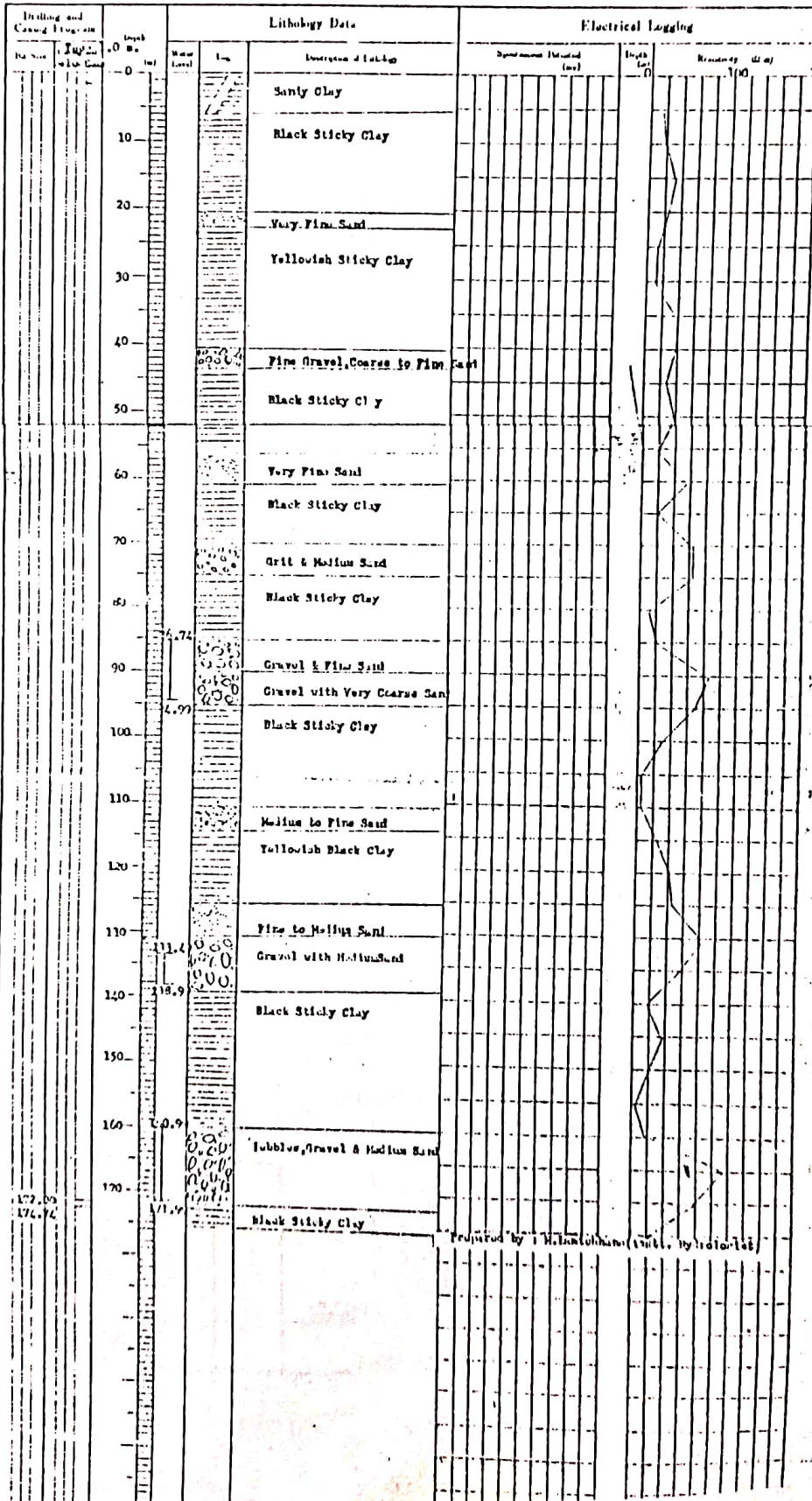
Drilling and Casing Program		Depth (feet)	Lithology Data		Electrical Logging				
			Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω.m)	
Bit Size	Casing and Screen Size	0		☒	Top-soil				
		20			Blk. Sticky clay				
		40							
		60	62.5	○	Clay with gravel				
		80	65.5	○	Gravel C. to med C. sand				
		80	85.0	○	Black sticky clay				
		100	90.5	○	Sand → gravel				
		120	124.5	○	Clay with sand → gravel				
		140	122.5	○	Sand med. → fine gravel				
		160	158.5	○	Yellowish Black Sticky clay				
		160	162.0	○	Sand → gravel				
		180	180.0	○	Black sticky clay				
		200	196.5	○	Fine to med. gravel C. sand				
		200	202.5	○	Black sticky clay C. sand, f. gravel				
		220	208.0	○	Clay				

WELL LOG

Well Number **J-24**

PROJECT NAME J. I. D. P.		Size: 4"/4"	
AREA AND LOCATION JARAKI TEMPLE, Jarankpur, Dhara			
ELEVATION	=	LATITUDE	=
TOTAL DEPTH 172.72	=	DRILLING LOG	=
DRILLING STARTED		DRILLED BY Mr. Ban Moh. K.G.	
WELL COMPLETED May, 1976		LOGGED BY Mr. P. Mukhya	

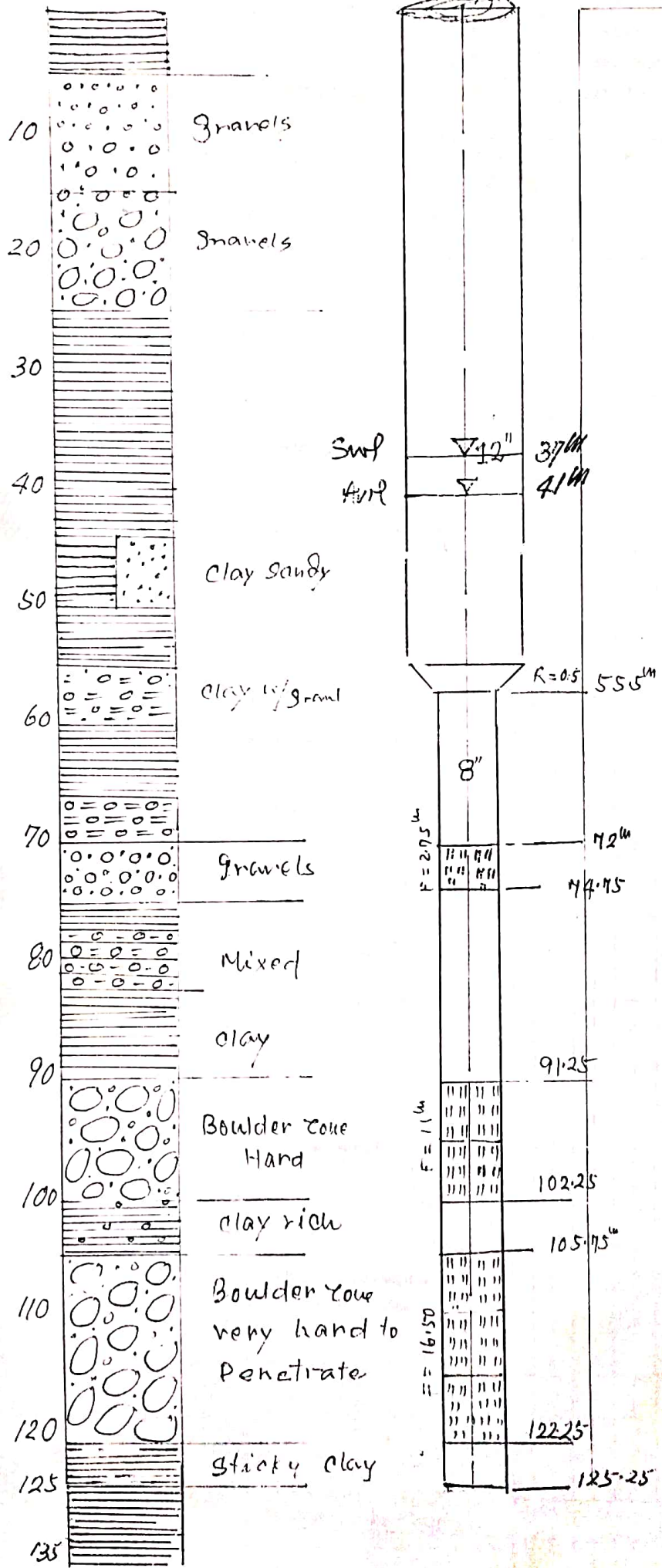
STATIC WATER LEVEL 11.000	=	WATER TEMPERATURE	=
DYNAMIC WATER LEVEL 5.600	=	CONDUCTIVITY	=
PUMPING RATE 1500.0	=	PH	=
SPECIFIC CAPACITY Artesian: 5.0 L/Sec. m²/m	=	TOTAL HARDNESS	=



Prepared by **M. Lakshminarayanaiah** (M. Sc. in Geology)

Total Depth - : 125.25' (135')
 Start & End - : 053/3/15 - 4/15
 SWP / AWL : - 37' / 41' (LA)

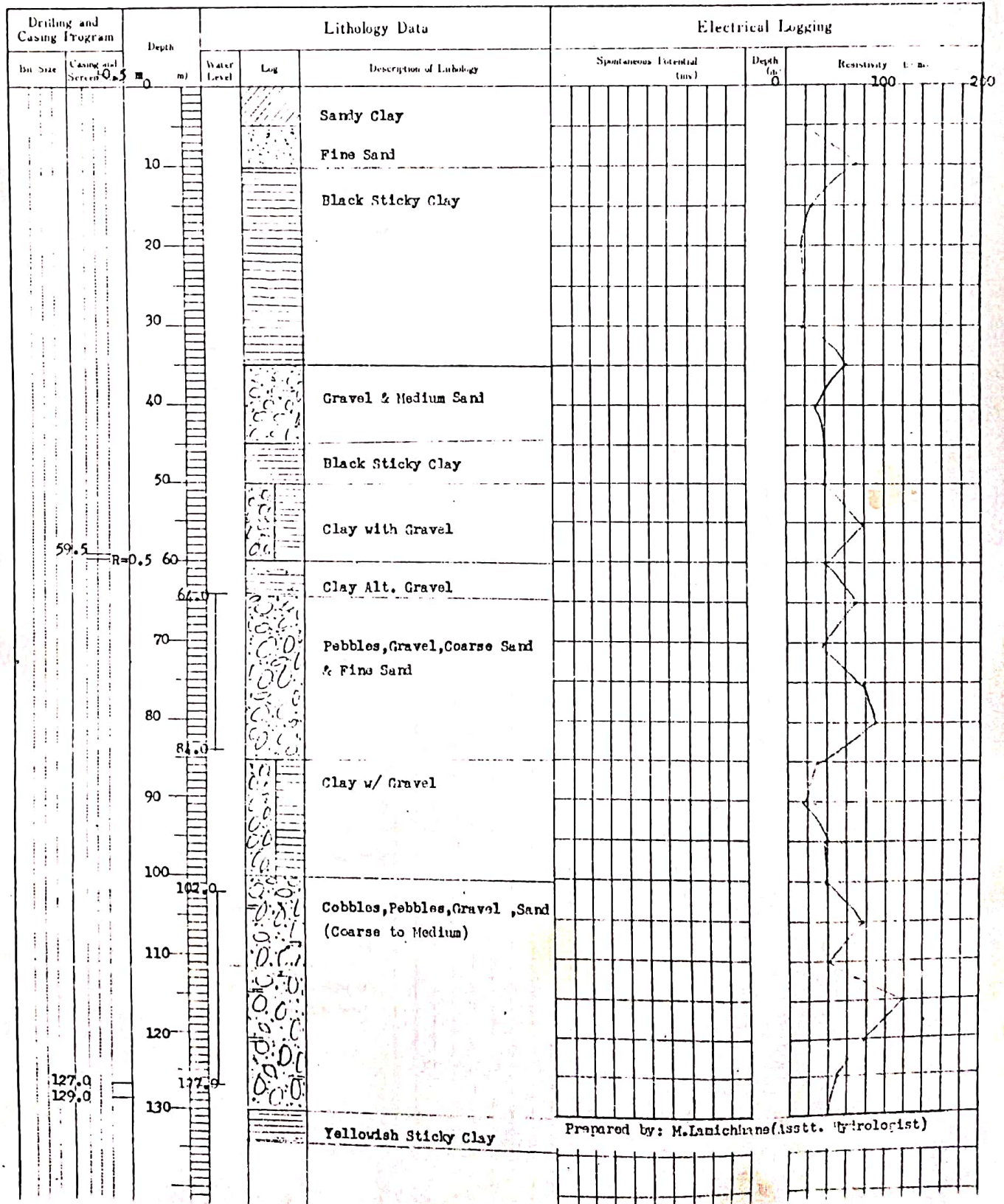
Location - HARIHARPUR
 Well - 10 , F.Y 053/54
 "Resistivity @ 90'" 180 210



Dis - 304/5

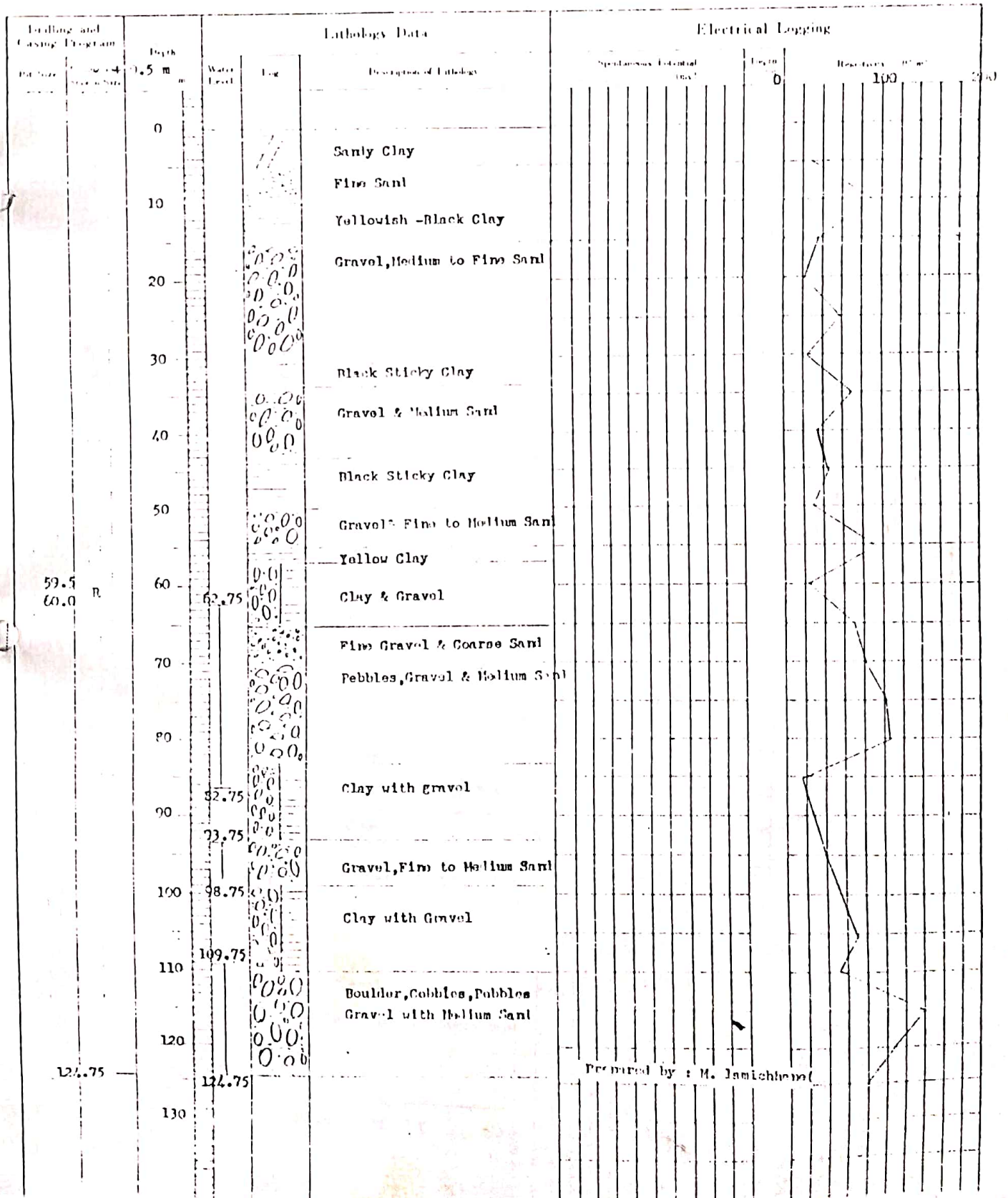
PROJECT NAME <u>J.A.D.P.</u>		Size: 14" / 8"	
AREA AND LOCATION <u>UMAPREMUR-3, Umapremur Village Panchayat</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	129.0	DRILLING RIG	TRD-500
DRILLING STARTED		DRILLED BY	Mr. Sudeah Rana
WELL COMPLETED	Apr., 1986	LOGGED BY	Mr. M. Lamichhane

STATIC WATER LEVEL	-33.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY	μS/cm
PUMPING RATE	2400.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



PROJECT NAME: J.A.D.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION: UMAPPURUR-2, Newyemour Village, Panchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	124.75	DRILLING RIG	YRD 50" R"
DRILLING STARTED		DRILLED BY	Mr. Suresh Ram
WELL COMPLETED	Apr., 1986	LOGGED BY	Mr. M. Jamichane

STATIC WATER LEVEL	-40.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY	µS/cm
PUMPING RATE	600.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

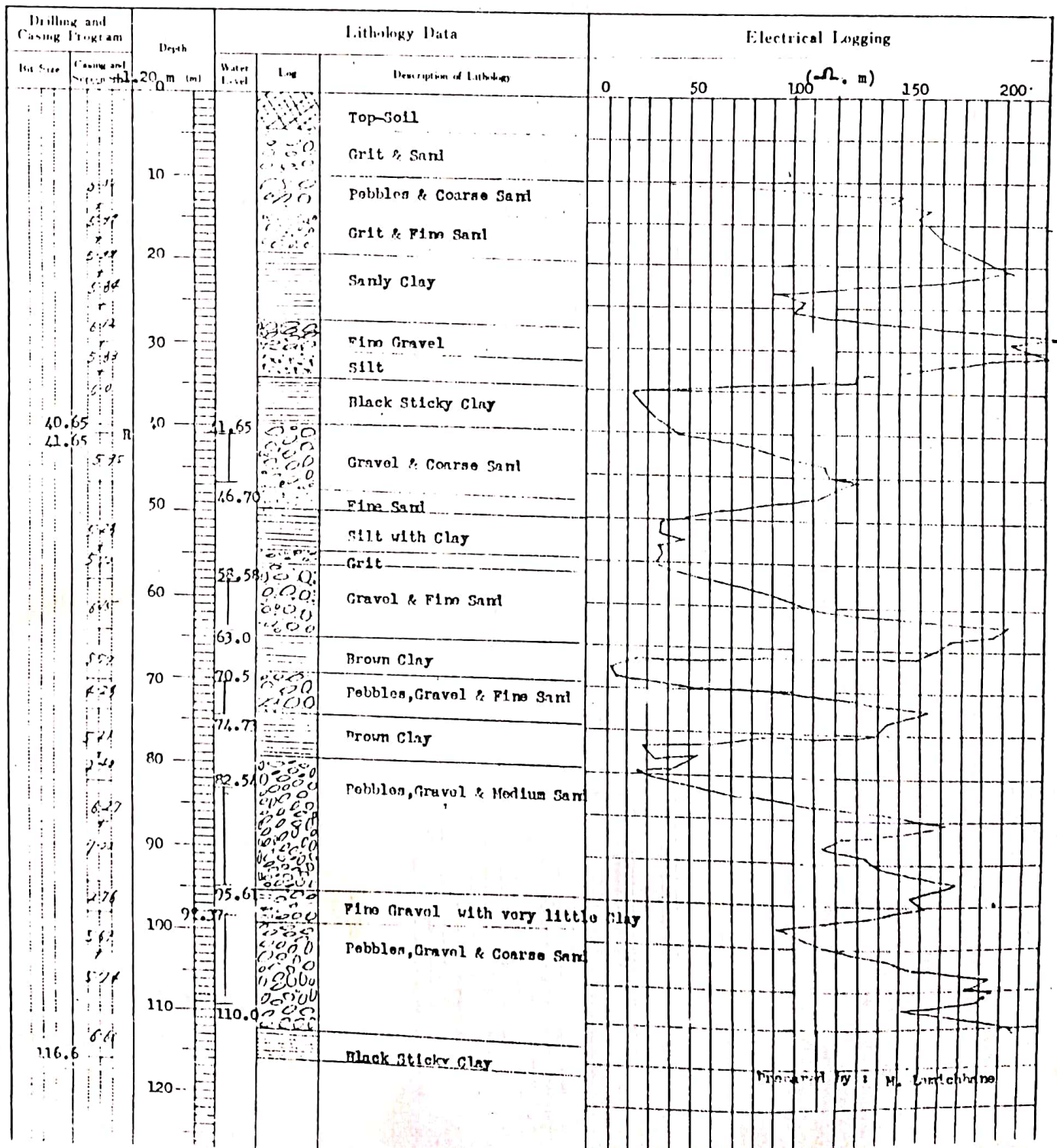


WELL LOG

Well No.: J-3

PROJECT NAME J.A.D.P		Size: 12"/8"	
AREA AND LOCATION TOBACCO PROCESSING FACTORY, MAHENDRA-NAGAR, Dahamsha.			
ELEVATION _____ m		LATITUDE _____ LONGITUDE _____	
TOTAL DEPTH 116.0		DRILLING RIG TBM 72"A"	
DRILLING STARTED 21 Mar., 1970		DRILLED BY Mr. S. Lamichhane & P. Mukhiya	
WELL COMPLETED 19 Apr., 1970		LOGGED BY Mr. H. Lamichhane	

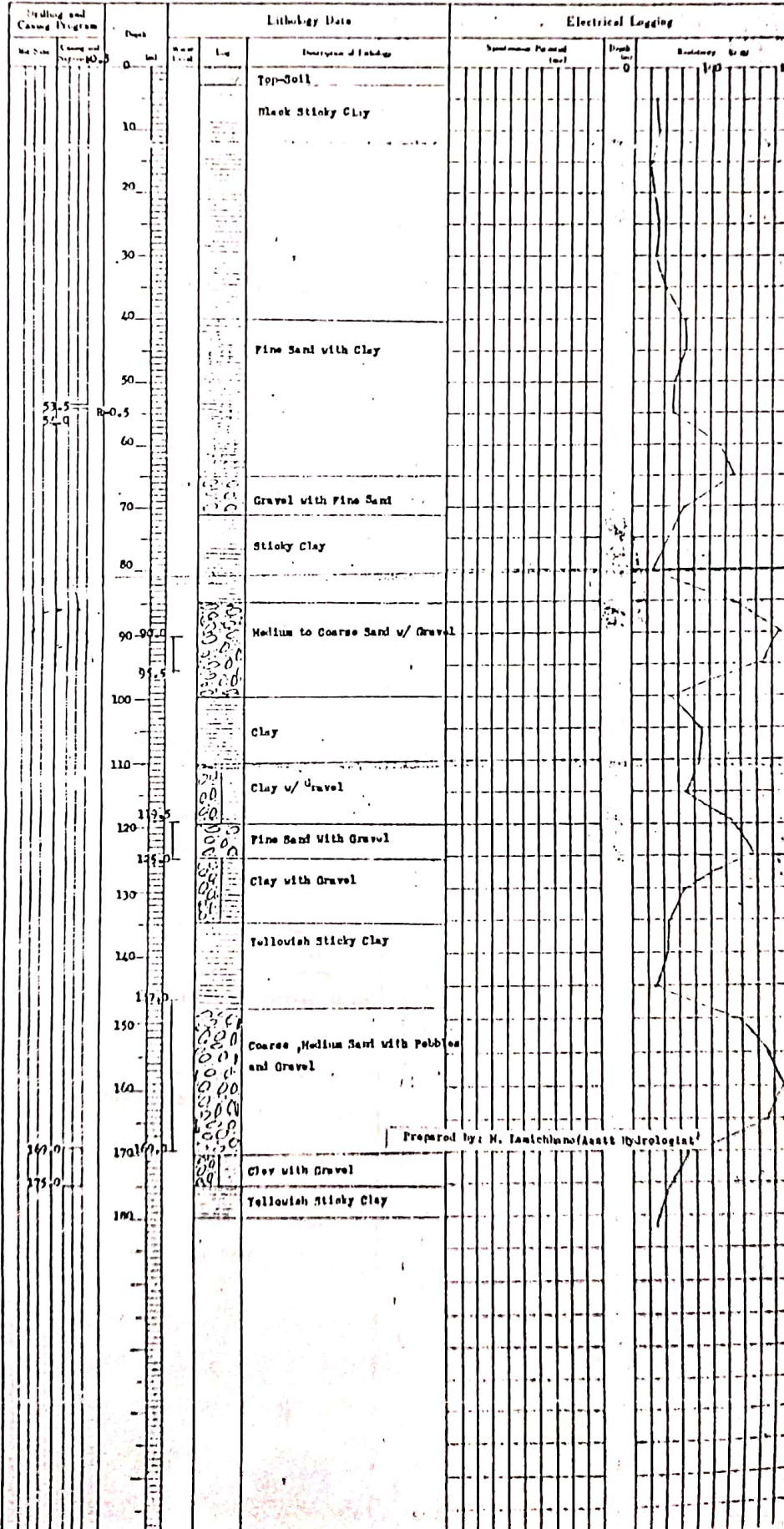
STATIC WATER LEVEL -6.000 m	WATER TEMPERATURE _____ °C
DYNAMIC WATER LEVEL -21.000 m	CONDUCTIVITY _____ μS/cm
PUMPING RATE 1200.0 m ³ /d	pH _____
SPECIFIC CAPACITY _____ m ³ /d/m	TOTAL HARDNESS _____



PROJECT NAME	J.A.D.P.	Scale	14"/8"
AREA AND LOCATION	SORAPADI, Dandara Village, Panchayat		
ELEVATION	=	LATITUDE	LONGITUDE
TOTAL DEPTH	175.0	DILLING RIG	TID-500
DILLING STARTED		DILLED BY	Mr. E. Jakkhya
WELL COMPLETED	Mr. 1256	LOGGED BY	Mr. H. Janichunn

STATIC WATER LEVEL	10.5	WATER TEMPERATURE	
DYNAMIC WATER LEVEL		CONDUCTIVITY	µM/cm
PUMPING RATE	1000.0 l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d	TOTAL HARDNESS	

Artesian Discharge = 6.0 Litre/Second.



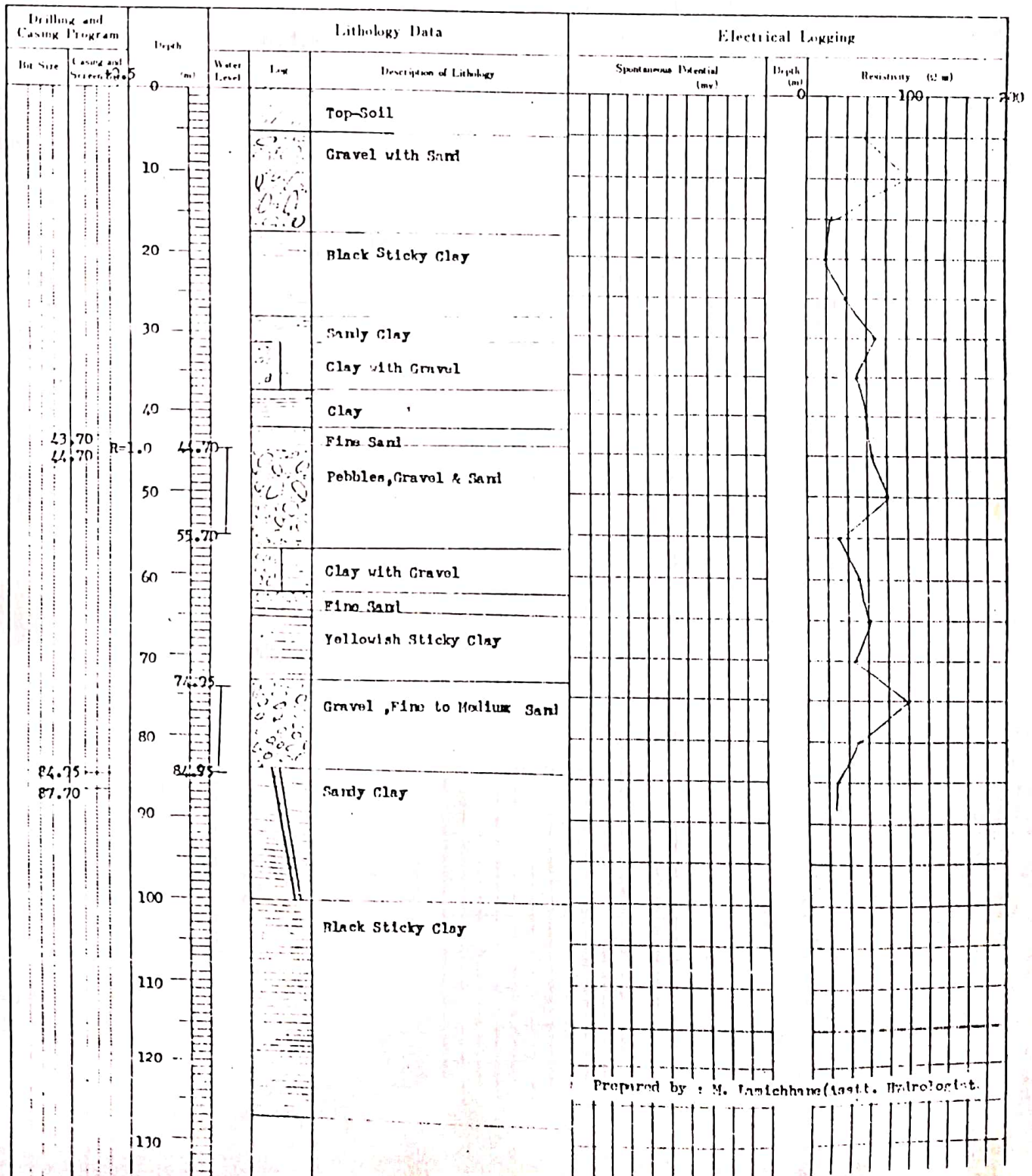
Prepared by: H. Janichunn, Asst Hydrologist

WELL LOG

Well No: J-27

PROJECT NAME J.A.D.P.		Size: 12"/8"	
AREA AND LOCATION SIRVAHIDAN, Sirvahidan Village Panchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 87.70	m	DRILLING RIG TOP 150 (Tractor Mounted)	
DRILLING STARTED		DRILLED BY Mr. G. Gantam	
WELL COMPLETED Apr., 1936		LOGGED BY Mr. P. Mukhya	

STATIC WATER LEVEL -1.00	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	μS/cm
PUMPING RATE 2400.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



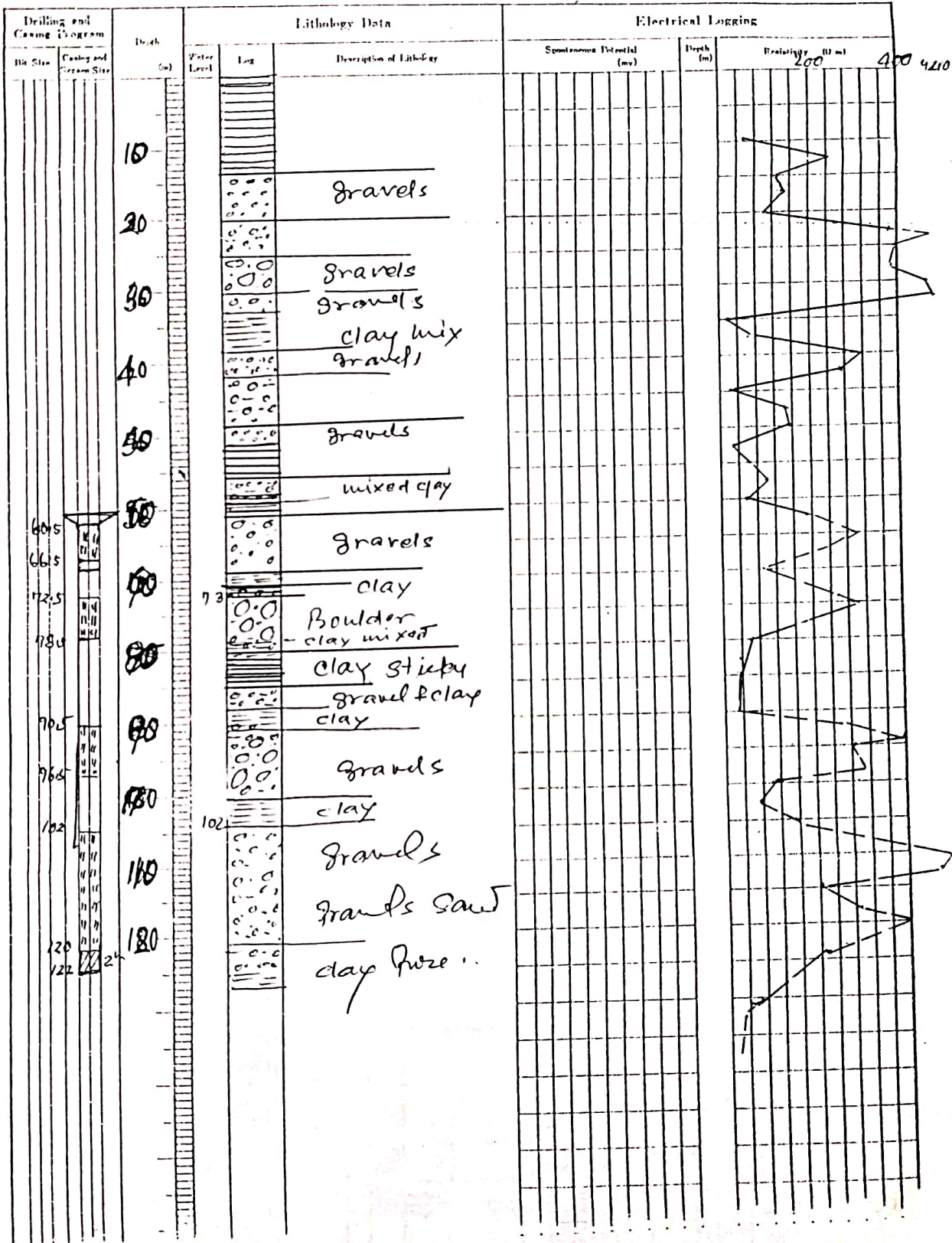
PROJECT NAME	Agri Dev. Project	WELL NO.	5 (05/52)
AREA AND LOCATION	SANGRAMPUR DALPUR VDC		
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	100 m	DRILLING RIG	YRD 500 (214)
DRILLING STARTED		DRILLED BY	Jilendra & Rajal
WELL COMPLETED		LOGGED BY	S. JHA

STATIC WATER LEVEL	26.0m	m	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	48.00m	m	CONDUCTIVITY	µm/cm
PUMPING RATE	1200	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0		Top soil			
		10		pebbles			
		20		clay			
		30					
		40		gravels & sand			
	375	50		clay			
	57	60		gravel			
	60			sandy clay			
	725	70		gravels			
		80		Mixed			
		90		gravels			
	965	100		yellow clay			
	900			Sticky			
		110					

PROJECT NAME	Agri Dev. Project, Narka		WELL NO.	2 (053/54)
AREA AND LOCATION	Bateshwar -			
ELEVATION	m	LATITUDE	LONGITUDE	
TOTAL DEPTH	122 ^{ku}	m	DRILLING RIG	YRD 500
DRILLING STARTED	20521015		DRILLED BY	Rajlat & Jitendra
WELL COMPLETED	2052101		LOGGED BY	S. JHA.

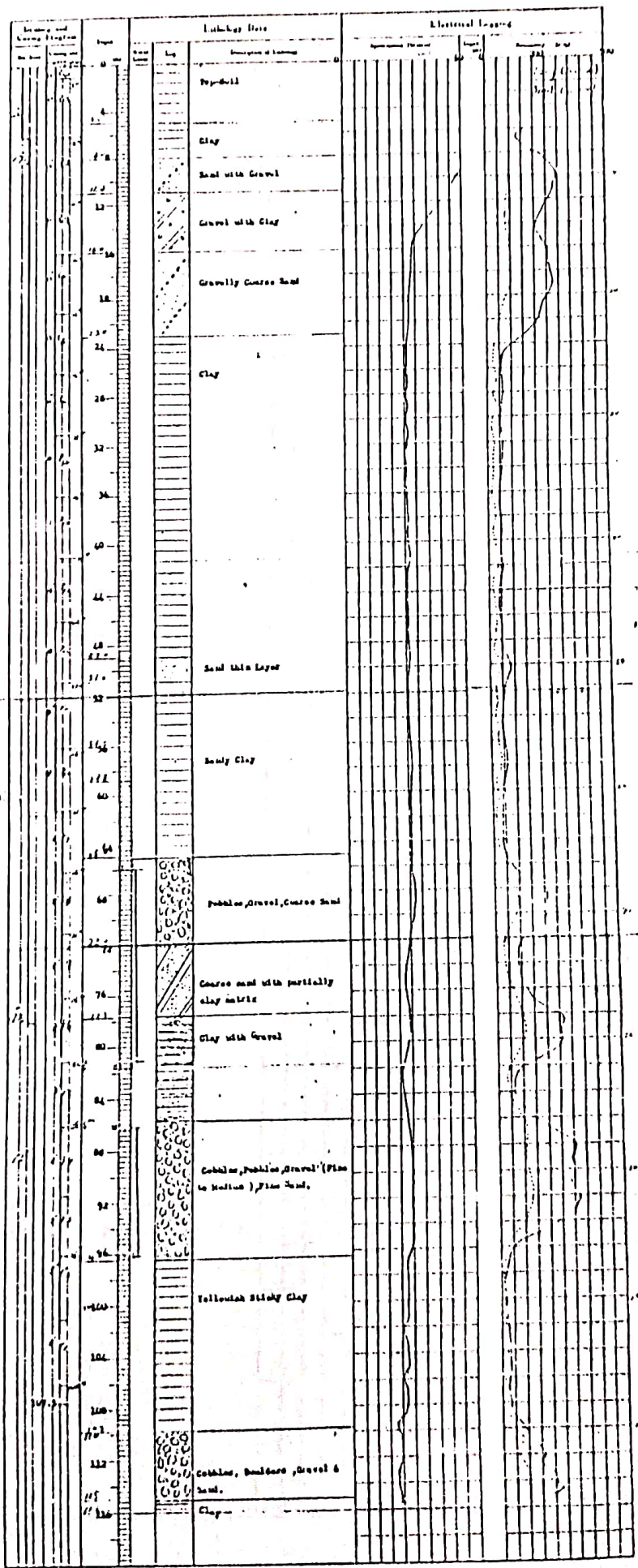
STATIC WATER LEVEL	- 36 ⁴	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	42 ^{ku}	m	CONDUCTIVITY	μS/cm
PUMPING RATE	1500	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



DATE AND LOCATION	1-14-1977	Latitude	Longitude
ELEVATION		Drilling Log	TD - 114
TOTAL DEPTH	107.5	Drilled by	James R. ...
LOGGING STARTED		Logged by	...
WELL COMPLETED	Feb. 1977		

Dis: -
20e/s

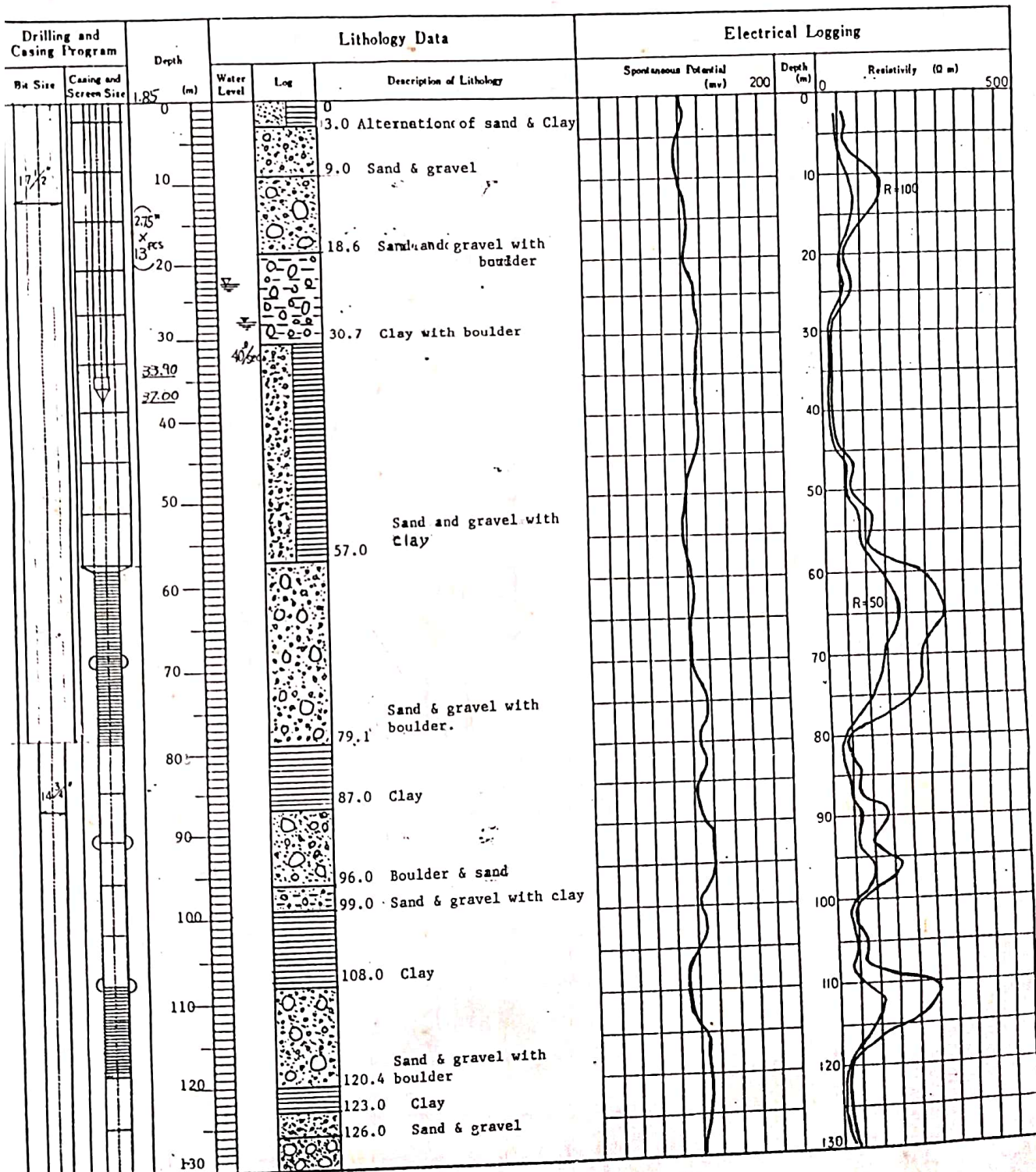
STATIC WATER LEVEL	-25.0	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	-25.0	CONDUCTIVITY	
LOGGING RATE	100 ft/hr		
SPECIFIC GRAVITY	1.20	TOTAL SOLIDS	

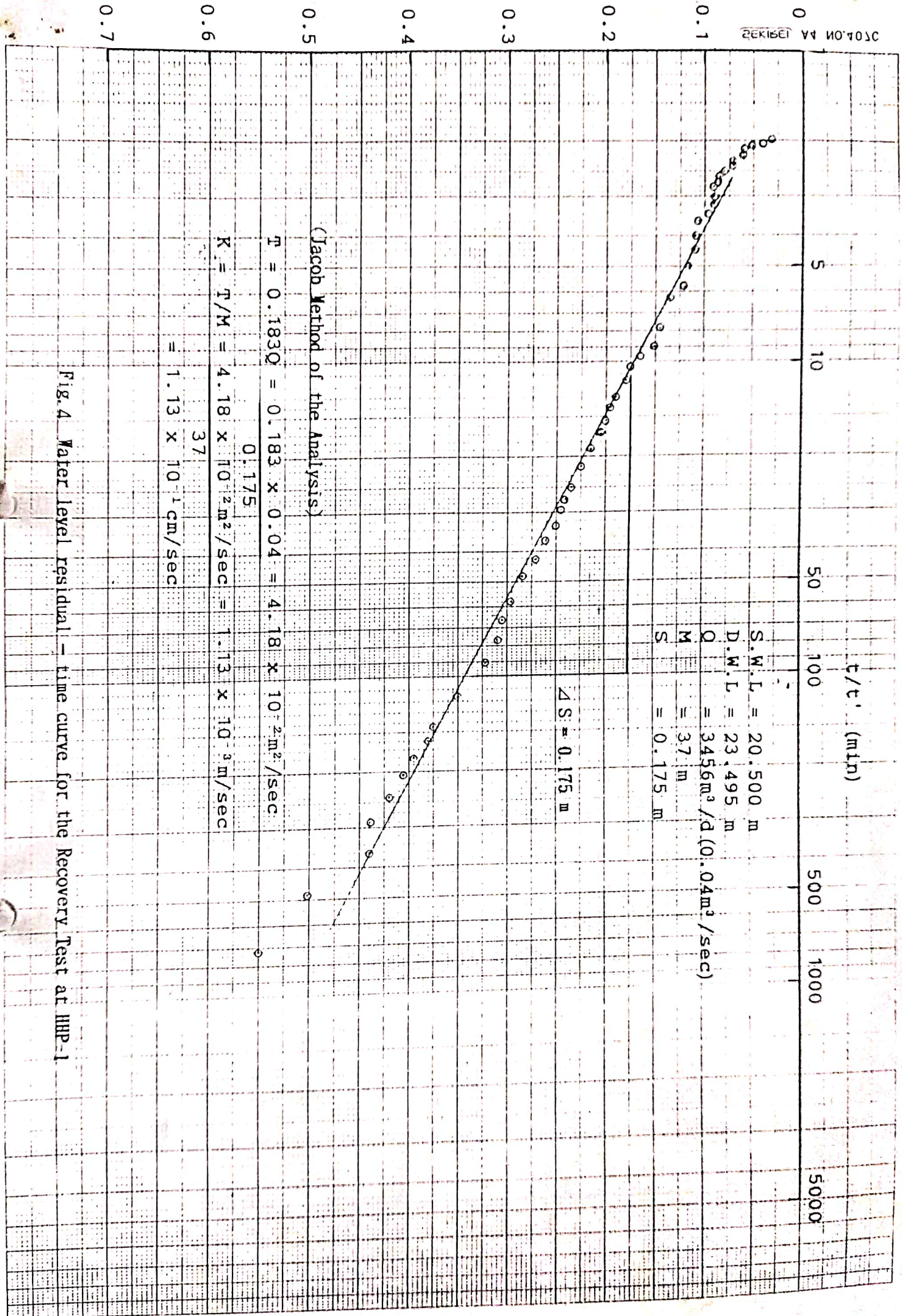


WELL LOG

PROJECT NAME The Terai Groundwater Development Project		WELL NO. HHP-2	
AREA AND LOCATION D-15 Block Hariharpur			
ELEVATION	102.45 m	DRILLING RIG	YRD-501R
TOTAL DEPTH	150 m	DRILLED BY	Makoto Hashimoto
DRILLING STARTED	23rd January, 1991	LOGGED BY	Mitsuro Uemura
WELL COMPLETED 3rd March, 1991			

STATIC WATER LEVEL	22.390 m	W.T.	25.5 °C
DYNAMIC WATER LEVEL	27.825 m	E.C.	169.8 $\mu\text{S/cm}$
PUMPING RATE	40 l/sec (3,456 m ³ /d)	pH	7.44
SPECIFIC CAPACITY	1,154 m ³ /d/m		





t/t' (min)

S.W.L = 20.500 m
 D.W.L = 23.495 m
 $Q = 3456 \text{ m}^3/d (0.04 \text{ m}^3/\text{sec})$
 $M = 37 \text{ m}$
 $S = 0.175 \text{ m}$

$\Delta S = 0.175 \text{ m}$

(Jacob Method of the Analysis)

$T = 0.183Q = 0.183 \times 0.04 = 4.18 \times 10^{-2} \text{ m}^2/\text{sec}$
 0.175
 $K = T/M = 4.18 \times 10^{-2} \text{ m}^2/\text{sec} = 1.13 \times 10^{-3} \text{ m}/\text{sec}$
 37
 $= 1.13 \times 10^{-1} \text{ cm}/\text{sec}$

Fig.4 Water level residual - time curve for the Recovery Test at HHP-1

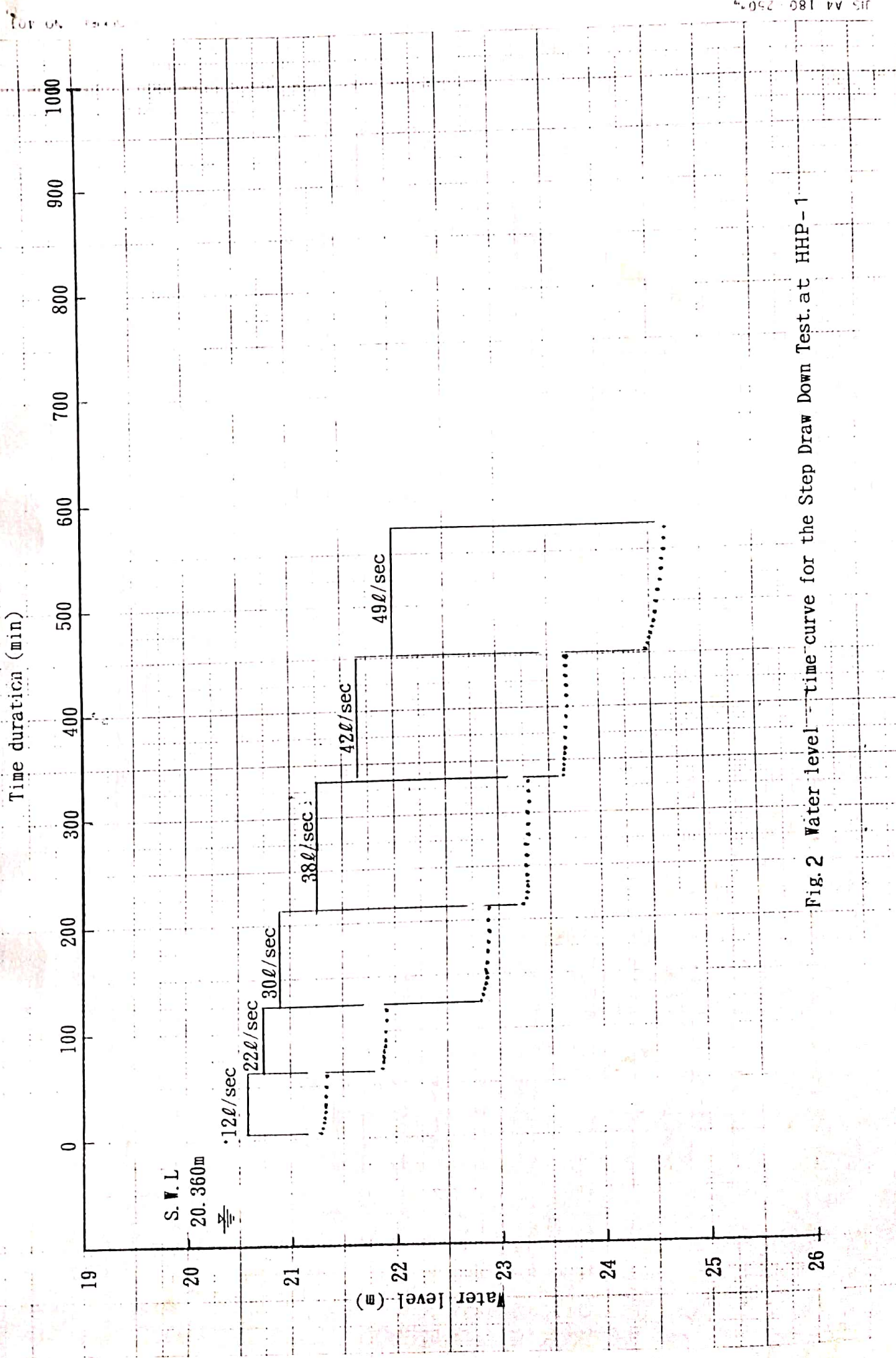


Fig. 2 Water level-time curve for the Step Draw Down Test at HHP-1

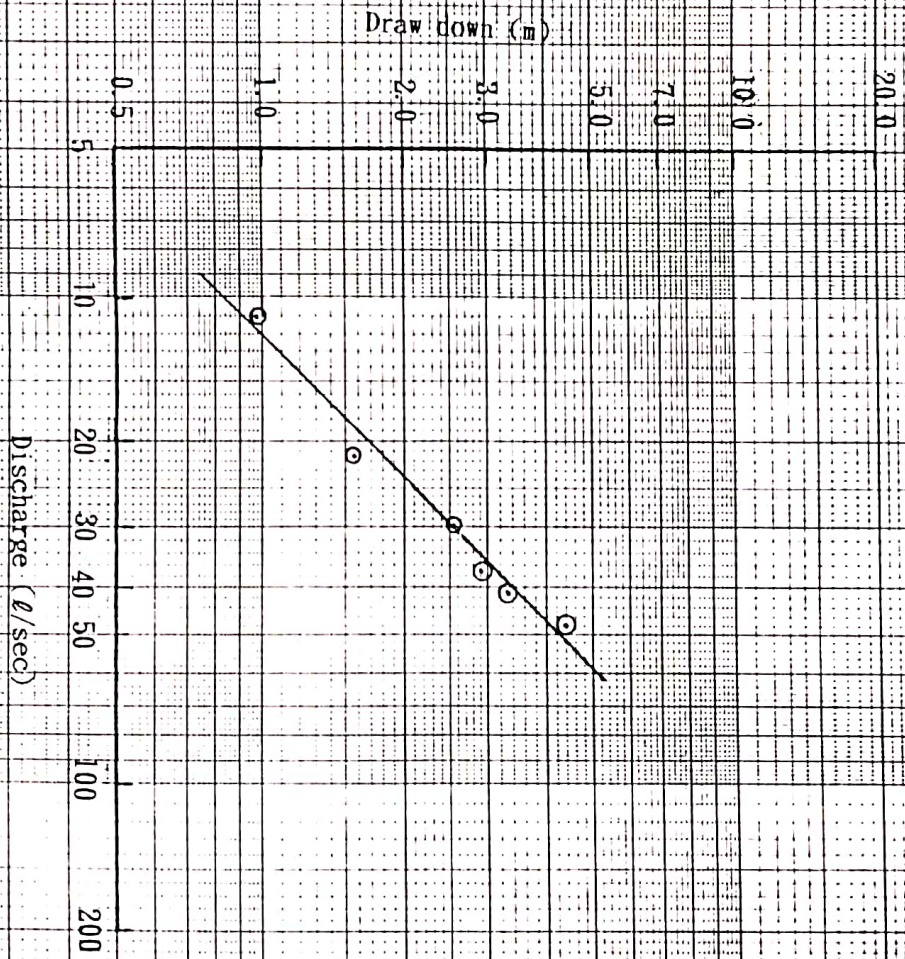
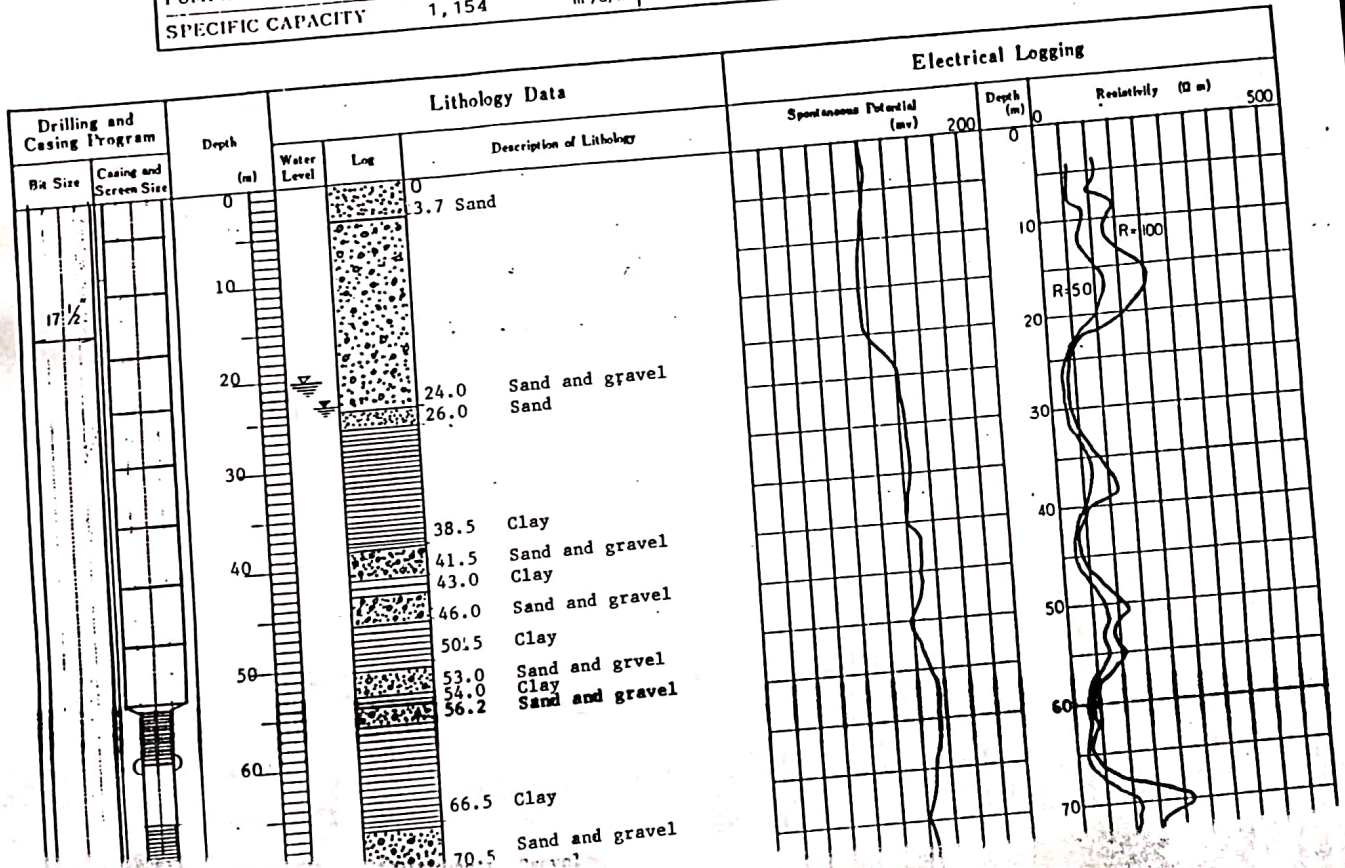


Fig. 1 The result of Step Draw Down Test at HHP 1.

WELL LOG

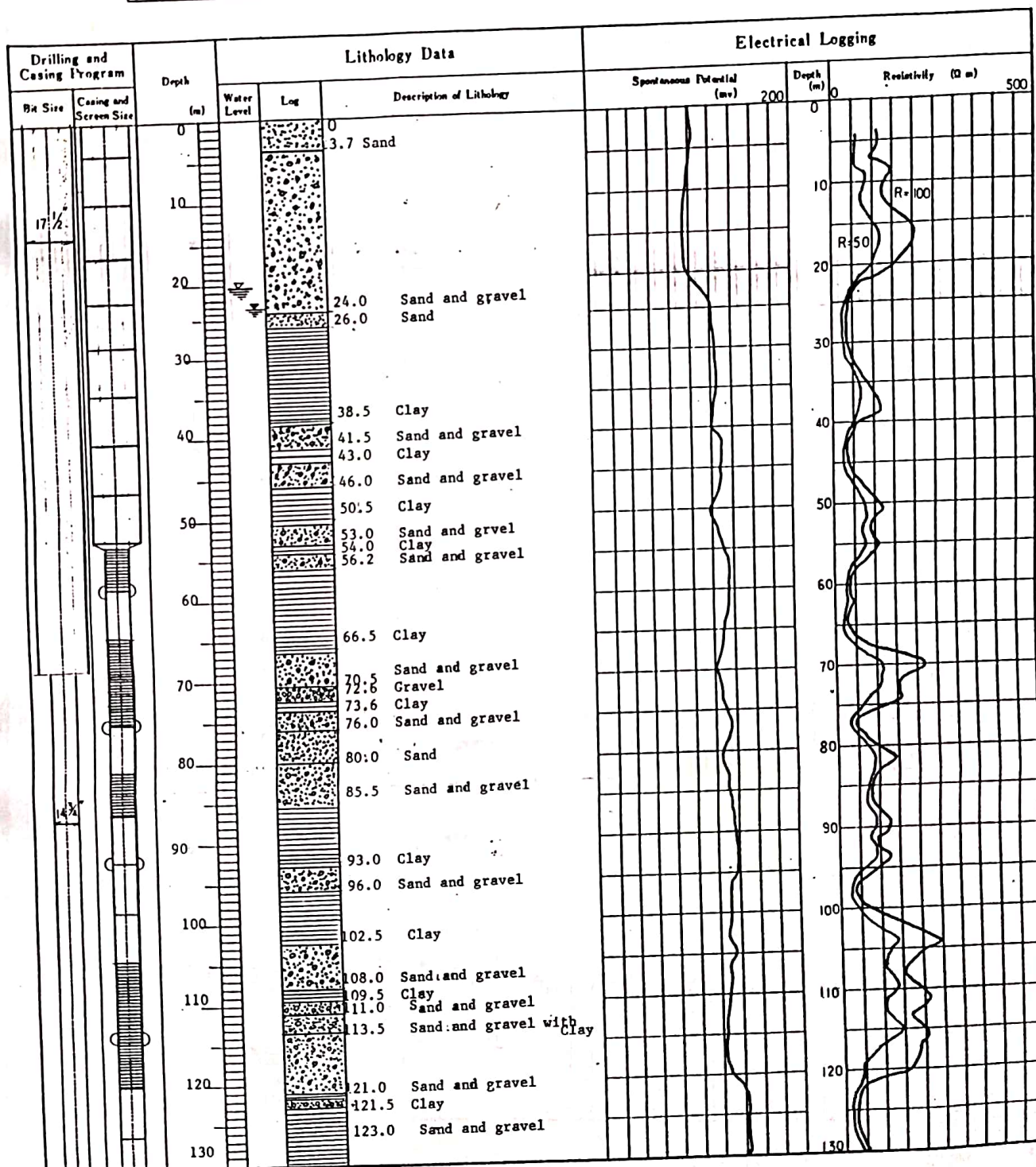
PROJECT NAME The Terai Groundwater Development Project			WELL NO. HHP-1	
AREA AND LOCATION	D-15 Block	Hariharpur	DRILLING RIG	YRD-501R
ELEVATION	102.13	m	DRILLED BY	Teruo Owada
TOTAL DEPTH	150	m	LOGGED BY	Mitsuro Uemura
DRILLING STARTED	23rd January, 1991			
WELL COMPLETED	8th March, 1991			
STATIC WATER LEVEL	20.500	m	W.T.	25.0 °C
DYNAMIC WATER LEVEL	23.495	m	E.C.	136.7 μS/cm
PUMPING RATE	40ℓ/sec	(3,456 ml/d)	pH	7.51
SPECIFIC CAPACITY	1,154	ml/d/m		



WELL LOG

PROJECT NAME The Terai Groundwater Development Project		WELL NO. HHP-1	
AREA AND LOCATION D-15 Block Hariharpur			
ELEVATION	102.13 m	DRILLING RIG	YRD-501R
TOTAL DEPTH	150 m	DRILLED BY	Teruo Owada
DRILLING STARTED	23rd January, 1991	LOGGED BY	Mitsuro Uemura
WELL COMPLETED	8th March, 1991		

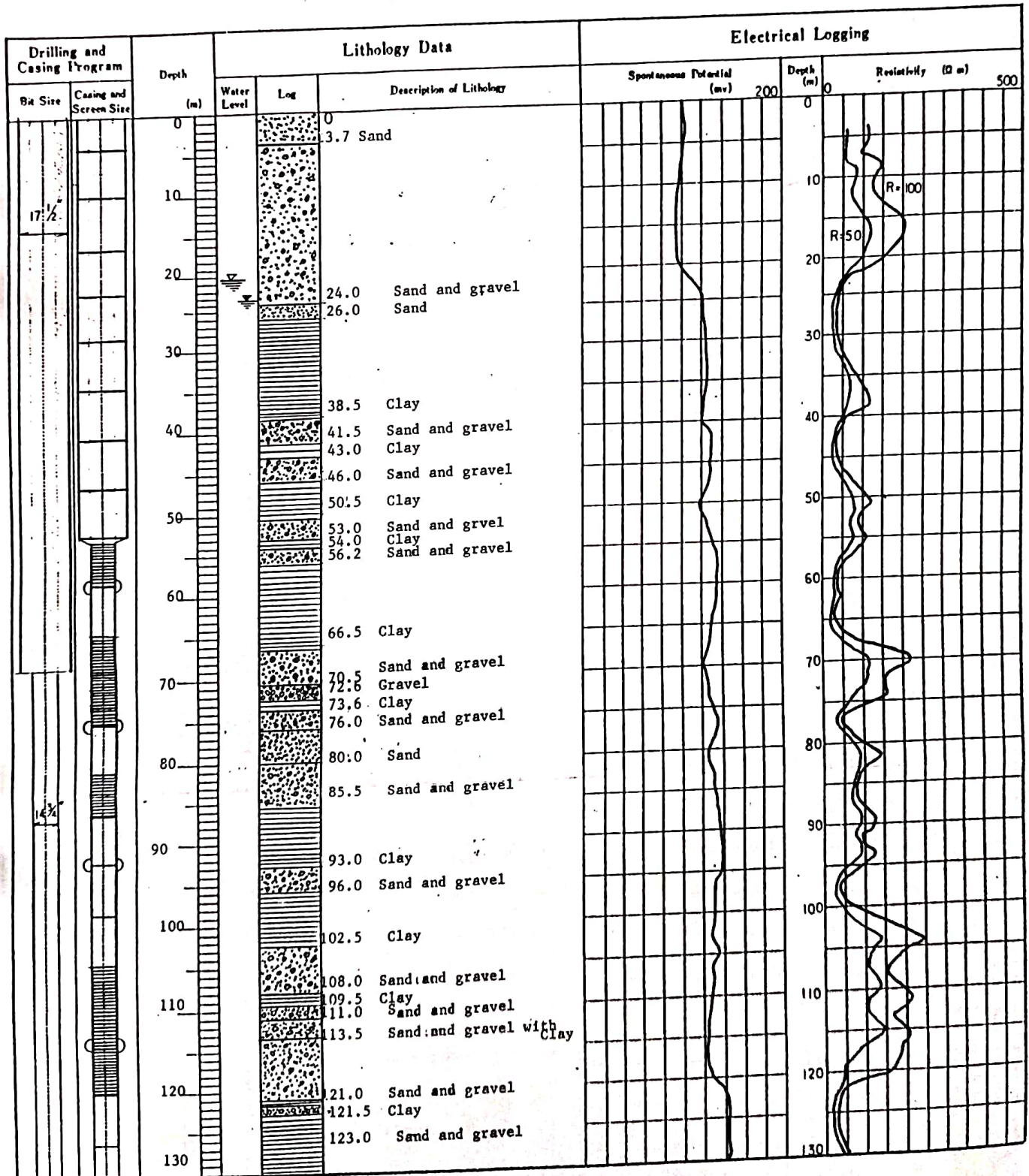
STATIC WATER LEVEL	20.500 m	W.T.	25.0 °C
DYNAMIC WATER LEVEL	23.495 m	E.C.	136.7 $\mu\text{S/cm}$
PUMPING RATE	40 l/sec (3,456 ml/d)	pH	7.51
SPECIFIC CAPACITY	1,154 ml/d/m		



WELL LOG

PROJECT NAME The Terai Groundwater Development Project			WELL NO. HHP-1	
AREA AND LOCATION		D-15 Block Hariharpur		
ELEVATION	102.13	m	DRILLING RIG	YRD-501R
TOTAL DEPTH	150	m	DRILLED BY	Teruo Owada
DRILLING STARTED	23rd January, 1991		LOGGED BY	Mitsuro Uemura
WELL COMPLETED	8th March, 1991			

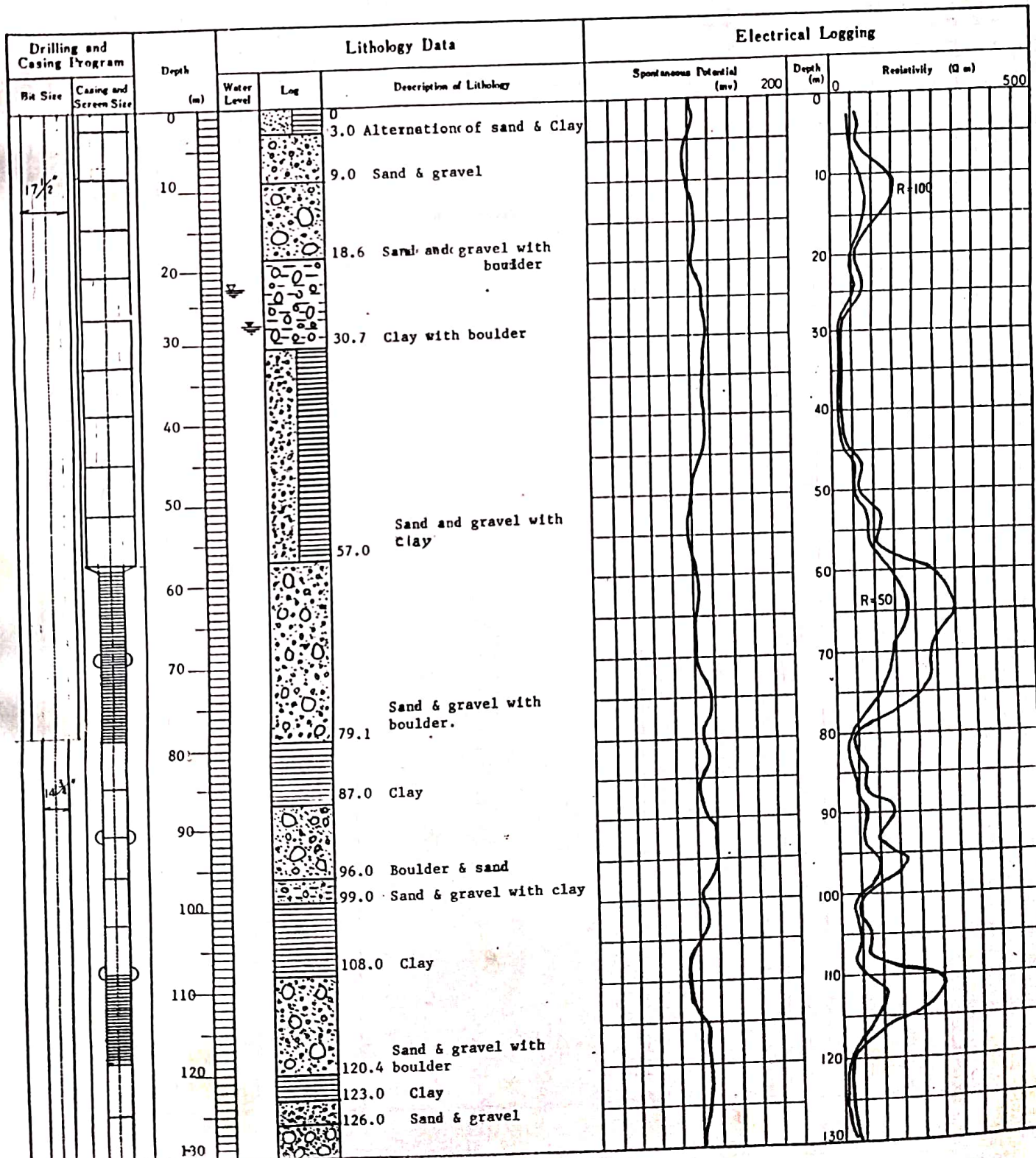
STATIC WATER LEVEL	20.500	m	W.T.	25.0	°C
DYNAMIC WATER LEVEL	23.495	m	E.C.	136.7	µS/cm
PUMPING RATE	40ℓ/sec	(3,456 m ³ /d)	pH	7.51	
SPECIFIC CAPACITY	1,154	m ³ /d/m			



WELL LOG

PROJECT NAME The Terai Groundwater Development Project		WELL NO. HHP-2	
AREA AND LOCATION D-15 Block Hariharpur			
ELEVATION	102.45 m	DRILLING RIG	YRD-501R
TOTAL DEPTH	150 m	DRILLED BY	Makoto Hashimoto
DRILLING STARTED	23rd January, 1991	LOGGED BY	Mitsuro Uemura
WELL COMPLETED 3rd March, 1991			






STATIC WATER LEVEL	22.390 m	W.T.	25.5 °C
DYNAMIC WATER LEVEL	27.825 m	E.C.	169.8 μS/cm
PUMPING RATE	40 l/sec (3,456 m ³ /d)	pH	7.44
SPECIFIC CAPACITY	1,154 m ³ /d/m		



WELL LOG

PROJECT NAME		WELL NO. <u>HHP-2</u>	
AREA AND LOCATION			
ELEVATION	m	DRILLING RIG	
TOTAL DEPTH	m	DRILLED BY	
DRILLING STARTED		LOGGED BY	
WELL COMPLETED			

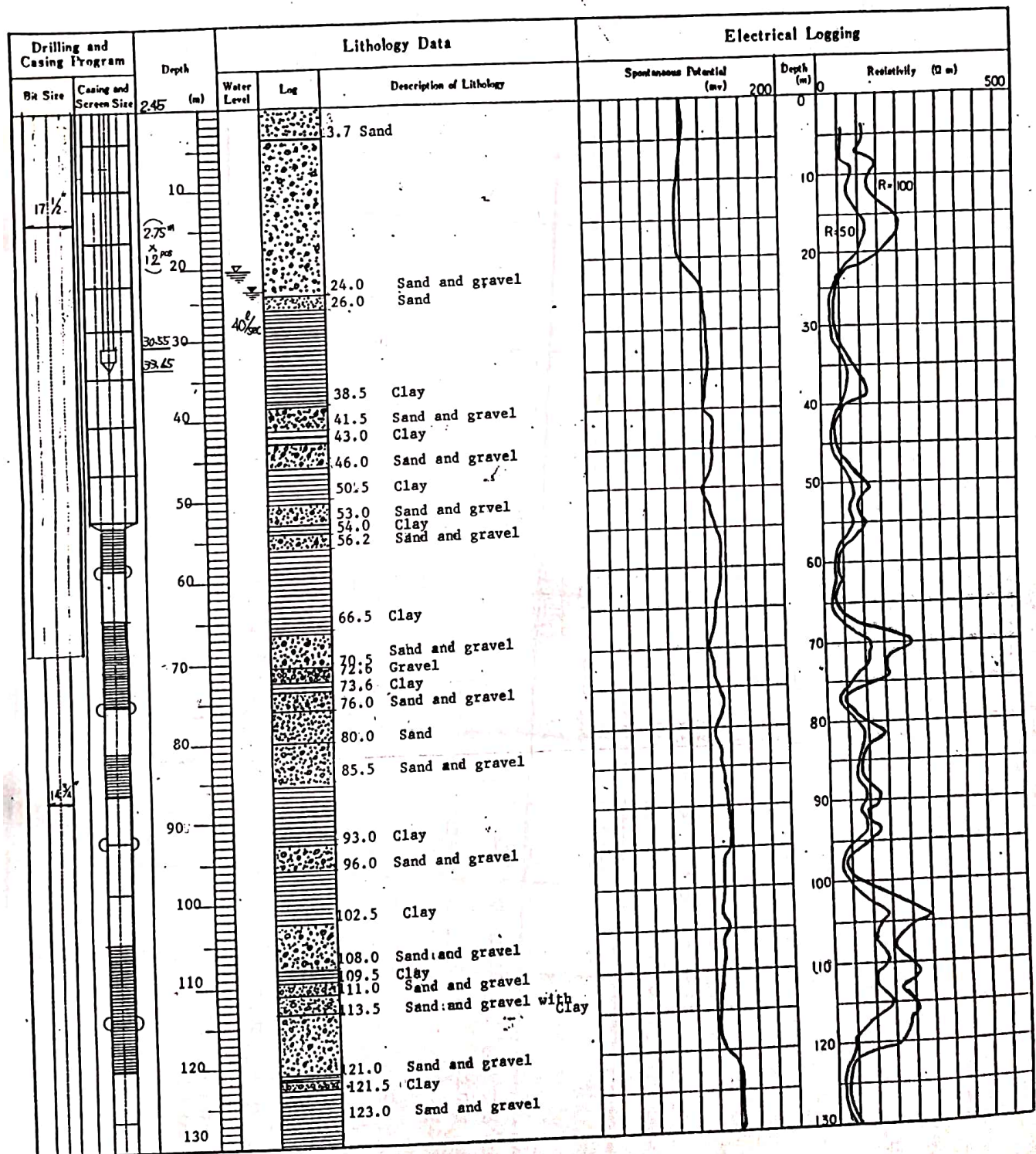
STATIC WATER LEVEL	m	W.T.	°C
DYNAMIC WATER LEVEL	m	E.C.	µS/cm
PUMPING RATE	ℓ/min (nl /d)	pH	
SPECIFIC CAPACITY	nl /d/m		

Drilling and Casing Program		Lithology Data			Electrical Logging			
Bta Size	Casing and Screen Size	Depth (m)	Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		132.5			132.5 Sand & gravel with boulder boulder		130	
		140			146.0 Clay		140	
		150			150.0 Sand & gravel with boulder.		150	
		155						
		160						
		165						
		170						
		175						
		180						
		185						
		190						
		195						
		200						
		205						
		210						
		215						
		220						
		225						
		230						
		235						
		240						
		245						
		250						
		255						
		260						
		265						
		270						
		275						
		280						
		285						
		290						
		295						
		300						

WELL LOG

PROJECT NAME The Terai Groundwater Development Project			WELL NO. HHP-1	
AREA AND LOCATION		D-15 Block Hariharpur		
ELEVATION	102.13	m	DRILLING RIG	YRD-501R
TOTAL DEPTH	150	m	DRILLED BY	Teruo Owada
DRILLING STARTED	23rd January, 1991		LOGGED BY	Mitsuro Uemura
WELL COMPLETED	8th March, 1991			

STATIC WATER LEVEL	20.500	m	W.T.	25.0	°C
DYNAMIC WATER LEVEL	23.495	m	E.C.	136.7	µS/cm
PUMPING RATE	40 l/sec	(3,456 m ³ /d)	pH	7.51	
SPECIFIC CAPACITY	1,154	m ³ /d/m			



Installation of Okamoto Pump

Site Name	S.W.L (m)	Pump Depth (m)	Discharge		Draw Down (m)	D.W.L (m)
			m ³ /min	ℓ/sec		
HHP-1	20.50	30.55	3.5	58	4.9	25.40
			3.8	63	5.2	25.70
HHP-2	22.39	33.90	3.3	55		
NTJ-2	40.86	50.83	1.9	32.0	2.1	42.96
			2.6	43.3	3.0	43.86
			2.45	40.8	2.85	43.71
			2.55	42.5	2.95	43.81

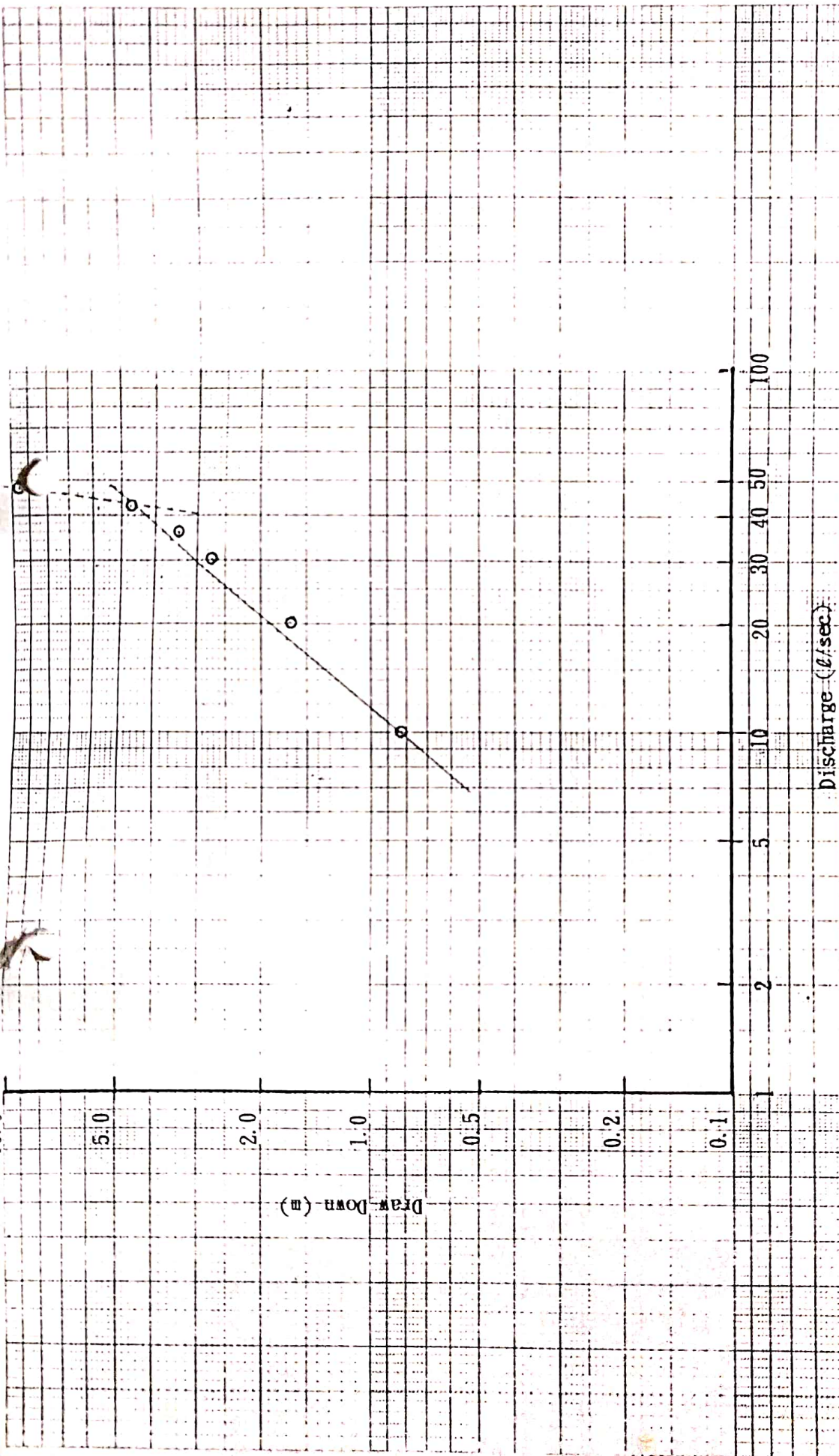


Fig. 1 The result of step draw down test at HHP-2

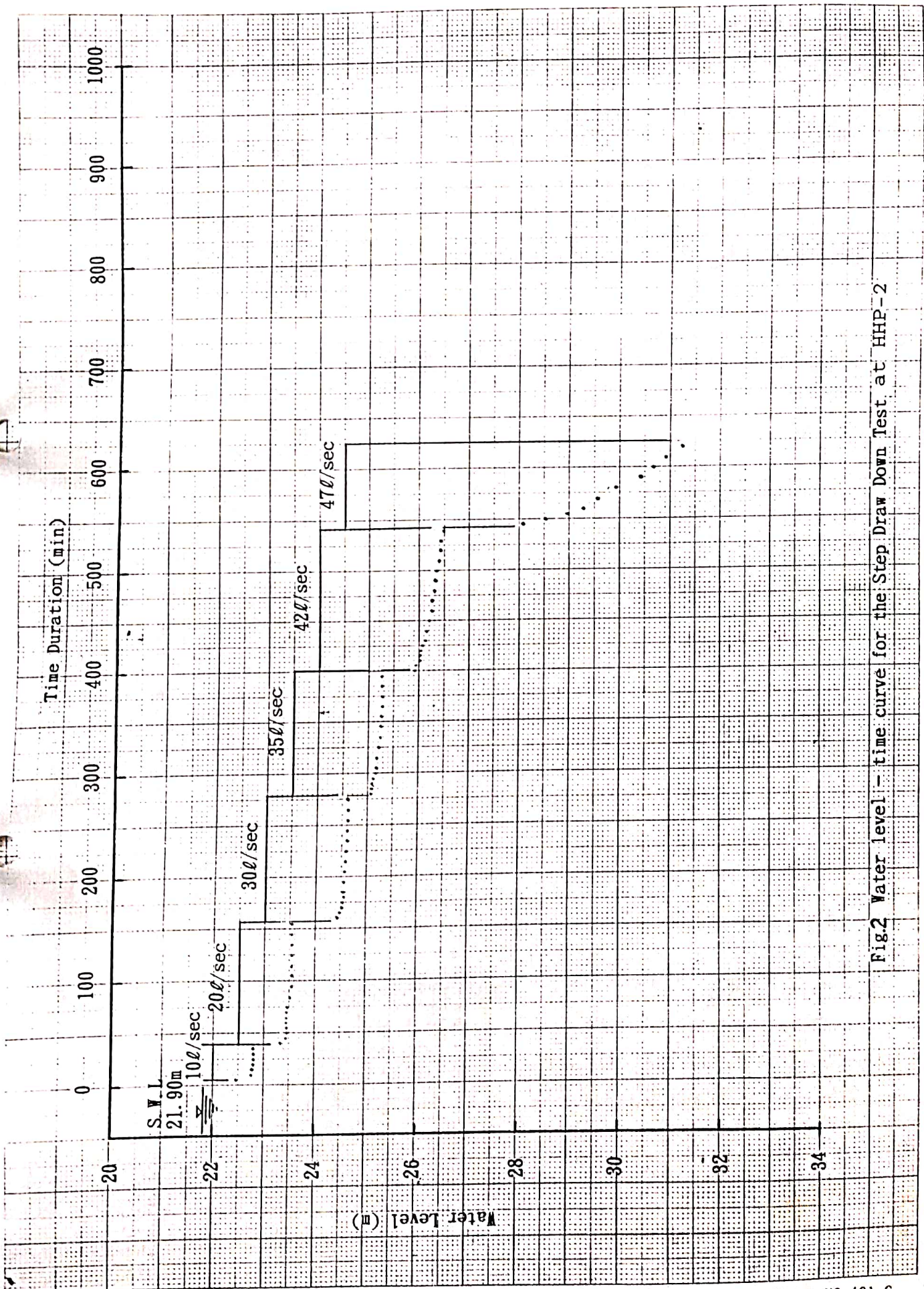


Fig.2 Water level - time curve for the Step Draw Down Test at HHP - 2

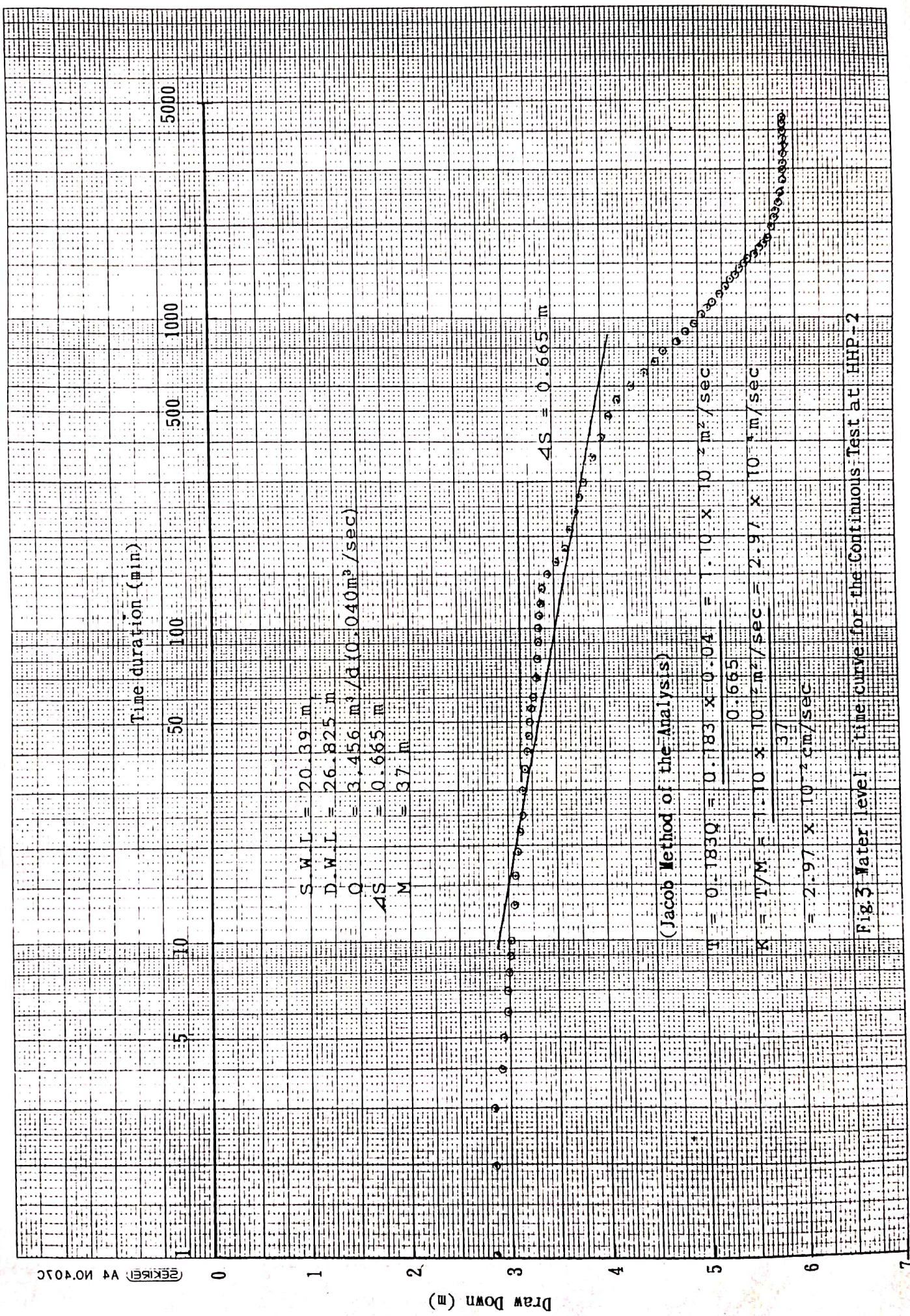


Fig. 3 Water level - Time curve for the Continuous Test at HHP-2

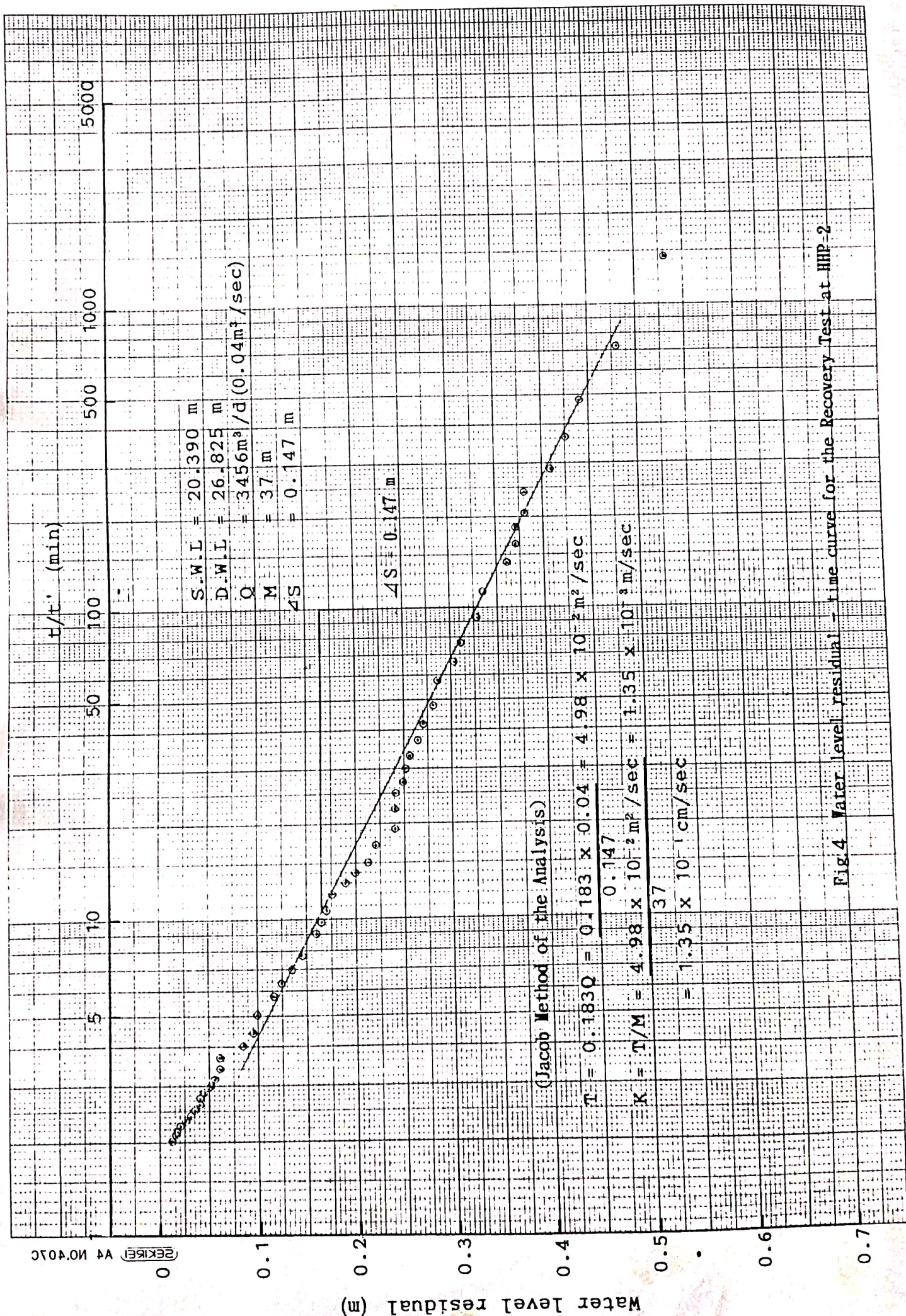
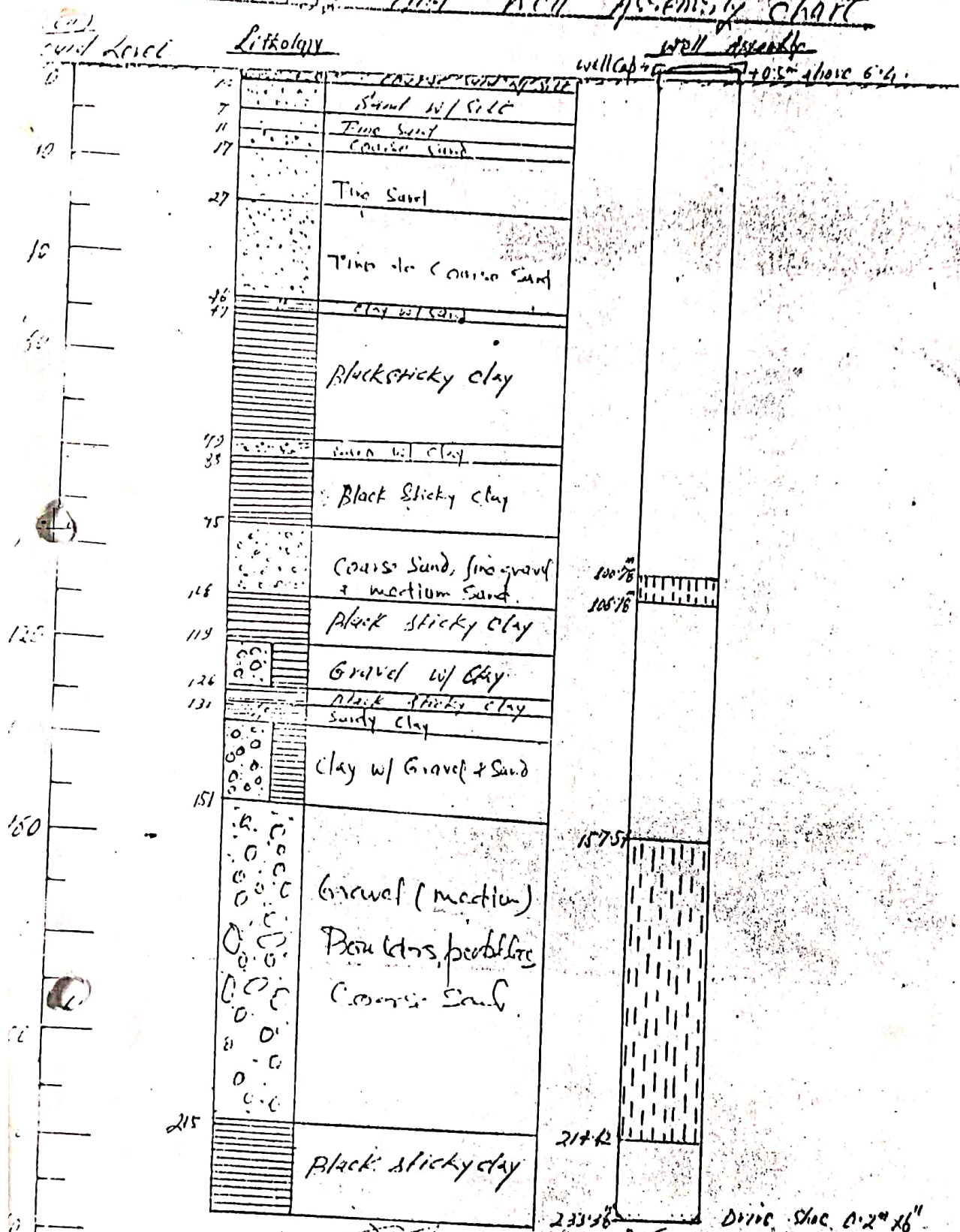


Fig.4 Water level residual - time curve for the Recovery Test at HHP-2

Lithology and well assembly chart

Date: 20/6/17

18.10.
J-26



234M Well
 215M 217M 233M
 20/6/17
 J-26
 Drisc. No. 0.2" x 6"

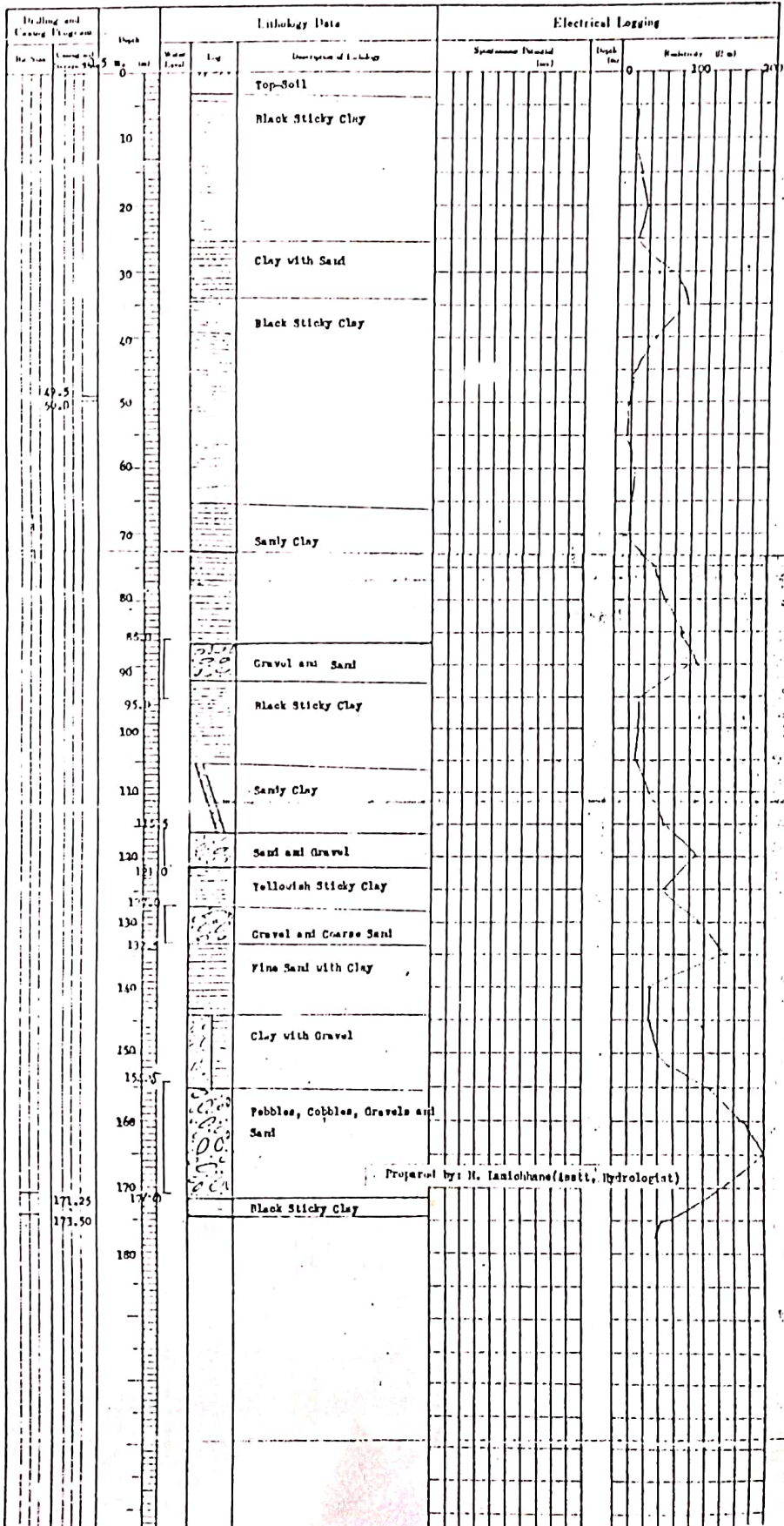
WELL LOG

Well No: W-14

PROJECT NAME: J.A.D.P.		Size: 12" x 8"	
AREA AND LOCATION: HADHSE KAVAR, Jamkrur-Town Panchayat			
ELEVATION: _____	LATITUDE: _____	LONGITUDE: _____	
TOTAL DEPTH: 173.75	DRIILLING DUG: TUD-500		
DRIILLING STARTED: _____	DRIILLED BY: Mr. N. Mahalingam		
WELL COMPLETED: Feb. 1976	LOGGED BY: Mr. M. Laxmichandran		

STATIC WATER LEVEL: +0.50	WATER TEMPERATURE: _____
DYNAMIC WATER LEVEL: _____	CONDUCTIVITY: _____
PUMPING RATE: 3000.0 l/min (m ³ /d)	pH: _____
SPECIFIC CAPACITY: _____ m ³ /d/m	TOTAL HARDNESS: _____

5045



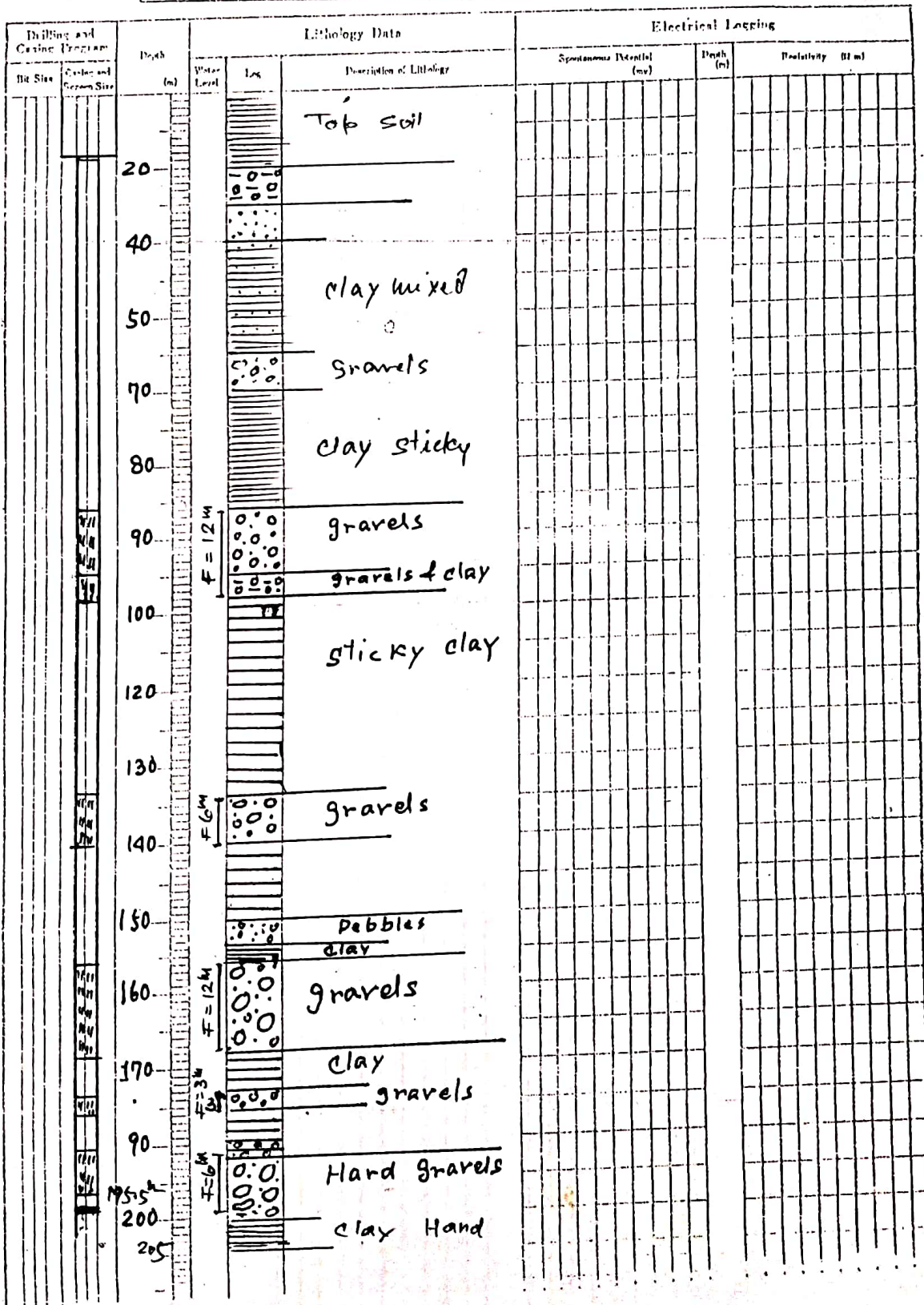
Prepared by: M. Laxmichandran (Asst. Hydrologist)

WELL LOG

Data No. 053/54

PROJECT NAME A D P J , Narkathij		WELL NO. 1	
AREA AND LOCATION Ganga-Sagar , JMK			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	205^m (1955)	DRILLING RIG	J-A 214 YRD
DRILLING STARTED	20531411	DRILLED BY	
WELL COMPLETED	516	LOGGED BY	

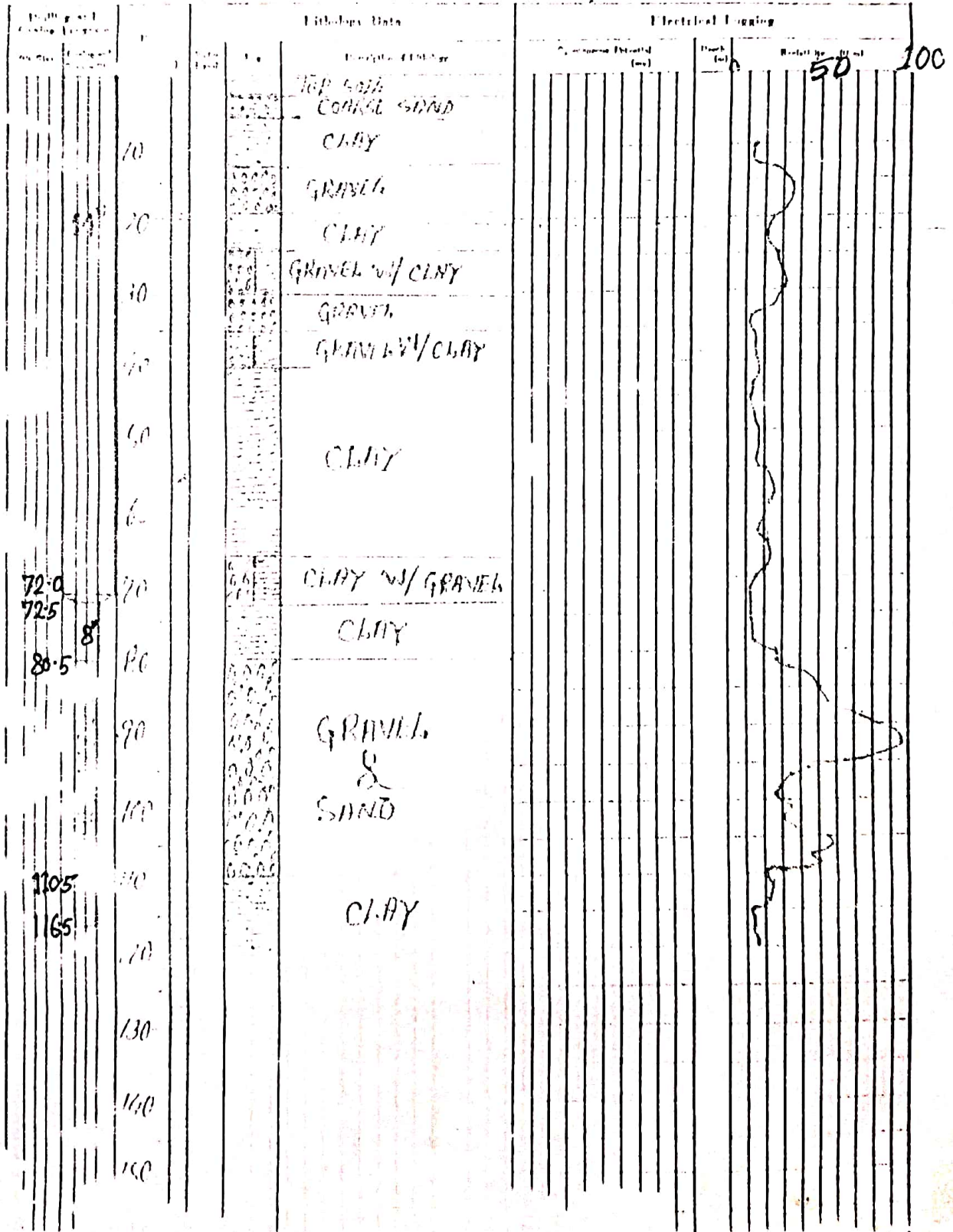
STATIC WATER LEVEL	+ 5^m	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	12^m	m	CONDUCTIVITY	µS/cm
PUMPING RATE	2400	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m		TOTAL HARDNESS	



Agri dev. project, Josephus Habesha
WELL LOG Data No. _____

PROJECT NO. Agri dev. project	WELL NO.
WATER LOCATION HARIWAN-3	SARLAHI
ELEVATION	LATITUDE
WELL DEPTH 116.5	BOILING DEG 101
WELL COMPLETED 048-6-17	DRILLED BY R.B.P.C
	LOGGED BY M. LOMICHANE

WELL DIAMETER 70.22	WATER TEMPERATURE
DEPTH WATER LEVEL 54.0	CONDUCTIVITY $\mu S/cm$
WELL DATE 1960	pH
ELECTRIC CABLE	TOTAL HARDNESS



Agriculture Development Project, Jawahar, Haryana
LOG Data No. _____

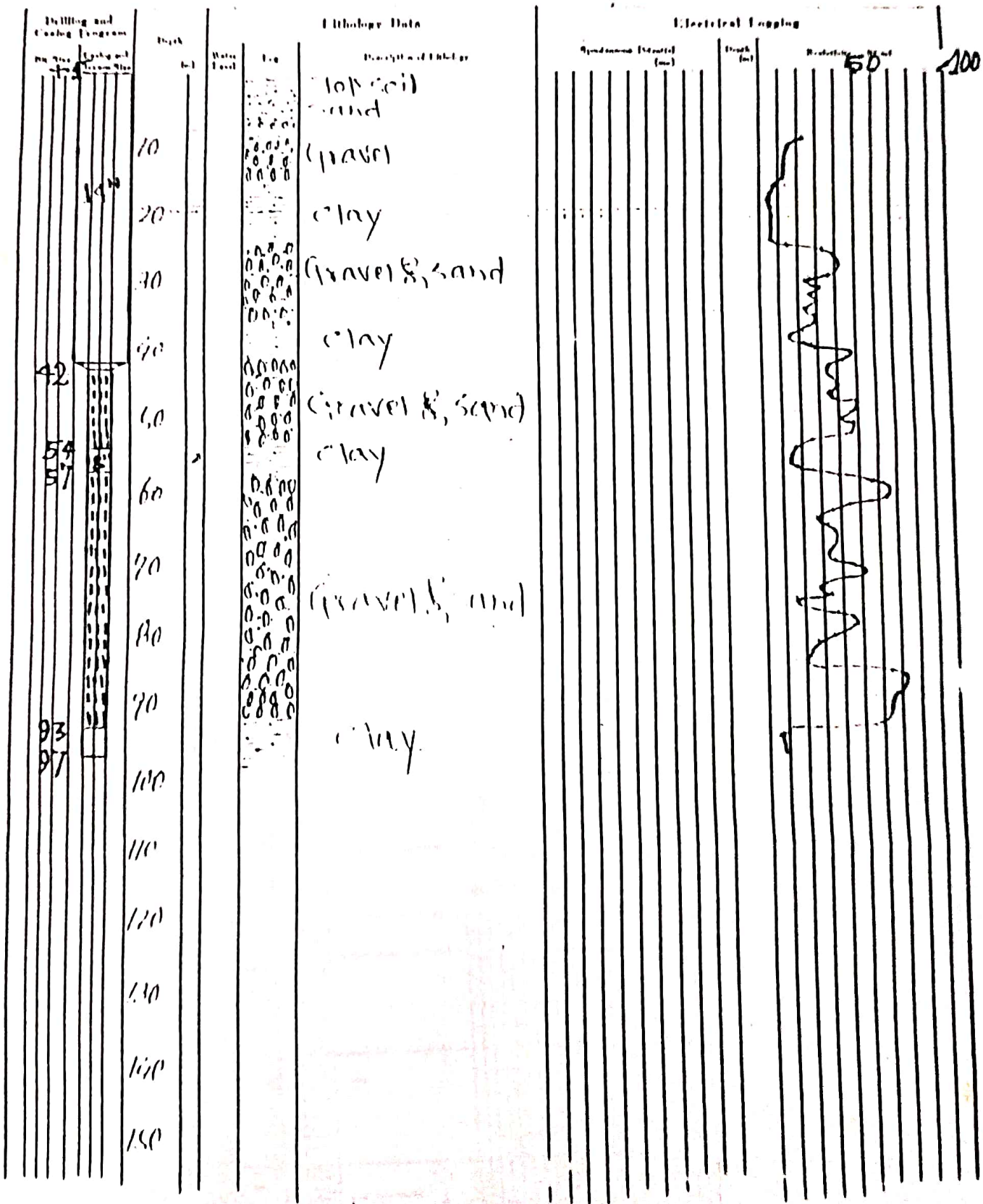
PROJECT NAME: Agri. dev Project	WELL NO. _____
AREA AND LOCATION: Horticulture farm Nawaipur, Sarlahi	
ELEVATION: _____	LATITUDE: _____
WELL DEPTH: 96.5	SPILLING RIG: YR11 50.1
DRILLING STARTED: 2020-10-8	DRILLED BY: R. B. K. C.
WELL COMPLETED: 2020-11-15	LOGGED BY: R. B. K. C.

STAND WATER LEVEL: 24.5	WATER TEMPERATURE: _____
GROUND WATER LEVEL: 27.5	CONDUCTIVITY: _____
FORMER PUMP: 2400	TOTAL HARDNESS: _____
WELL BORE CAPACITY: _____	

Well and Logging Program		Lithology Data		Electrical Logging		
Depth (m)	Log	Resistivity (ohm-cm)	Depth (m)	Resistivity (ohm-cm)	Depth (m)	Resistivity (ohm-cm)
0			59		100	125
10	Clay	8000				
15	Gravel	8000				
20	Clay	8000				
30	Gravel	8000				
40	Gravel & Sand	8000				
50		8000				
60		8000				
70		8000				
80		8000				
90		8000				
100	Clay	8000				
110		8000				
120		8000				
130		8000				
140		8000				
150		8000				

PROJECT NAME: Agri. Ext. Project	WELL NO.: (2nd)
AREA AND LOCATION: Netragung - Sarlahi	LATITUDE: _____
ELEVATION: _____	LONGITUDE: _____
TOTAL DEPTH: 97.5	DRILLING NO: TRD 500
DRILLING STARTED: 2051-9-6	DRILLED BY: Ran. Bdr. K.C.
WELL COMPLETED: 2051-5-5	LOGGED BY: R.B. K.C.

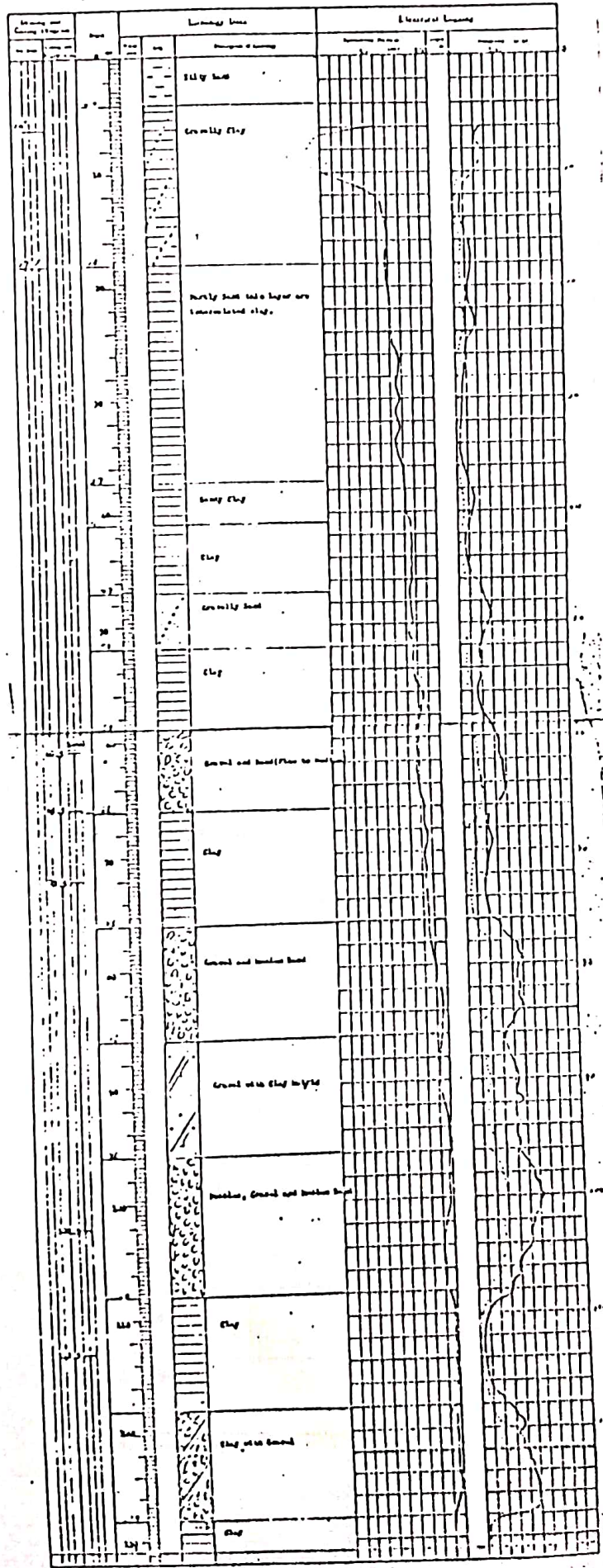
STATIC WATER LEVEL: 20.0	WATER TEMPERATURE: _____
DYNAMIC WATER LEVEL: 30.0	CONDUCTIVITY: _____ $\mu\text{mhos/cm}$
DRILLING RATE: 550 L/HR	pH: _____
SPECIAL CAPACITY: _____	TOTAL HARDNESS: _____



150

N-28
 Godar, 1436

Project Name: [Blank]		Date: [Blank]	
Location: [Blank]		Latitude: [Blank]	
Total Area (sq. ft.): [Blank]		Number of [Blank]	
Number of [Blank]		Number of [Blank]	
Date of [Blank]		Number of [Blank]	
[Blank]		Total number of [Blank]	

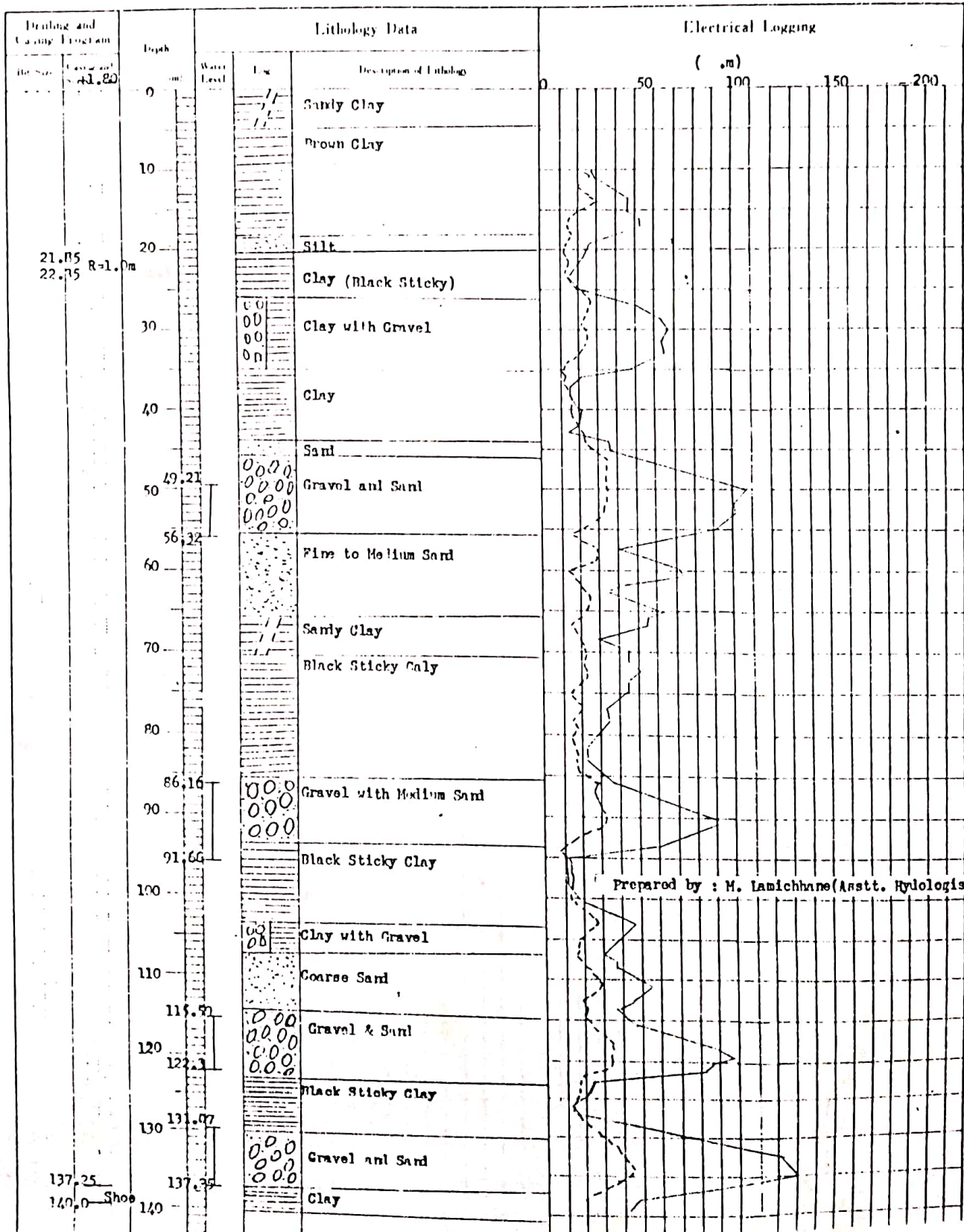


WELL LOG

Well No: J-16

PROJECT NAME J.A.D.P		Size: 12" / 8"	
AREA AND LOCATION FISRIES DEVELOPMENT CENTRE, Jamkpur-dham			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	140.0	DRILLING RIG TBI 72 "A"	
DRILLING STARTED	16 Jan., 1979	DRILLED BY Mr. S. Lamichhane & Mr. P. Mukhiya	
WELL COMPLETED	16 Feb., 1979	LOGGED BY Mr. M. Lamichhane	

STATIC WATER LEVEL	+1,500	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-25,500	m	CONDUCTIVITY	μS/cm
PUMPING RATE	2730.0	l/min (m ³ /d)	pH	-
SPECIFIC CAPACITY	-	m ³ /d m	TOTAL HARDNESS	-



WELL LOG

Well No: P-37

PROJECT NAME T.I.A.P.S.P.		Size: 1 1/2" / 3"	
AREA AND LOCATION BHAKTIPUR, Sarlahi-District, Jajarkpur-Zone			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 112.5	m	DRILLING RIG	TRD 500
DRILLING STARTED		DRILLED BY	N. Mukhiya
WELL COMPLETED	Apr., 1937	LOGGED BY	P. Mukhiya

STATIC WATER LEVEL	-1.5	m	WATER TEMPERATURE	C
DYNAMIC WATER LEVEL	-22.0	m	CONDUCTIVITY	μmhos/cm
LOADING RATE	3600.0	kg/min (m ³ /d)	pH	
STORING CAPACITY		m ³ /d.m	TOTAL HARDNESS	

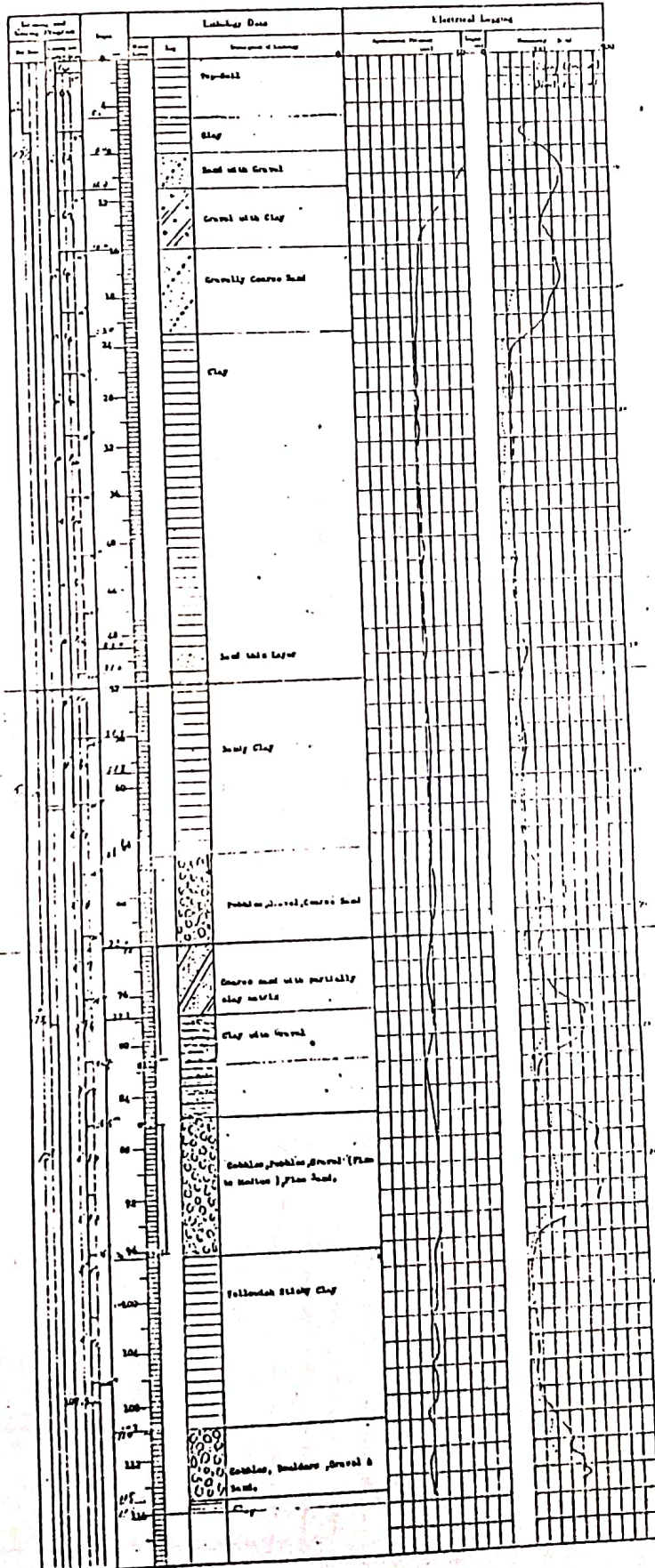
Depth and Casing Program	Depth m	Water Level	Lithology Data	Electrical Logging			
				Spontaneous Potential (mV)		Resistivity (ohm m)	Capacity (μf/cm)
0	0		Top-Soil				
	10		Fine Sand				
	20		Grit & Coarse Sand				
	30		Gravel & Sand				
	40		Clay with Gravel				
	50		Black Sticky Clay				
54.5	54.5	R=54.0	Gravel with Coarse Sand				
60.0	60.0		Clay with Boulders				
68.0	68.0		Gravel & Sand				
76.75	76.75		Yellowish-Black Sticky Clay				
82.75	82.75		Pebbles, Gravel, Coarse Sand				
91.5	91.5		Black Sticky Clay				
97.5	97.5		Pebbles, Gravel and Sand (Fine)				
106.5	106.5		Black Sticky Clay				
112.5	112.5						
	120						

WELL LOGS

Well Name: N-38

PROJECT NAME	14444444	DATE	5/14/77
WELL NO.	14444444	WELL TYPE	WATER
LOCATION		SECTION	
TOTAL DEPTH	107.5	WELL NO.	14444444
LOGGING STARTED		LOGGED BY	J. S. S.
WELL COMPLETED	5.14.77	LOGGED BY	J. S. S.

STATIC WATER LEVEL	-24.0	WATER TEMPERATURE	5
DYNAMIC WATER LEVEL	-28.0	CONDUCTIVITY	220
PUMPING RATE	100.0	PH	7.0
SPECIFIC CAPACITY	0.10	TOTAL HEADLOSS	

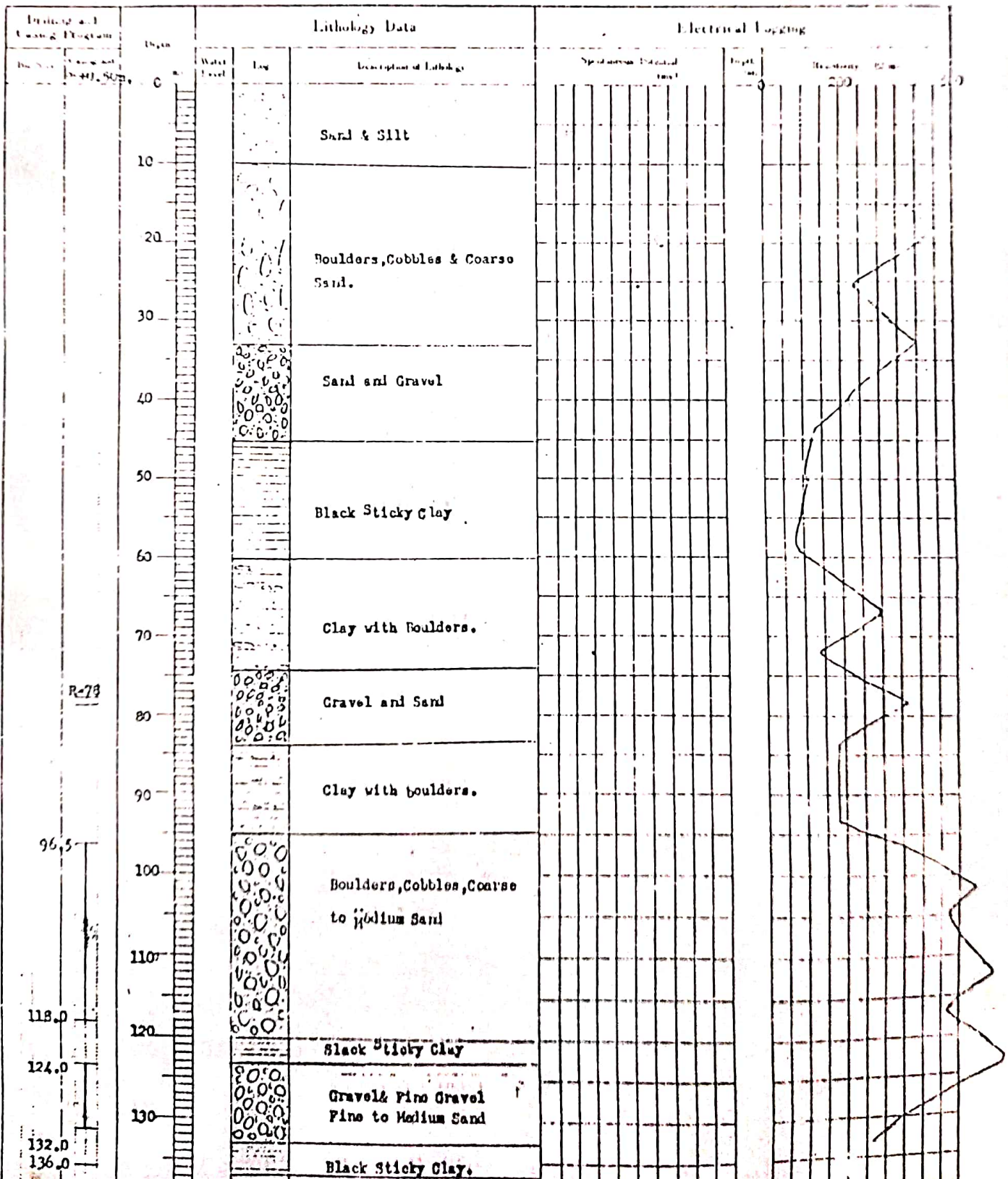


WELL LOG

Well Diagram N-39

PROJECT NAME T.I.A.T.S.P.		Size: 14"/8"	
AREA AND LOCATION HARTYON, Sarlahi-District, Jajarkpur-Corn.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	136.0	DRIILLING RIG	TTD 500
DRIILLING STARTED		DRIILED BY Sudesh Rana	
WELL COMPLETED Mar. 1977		LOGGED BY P. Mukhiya	

STATIC WATER LEVEL	-51.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-59.0	m	CONDUCTIVITY	µmhos/cm
PUMPING RATE	1500.0	l/min	pH	pH
SPECIFIC CAPACITY	m ³ /d	m	TOTAL HARDNESS	mg/l

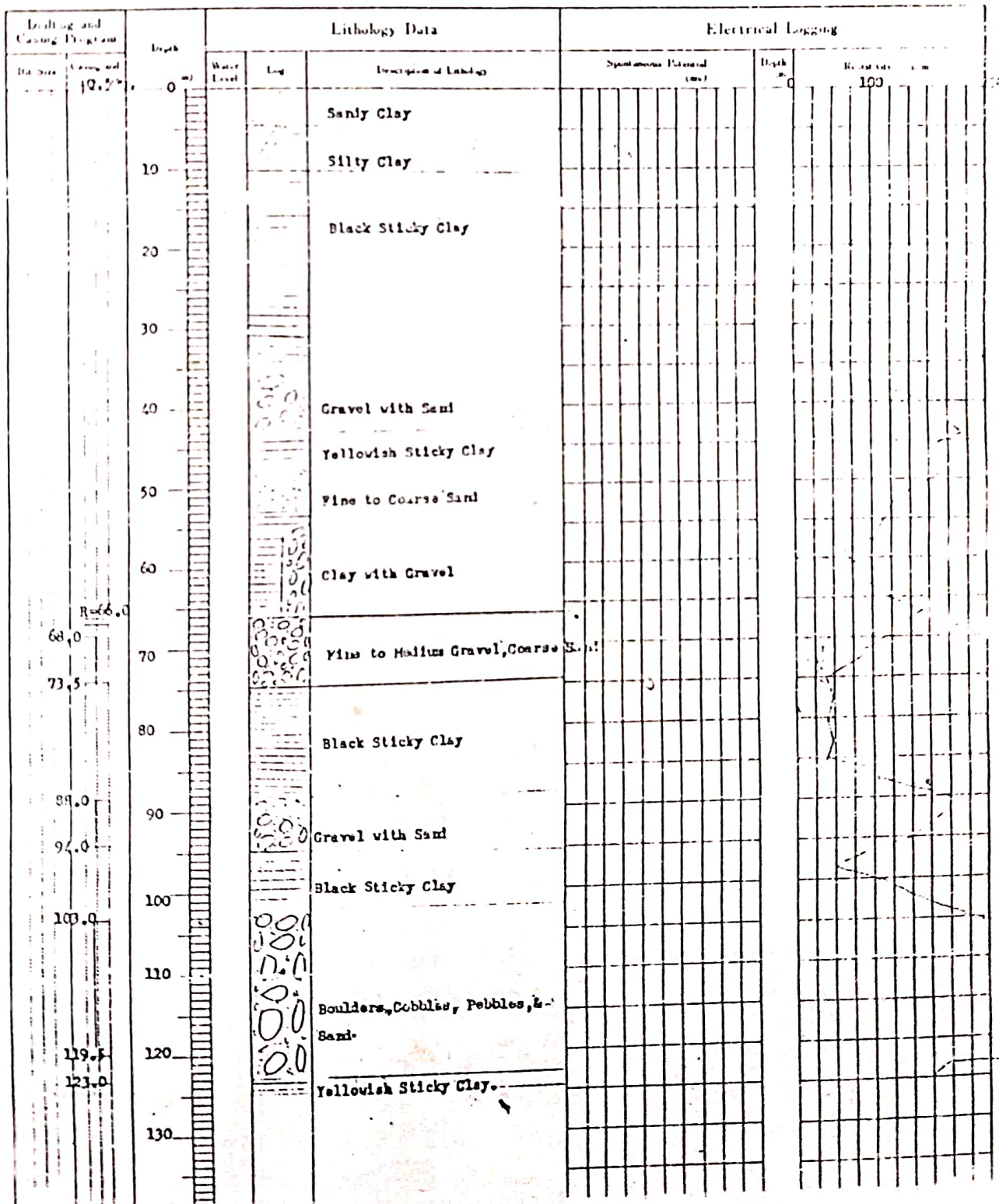


WELL LOG

Well No: H-70

PROJECT NAME <u>T.J.S.P.</u>		Size: <u>1.2"/2"</u>	
AREA AND LOCATION <u>BATECHORE, Dharmaha-District, Jamkpur-Zone.</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <u>123.0</u>	m	DRILLING RIG	<u>T-500</u>
DRILLING STARTED		DRILLED BY	<u>Suresh Rana</u>
WELL COMPLETED <u>May., 1987</u>		LOGGED BY	<u>P. Mishra</u>

STATIC WATER LEVEL <u>-42.0</u>	m	WATER TEMPERATURE	
DYNAMIC WATER LEVEL <u>-54.0</u>	m	CONDUCTIVITY	$\mu\text{S/cm}$
PUMPING RATE <u>1500.0</u>	liters/min (m^3/d)	pH	
SPECIFIC CAPACITY	$\text{m}^3/\text{d}/\text{m}$	TOTAL HARDNESS	



JADP

STWs : Number of Pumps Sold
in the year 1985/86

Reassessment of the groundwater development strategy for irrigation in the Terai:
Standard District Data Sheet

Development Region	District	87/88	88/89	89/90	90/91	91/92	92/93
		Par West	Kanchanpur Kailali Sub-total				
Mid West	Bardia Banke Surkhet* Dangdeukhuri* Sub-total						
West	Kapilvastu Rupandehi Nawalparasi Sub-total						
Central	Chitwan* Parsa Bara Rautahat Sarlahi Mahottari Dhanusha Sub-total	16 3 10	8 - 14	4 - 4	4 - 4	- - -	- - -
East	Siraha Saptari Sunsari Morang Jhapa Udayapur**	1	1	1	-	-	-
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

Failed STWs: JADP. in the year.

Reassessment of the groundwater development strategy for irrigation in the Terai:
Standard District Data Sheet

Development Region	District						
		87/88	88/89	89/90	90/91	91/92	92/93
Far West	Kanchanpur						
	Kailali						1
	Sub-total						
Mid West	Bardia				—		
	Banke				17	—	
	Surkhet*						
	Dangdenkhuri*						
	Sub-total						
West	Kapilvastu						
	Rupandehi						
	Navalparasi						
	Sub-total						
Central	Chitwan*						
	Parsa						
	Bara						
	Rautahat						
	Sarlahi	30	1	2	3	8	6
	Mahottari	12	—	4	1	1	8
	Dhanusha	7	6	8	2	3	22
	Sub-total						
East	Siraha	22	18	5	—	1	5
	Saptari						
	Sunsari						
	Morang	—	—	—	—	4	8
	Jhapa						
	Udayapur**						
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

Number of ~~free~~ Successful STWs, JADP. Drilled in that year.

Reassessment of the groundwater development strategy for irrigation in the Terai:
Standard District Data Sheet

Development Region	District	Financial Years.					
		87/88	88/89	89/90	90/91	91/92	92/93
Far West	Kanchanpur						
	Kailali						
	Sub-total						
Mid West	Bardia				18	-	
	Banke				21		
	Surkhet*						
	Dangdeukhuri*						
	Sub-total						
West	Kapilvastu						
	Rupandehi						
	Nawalparasi						
	Sub-total						
Central	Chitwan*						
	Parsa						
	Bara						
	Rautahat						
	Sarlahi	178	14	38	44	44	36
	Mahottari	62	10	13	16	22	37
	Dhanusha	42	9	37	19	43	148
	Sub-total						
East	Siraha	86	76	2	-	11	24
	Saptari						
	Sunsari						
	Morang					13	18
	Jhapa	-	-	-	-		
	Udayapur**						
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

JADP DTWS : Installed in the year 445

Reassessment of the groundwater development strategy for irrigation in the Terai:
Standard District Data Sheet

Development Region	District	Financial Year					
		87/88	88/89	89/90	90/91	91/92	92/93
Far West	Kanchanpur						
	Kailali						
	Sub-total						
Mid West	Bardia						
	Banke						
	Surkhet*						
	Dangdeukhuri*						
	Sub-total						
West	Kapilvastu						
	Rupandehi						
	Nawalparasi						
	Sub-total						
Central	Chitwan*						
	Parsa						
	Bara						
	Bautahat						
	Sarlahi						
	Mahottari						
	Dhanusha						
	Sub-total						
East	Siraha						
	Saptari						
	Sunsari						
	Morang						
	Jhapa						
	Udayapur**						
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

545

JADP DTWs : Total DTWs in operation
for irrigation in the year.

Reassessment of the groundwater development strategy for irrigation in the Terai:
Standard District Data Sheet

Development Region	District						
		87/88	88/89	89/90	90/91	91/92	92/93
Far West	Kanchanpur						
	Kailali						
	Sub-total						
Mid West	Bardia						
	Banke						
	Surkhet*						
	Dangdeukhuri*						
	Sub-total						
West	Kapilvastu						
	Rupandehi						
	Nawalparasi						
	Sub-total						
Central	Chitwan*						
	Parsa						
	Bara						
	Rautahat						
	Sarlahi						
	Mahottari						
	Dhanusha						
	Sub-total						
East	Siraha						
	Saptari						
	Sunsari						
	Morang						
	Jhapa						
	Udayapur**						
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

GWRDB Exploration DTWS* Dilled in the year. 193

Reassessment of the groundwater development strategy for irrigation in the Terai:
Standard District Data Sheet

Development Region	District	044/88	045	046	047	048	049
		87/88	88/89	89/90	90/91	91/92	92/93
Far West	Kanchanpur						
	Kailali						
	Sub-total						
Mid West	Bardia						
	Banke						
	Surkhet*						
	Dangdeukhuri*						
	Sub-total						
West	Kapilvastu						
	Rupandehi						
	Nawalparasi						
	Sub-total						
Central	Chitwan*						
	Parsa						
	Bara						
(Bire)	Katohat						
	Sarlahi (Bire)						
Total 45	Mahottari 26	10	2	4	3		(19)
	Dhanusha						
	Sub-total						
East	Siraha ^{up to 045} 12	16	12 failure				
	Saptari 3	11	operated				
	Sunsari						
	Morang						
	Jhapa**						
	Udayapur**						
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

includes production DTWS installed by Mahottari GWIP.
Show separately for GWRDB and JICA programmes.

$$\begin{array}{r}
 93 \\
 50 \\
 \hline
 43
 \end{array}$$

50/51

49/50

48/49

47/48

46/47

45/46

44/45

43/44

93/94

92/93

91/92

~~89/90~~ 90/91

~~88/89~~ 89/90

~~87/88~~ ~~88/89~~

~~86/87~~ ~~87/88~~

~~85/86~~ ~~86/87~~

Mahuttan

040 - 5

041 - 10

042 - ~~5~~

043 - 6

25

14

49

Total Number of GWDB Exploration / Test ²⁴³
 DWS selected for Irrigation.

Reassessment of the groundwater development strategy for irrigation in the Terai:
 Standard District Data Sheet

Development Region	District	87/88	88/89	89/90	90/91	91/92	92/93
		Far West					
Far West	Kanchanpur						
	Kailali						
	Sub-total						
Mid West	Bardia						
	Banke						
	Surkhet*						
	Dangdeukhuri*						
	Sub-total						
West	Kapilvastu						
	Rupandehi						
	Nawalparasi						
	Sub-total						
Central	Chitwan*						
	Parsa						
	Bara						
	Rautahat						
	Sarlahi						
	Mahottari	4	5	5			
	Dhanusha						
	Sub-total						
East	Siraha 12						
	Saptari 3						
	Sunsari						
	Morang						
	Jhapa						
	Udayapur**						
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

Total Number of GWDB Exploration / Test DWS being operated for Irrigation in the year.

Reassessment of the groundwater development strategy for irrigation in the Terai:

Standard District Data Sheet

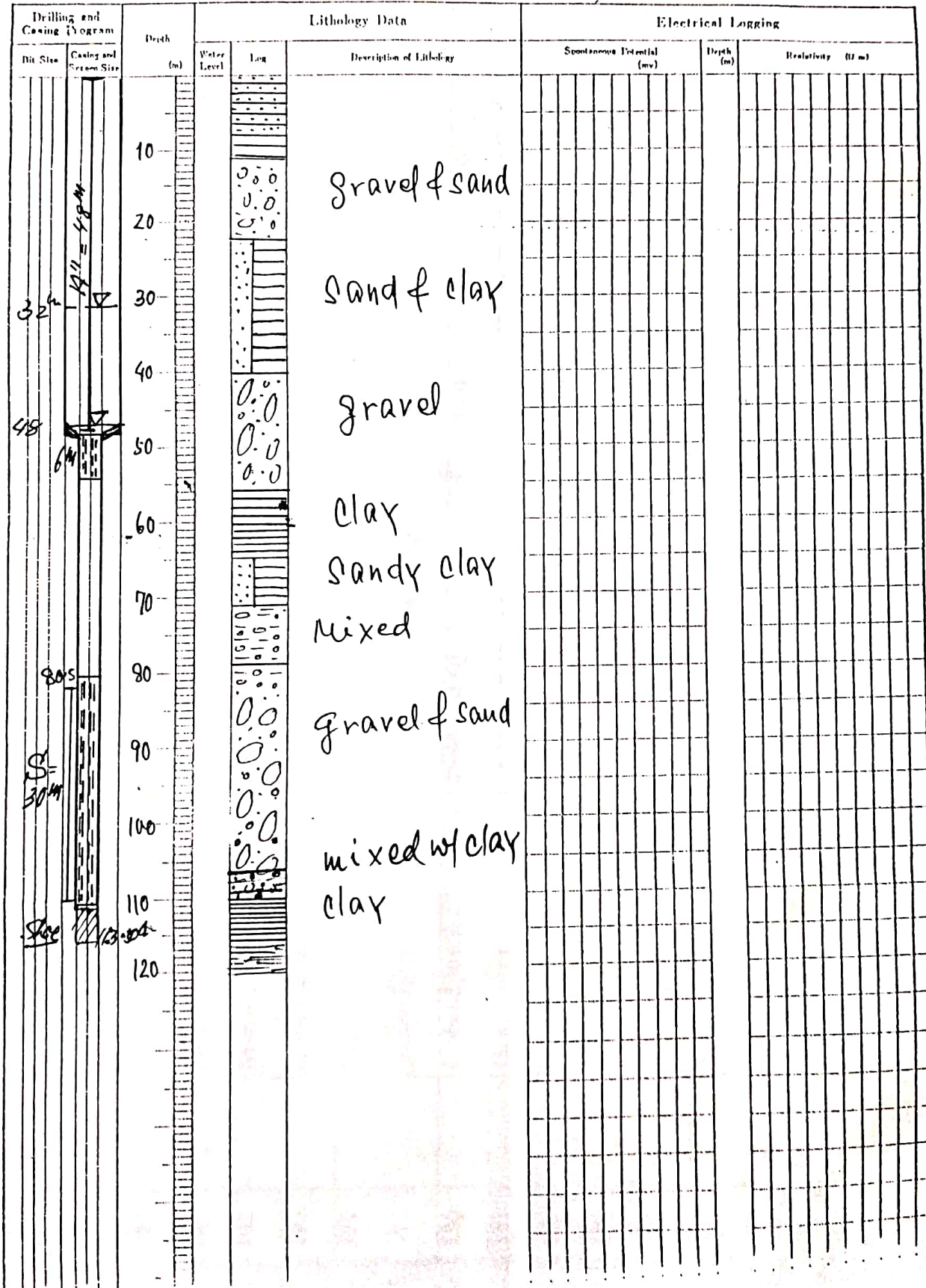
Development Region	District						
		87/88	88/89	89/90	90/91	91/92	92/93
Far West	Kanchanpur						
	Kailali						
	Sub-total						
Mid West	Bardia						
	Banke						
	Surkhet*						
	Dangdeukhuri*						
	Sub-total						
West	Kapilvastu						
	Rupandehi						
	Nawalparasi						
	Sub-total						
Central	Chitwan*						
	Parsa						
	Bara						
	Rautahat						
	Sarlahi						
	Mahottari	5	5	5			
	Dhanusha						
	Sub-total						
East	Siraha 12						
	Saptari 3						
	Sunsari						
	Morang						
	Jhapa						
	Udayapur**						
Total Terai							

* Inner Terai Valley

** Small area of Terai land outside Study Area; included for completeness

PROJECT NAME	Agri. Dev. Project		WELL NO.	4 (051/52)
AREA AND LOCATION	GURUDHAM, LAIPUR VDC			
ELEVATION	m	LATITUDE	LONGITUDE	
TOTAL DEPTH	110.50M	m	DRILLING RIG	YRD500 (214)
DRILLING STARTED	2051-	-	DRILLED BY	Jitendra & Rajar
WELL COMPLETED	2051-	-	LOGGED BY	Satyendra Jha

STATIC WATER LEVEL	32M	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	48M	m	CONDUCTIVITY	μS/cm
PUMPING RATE	1200l/min	(m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



SIRAIIA DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)		Discharge (l/sec.)	Housing (M)	Remarks
							P.W.L. (M)				
186.	N-23 No. 1	Mirchैया ✓	14"x8"	140.0	April 1986	24.75	-12.0	-54.0	5.0	60.0	
187.	N-41 No. 2	Mirchैया ✓	14"x8"	101.0	March 1987	42.0	-15.0	-25.0	30.0	60.0	
188.	N-42 No. 3	Mirchैया	14"x8"	167.5 ✓	April 1987	36.0	+0.5	-20.0	40.0	36.0	
189.		Khirauna	14"x8"	174.50 ✓	F.Y. 052/53	35 l/s	-12.0	-30.0	38.0	42.0	
190.		Parariya (Pirorban)	14"x8"	114.5		36.0	-6.0	25.0	45.0	36.0	
191.		Parariya (Laxminiya)	14"x8"	132.5		36.0	+5	20.0	45.0	36.0	
192.		Madad 1	14"x8"	163.5 ✓		30.0	-21.0	-35.0	25.0	48.0	
193.		Gobindpur 3	14"x8"	96.5	Oct. 1995	24.0	22.0	42.0	20.0	42.0	
194.		Gobindpur 5	14"x8"	120.5		36.0	-23.0	-35.0	30.0	48.0	
195.		Gobindpur 6	14"x8"	112.5	Jan. 1996	36.0	-20.0	-35.0	35.0	48.0	
196.		Gobindpur 7	14"x8"	99.50		36.0	-17.0	34.0	30.0	48.0	
197.		Gobindpur 1	14"x8"	117.50	March 1996	36.0	-1.50	-15.0	40.0	36.0	
198.		Belha	14"x8"	210.0 ✓	June 1996	24.0	-22.0	35.0	20.0		
199.		Chainpur	8"x8"	110.0		36.0	-32.0	-48.0	20.0	48.0	
200.		Gurudham	14"x8"	110.0 ✓		36.0	+5	-25.0	40.0(Ar.)	36.0	
201.		Sukhchaina	14"x8"	163.0		30.0	-26.0	-46.0	20.0	48.0	
202.		Sangrampur	14"x8"	99.5	F.Y.051/52						
203.		Turkiya Bastipur		200.0 ✓ 113.5	F.Y.051/52 Jan. 97	"Hole abandoned due to lack of Acquirer" 27.0	-14.5	29.0	30.0l/s	48.0	Abandoned

WELL LOG

Data No

N-51

PROJECT NAME 714TSP		WELL NO.	
AREA AND LOCATION Laxmi-Nivas, Dhanusha - District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	122.50	DRILLING RIG	YRD-501R
DRILLING STARTED		DRILLED BY S. Jha	
WELL COMPLETED Apr. 1998		LOGGED BY M. Lamichhane	

STATIC WATER LEVEL	-37.25 feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-44.50 feet	CONDUCTIVITY	µS/cm
PUMPING RATE	30.0 l/min (0.76 m³/d)	pH	
SPECIFIC CAPACITY	m³/d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (feet)	Lithology Data		Electrical Logging			
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential: (mv)	Depth (m)	Resistivity (Ωm)
		0			Sandy clay			
		10			Boulders, pebbles coarse to fine sand			
		20						
		30			clay with gravel			
		40						
		50						
		60			Silt with clay			
		70			clay with gravel			
		80						
		90			Silty clay			
		95			Gravel & C. sand			
		97.5						
		100			Silt to sand			
		105			Gravel & med to C. sand			
		107.5						
		110			Gravel, pebbles with sticky clay			
		115			Pebbles, C. sand & gravel			
		117.5						
		120			Sticky brown clay			
		122.5						
		130						

610 - R
615 - R

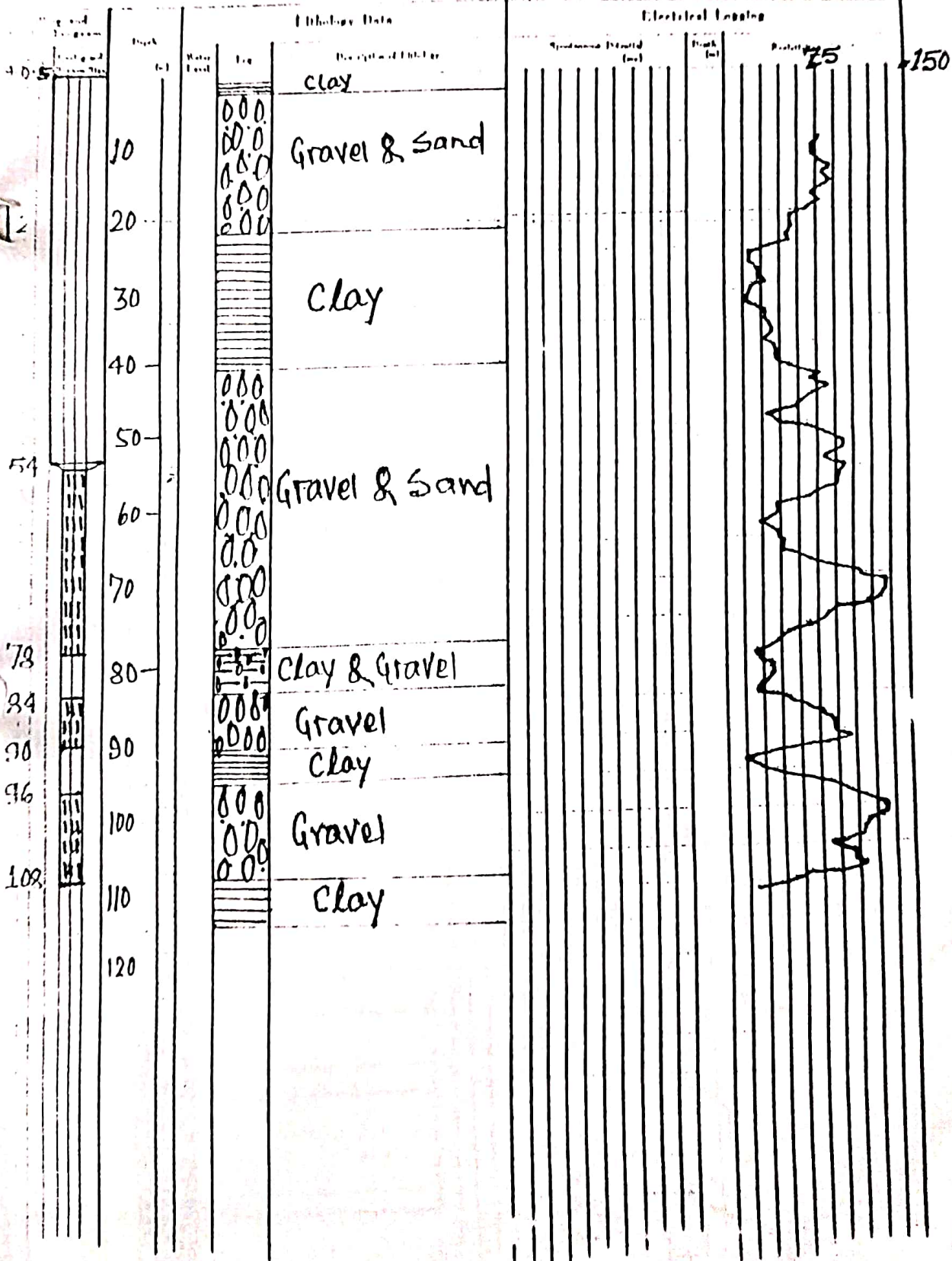
Sloppy
Sloppy
R.f. sandy
Sloppy
R.f.

122.5

WELL LOG

PROJECT NAME: <u>Agri. Dev. Project</u>	WELL NO.:
AREA AND LOCATION: <u>Laxminivas-7 Dhanusha</u>	
ELEVATION: _____	LATITUDE: _____
LONGITUDE: _____	
TOTAL DEPTH: <u>108.5</u>	BORING NO: <u>TRD 500</u>
BORING STARTED: <u>2052-10-5</u>	BORING BY: <u>R.B.K.C</u>
WELL COMPLETED: <u>2052-11-7</u>	LOGGED BY: <u>Ran. Bdr. K.C</u>

STATIC WATER LEVEL: <u>35.0</u>	WATER TEMPERATURE: _____
DYNAMIC WATER LEVEL: <u>36.0</u>	CONDUCTIVITY: _____
FLOWING RATE: <u>2.100</u> <small>lit/min</small>	pH: _____
STORING CAPACITY: _____	TOTAL HARDNESS: _____

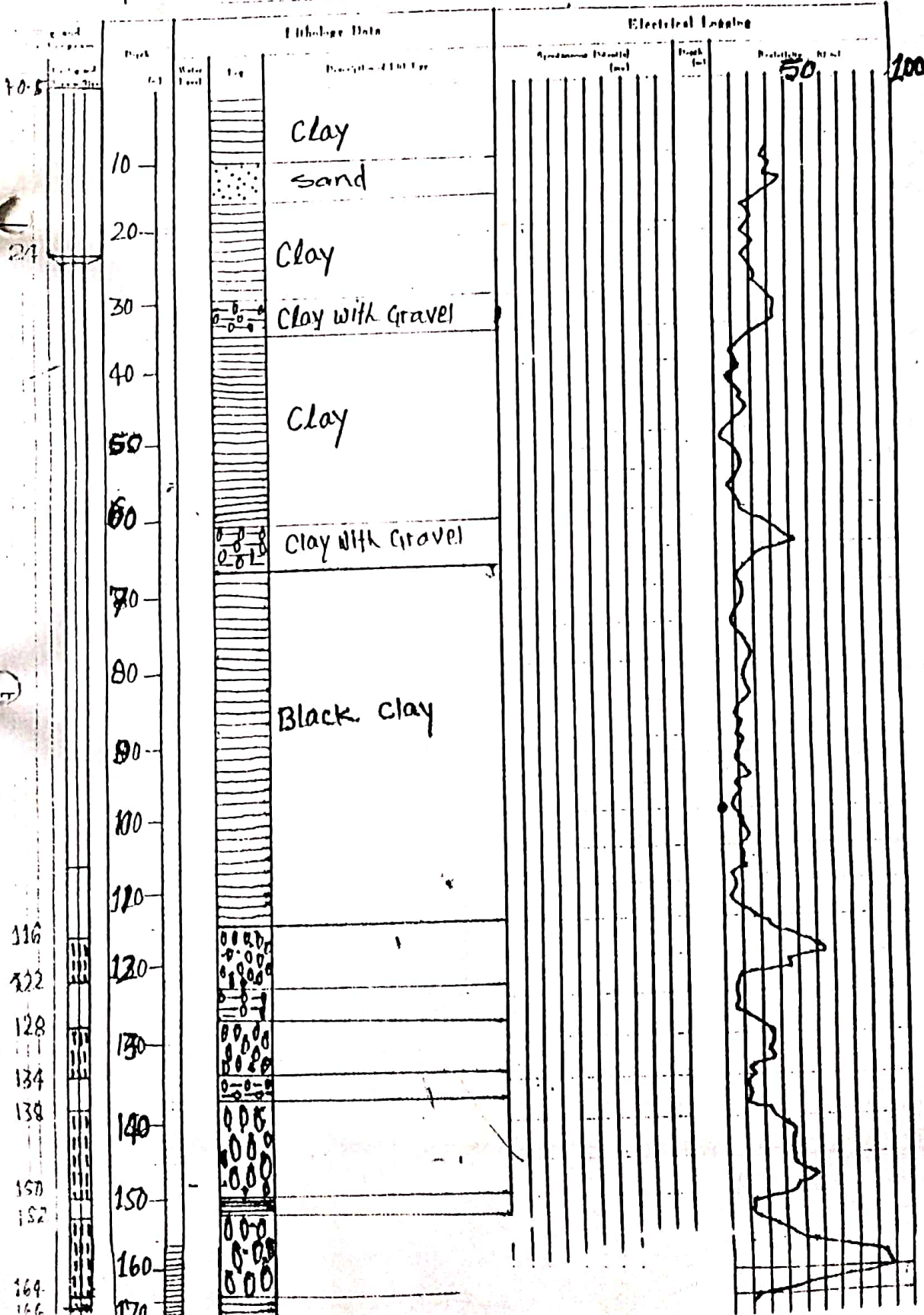


Drawn By
R.B.K.C

WELL LOG

PROJECT NAME: <u>Agri. Dev. Project</u>		WELL NO.	
AREA AND LOCATION: <u>Lohana-Dhanusha</u>			
ELEVATION	LATITUDE	LONGITUDE	
TOTAL DEPTH: <u>166.5</u>	DRILLING DIG: <u>TRD 500</u>		
DRILLING STARTED: <u>2052-11-8</u>	DRILLED BY: <u>R. B. K. C.</u>		
WELL COMPLETED: <u>2052-12-15</u>	LOGGED BY: <u>Ron Bdr K.C.</u>		

STATIC WATER LEVEL: <u>Artizen</u>	WATER TEMPERATURE
DYNAMIC WATER LEVEL	CONDUCTIVITY $\mu S/cm$
FORMING RATE: <u>1800</u> l/min	pH
SEEDING CAPACITY $m^3/d/m$	TOTAL HARDNESS



Drawn By
R.B.K.C.

Details of Pump house and Canal construction for IAP and Turnkey KR-II

Location		Construction cost in NRs.	Canal cost in NRs.	Total cost in NRs.	Plan of repair construction schedule by Fiscal year
No. of Pump station	District V.D.C.				
IAP No. 4	Dhanusha Ramdaiya	200,000.-	Approach canal 26 m 253,704.-	453,704.-	F/Y 1996/97 March
IAP No. 6	Dhanusha Ramdaiya	"	Approach canal 46 m 279,632.-	479,632.-	F/Y 1997/98
IAP No. 7	Dhanusha Ramdaiya	"	Approach canal 76 m 237,347.-	437,347.-	F/Y 1997/98
KR II Turnkey T 3	Dhanusha Bharatpur	"	Approach canal 20 m 20,000.-	220,000.-	F/Y 1996/97 April
KR II Turnkey T 5	Dhanusha Godar	"	"	"	F/Y 1997/98
KR II Turnkey T 7	Dhanusha Gauripur	"	"	"	F/Y 1996/97 May
KR II Turnkey T 8	Dhanusha Radhapur	"	"	"	F/Y 1996/97 June
KR II Turnkey T 9	Dhanusha Mangalpur	"	"	"	F/Y 1997/98
KR II Turnkey T 10	Dhanusha Sarasa	"	"	"	"
KR II Turnkey T 11	Dhanusha Gohiyahi	"	"	"	"
KR II Turnkey T 12	Dhanusha Janakinagar	"	"	"	"
KR II Turnkey T 13	Dhanusha Kajra Ramaul	"	"	"	"
KR II Turnkey T 15	Dhanusha Hanspurkathpulla	"	"	"	"
KR II Turnkey T 16	Dhanusha Jhatiyahi	"	"	"	"

10% cost of construction will be produced by concern farmer and rest 90% cost will be beared by JADP Budget.

Utilization of Existing Infrastructure (Pump House and Canals) of Tube - Wells

T6	Dhanusha Dhalkebar	It was installed in Jan. 1986. At that time pumping discharge was 5 l/sec. At present, the well has been handed over for drinking water purpose.
T7	Dhanusha Gauripur	It was installed in Feb. 1986. At that time pumping discharge was 20 l/sec. The well damage occurred because of screen collapse since 1990. So reborings is feasible with 40 l/sec. discharge keeping a distance of 30 meter from the existing hole.
T8	Dhanusha Radhapur	It was installed in Jan. 1986. During that time pumping discharge was 42 l/sec. The well was damaged occurred because of screen collapse since 1994. So reborings is feasible keeping a distance of 30 meter from the existing hole for same discharge.
T9	Dhanusha Mangalpur	It was installed in Jan. 1986. At that time pumping discharge was 20 l/sec. The well was damaged occurred because of screen collapse since 1995. So reborings is feasible with 40 ~ 45 l/sec. discharge keeping a distance of 30 meter from the existing hole.
T10	Dhanusha Sarsa	It was installed in Jan. 1986. At that time pumping discharge was 20 l/sec. The well was damaged because of screen collapse since 1989. So, reborings is feasible with 35 ~ 40 l/sec. discharge keeping a distance of 30 meter from the existing hole.
T11	Dhanusha Gohiyahi	This well was installed in Feb. 1986. At that time pumping discharge was 40 l/sec. The well was damaged because of screen collapse since 1991. So, reborings is feasible with good discharge keeping a distance of 30 meter from the existing hole.
T12	Dhanusha Janakinagar	It was installed in Feb. 1986. At that time pumping discharge was 10 l/sec. The well was damaged because of screen collapse since 1988. Reborings is feasible there because this place is located between Mangalpur and Laliya. So we can hope 25 ~ 30 l/sec. discharge. The reborings should be done keeping a distance of 30 meter from the existing hole.

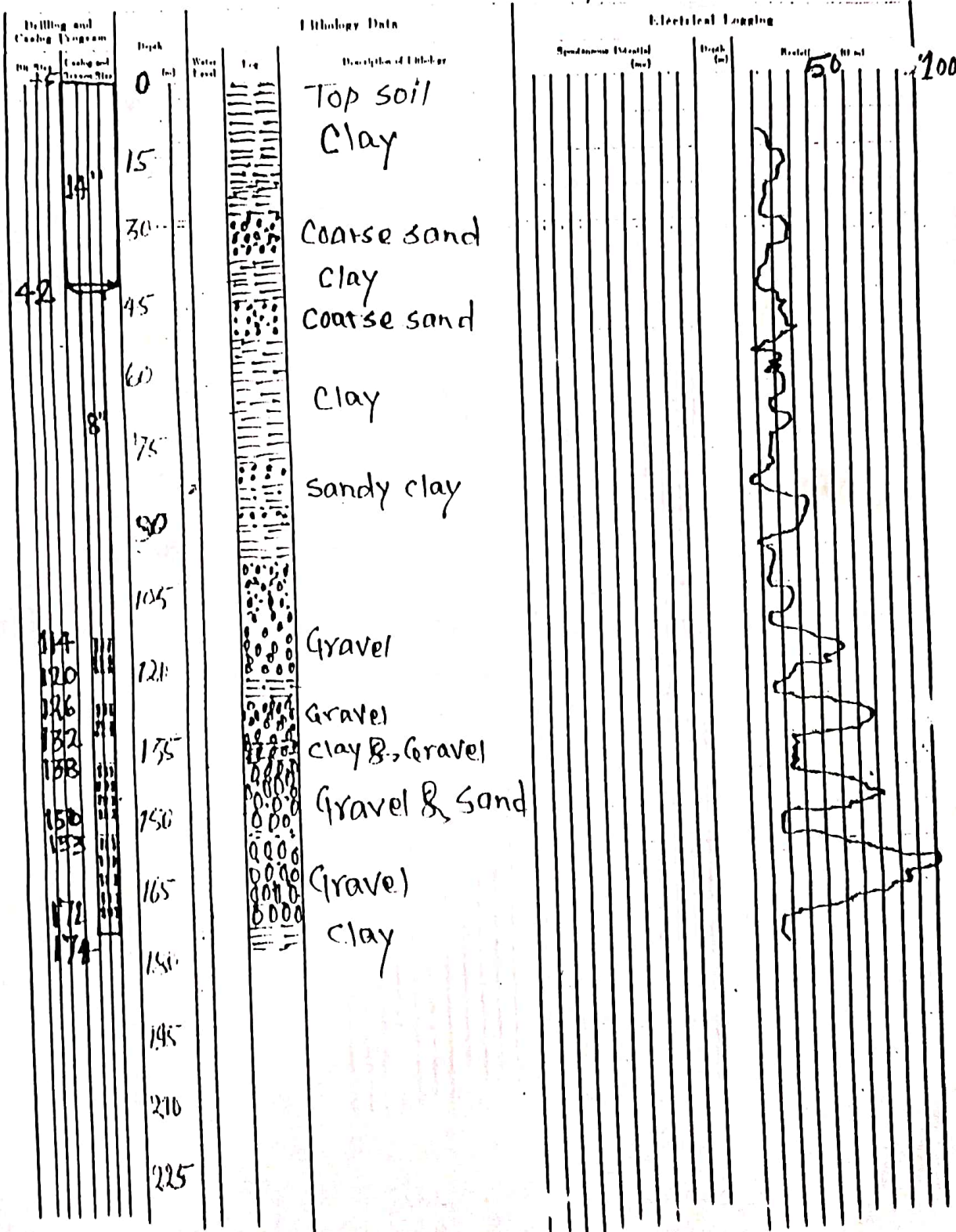
Utilization of Existing Infrastructure (Pump House and Canals) of Tube - Wells

T13	Dhanusha Kajra Ramaul	It was installed in Jan. 1986. At that time pumping discharge was 10 l/sec. The well was damaged because of screen collapse since 1988. Reboring is feasible there because this place is situated between Mangalpur and Laliya. So we hope 25 ~ 30 l/sec. discharge keeping a distance of 30 meter from the existing hole.
T14	Dhanusha Laliya	It was installed in March 1986. At that time pumping discharge was 30 l/sec. uptill now this well is operating with same discharge rate.
T15	Dhanusha Hanspur Kathpulla	It was installed in Feb. 1986. At that time pumping water discharge was 7 l/sec. The well was damaged because of screen collapse since 1988. Reboring is feasible there because this place is situated in the success area. So we hope 25 ~ 30 l/sec. discharge keeping a distance of 30 meter with existing hole.
T16	Dhanusha Jhatiyahi	It was installed in March 1986. At that time pumping discharge was 25 l/sec. The well is damaged because of screen collapse since 1995. So reboring is feasible with same discharge rate keeping distance of 30 meter from the existing hole.

Agri. Extension Department Project, Jawahar Hab. 2nd Date 11/11
WELL LOG

PROJECT NAME	Agri. Extension Project	WELL NO.	1st
AREA AND LOCATION	LOGMA-Dhanusha	LATITUDE	
ELEVATION		LONGITUDE	
TOTAL DEPTH	174.5	DRIER NO.	TRD. 500
DRIING STARTED	2051-5-11	DRIED BY	R.B.K.C
WELL COMPLETED	2051-6-15	LOGGED BY	R.B.K.C

STATIC WATER LEVEL	Artisen	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		CONDUCTIVITY	µS/cm
PUMPING RATE	20 l/sec (Artisen)	pH	
ELECTRIC CAPACITY	m ³ /m	TOTAL HARDNESS	

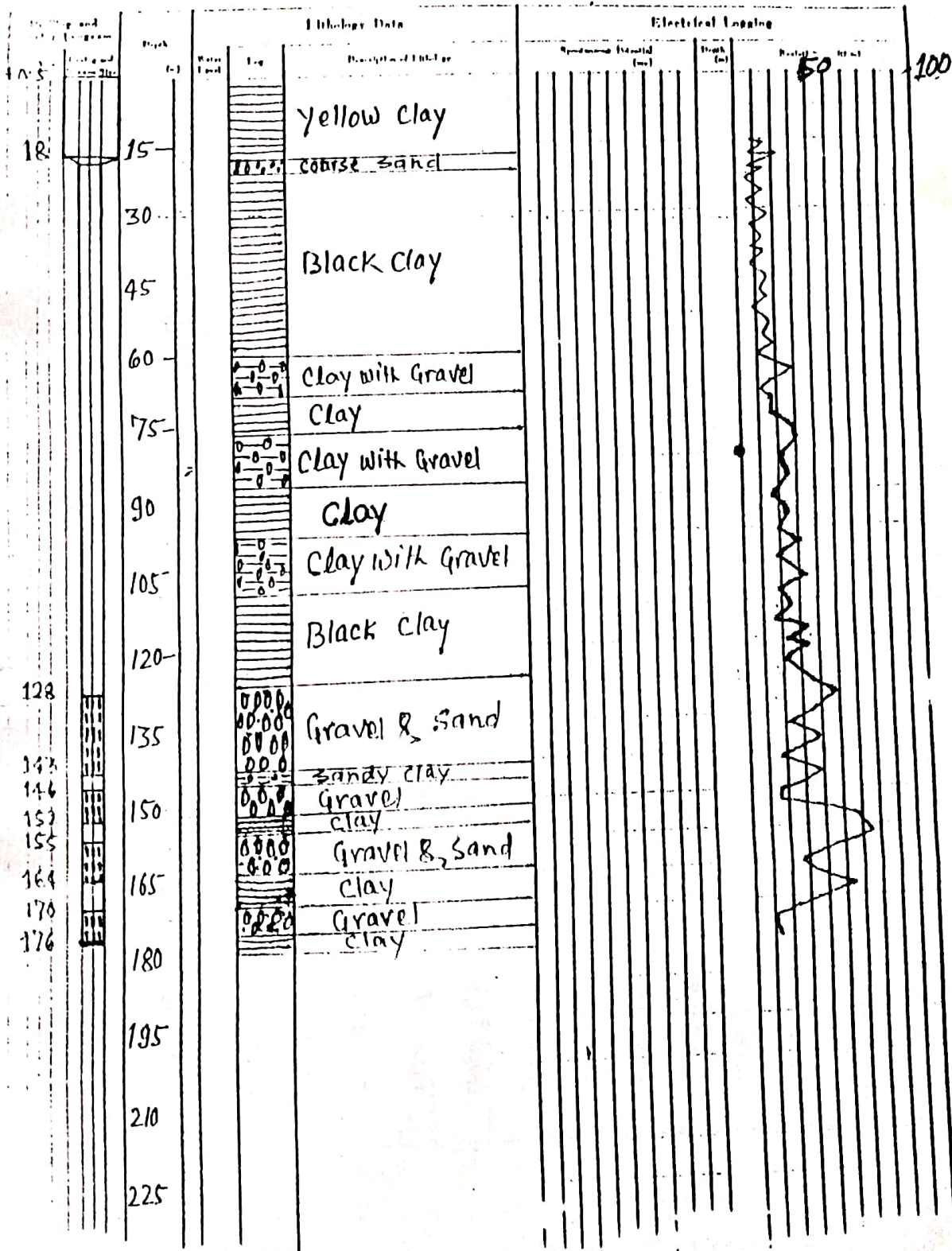


Drawn By
R.B.K.C

WELL LOG

PROJECT NAME: <u>Agri. Dev. Project</u>		WELL NO.	
AREA AND LOCATION: <u>Lohana-3 Dhanusha</u>			
ELEVATION	IN	LATITUDE	LONGITUDE
DEPT. BENCH: <u>176.5</u>		DRILLING NO: <u>TRD 500</u>	
DRILLING STARTED: <u>2052-12-16</u>		DRILLED BY: <u>R.B.K.C</u>	
WELL COMPLETED: <u>2053-1-14</u>		LOGGED BY: <u>Ran Bdr. K.C.</u>	

STATIC WATER LEVEL: <u>Artizen</u>	IN	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	IN	CONDUCTIVITY	µS/cm
DRILLING RATE: <u>1500</u> mm/min	m ² /min	pH	
SEEDING CAPACITY	m ² /min	TOTAL HARDNESS	



S.N.	Name of place	District	Date of Installation	Pump + Engine Machine	Discharge lit. / sec.	Fuel Consumption lit. / hour	Remarks
1.	Madhavpur (A) Panchkanya -4	Chitwan	1994	Ebara + Fiat	40 l/sec.	9 l/hour	
2.	Panchkanya -9 (Jayma) (Ngala A)	"	"	"	"	10 l/hour	
3.	Madhavpur (A) Panchkanya -4	"	"	"	"	9 l/hour	
4.	Panchkanya -5 (Amilia)	"	"	"	30 l/sec.	9 l/hour	
5.	Panchkanya -7 (Jirana)	"	"	"	40 l/sec.	10 l/hour	
6.	Chainpur -8 (A)	"	"	"	30 l/sec.	8 l/hour	
7.	Bharatapur Nagarpalika -14	"	"	"	30 l/sec.	8 l/hour	
8.	Bharatapur Nagarpalika -14 Kalyanpur	"	"	"	50 l/sec.	9 l/hour	
9.	Bharatapur Nagarpalika -8 Parasnagar	"	"	"	40 l/sec.	10 l/hour	
10.	Bharatapur Nagarpalika -13 Ranbag	"	"	"	35 l/sec.	10 l/hour	
11.	Bharatapur Nagarpalika -6 Lanku	"	"	"	40 l/sec.	8 l/hour	
12.	Pithuwa -3 (A)	"	1995	Ebara + Fiat	40 l/sec.	10 l/hour	
13.	Pithuwa -3 (B)	"	"	"	40 l/sec.	10 l/hour	
14.	Chainpur -8 (B)	"	"	"	30 l/sec.	8 l/hour	
1.	Mirchaya - 3	Siraha	1987	"	30 l/sec.	10 l/hour	
1.	Department of Agriculture	Kathmandu	1994	Submersible Pump (4" diameter)	10 l/sec.		
2.	Ministry of Agriculture	Kathmandu	1992	Submersible Pump	15 l/sec.		

- To be continued -

S.N.	Name of place	District	Date of Installation	Pump + Engine Machine	Discharge lit. / sec.	Fuel Consumption lit. / hour	Remarks
1.	Kisan Nagar (JICA)	Mahottari	1988	Okamoto + Isuzu	35 l/sec.	5 l/hour	
2.	Ram Nagar (JADP) (A)	"	1988	Ebara + Fiat	40 l/sec.	8 l/hour	
3.	Ram Nagar (JADP) (B)	"	1996	"	45 l/sec.	7.5 l/hour	
4.	Iathiel	"	1990	"	25 l/sec.	12 l/hour	
5.	Laxminiya-8- JADP	"	1996	"	35 l/sec.	8 l/hour	
6.	Bijalpara 6 JADP	"	1997	Ebara + Isuzu	55 l/sec.	9 l/hour	
7.	Pashupatinagar	"	1996	Ebara + Fiat	30 l/sec.	8 l/hour	
1.	Pallan Netraganja	Sarlahi	1987	Ebara + Fiat	30 l/sec.	10 l/hour	
2.	Bhaktipur -9	"	1987	Ebara + Fiat	60 l/sec.	7 l/hour	
3.	Shreenagar - 8	"	1988	Okamoto + Isuzu	45 l/sec.	5 l/hour	
4.	Shreenagar - 9	"	1992	Ebara + Fiat	40 l/sec.	8 l/hour	
5.	Haridon	"	1990	Ebara + Fiat	32 l/sec.	11 l/hour	
6.	Karmaiya	"	1993	Ebara + Fiat	40 l/sec.	10 l/hour	
7.	Shreenagar	"	1993	Ebara + Fiat	32 l/sec.	10 l/hour	
8.	Lalbandi	"	1996	Ebara + Fiat	30 l/sec.	10 l/hour	
9.	Ishwarpur	"	1995	Ebara + Fiat	40 l/sec.	8 l/hour	
10.	Balganga dhurgauli	"	1997	Ebara + Fiat	35 l/sec.	9 l/hour	
1.	Bhoraha - 3	Morang	1992	Ebara + Fiat	60 l/sec.		
2.	Bhoraha - 4	"	1992	Ebara + Fiat	50 l/sec.		
3.	Sorabhag	"	1993	Ebara + Fiat	50 l/sec.		
1.	Toppachhi - 3	Jhapa	1995	Ebara + Fiat	60 l/sec.	8 l/hour	
2.	Toppachhi - 2	"	1995	Ebara + Fiat	60 l/sec.	8 l/hour	
3.	Toppachhi - 5	"	1995	Ebara + Fiat	40 l/sec.	8 l/hour	
4.	Satasidhan - 7	"	1995	Ebara + Fiat	30 l/sec.	9 l/hour	

- To be continued -

List of Pump Installation

S.N.	Name of place	District	Date of Installation	Pump + Engine Machine	Discharge lit. / sec.	Fuel Consumption lit. / hour	Remarks
1.	IAP No. -1	Dhanusha	1976	Centrifugal pump	30 l/sec	2 l/hour	
2.	IAP No. -2	"	1976	Centrifugal pump	35 l/sec	2 l/hour	
3.	IAP No. -3	"	1977	Centrifugal pump	35 l/sec	2 l/hour	
4.	IAP No. -5	"	1976	Centrifugal pump	35 l/sec	2 l/hour	
5.	IAP No. -8	"	1975	Centrifugal pump	40 l/sec	2 l/hour	
6.	IAP No. -9	"	1977	Centrifugal pump	36 l/sec	2 l/hour	
7.	Singyahi Madau	"	1986	Okamoto + Isuzu	40 l/sec	5 l/hour	
8.	Birendra Bazar	"	1985	Ebara + Fiat	25 l/sec	10 l/hour	
9.	Chhiyattar bigaha	"	1986	Ebara + Fiat	35 l/sec	10 l/hour	
10.	Umaprenpur	"	1986	Ebara + Fiat	25 l/sec	10 l/hour	
11.	Nakatajhi	"	1986	Ebara + Fiat	40 l/sec	10 l/hour	
12.	Sakhuwa Mahendranagar	"	1987	Okamoto + Isuzu	50 l/sec	5 l/hour	
13.	Gedar	"	1987	Ebara + Fiat	25 l/sec	8 l/hour	
14.	Bateswor	"	1987	Ebara + Fiat	25 l/sec	10 l/hour	
15.	Bashaiya	"	1988	Ebara + Fiat	50 l/sec	9 l/hour	
16.	Rani bazar	"	1988	Centrifugal pump	35 l/sec	1.5 l/hour	
17.	Mahuwa	"	1992	Ebara + Fiat	30 l/sec	8 l/hour	
18.	Laxmibas Dhalkabar	"	1988	Ebara + Fiat	30 l/sec	10 l/hour	
19.	Kanakpati	"	1993	Ebara + Fiat	40 l/sec	8 l/hour	
20.	Shantipur	"	1996	Okamoto + Isuzu	35 l/sec	5 l/hour	
21.	Ramnagara	"	1996	Ebara + Fiat	30 l/sec	8 l/hour	
22.	Baniniya	"	1997	Ebara + Isuzu	60 l/sec.	6 l/hour	
23.	Backchora	"	1991	Ebara + Fiat	40 l/sec	6 l/hour	
24.	Naktajhi	"	1994	Ebara + Fiat	38 l/sec.	10 l/hour	
25.	Naktajhi	"	1991	Ebara + Fiat	35 l/sec.	10 l/hour	
26.	Basahiya -1	"	1994	Ebara + Isuzu	45 l/sec	6 l/hour	
27.	Basahiya -2	"	1994	Ebara + Isuzu	45 l/sec	6 l/hour	
28.	Basahiya -3	"	1994	Ebara + Isuzu	45 l/sec	6 l/hour	
29.	Basahiya -4	"	1994	Ebara + Isuzu	45 l/sec	6 l/hour	
30.	Hariharpur -1	"	1986	Ebara + Fiat	30 l/sec	8 l/hour	
31.	Hariharpur -2	"	1990	Ebara + Fiat	35 l/sec.	8 l/hour	
32.	Hariharpur -3	"	1986	Okamoto + Isuzu	30 l/sec	5 l/hour	
33.	Dharapani	"	1986	Ebara + Isuzu	5 l/sec	10 l/hour	Screen damage
34.	Bhartapur	"	1985	Ebara + Isuzu	25 l/sec.	6 l/hour	Screen damage
35.	Godar	"	1986	Ebara + Isuzu	25 l/sec.	6 l/hour	Screen damage

- To be continued -

List of Deep Tubewell Drilled with the Installation of Pumps & Engines by ADPJ

S.N.	District	Budget Source	Operational Status (# of DTW)			Total
			Working	Not Working	Abandoned	
5.	Morang	"	4	0	0	4
6.	Sunsari	"	1	0	0	1
7.	Siraha	"	16	0	2	18
8.	Bara	"	1	0	0	1
9.	Parsa	"	1	0	0	1
10.	Chitwan	"	19	0	0	19
11.	Kathmandu	"	15	0	0	15
12.	Rupandehi	"	2	0	0	2
13.	Banke	"	0	0	2	2
			174	15	46	235

List of Deep Tubewell Drilled with the Installation of Pumps & Engines by ADPJ

Annex - I

S.N.	District	Budget Source	Operational Status (# of DTW)			Total
			Working	Not Working	Abandoned	
1.	Dhanusha	KR II Turn key	1	0	15	16
		JGGAS	4	5	0	9
		KR II - ADPJ	39	7	18	64
		JICA - ADPJ	20	3	2	25
		Total	64	15	35	114
2.	Mahottary	KR II Turn key	0	0	0	0
		JGGAS	0	0	0	0
		KR II - ADPJ	16	0	2	18
		JICA - ADPJ	3	0	0	3
		Total	19	0	2	21
3.	Sarlahi	KR II Turn key	0	0	0	0
		JGGAS	0	0	0	0
		KR II - ADPJ	24	0	4	28
		JICA - ADPJ	3	0	1	4
		Total	27	0	5	32
4.	Jhapa	ADPJ	5	0	0	5

Utilization of Existing Infrastructure (Pump House and Canals) of Tube - Wells

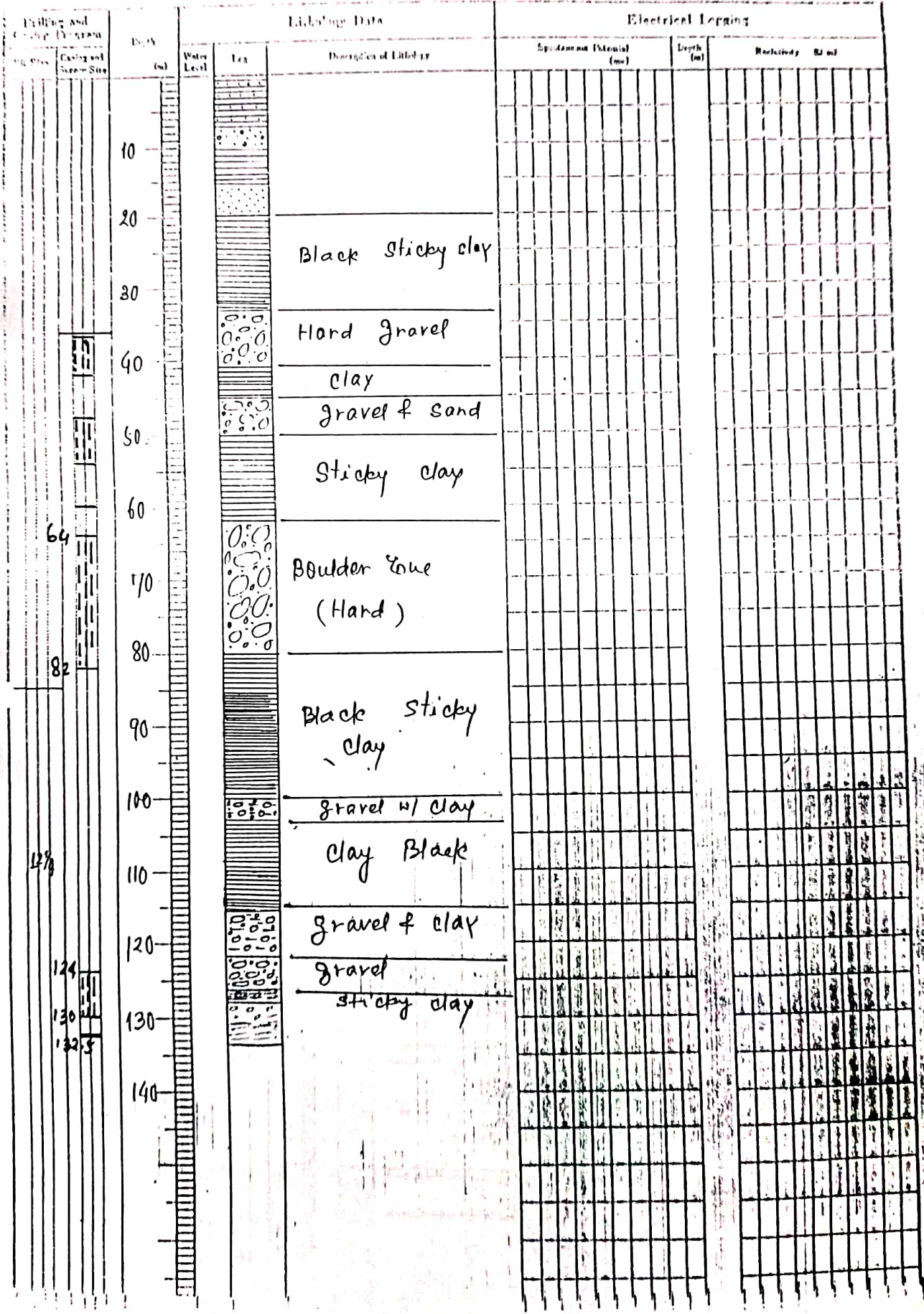
Well No.	District V.D.C.	Present Condition & Possibility of Reboring
I.A.P. No. 4	Dhanusha Saphi	It was installed on 25 March 1975. At that time artesian discharge was 14.4 l/sec. and pumping water discharge was 39.9 l/sec. The well damaged was occurred because of screen collapse since 1995. So reboring is feasible keeping a distance of 30 meter from the existing hole.
I.A.P. No. 6	Dhanusha Saphi	It was installed on 25 March 1975. At that time artesian discharge was 14.4 l/sec. and pumping water discharge was 39.9 l/sec. The well damaged was occurred because of screen collapse since 1995. So reboring is feasible keeping a distance of 30 meter from the existing hole.
I.A.P. No. 7	Dhanusha Saphi	It was installed on 25 March 1975. At that time artesian discharge was 14.4 l/sec. and pumping water discharge was 39.9 l/sec. The well damaged was occurred because of screen collapse since 1995. So reboring is feasible keeping a distance of 30 meter from the existing hole.
T1	Dhanusha Dharapani	It was installed in June 1985. Pumping discharge was 5 l/sec. that time due to poor aquifer reboring is not possible in this area.
T2	Dhanusha Pushapalpur	It was installed in June 1985. From the beginning it was a dry well. So reboring is not possible.
T3	Dhanusha Bharatpur	It was installed in May 1985. At that time pumping discharge was 10 l/sec. The well damage occurred because of screen collapse since 1995 so reboring is feasible keeping a distance of 30 meter from the existing hole.
T4	Dhanusha Kumrah	It was installed in July 1985. During that time pumping discharge was 10 l/sec. Due to poor aquifer reboring is not possible there.
T5	Dhanusha Godar	It was installed in December 1985. At that time pumping discharge was 45 l/sec. The well was damaged because of screen collapse since 1990. So, reboring is feasible keeping a distance of 30 meter from the existing hole.

Details of Reboring of IAP & Turnkey (KRII)

FY	Location		Schedule for Boring	Remarks
	Name of Pump Station	District VDC		
1996/97	IAP No. 4	Dhanusha Ramdaiya	Early of February ~ End of February	Deposit money is already collected for DTW
"	T3	" Bharatpur	Middle of February ~ End of March	"
"	T7	✓ " Gauripur	Early of April ~ End of May	Deposit money should be collected
"	T8	" Radhapur	Early of June ~ End of June	"
1997/98	IAP No. 6	" "	October 1997	Deposit money is already collected for DTW
"	IAP No. 7	" "	November 1997	"
"	T5	" Godar		"
"	T9	✓ " Mangalpur		"
"	T10	✓ " Sarasa		"
"	T11	✓ " Gohiyahi		"
"	T12	" Janakinagar		"
"	T13	✓ " Kajra Ramaul		"
"	T15	✓ " Hanspur Kathpulla		"
"	T16	✓ " Jhatiyahi		"

PROJECT NAME	Agri Dev. Project, Janappur	WELL NO.	2 (052/53)
SPEL AREA LOCATION	Kaxmiriya, Parariya - 3, Kahan Girab		
SEGMENT		LATITUDE	LONGITUDE
TOTAL DEPTH	132.50m	PIEZO PIG	YRD500 Pig-214
DESIGNER'S AREA	0521/1	DESIGNED BY	Rajlal & Jitendra
CONTRACT NO.	0521/1	LOGGED BY	S.JHA

STATION WEAR LEVEL	6.1m	WATER TEMPERATURE	°C
STATION VENT LEVEL	25.0m	CONDUCTIVITY	µS/cm
DEPTH RATE	2/00		
STATION COMPLETE		TOTAL HEAD/FEET	

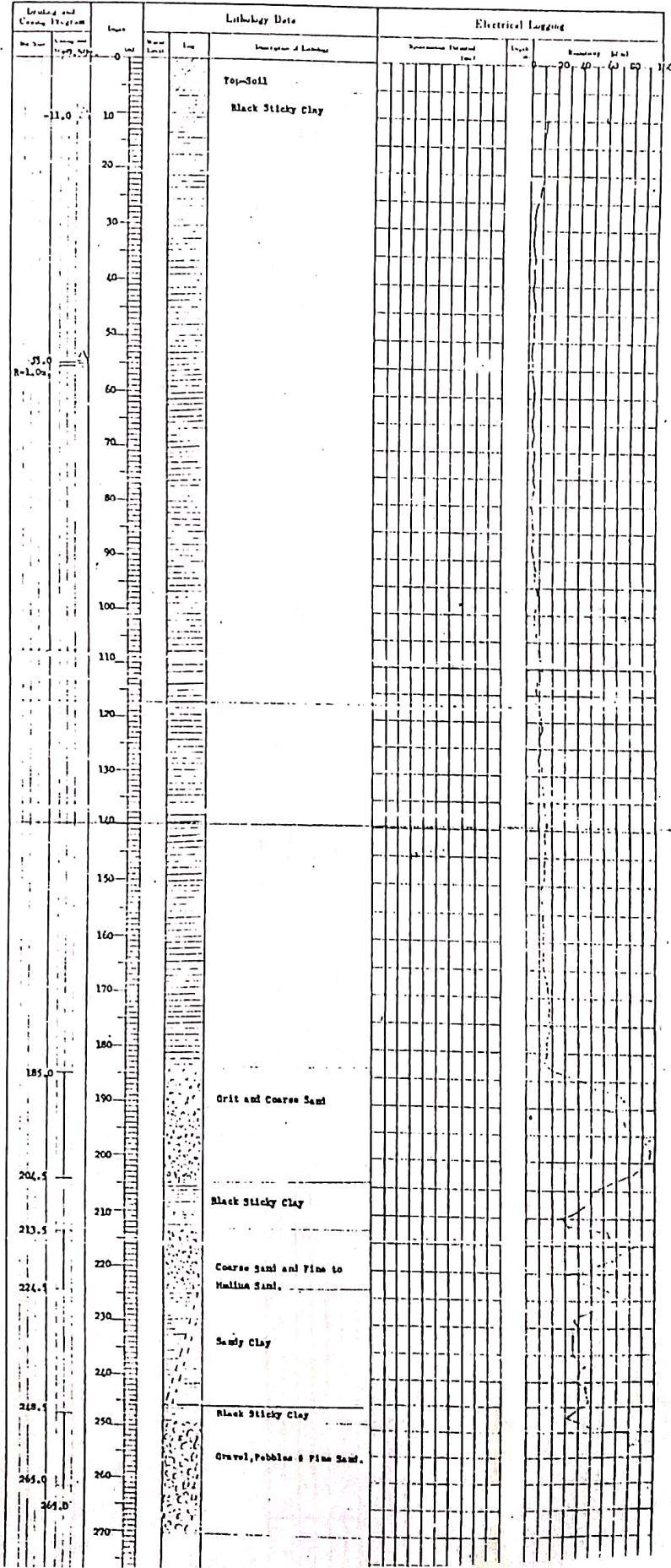


WELL LOG

Date: Feb 26

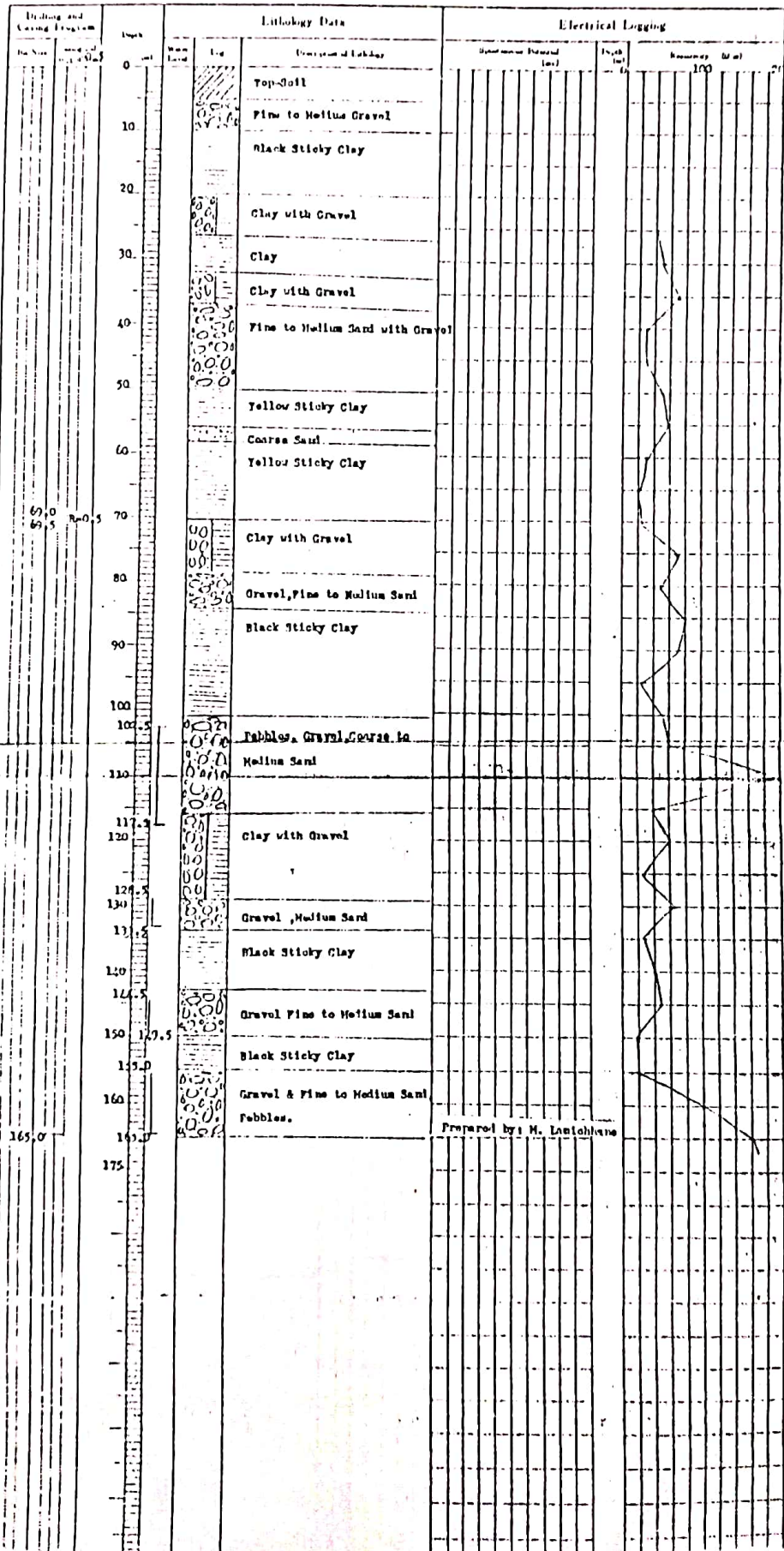
PROJECT NAME: Tub-Wall Irrigation Agriculture Training - & Service Project		Sheet: 12/8	
AREA AND LOCATION: EMBUPOUR	Latitude:	Long. Dept.:	LONGITUDE:
ELEVATION:			
TOTAL DEPTH: 265.0		DILLING NO.:	734-72-12
DILLING STARTED: 2022-2-18		DILLED BY:	Mr. D.H. San
WELL COMPLETED: 2022-5-17		LOGGED BY:	Mr. P. Jadhav

STATIC WATER LEVEL: 11.000	WATER TEMPERATURE:
DYNAMIC WATER LEVEL: 55.000	CONDUCTIVITY:
PUMPING RATE: 600.0	pH:
SPECIFIC CAPACITY:	TOTAL HARDNESS:



PROJECT NAME	J.A.D.P.	Site	14°/8°
AREA AND LOCATION	GE. HARKUTTI, Tatyaband	Village	Parbhayal
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	165.0	DRIILING LOG	TWO 500
DRIILING STARTED		DRIILED BY	Mr. Suleep Ram
WELL COMPLETED	18/11/66	LOGGED BY	Mr. H. Lunikhane

STATIC WATER LEVEL	-10.0	WATER TEMPERATURE	7
DYNAMIC WATER LEVEL		CONDUCTIVITY	μ S/cm
FLUING RATE	1000.0 l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



WELL LOG

Well (Hwy) N-21

PROJECT NAME		J.S.P.		Site: Abandoned	
AREA AND LOCATION		KSHUKUPPI, Yagubhual Village Parbhayat			
ELEVATION	=	LATITUDE	LONGITUDE		
TOTAL DEPTH	=	DRILLING RIG	YMD 5018*		
DRILLING STARTED			DRILLED BY Mr. S. Jha		
WELL COMPLETED	Feb. 1956		LOGGED BY Mr. M. Jaisankar		

STATIC WATER LEVEL	=	WATER TEMPERATURE	=
DYNAMIC WATER LEVEL	=	CONDUCTIVITY	=
LIFTING RATE	=	pH	=
SPECIFIC CAPACITY	=	TOTAL HARDNESS	=

Drilling and Casing Program		Lithology Data		Electrical Logging			
Drill Size	Casing and Log	Depth (ft)	Log Description of Lithology	Resistance (ohm-ft)		Depth (ft)	Resistivity (ohm-ft)
		0	Sandy Clay				
		10	Gravel & Sand				
		20	Silty Clay				
		30					
		40	Sandy Clay				
		50					
		60	Gravel & Clay				
		70	Black Sticky Clay				
		80					
		90	Gravel, Coarse to fine Sand				
		100	Yellowish Black Clay				
		110	Pebbles, Cobbles, Coarse Sand and little Clay				
		120	Black Sticky Clay Fine to Medium Sand				
		130	Clay & Gravel				
		140	Black Sticky Clay				
		150					
		160					
		170	Boulders, Pebbles, Coarse to Fine Sand				
		180					
		182.0					

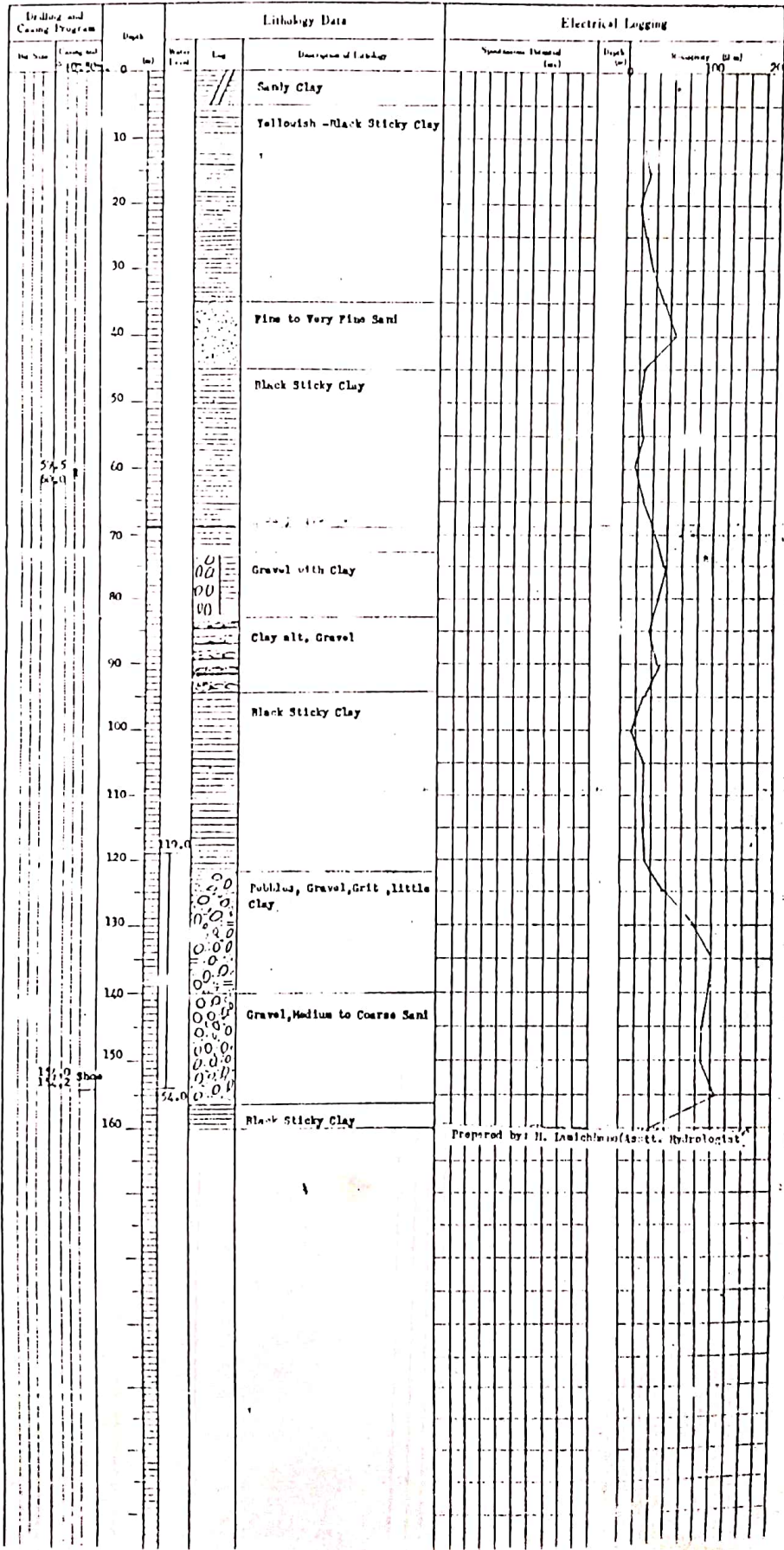
Checked by: H. Jaisankar (test. Hydrologist)

WELL LOG

PROJECT NAME <u>J.I.D.P.</u> Size: 12"/8"	
AREA AND LOCATION <u>KUMHUA-TOLE, Manupur-Kothumilla Village Panchayat.</u>	
ELEVATION <u> </u> m	LATITUDE <u> </u> LONGITUDE <u> </u>
TOTAL DEPTH <u>154.20</u> m	DRIILING RIG <u>TRD 501-01</u>
DRIILING STARTED <u> </u>	DRIILED BY <u>Mr. D.E. Sen</u>
WELL COMPLETED <u>Feb. 1966</u>	LOGGED BY <u>Mr. P. Lakshya</u>

STATIC WATER LEVEL <u>± 0.0</u> m	WATER TEMPERATURE <u> </u> °C
DYNAMIC WATER LEVEL <u> </u> m	CONDUCTIVITY <u> </u> μm/cm
PUMPING RATE <u>600.0</u> l/min (<u> </u> m ³ /d)	pH <u> </u>
SPECIFIC CAPACITY <u> </u> m ³ /m	TOTAL HARDNESS <u> </u>

10215



PROJECT NAME	J.A.D.P.	Size:	12"/9"
AREA AND LOCATION	KATHINILLA, Dampur-Padurulla Village, Panduraj.		
ELEVATION	m	LATITUDE	LONGITUDE
DIAM. DEPTH	144.0	DRILLING DIG	TUP 50198
DRILLING STARTED		DRILLED BY	Mr. D.P. Sen
WELL COMPLETED	Jan. 1956	LOGGED BY	Mr. H. Laskhara

STATIC WATER LEVEL	± 0.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY	μmhos/cm
PUMPING RATE	600.0	l/min (m ³ /d)	pH	
SEITCH CAPACITY		m ³ /d m	TOTAL HARDNESS	

1048

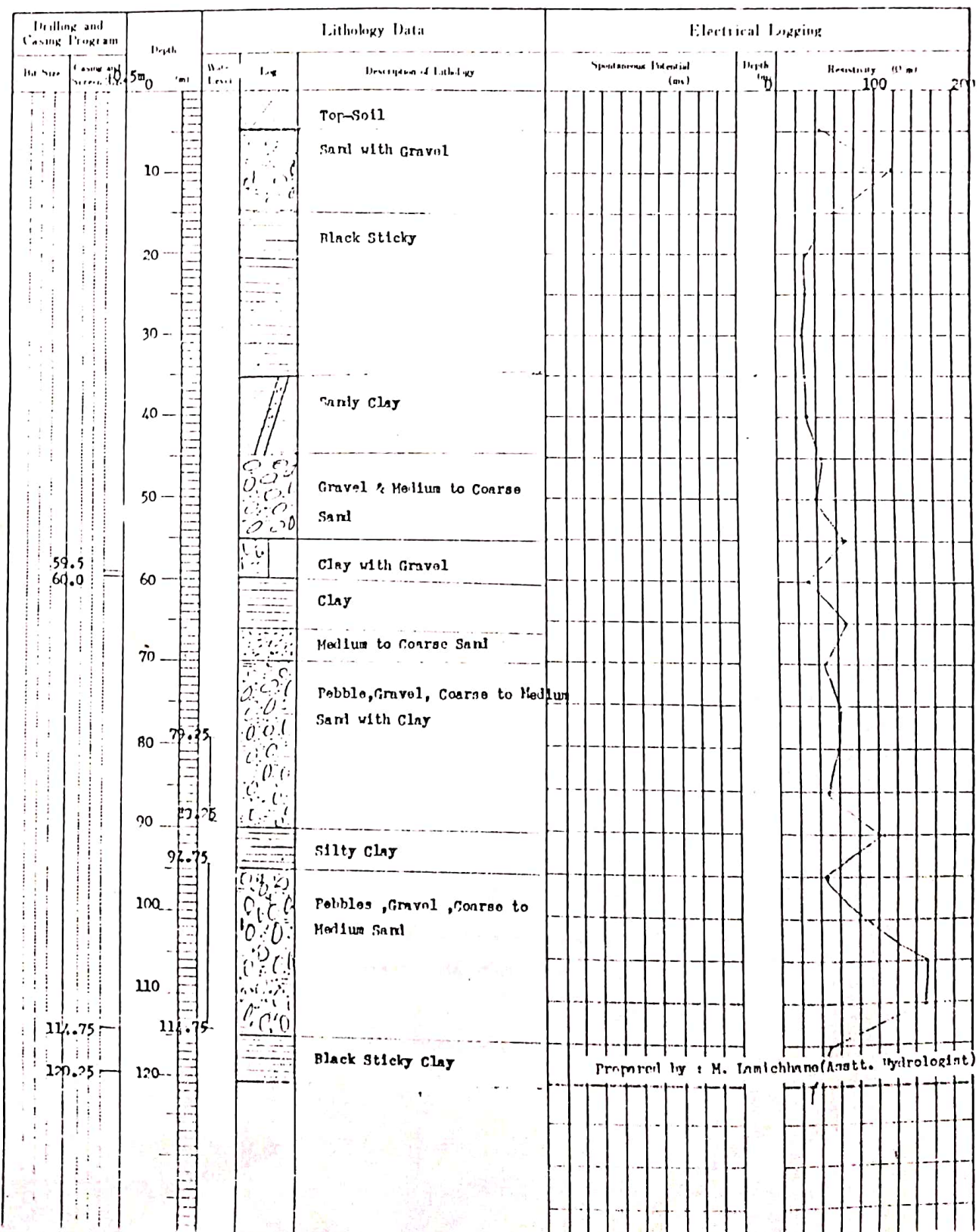
Drilling and Logging Program		Depth (m)	Lithology Data		Electrical Logging			
No.	Remarks		Description of Lithology	Apparent Resistivity (ohm m)	Depth (m)	Frequency (Hz)	Current (A)	
		0		Sandy Clay				
		10		Black-Yellow Sticky Clay				
		20						
		30						
		40		Gravel with Clay				
		50						
		60		Black Sticky Clay				
		70						
		80						
		90		Clay with Gravel				
		100	2.0					
		110		Pebbles, Gravel, Grit, Coarse Sand with little Clay				
		120						
		133		Grit & Medium Sand				
		140		Pebbles, Gravel, Medium to Coarse Sand				
		150	2.0	Black Sticky Clay				

Prepared by: H. Laskhara (Asstt. Hydrologist)

Size: 14"/8"

PROJECT NAME J.A.D.P.		LATITUDE		LONGITUDE	
AREA AND LOCATION KISAPUR, Yagyubhumi Village Panchayat					
ELEVATION		LATITUDE		LONGITUDE	
TOTAL DEPTH 120.25		DRILLING RIG YND 501"R"		DRILLED BY Mr. G. Joshi	
DRILLING STARTED		DRILLED BY		LOGGED BY Mr. H. Lamlechalie	
WELL COMPLETED Apr., 1966		DRILLED BY		LOGGED BY	

STATIC WATER LEVEL -31.00		WATER TEMPERATURE	
DYNAMIC WATER LEVEL		CONDUCTIVITY	
PUMPING RATE 1200.0		pH	
SPECIFIC CAPACITY		TOTAL HARDNESS	



Well No

Kisan Nagar, Mahottari - District N-46

by JICA TEAM

Installed: Mar 1988

Loc. N-4 Site - Well log.

Driller: Mr. SEM

Rig: Polony YPD-501

Mud Pump UAS-7

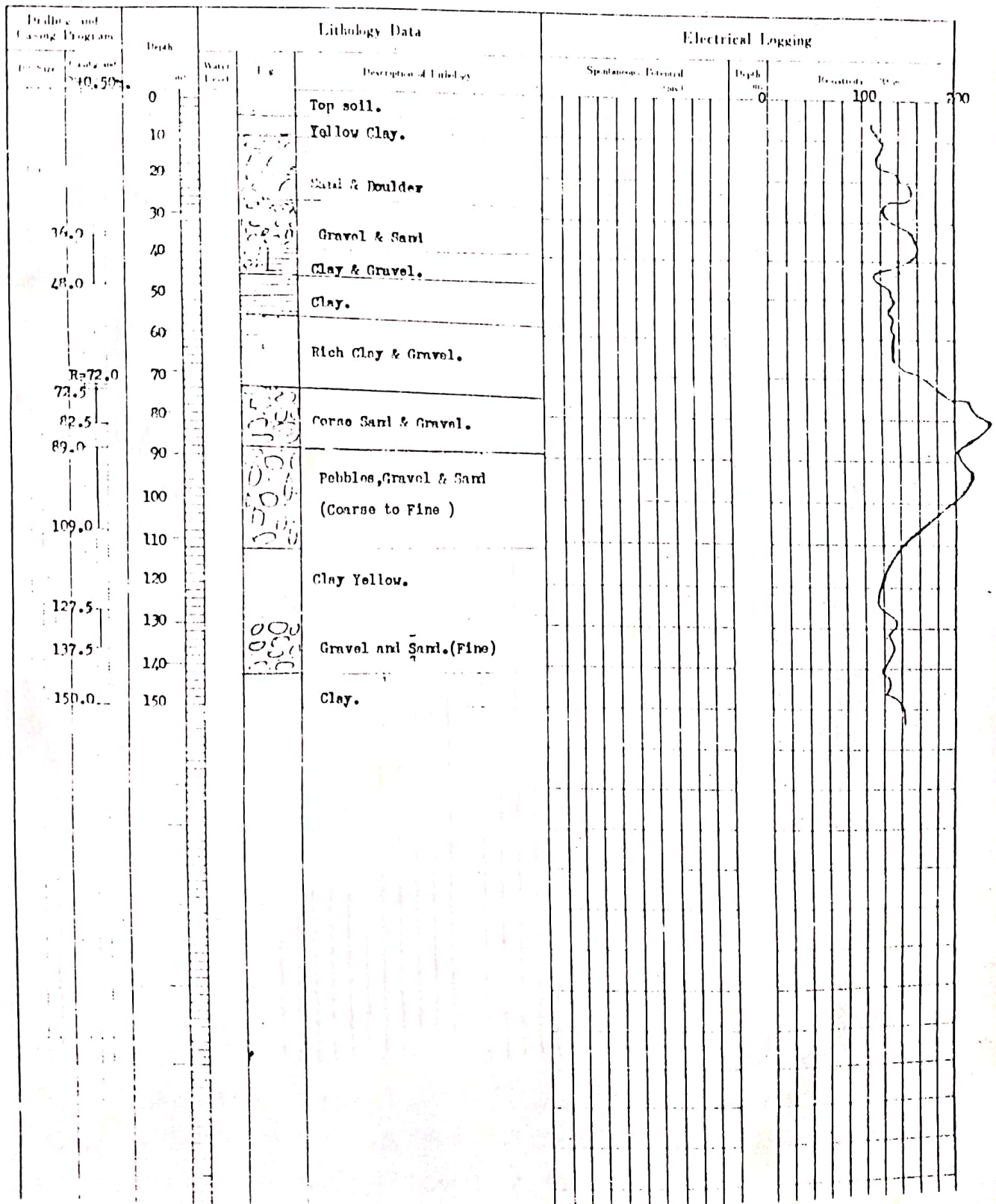
Depth (m)	Casing Program	Daily Drilling	Driller Log	Lithology Data
G.L.				
0	φ 24" Bit			1.00 m Black silt
18.21	φ 22" Conductor	11. 2/18		Gravel and Boulder (20" big Boulder)
20.00		13. 2/18		Gravel
22.00		21. 3/17		Yellow Clay with Gravel
23.00		28. 7/20		" clay
24.00				" clay with Gravel
25.00				" clay
26.00				Gravel with Boulder
28.00				Yellow Clay
50	φ 17 1/2" Bit	43. 7/21		Gravel and Boulder with yellow clay
59.00				Yellow Clay
64.00				Gravel and Boulder with yellow Clay
71.00		71. 7/22		
82.00				
85.32 m	Reducer φ 14" x φ 9"			
91.35 m				Gravel with yellow Clay
100	φ 14 3/4" Bit	101. 2/23		
108.91 m	φ 8" Production casing (Johnson-type Screen)	108. 3/24		Yellow clay with Gravel
112.00				
120.00		120. 2/25		Yellow Clay
136.94 m				Gravel with yellow Clay
139.00				
147.00				Yellow Clay (very hard, 1.0" x 2" to 1.44")
149.97 m				" Clay with Gravel
150.00				
157.00		157. 2/26		Gravel with Sandy Clay and Boulder
159.97 m				
166.00				Clay (very hard, 0.8" x 5.5") yellow
168.00		168. 2/27		Gravel with yellow Clay
170.00				rich clay (hard, yellow) with little Gravel
170.00		170. 2/28		

WELL LOG

Well Index E-27

PROJECT NAME: Total Ground Water Project(JICA) TIATSP		Size: 1 1/2" / 3"	
AREA AND LOCATION: JABERIBAS, Dhamaha-District, Jamkpur-7000.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	150 m	DRILLING RIG	IRD-501
DRILLING STARTED	2 Feb, 1987.	DRILLED BY	D.N. Sen.
WELL COMPLETED	4 March, 1987.	LOGGED BY	O. Nagata.

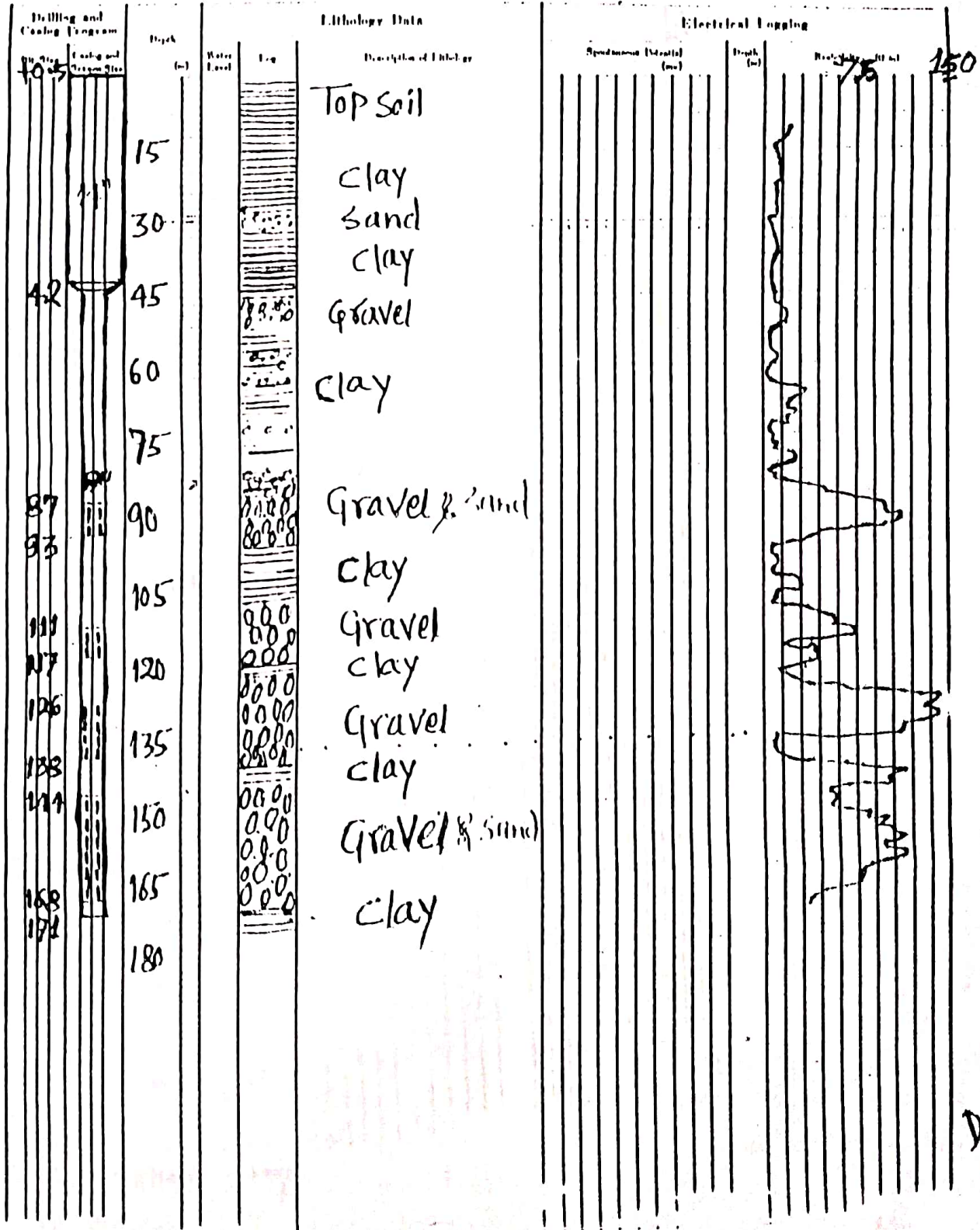
STATIC WATER LEVEL	- 37.0	m	WATER TEMPERATURE	C
DYNAMIC WATER LEVEL	-66.0	m	CONDUCTIVITY	μm/cm
FLOW RATE	60 l/min	m ³ /d	pH	
STORATIVE CAPACITY		m ³ /d/m	TOTAL HARDNESS	



WELL LOG

PROJECT NAME: <u>Agri. Dev. Project</u>	WELL NO.:
AREA AND LOCATION: <u>Thalipate Ramnagara Dhanusha</u>	
ELEVATION:	LATITUDE:
TOTAL DEPTH: <u>171.5</u> m	LONGITUDE:
BUILDING STARTED: <u>2052-1-27</u>	BUILDING NO: <u>TRD 500</u>
WELL COMPLETED: <u>2052-2-26</u>	BILLED BY: <u>Ran Bdr K.C</u>
	LOGGED BY: <u>R.B.K.C</u>

STATIC WATER LEVEL: <u>8.0</u> m	WATER TEMPERATURE:
DYNAMIC WATER LEVEL: <u>11.0 (Air Cond)</u>	CONDUCTIVITY:
FORMING DATE: <u>50-0 USE</u>	PH:
SPECIFIC CAPACITY:	TOTAL HARDNESS:



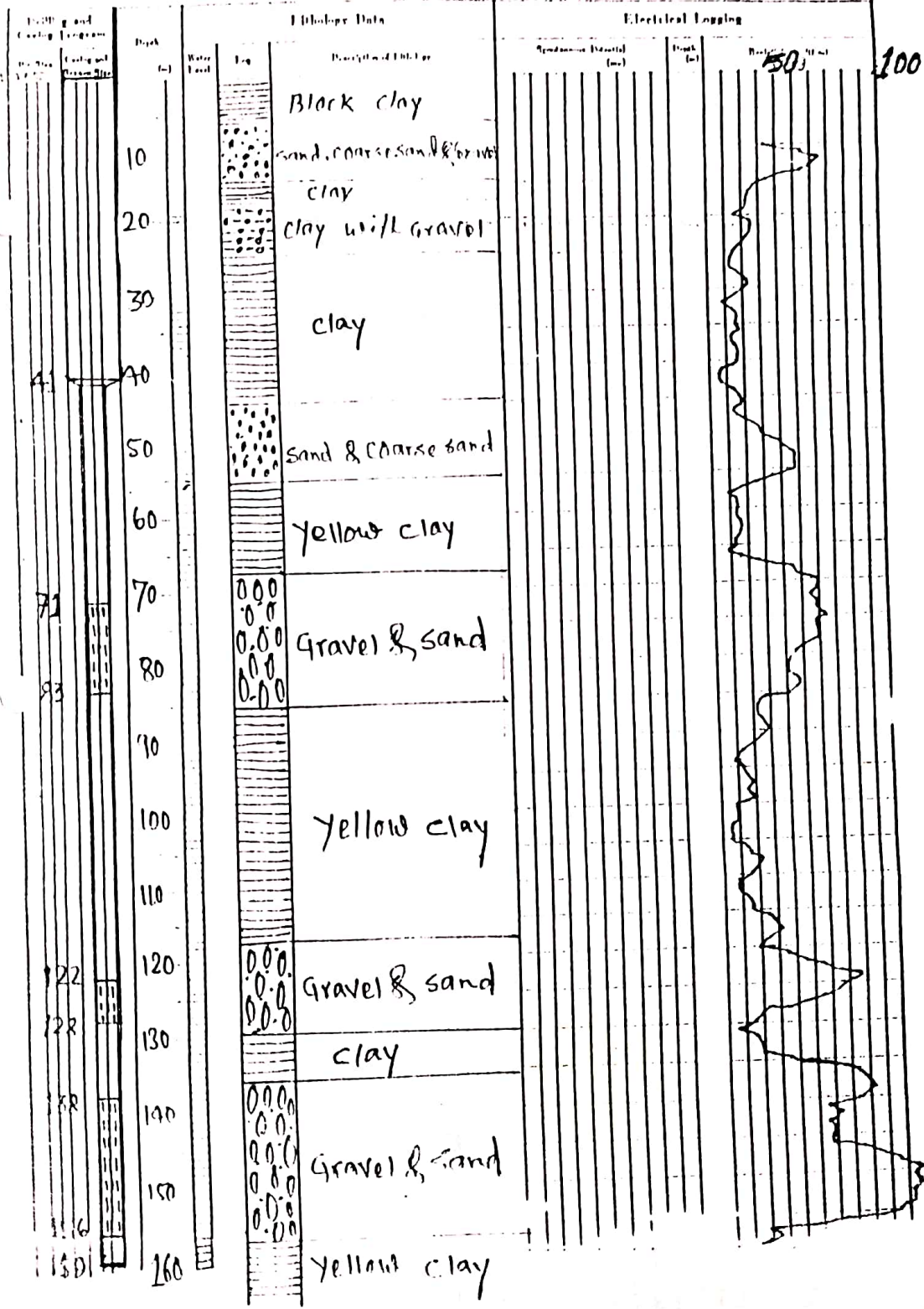
Drawn By
R.B.K.C

WELL LOG

Data No.

PROJECT NAME: <u>Agri. lev. Project</u>	WELL NO. _____
AREA AND LOCATION: <u>Baghachura-7</u>	<u>Dhanusha</u>
ELEVATION _____	LATITUDE _____
LONGITUDE _____	
TOTAL DEPTH: <u>159.5</u> m	DRIILLING RIG: <u>JRD 500</u>
DRIILLING STARTED: <u>2053-1-15</u>	DRIILED BY: <u>R.B.K.C</u>
WELL COMPLETED _____	LOGGED BY: <u>Ran Bdr K.C</u>

STATIC WATER LEVEL: <u>3.0</u> m	WATER TEMPERATURE _____ °C
INDICATOR WATER LEVEL: <u>12.5 (Air Com)</u> m	CONDUCTIVITY _____ µS/cm
DRIILLING DATE: <u>40. Usec</u> m ² /d	pH _____
SPECIFIC CAPACITY _____ m ³ /d/m	TOTAL HARDNESS _____



Ran Bdr K.C.

WELL LOG

N-53

PROJECT NAME T I A T S P		WELL NO N-53	
AREA AND LOCATION Iskhorpur, S'aralahi - District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH 75.0	feet	DRILLING RIG YRD-501R	
DRILLING STARTED		DRILLED BY D.N. Sen	
WELL COMPLETED Apr. 1988		LOGGED BY M. Kamichhane	

STATIC WATER LEVEL -30.70	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL -40.15	feet	CONDUCTIVITY	μS/cm
PUMPING RATE 43.0	l/min (gpc m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (feet)	Lithology Data		Electrical Logging			
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω.m)
		0		==	Silty clay			
		10			yellowish sticky clay			
		20		○ ○ ○ ○	Boulders with clay			
		30		○ ○ ○ ○	silt			
		40		○ ○ ○ ○				
		50		○ ○ ○ ○	clay with gravel			
		60		○ ○ ○ ○				
		65.4		○ ○ ○ ○				
		70		○ ○ ○ ○	Mod. gravel with C.S.			
		80		○ ○ ○ ○	silt with clay			
		90		○ ○ ○ ○				
		93.4		○ ○ ○ ○	Pebbles, Gravel fine to med sand			
		100		○ ○ ○ ○	yellowish sticky clay			

542 R
549

3/8" HPI
(Screens)

Removal
Sankyo

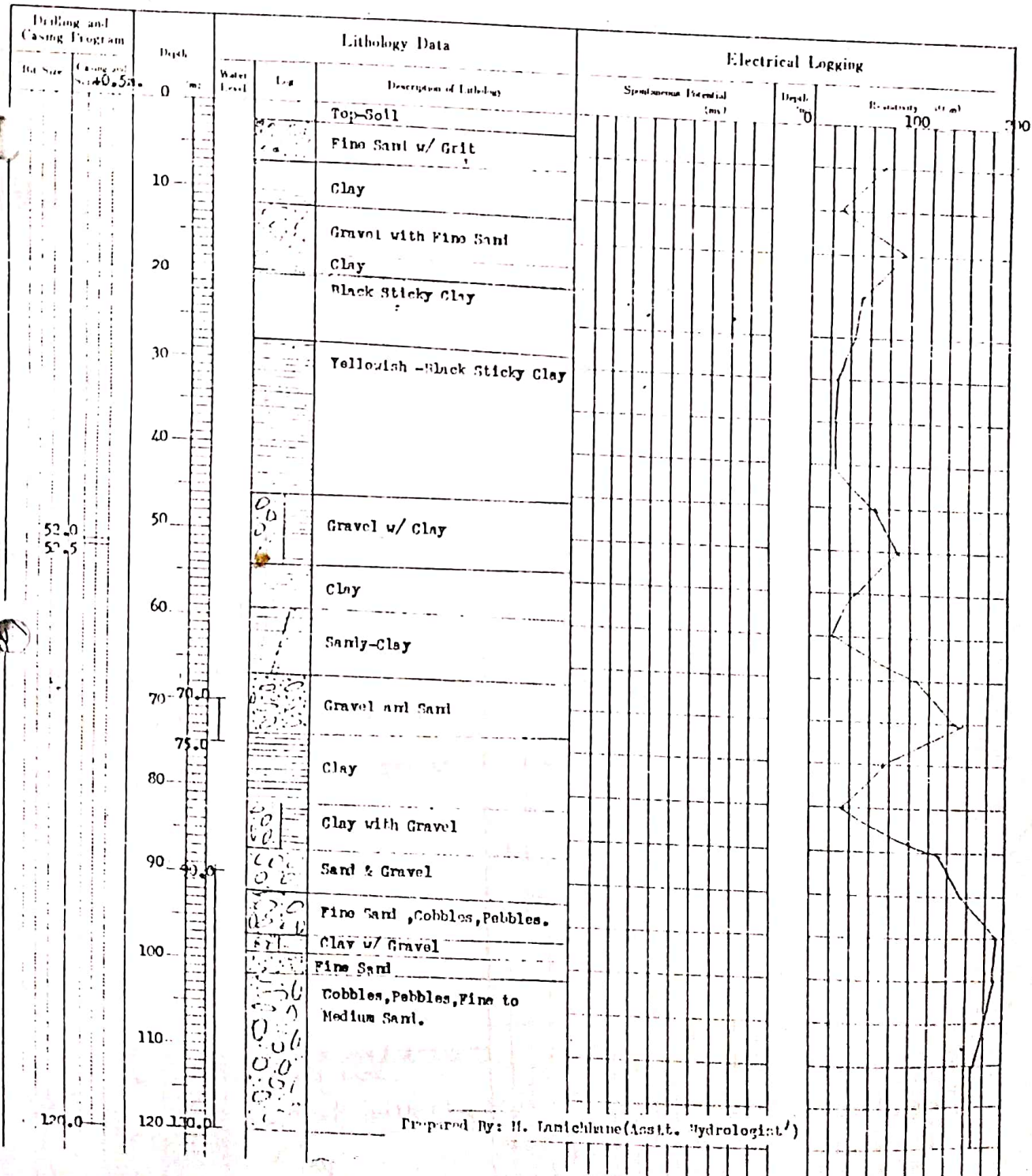
95.0

WELL LOG

Well No.: E-19

PROJECT NAME J.A.D.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION BARHARPUR, Barharpur Village Panchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 120.0	m	DRILLING RIG TM 501st	
DRILLING STARTED		DRILLED BY Mr. S. Jha	
WELL COMPLETED Dec., 1935		LOGGED BY Mr. H. Janichane	

STATIC WATER LEVEL -30.5	m	WATER TEMPERATURE	C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	$\mu\text{mhos/cm}$
PUMPING RATE 3000.0	l min (m^3/d)	pH	
SPECIFIC CAPACITY	$\text{m}^3/\text{d}/\text{m}$	TOTAL HARDNESS	



WELL LOG

Data No **N-41**

PROJECT NAME TIATSP		WELL NO.	
AREA AND LOCATION Bhamburi, S-7 Pk. Satalahi - District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	261.0 m feet	DRILLING RIG	YRD-5 CIR
DRILLING STARTED		DRILLED BY JICA Team & Joshi	
WELL COMPLETED 26 Feb, 1998		LOGGED BY H. ISIKAWA	
<i>Abandoned:</i>			

STATIC WATER LEVEL	X	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	X	feet	CONDUCTIVITY	$\mu\text{S/cm}$
PUMPING RATE	X	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging		
Bit Size	Casing and Screen Size		Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)
		0					
		5.5		TOP - Soil			
		15		sandy clay			
		20		sand			
		25		sand & gravel			
		28		sandy			
		34		Gravel with clay			
		41		Gravel			
				sandy clay			
		60		Blue Black			
		80		yellowish clay			
		100					
		115		sand with clay			
		120					
		140		Blue, yellow sticky clay			
		146		sand with clay			
		151		clay			
		160		clay with gravel			
		180		Clay			
		200					
		213		Gravel with clay			
		217		Clay			
		228		sand gravel & clay			
		230		Sandy clay			
		240					
		289		Gravel with clay			
				Clay.			
		261					

Drilling Hole is abandoned due to absence of Aquifer.

261

WELL LOG

Well No: B-10

PROJECT NAME T.I.A.S.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION DATEHORE, Dharmaha-District, Jharkhand-Zone.		LATITUDE _____ LONGITUDE _____	
ELEVATION _____ m	TOTAL DEPTH 123.0 m		
DRILLING STARTED _____		DRILLING RIG TRO-500	
WELL COMPLETED May., 1997		DRILLED BY Sulesh Ram	
		LOGGED BY P. Mukherjee	

STATIC WATER LEVEL -42.0 m	WATER TEMPERATURE _____ °C
DYNAMIC WATER LEVEL -54.0 m	CONDUCTIVITY _____ $\mu S/cm$
PUMPING RATE 1500.0 l/min (m ³ /d)	pH _____
SPECIFIC CAPACITY _____ m ³ /d m	TOTAL HARDNESS _____

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
Bit Size	Casing and Log		Water Level	Log	Spontaneous Potential (mV)		Depth (m)	Resistivity (Ωm)
	10.5	0					100	
		10		Sandy Clay				
		20		Silty Clay				
		30		Black Sticky Clay				
		40		Gravel with Sand				
		50		Yellowish Sticky Clay				
		60		Fine to Coarse Sand				
		66.0		Clay with Gravel				
		68.0						
		73.5		Fine to Medium Gravel, Coarse Sand				
		80		Black Sticky Clay				
		88.0						
		94.0		Gravel with Sand				
		100		Black Sticky Clay				
		110						
		119.5		Roulders, Cobbles, Pebbles, & Sand				
		123.0		Yellowish Sticky Clay.				
		130						

WELL LOG

Well No

N-54

PROJECT NAME TIATSP		WELL NO	
AREA AND LOCATION Balganga, Ghumkuli Sarlahi District			
ELEVATION	feet	LATITUDE	LONGITUDE
TOTAL DEPTH	92.5 feet	DRILLING RIG	TRD-500
DRILLING STARTED		DRILLED BY	Sudesh Bana
WELL COMPLETED	May, 1988	LOGGED BY	M. Lan...

STATIC WATER LEVEL	-17.00 feet	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	-23.48 feet	CONDUCTIVITY	
PUMPING RATE	48.0 $\frac{\text{m}^3}{\text{d}}$	pH	
SPECIFIC CAPACITY		TOTAL HARDNESS	

हरि विकास योजना
 मकटाशीखण्ड

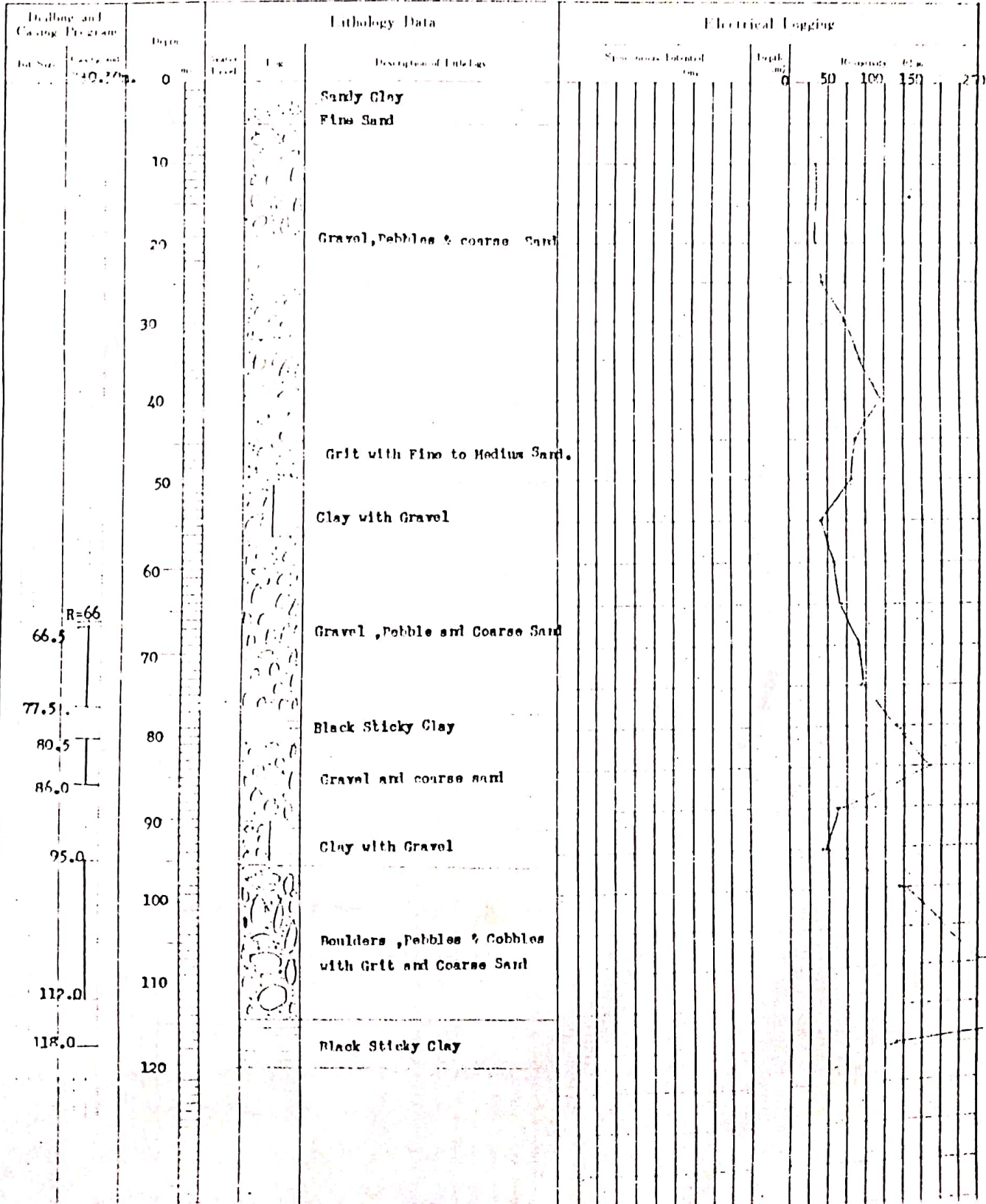
Drilling and Casing Program		Depth (feet)	Lithology Data		Electrical Logging				
			Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)	
57.5 = R 32.5 62.5 73 79 92.0	5" IPS Casing and Screen Size	0			Sandy clay				
		10			Sand & fine gravel				
		20			Black sticky clay				
		30			Clay with Gravel				
		40			Clay mixed med. gravel				
		50			Black sticky clay				
		60	62.5			Pebbles, gravel			
		70				Coarse sand			
		80							
		90	90.0			Black sticky clay			
100									

WELL LOG

Well No: H 32

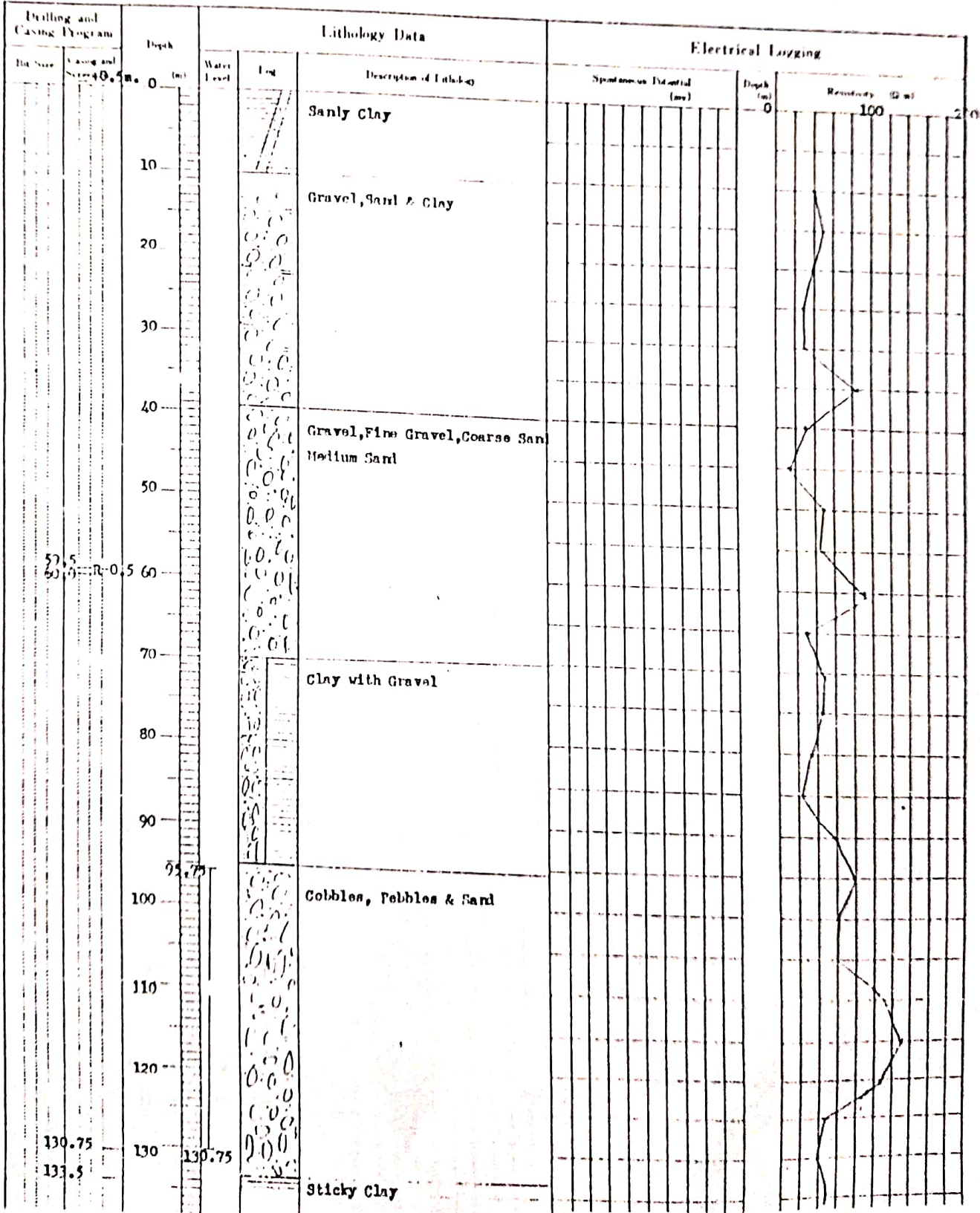
PROJECT NAME T.T.A.T.S.P.		Size: 1 1/2" R _n	
AREA AND LOCATION HATILET, Mahottari-District, Jankpur-Zone.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 118.0	m	DRIILLING RIG	YRD 501R
DRIILLING STARTED		DRIILED BY	G. Joshi
WELL COMPLETED	May, 1987	LOGGED BY	P. Khitya

STATIC WATER LEVEL	- 41.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	- 61.0	m	CONDUCTIVITY	µmhos/cm
PUMPING RATE	1500.0	Cum. (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



PROJECT NAME	J.A.D.P.	Size:	1 1/2" / 8"
AREA AND LOCATION	DIGHARPUR, Digambarpur Village (anchayat	ELEVATION	m
LATITUDE		LONGITUDE	
TOTAL DEPTH	133.5	m	
DRILLING STARTED		DRILLING RIG	YRD 501"R"
WELL COMPLETED	May, 1986	DRILLED BY	Mr. G. Joshi
		LOGGED BY	Mr. P. Mubhya

STATIC WATER LEVEL	-20.50	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	?	m	CONDUCTIVITY	µS/cm
PUMPING RATE	1200.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

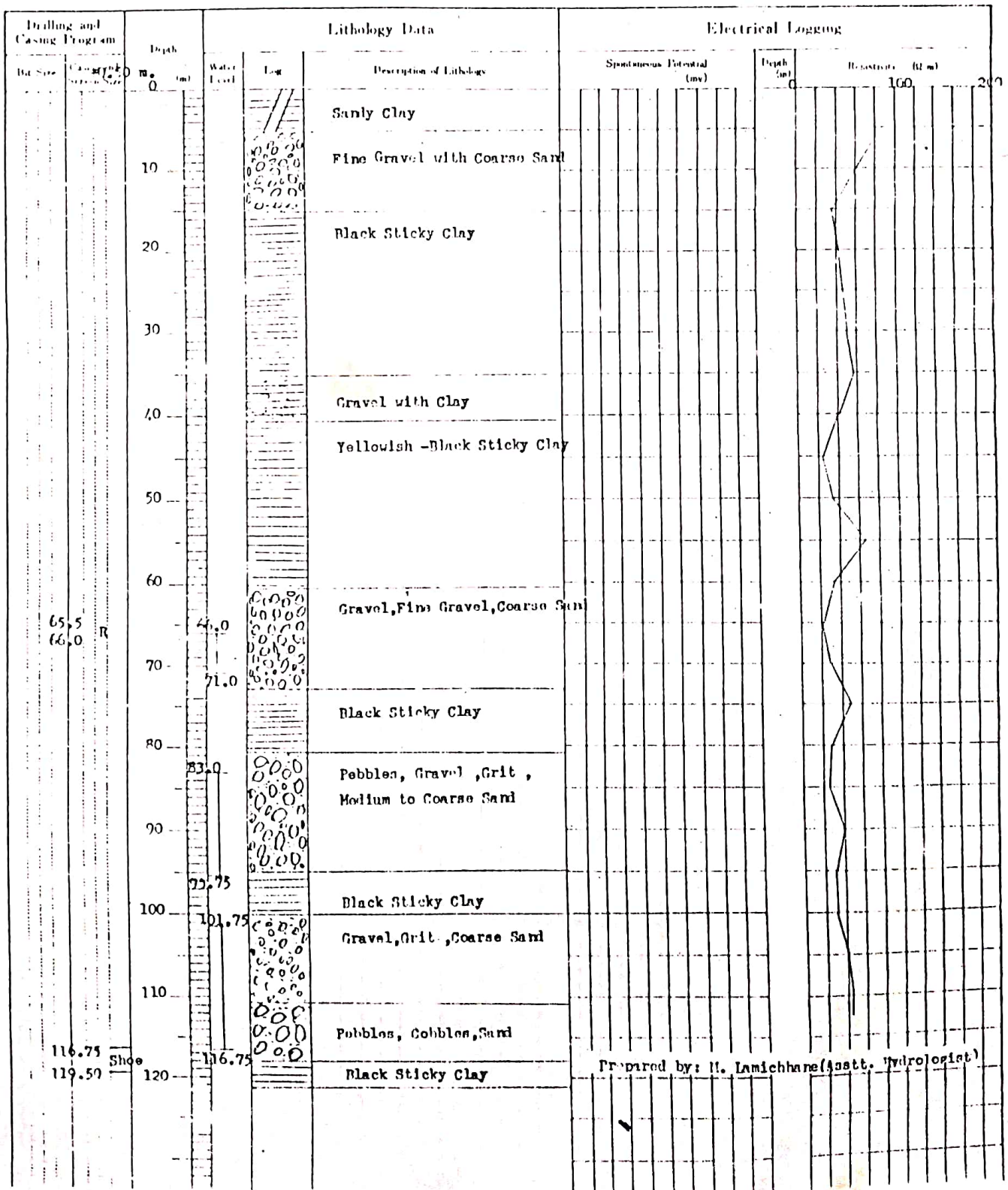


WELL LOG

Well No: 2-20

PROJECT NAME: J.A.D.P.		Size: 1 1/2" R#	
AREA AND LOCATION: RUPACHOJK, Vagvabhuai Village Panchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	119.50	DRELLING RIG	YRD 501"R"
DRELLING STARTED		DRELLER BY	Mr. G.D. Joshi
WELL COMPLETED	Feb, 1986	LOGGED BY	Mr. H. Jamichhane

STATIC WATER LEVEL	-12.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY	μS/cm
PUMPING RATE	900.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d.m	TOTAL HARDNESS	

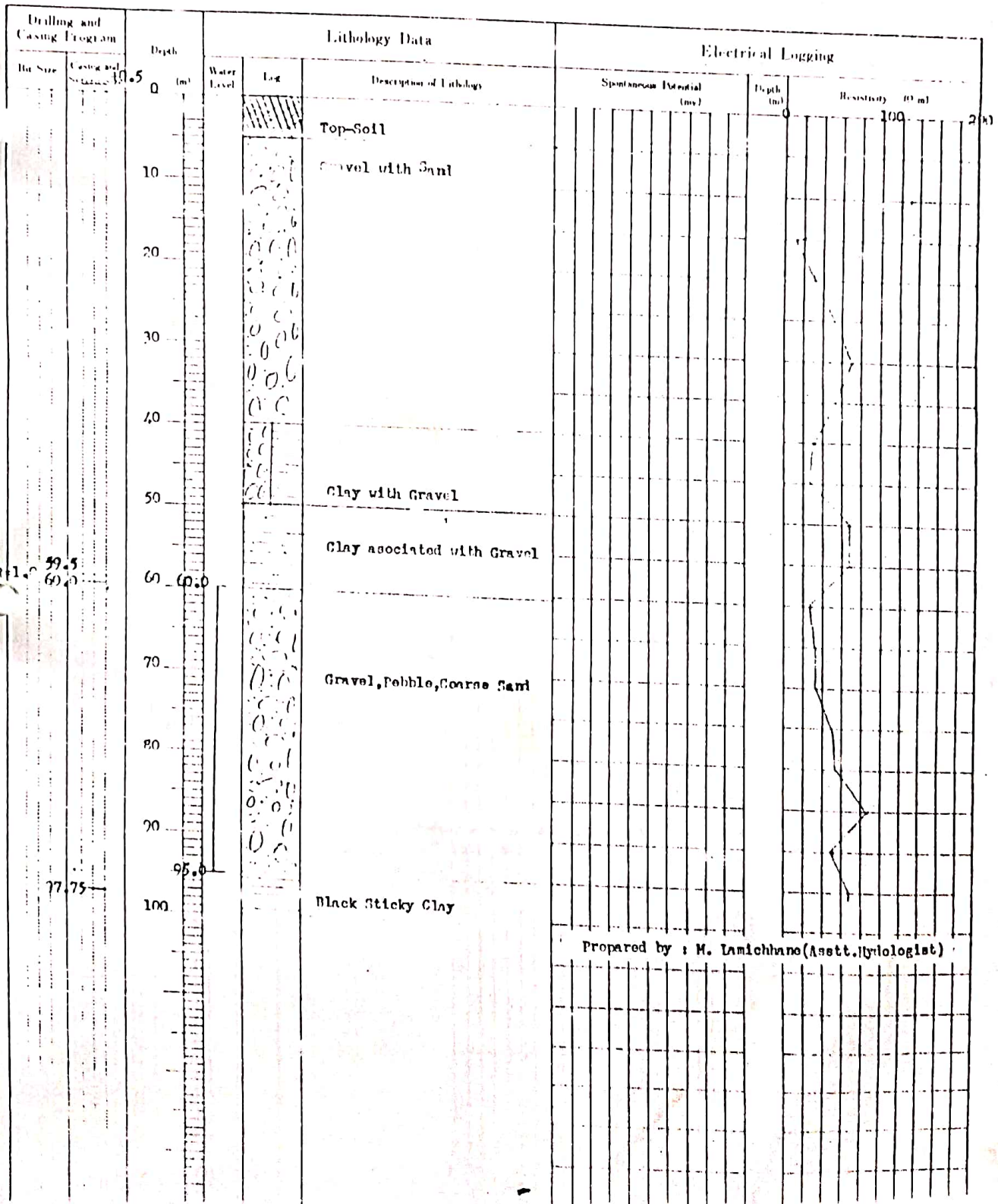


WELL LOG

WB 11 Form: 11-21

PROJECT NAME J.A.D.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION DADATOLE, Vargablaui village Panchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 97.75	m	DRILLING RIG YRD-501"R"	
DRILLING STARTED		DRILLED BY S. Jha	
WELL COMPLETED Feb., 1986		LOGGED BY H. Lamichhane	

STATIC WATER LEVEL -39.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	$\mu\text{S/cm}$
PUSHING RATE 900.0	cm/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

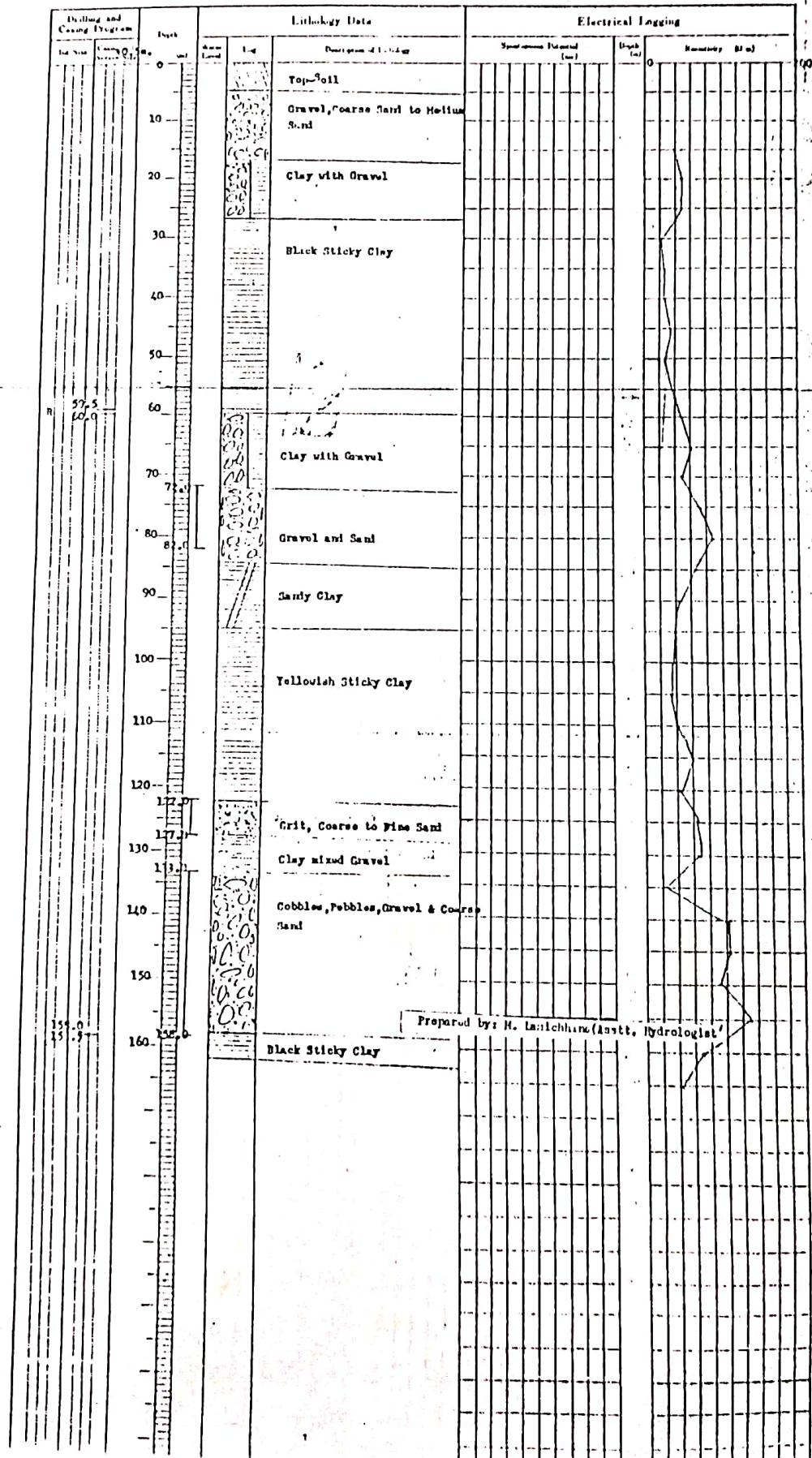


WELL LOG

Well No. W-13

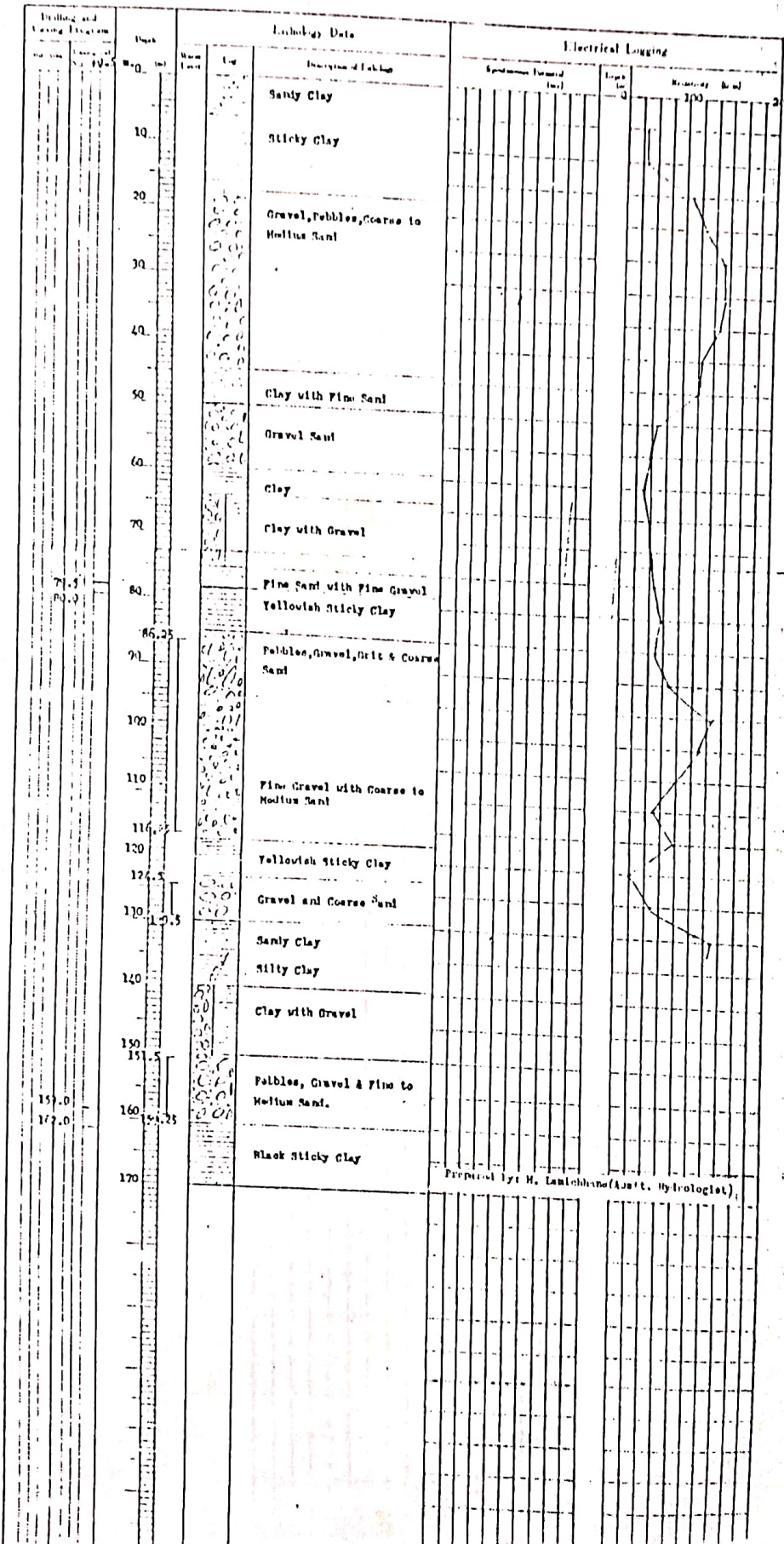
PROJECT NAME: J.S.D.P.		Size: 14"/8"
AREA AND LOCATION: BAKCHUA, Eschour	Village: Panchoyt	
ELEVATION: _____	LATITUDE: _____	LONGITUDE: _____
TOTAL DEPTH: 158.5	DILLING NO: 100-5018*	
DILLING STARTED: _____	DILLED BY: Mr. D. N. Sen & Sudip Bara	
WELL COMPLETED: Apr 22, 1966	LOGGED BY: Mr. D. N. Sen	

STATIC WATER LEVEL: 10.20	WATER TEMPERATURE: _____ °C
DYNAMIC WATER LEVEL: _____	CONDUCTIVITY: _____ μS/cm
PUMPING RATE: 2400.0 (liters/min) (100 GPM)	pH: _____
SPECIFIC CAPACITY: _____ m ³ /day	TOTAL HARDNESS: _____



PROJECT NAME	J. V. P.	Sheet	12/A
WELL AND LOCATION	CHIVAPURTHA, Marathpur	Village	Panchayat
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	162.0	DRILLING DIG	100 20140
DRILLING STARTED		DRILLED BY	Mr. A. Jadhav
WELL COMPLETED	Jan, 1946	TESTED BY	Mr. H. Lamichhane

STATIC WATER LEVEL	-47.00	WATER TEMPERATURE	Y
DYNAMIC WATER LEVEL		CONDUCTIVITY	μm/cm
FLOWING RATE	1000.0 l/min		
ELECTRIC CAPACITY			



Prepared by: H. Lamichhane (Asst. Hydrologist)

PROJECT NAME Agr. dev. Project		WELL NO. 4	
AREA AND LOCATION Amiliya P.K.V.D.S			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 84	m	DRILLING RIG YRD 500	
DRILLING STARTED		DRILLED BY S. JHA	
WELL COMPLETED		LOGGED BY S. JHA	

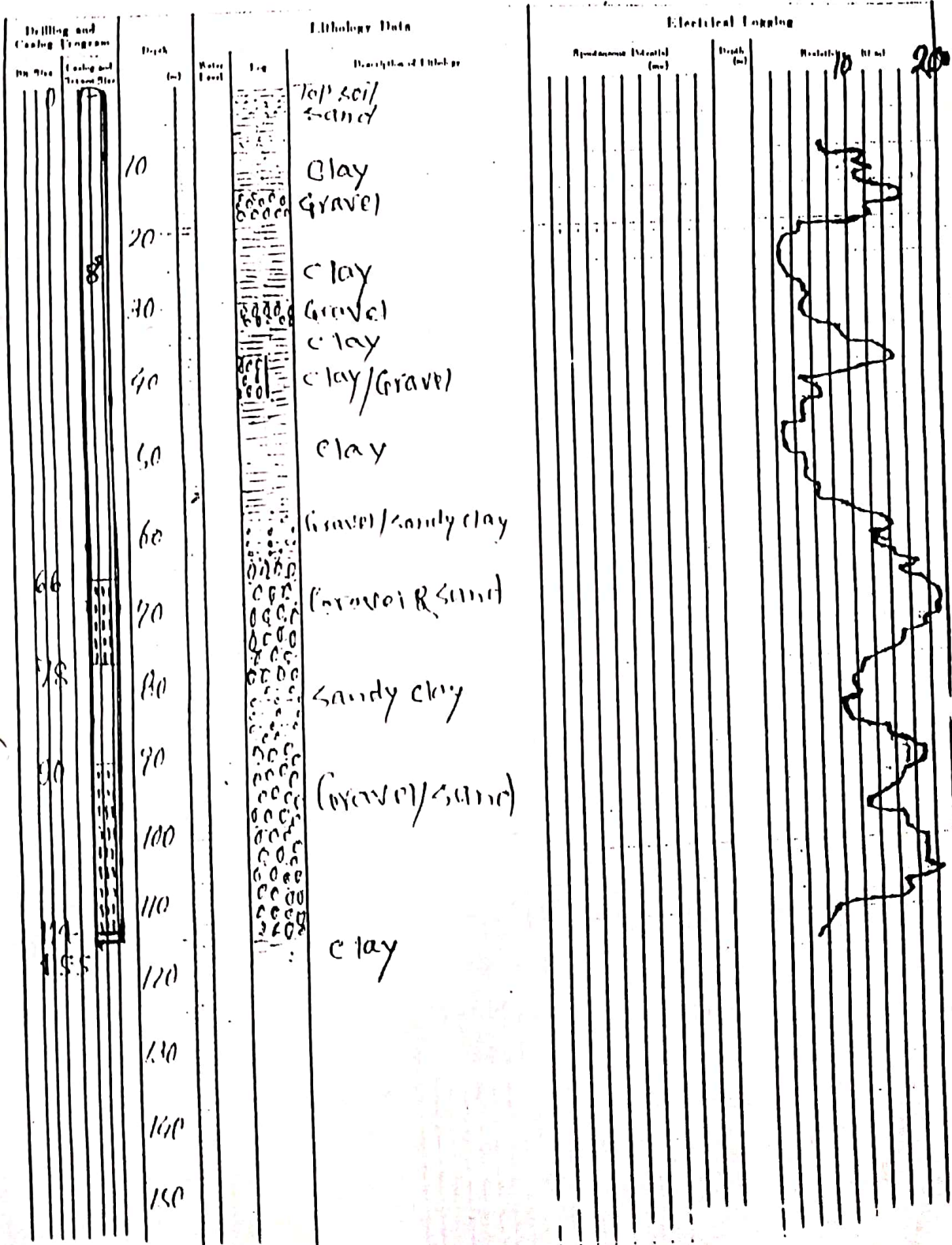
STATIC WATER LEVEL	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	µS/cm
PUMPING RATE	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging			
No.	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0						
		10						
		20						
		30						
		40						
		50						
		60						
		70						
		80						
		90						
		100						
		110						
		120						
		130						
		140						
		150						

Agriculture Development Project, January 1963
WELL LOG
 Data No.

PROJECT NAME: Agriculture Project	WELL NO.
AREA AND LOCATION: Agriculture Tools Factory, Birgung	LATITUDE: _____
ELEVATION: _____	LONGITUDE: _____
TOTAL DEPTH: 115.5	DRILLING NO: TRD 500
DRILLING STARTED: 051-8-15	DRILED BY: R.B.K.C.
WELL COMPLETED: 051-10-15	LOGGED BY: R.B.K.C.

STATIC WATER LEVEL: 2.0	WATER TEMPERATURE: _____ °C
STANDARD WATER LEVEL: _____	CONDUCTIVITY: _____ μS/cm
FORMING DATE: 30-10-1963	pH: _____
SPECIFIC CAPACITY: _____ m ³ /m	TOTAL HARDNESS: _____



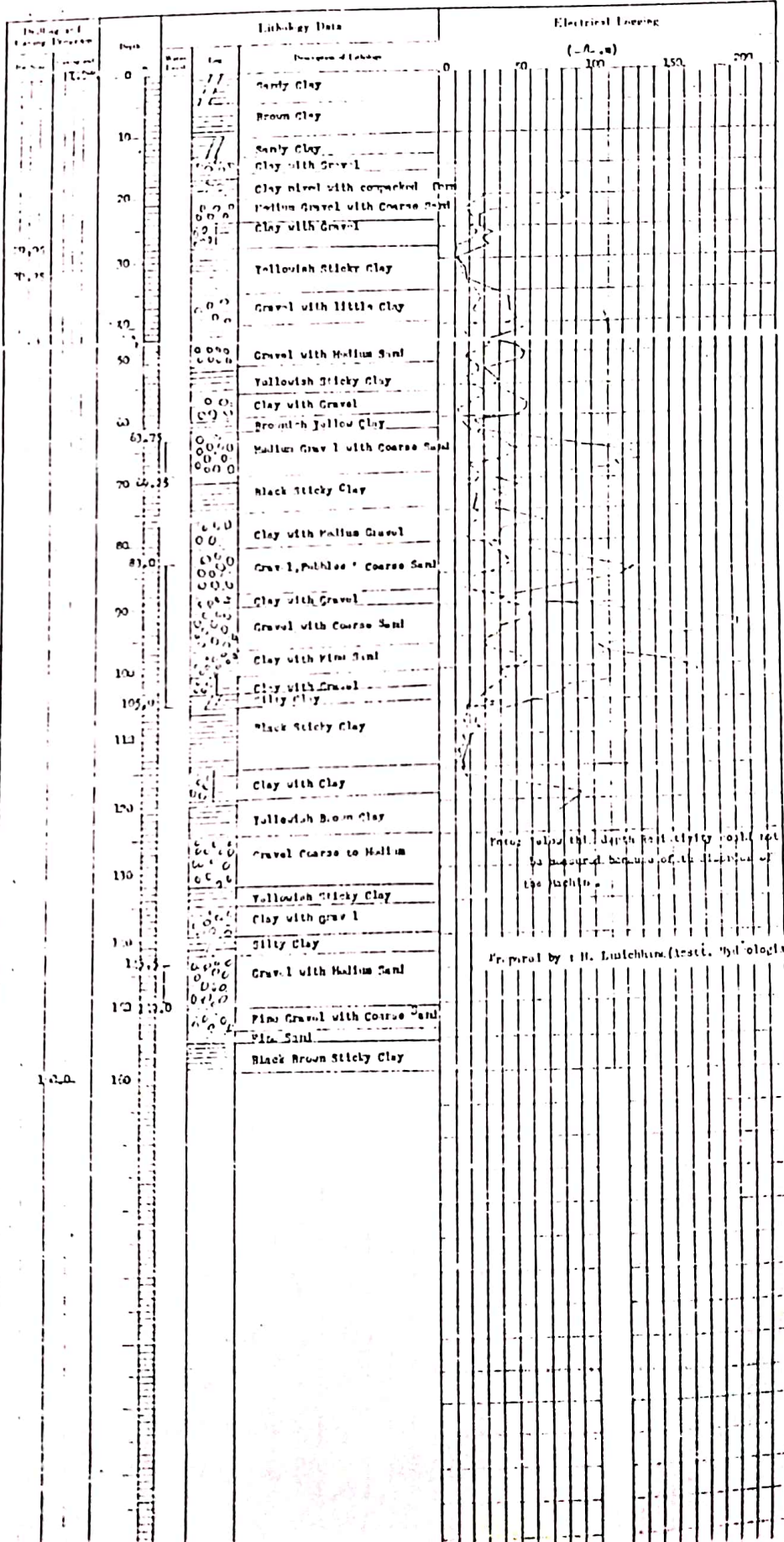
Dr. R.B.K.C.
 R.B.K.C.
 052-2-26

WELL LOG

V-11 Form 7-4

PROJECT NAME <u>3, 4, 7, P</u>		SIZE <u>100/80</u>	
AREA AND LOCATION <u>NOT DATE No. 2, 2nd Intn</u>			
ELEVATION _____ m	LATITUDE _____		LONGITUDE _____
DEAL DEPTH <u>100.0</u>	DRILLING NO. <u>721 721 A</u>		
DRILLING STARTED <u>23 Dec., 1977</u>	BUILT BY <u>Pr. H. H. Parkl</u>		
WELL COMPLETED <u>1 Apr., 1977</u>	LOGGED BY <u>Pr. H. Lutschhurn</u>		

STATIC WATER LEVEL <u>61.539</u> m	WATER TEMPERATURE _____ °C
DYNAMIC WATER LEVEL <u>67.605</u> m	CONDUCTIVITY _____ μm/cm
PUMPING RATE <u>1000.0</u> l/min	pH _____
SPECIFIC CAPACITY _____ m ³ /m	TOTAL HARDNESS _____



Notes: (1) The depth of the clay is not to be measured because of the thickness of the shells.

Prepared by: H. Lutschhurn (Geol. Technologist)

WELL LOG

WELL NO

TRAINING CENTRE

39

PROJECT NAME JANAKPUR AQUACULTURE		WELL NO	
AREA AND LOCATION JANAKPUR			
DEPTH 150.00	feet	LATITUDE	LONGITUDE
DRILLING STARTED 09/6/10	feet	DRILLING RIG VBM SOL L 111 P 1	
WELL COMPLETED 09/6/10		DRILLED BY S JHA	
		LOGGED BY M. Kamichhane	

STATIC WATER LEVEL 110	feet	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	feet	CONDUCTIVITY	μS/cm
DRILLING RATE 60	ft/min	pH	
SPEED OF CAPACITY 60	m ³ /m	TOTAL HARDNESS	

Casing Bit Size	Depth (ft)	Lithology Data		Electrical Logging		
		Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ωm)
	0		Top Soil			
	10		Black Shaly			
	20		shaly clay			
	30		Sandy clay			
	40		shaly Black clay			
	50		Gravels - Sand			
	60		clay mixed gravel			
	70		Rich clay gravels			
	80		shaly Black clay			
	90		Gravels Pure			
	100		Black clay			
	110		Gravels			
	120		Black clay			
	130		Gravels Pure			
	140		Black clay			
	150					

14' casing 20m

8" slotted 22m + 31m

8" casing 81m

production 147-150

WELL LOG

Well Form: W-6

PROJECT NAME J.A.D.P.		Size: 1 1/8"	
AREA AND LOCATION LAKHANPUR, Bharatpur Village Tanchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 104.75	m	DRILLING RIG	TRD-500
DRILLING STARTED		DRILLED BY	Mr. G. Joshi
WELL COMPLETED Feb., 1986		LOGGED BY	Mr. H. Lamichhane

STATIC WATER LEVEL -32.00	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	µmhos/cm
PUMPING RATE 1500.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth 0.5 m. Int.	Lithology Data		Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)
		0		Top Soil		0	100
		10		Fine Gravel with Coarse Sand			
		20		Black Sticky Clay			
		30					
		40		Clay w/ Gravel			
		50		Clay Alt. Gravel			
		60		Clay with Gravel			
		66.0					
		70		Gravel, Fine to Medium Sand			
		77.0		Yellowish Sticky Clay			
		80		Fine to Medium Gravel & Coarse to Medium Sand			
		90					
		100					
		102.0					
		104.75		Black Sticky Clay			

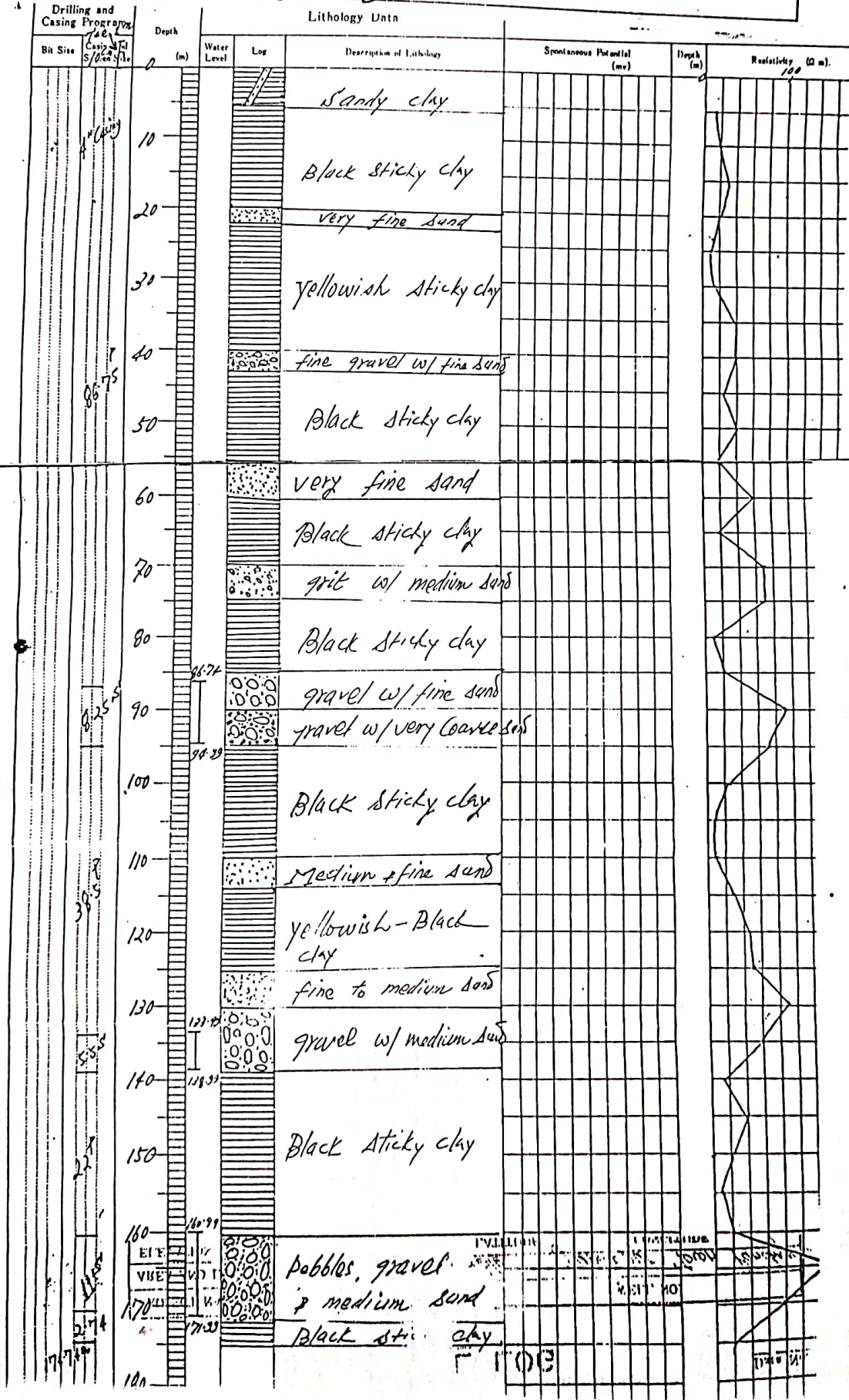
53.5
52.0

r=0.5

Prepared by: M. Lamichhane (Asst. Hydrologist)

AREA AND LOCATION <i>Janaki Temple, Janakpur Town Panchayat</i>		WELL NO.	
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH <i>174.74</i>	m	DRILLING RIG	<i>R. B. K.C.</i>
DRILLING STARTED		DRILLED BY	<i>TOP "150" (Tractor Mounted)</i>
WELL COMPLETED <i>May 1986</i>		LOGGED BY	<i>P. Mukhiya</i>

STATIC WATER LEVEL <i>+1.000</i>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL <i>-5.00</i>	m	CONDUCTIVITY	μS/cm
PUMPING RATE <i>25.0 gpacl</i>	m ³ /d	pH	
SPECIFIC CAPACITY <i>5.0 gpacl (Artesian)</i>		TOTAL HARDNESS	

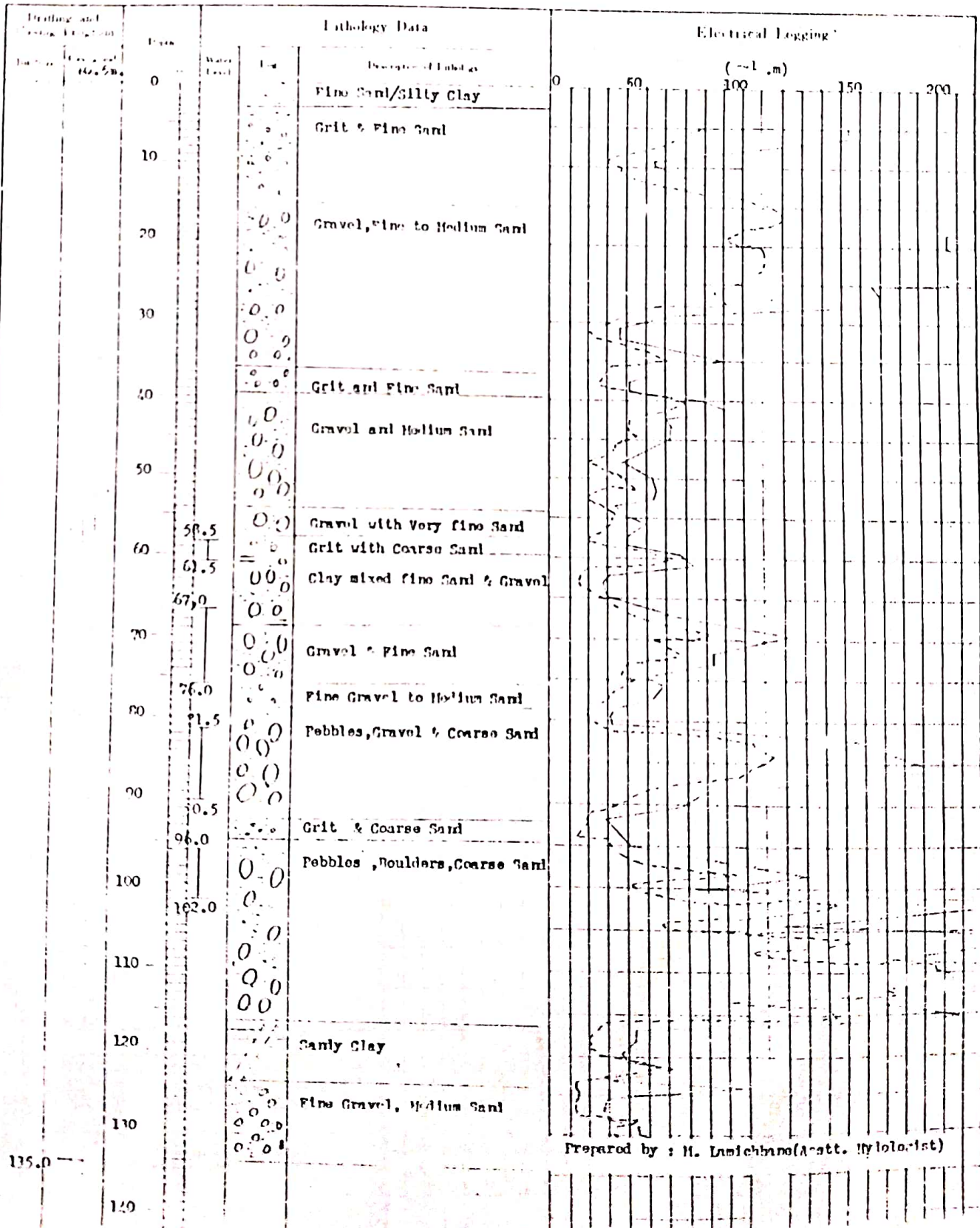


WELL LOG

Well No. 100

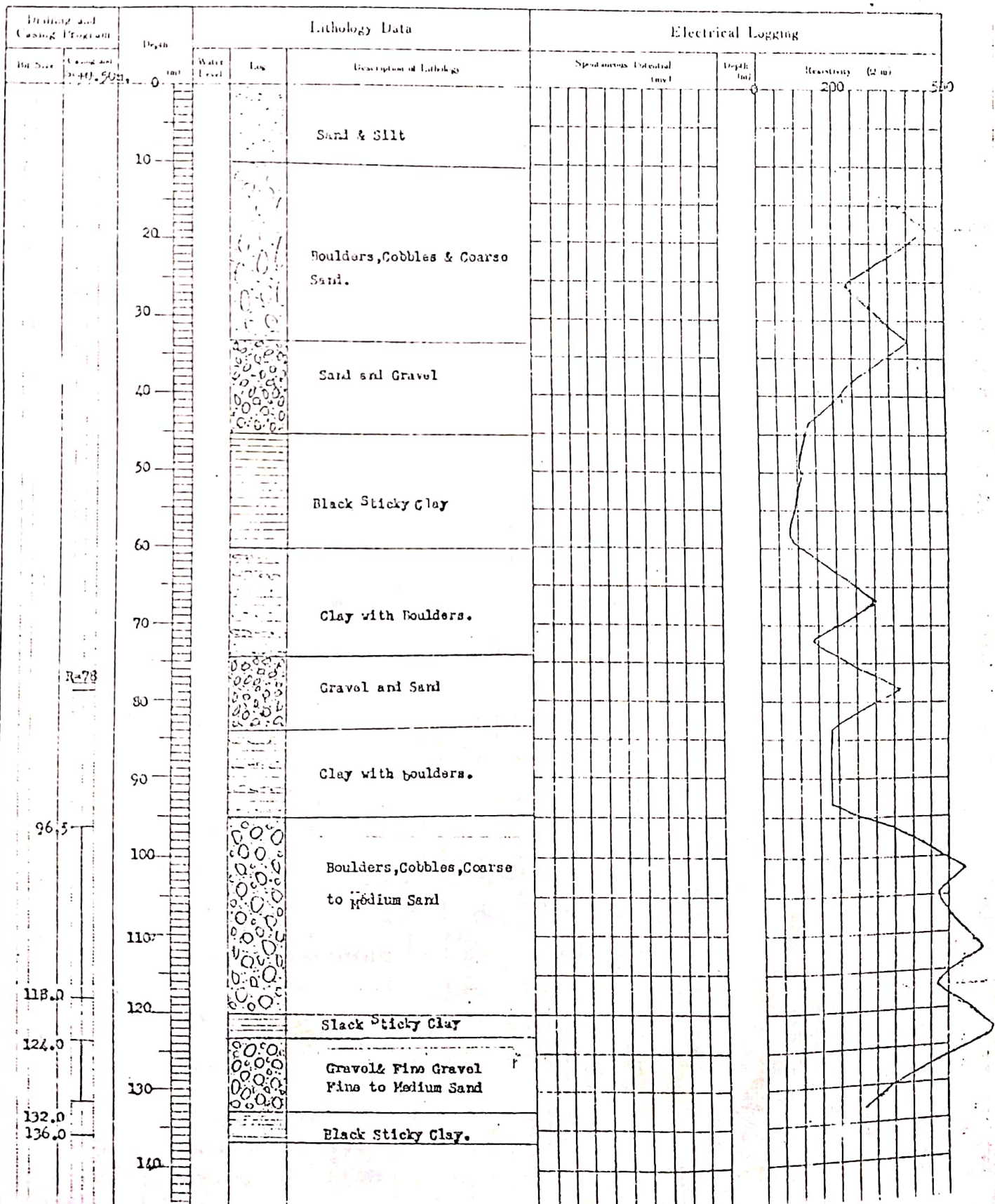
PROJECT NAME J.A.D.P.		Size: 6" / 6"	
AREA AND LOCATION J.A.D.P. Centro, Nakatshij			
DEPTH (m)		LATITUDE	LONGITUDE
TOTAL DEPTH 135.0	m	DRIILLING RIG T21 120A	
DRIILLING STARTED 17 Dec., 1974		DRIILED BY Mr. D.E. Karki & Mr. Y. Hida (JAPAN)	
WELL COMPLETED 3 Jan., 1975		LOGGED BY Mr. K. Sugimatsu (JAPAN)	

STATIC WATER LEVEL -14.350	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL -27.50	m	CONDUCTIVITY	μS/cm
PUMPING RATE 100.0	l/min	pH	
SPECIFIC CAPACITY	m ³ /d.m	TOTAL HARDNESS	



PROJECT NAME T.I.A.T.S.P.		Size: 14"/8"	
AREA AND LOCATION BAWLYON, Sarlahi-District, Jambhupur-Zone.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	136.0	DRILLING RIG	TRD 500
DRILLING STARTED		DRILLED BY Sudesh Rani	
WELL COMPLETED Mar, 1987		LOGGED BY P. Mukhiya	

STATIC WATER LEVEL	-51.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-57.0	m	CONDUCTIVITY	µm/cm
PUMPING RATE	1500.0	lit/min	pH	
SPECIFIC CAPACITY		m ³ /d.m	TOTAL HARDNESS	

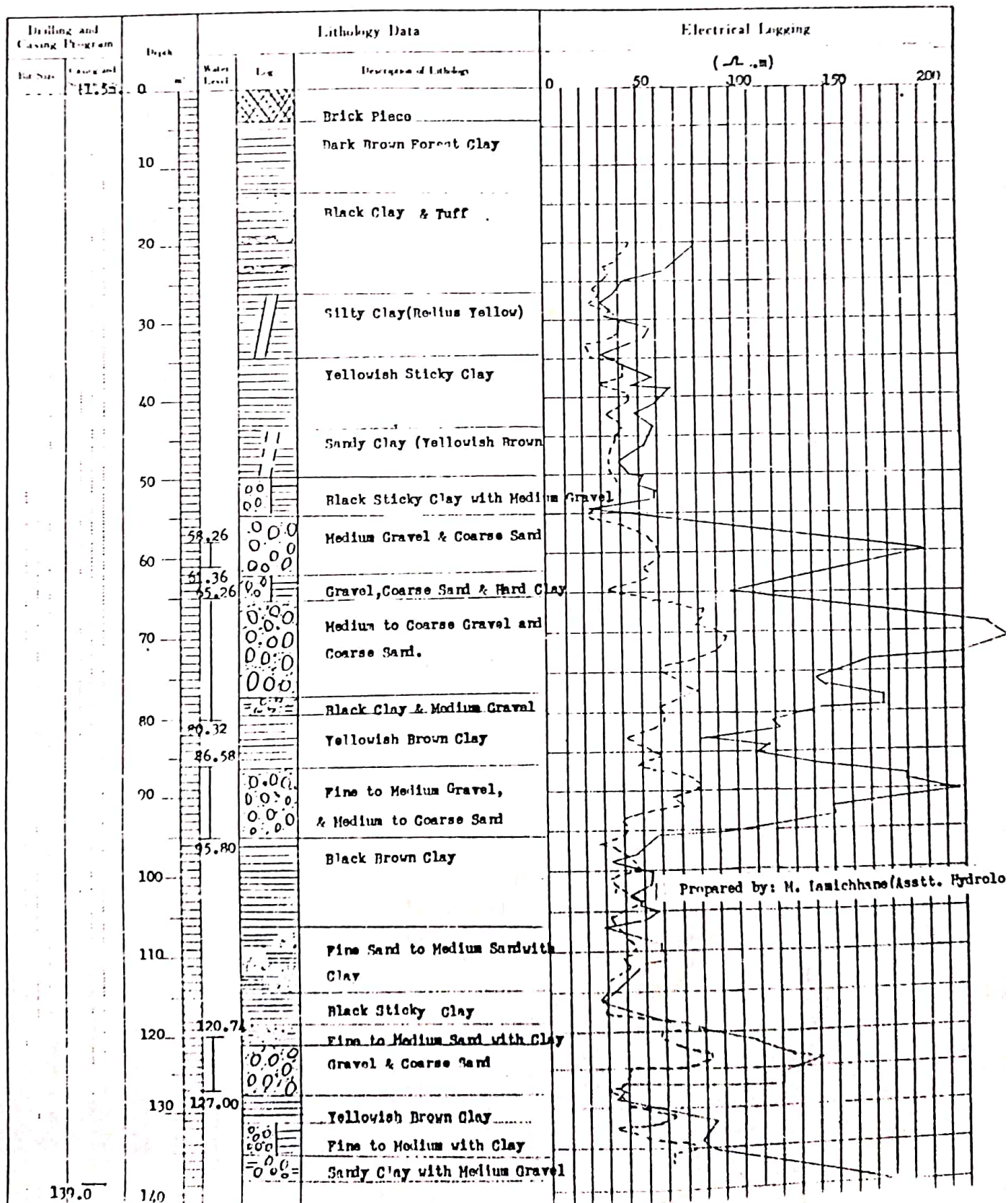


WELL LOG

Well No. J-15

PROJECT NAME J.A.D.P		Size: 8"/8"	
AREA AND LOCATION JARAKPUR HORTICULTURE FARM, Jarakpur-Jhan			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	139.0	DRILLING LOG TYP 72" A"	
DRILLING STARTED	10 Nov., 1976	DRILLED BY Mr. D. N. Karki	
WELL COMPLETED	2 Dec., 1976	LOGGED BY Mr. H. Lamichhane	

STATIC WATER LEVEL	+1.000	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-15.560	m	CONDUCTIVITY	µS/cm
PUMPING RATE	900.0	(l/min) m ³ /d	pH	
SPECIFIC CAPACITY		m ³ /d m	TOTAL HARDNESS	

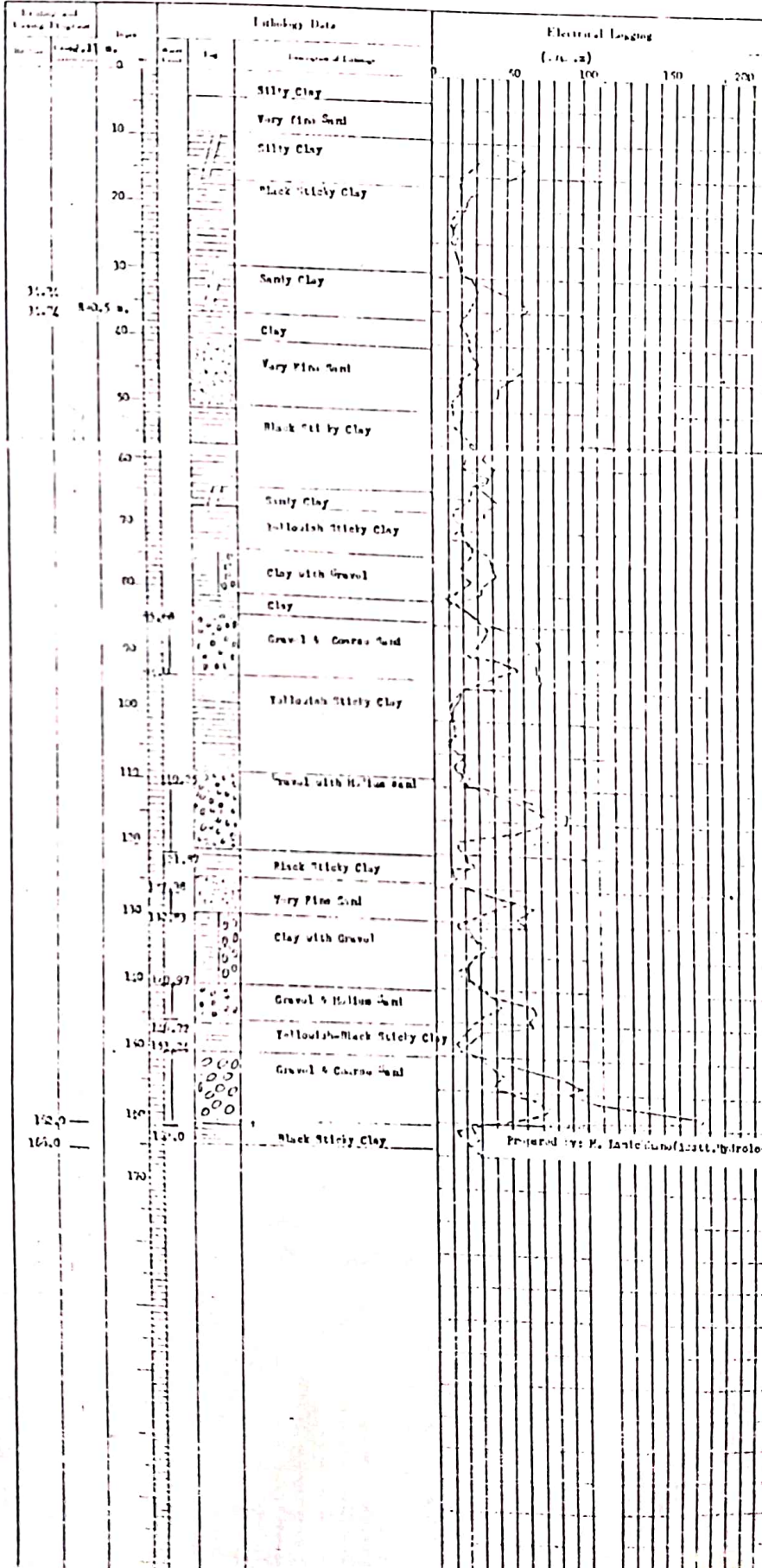


WELL LOG

(Well No. 12-78)

PROJECT NAME: J. S. P.		Size: 12" x 8"	
AREA AND LOCATION: GURU NANAK DEVJI, GODHAS, SHATHA SASTHAN, DHANUSA,		LATITUDE: _____	
ELEVATION: _____		LONGITUDE: _____	
TOTAL DEPTH: 165.0	DRIILLING RIG: _____	DRIILLING DATE: _____	
DRIILLING STARTED: 6/27/51	DRIILLING BY: Mr. S. Janichand & Dr. P. Prabhakar		
WELL COMPLETED: 6/28/51	LOGGED BY: _____		

STATIC WATER LEVEL: 11.350	WATER TEMPERATURE: _____
DYNAMIC WATER LEVEL: 25.021	CONDUCTIVITY: _____
TEMPER. RATE: 2.79, 0	PH: _____
SPECIFIC GRAVITY: _____	TOTAL HARDNESS: _____

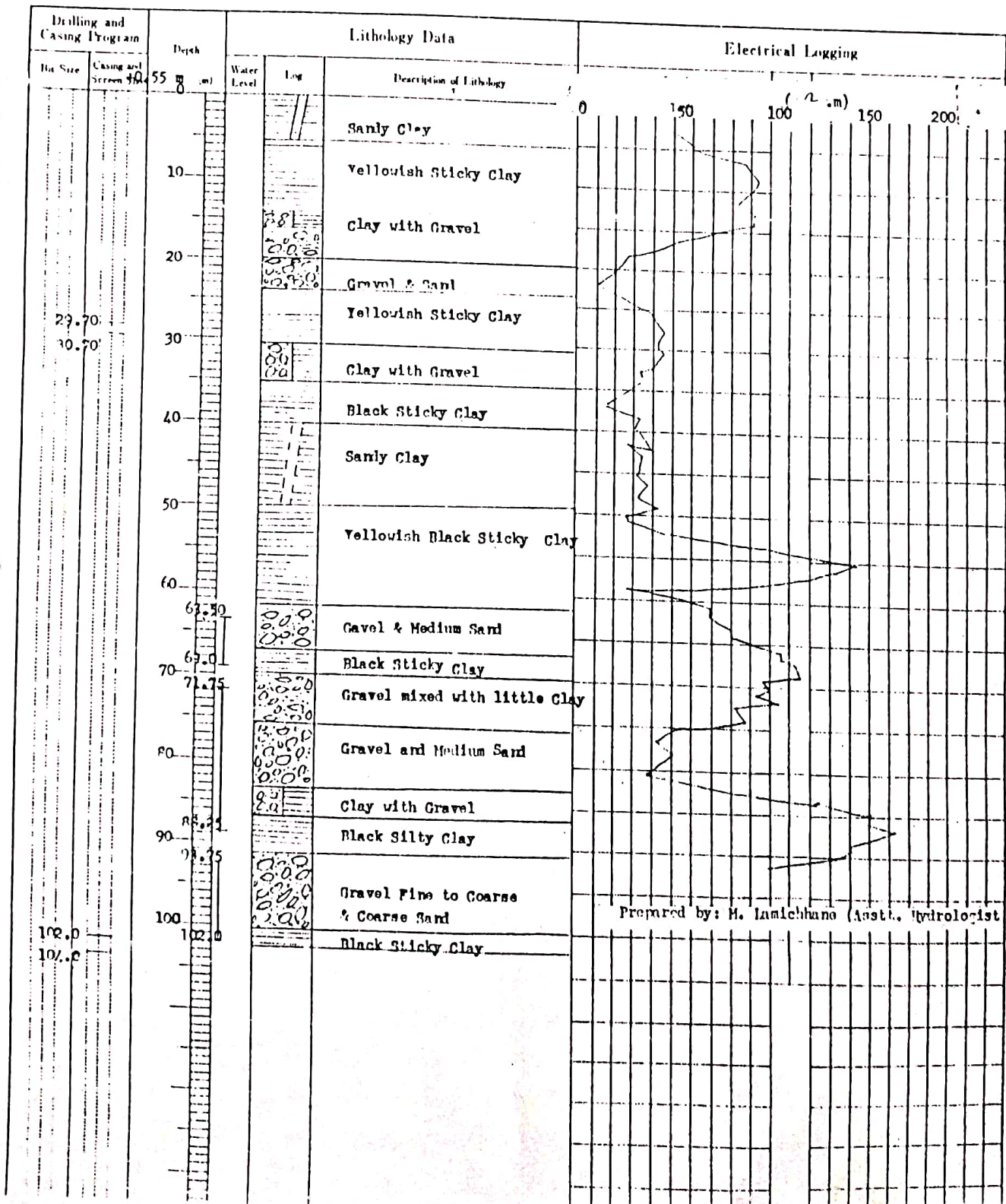


WELL LOG

Well Name: J-5

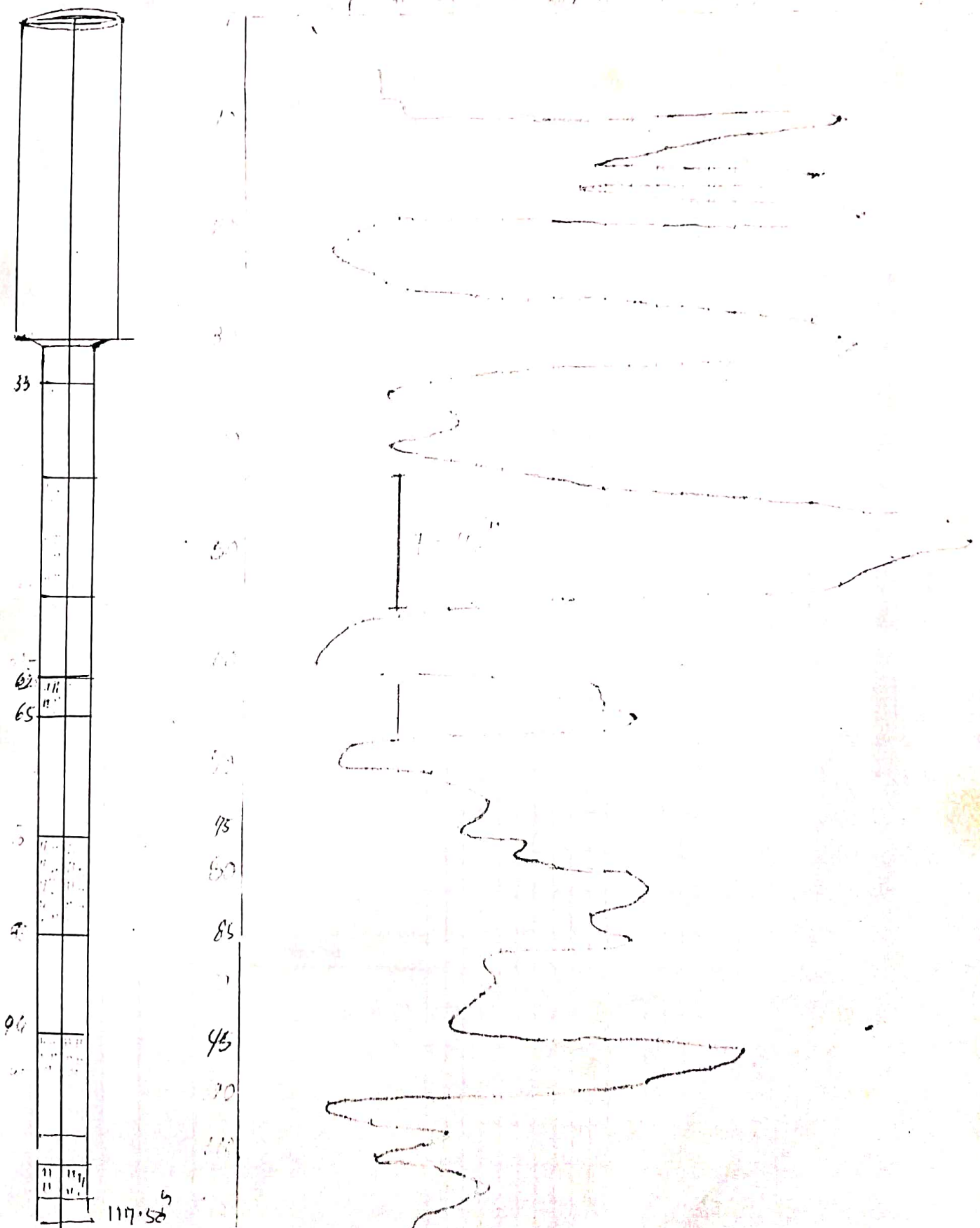
PROJECT NAME J.A.D.P.		Size: 12"/8"	
AREA AND LOCATION HODINATH AGRICULTURE FARM No 3, Paniniya			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	104.60	DRILLING RIG TIM 72" A"	
DRILLING STARTED		DRILLED BY Mr. S. Lamichhane & Mr. P. Mukhiya	
WELL COMPLETED 13 June, 1980		LOGGED BY Mr. M. Lamichhane	

STATIC WATER LEVEL	+ 2.000	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-27.000	m	CONDUCTIVITY	μS/cm
PUMPING RATE	2118.0 l/min	m ³ /d	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



वैल-६, हनुमाननगर-५

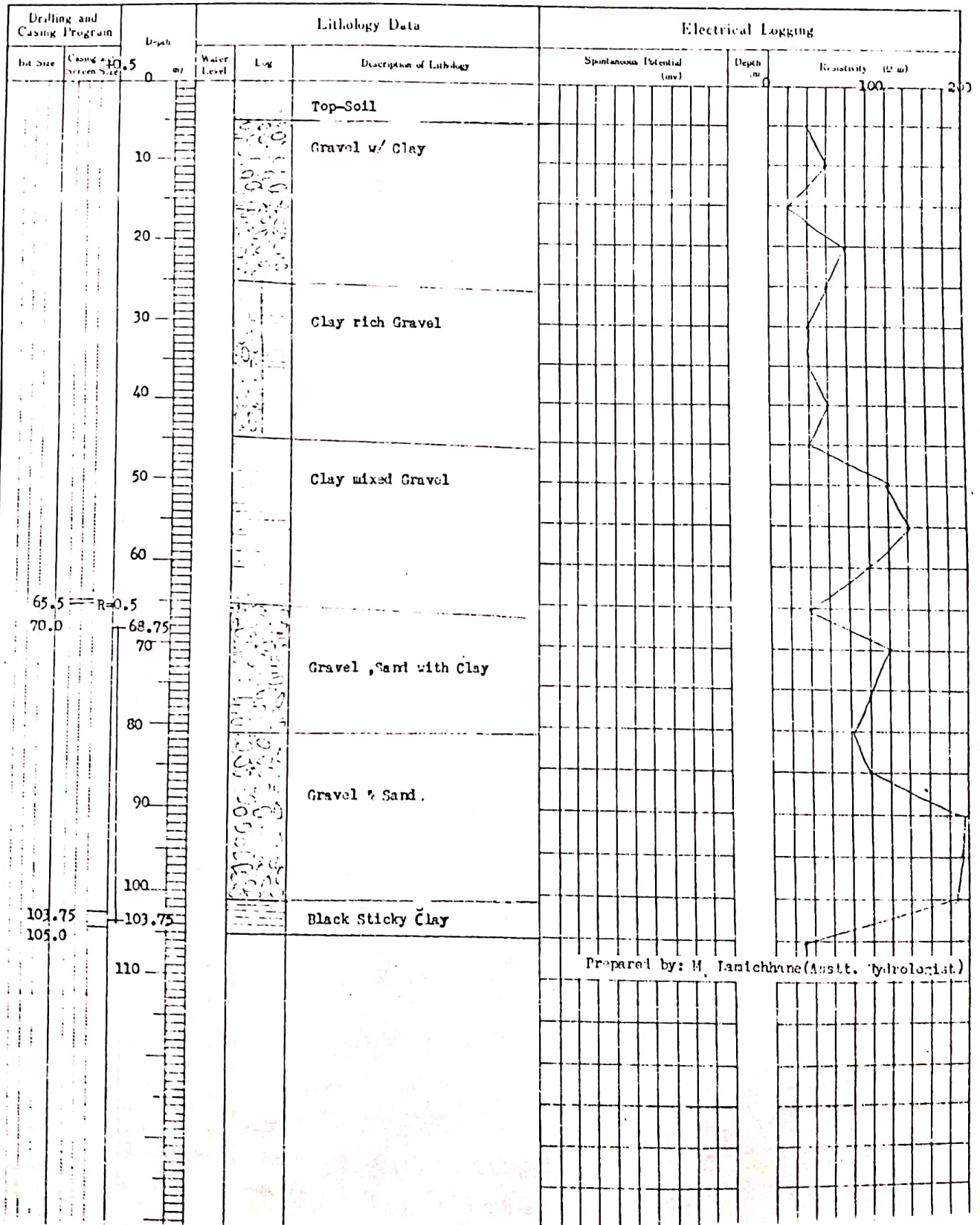
आ. व. ०५३/५४



117.58

PROJECT NAME J.A.D.P.		Size: 14"/8"	
AREA AND LOCATION LALVITTI, Hariharpur Village Panchayat.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	105.0 m	DRILLING RIG	YTM-501"R"
DRILLING STARTED		DRILLED BY	Mr. S. Jha
WELL COMPLETED	Apr., 1986	LOGGED BY	Mr. H. Janichhane

STATIC WATER LEVEL	-62.0 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	$\mu\text{S}/\text{cm}$
PUMPING RATE	900.0 l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



0.

0.5 m. 4. L.

Total Depth - 172.5 m.

14" pipe - 42.0 m.

14" x 8" Red. - 0.5 m.

8" pipe - 94.0 m.

14" pipe

8" slotted pipe - 36.0 m.

42.0 m.

Total 172.5 m.

14" x 8" Reducer 0.5 m.

8" pipe 84.0 m.

6.0 m. 8" slotted pipe.

9.0 m. 8" pipe

30.0 m. 8" slotted pipe

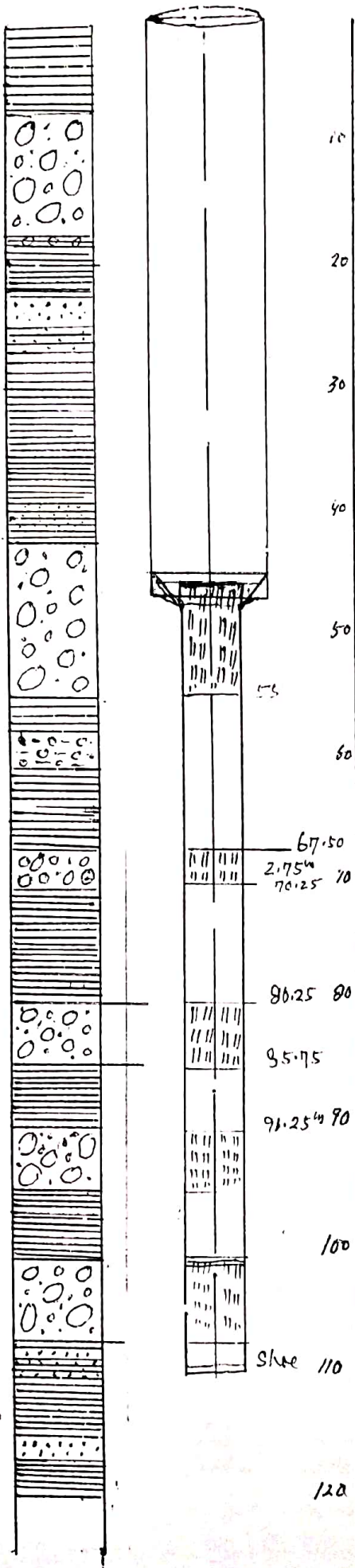
1.0 m. well shoe (Bottom Plug)

172.5 m.

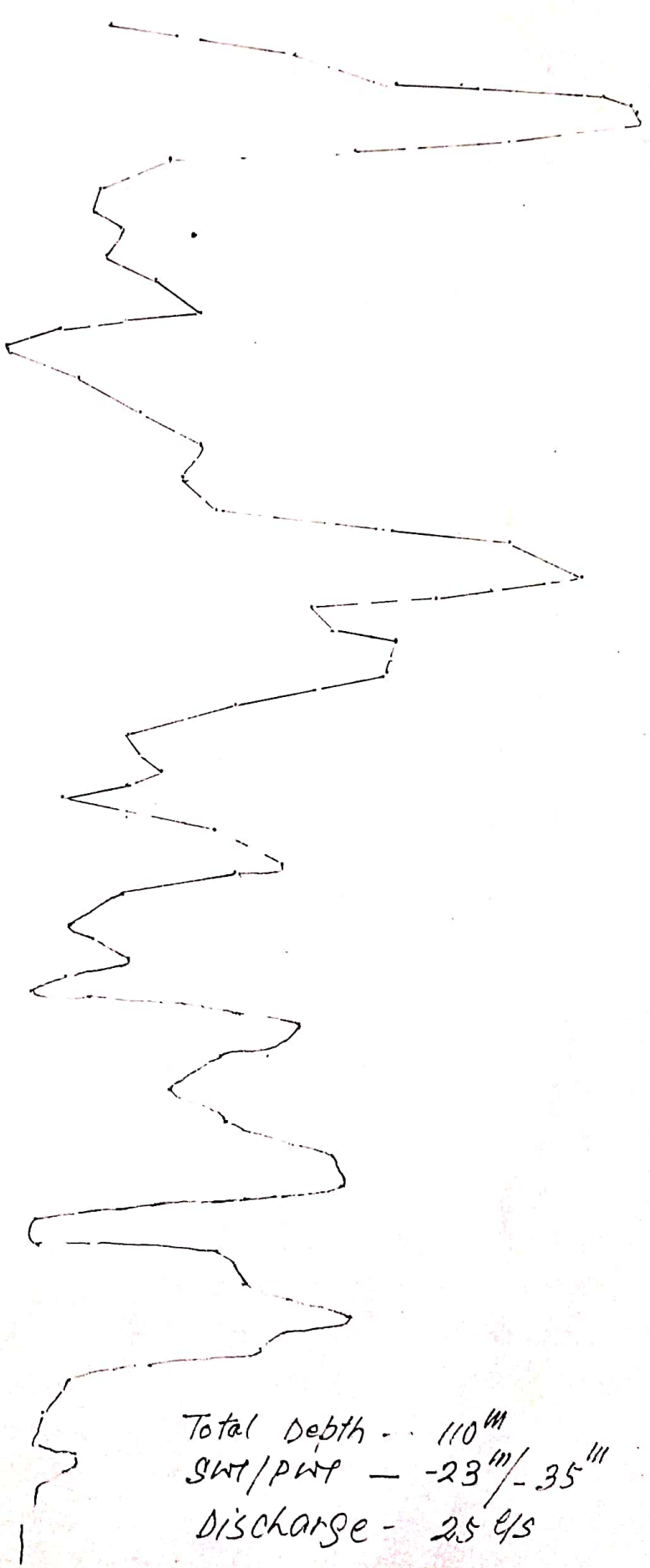
Dip Narayan Sen
W.D.T.
Allms

Well-assembly

Resistivity log.



20 50 80 100 140



Total Depth - 110^m
 SWP/PWP - -23^m / -35^m
 Discharge - 2.5 l/s

Well-1 (05/52)
Sarlahi-Dist.

Drilled by - Soma Chandra
 Logged - S. Singh 05/52
Harihar

logging 05-11-25
 lowering 05-12-5

Total Depth - 155m
 pipe lower - 05-12-5

Dis → 25 l/s
 Sust - 38m
 prof - 50m



14" (6m x 10 Pc) = 60m

60.50

$6 Pc \times 6m = 36m + 2.75 = 38.75$

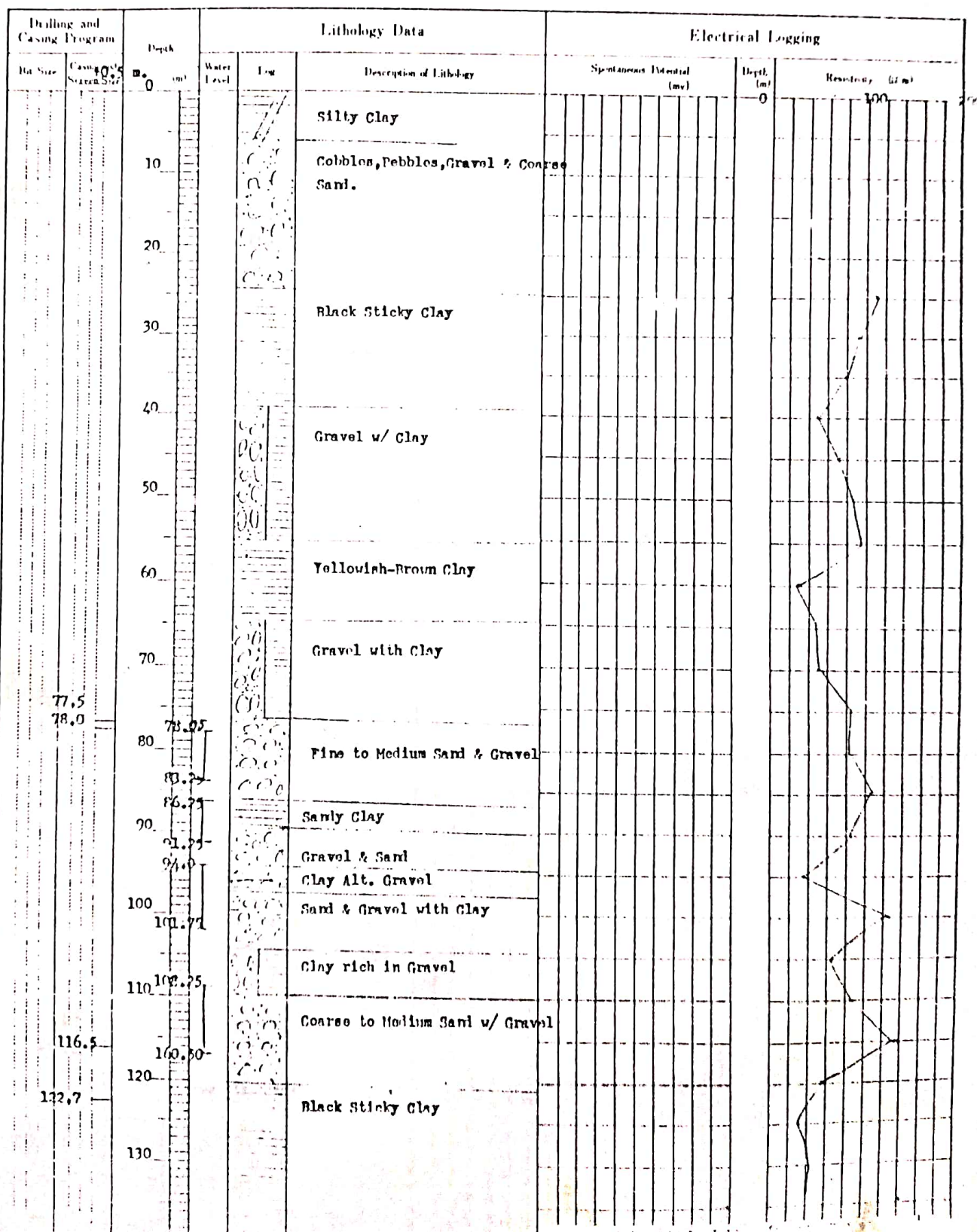
89.25 (99.25m)
 6m 105.25
 (6 + 2.75)
 114.00

138m
 140m

Shoe

PROJECT NAME	J.A.D.P.	Size:	1 1/8"
AREA AND LOCATION	BIRGHYA, Yagyabhumi Village Panchayat		
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	122.70	DRILLING RIG	YTD 501 st
DRILLING STARTED		DRILLED BY	Mr. D.N. Sen
WELL COMPLETED	Jan., 1976	LOGGED BY	Mr. H. Lamichhane

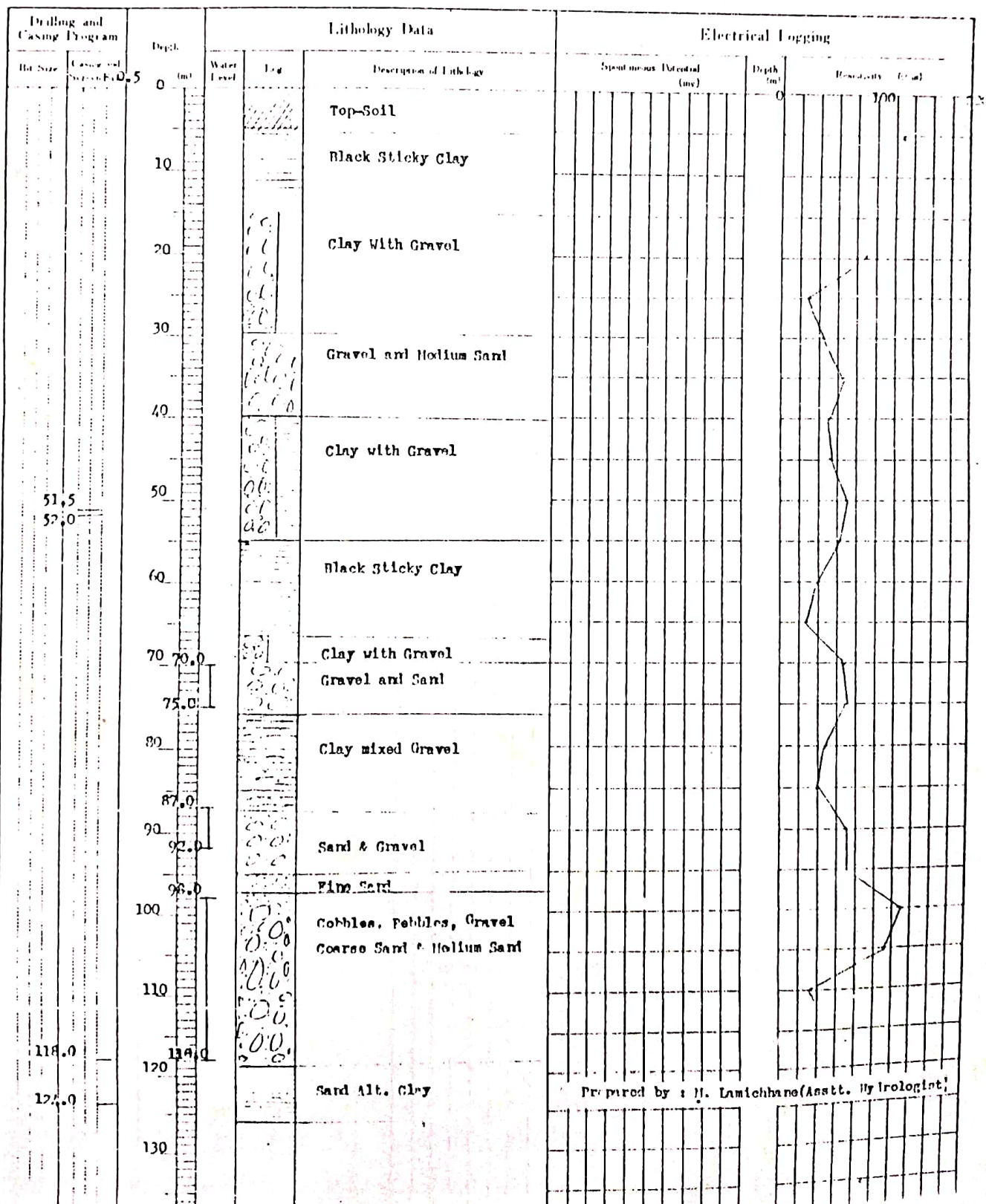
STATIC WATER LEVEL	-52.00	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY	μS/cm
PUMPING RATE	1200.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



WELL LOG

PROJECT NAME J.A.D.P.		Size: 14"/8"	
AREA AND LOCATION BIRANDEA DAMBER, Bharatpur Village Panchayat			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 124.0	m	DRIILLING RIG	YRD 501"R"
DRIILLING STARTED		DRIILLED BY	Mr. G. Joshi
WELL COMPLETED	Dec., 1935	LOGGED BY	Mr. H. Lamichhane

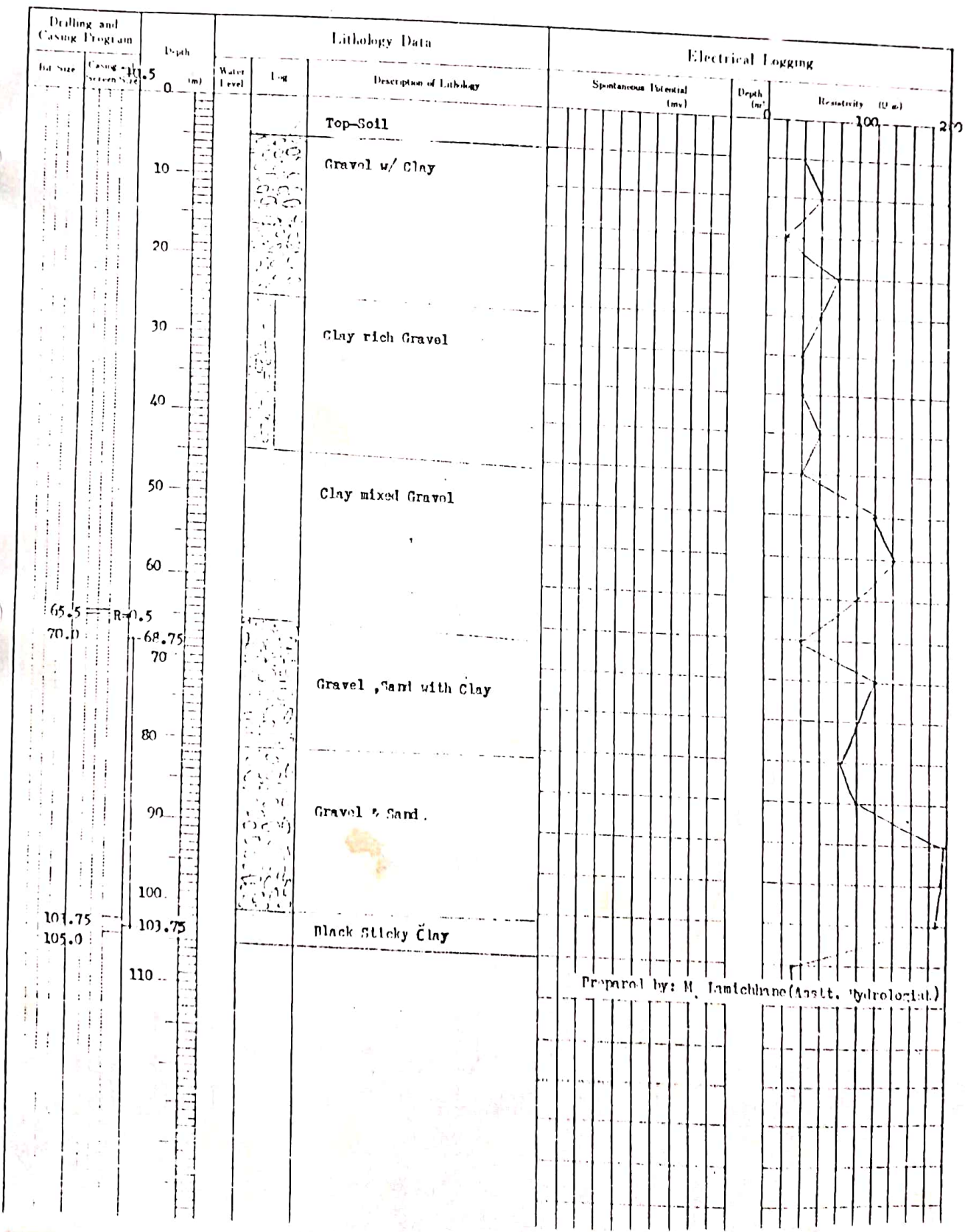
STATIC WATER LEVEL	-34.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY	$\mu S/cm$
PUMPING RATE	1500.0	Gpm (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	



Prepared by: **H. Lamichhane (Asstt. Hydrologist)**

PROJECT NAME J.A.D.P.		Size: 1 1/2" / 8"	
AREA AND LOCATION LALVITTI, Parthapur Village Panchayat.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	105.0 m	DRILLING LOG	YIM-501"R"
DRILLING STARTED		DRILLED BY	Mr. S. Jha
WELL COMPLETED	Apr., 1986	LOGGED BY	Mr. H. Lanchhane

STATIC WATER LEVEL	-62.0 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	µS/cm
PUMPING RATE	900.0 l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



PROJECT NAME	J.A.D.P.	Size: 14"/8"
AREA AND LOCATION	DIALKHIBAR, Dhalkhobar	Village Parbhoyat
ELEVATION	m	LATITUDE LONGITUDE
TOTAL DEPTH	121.25 m	DRILLING RIG YTD 501"R"
DRILLING STARTED		DRILLED BY Mr. D.N.Son
WELL COMPLETED	Dec., 1985	LOGGED BY Mr. H. Janichhara

STATIC WATER LEVEL	-60.0 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	μS/cm
PUMPING RATE	1200.0 l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging	
Bit Size	Casing and Log No.		Water Level	Description of Lithology	Spontaneous Potential (mv)	Resistivity (Ω m)
	0.5 m	0		Silty Clay		100
		10		Black Sticky Clay		
		20		Clay with Gravel		
		30		Pebbles, Coarse Sand Fine to Medium Sand		
		40		Yellow Sticky Clay		
		50		Silty Clay Fine Sand Gravel & Medium Sand		
		60		Yellowish Sticky Clay		
	61.0 m	61.5		Gravel & Coarse Sand		
		70		Clay with Gravel		
		80		Black Sticky Clay		
	84.5	90		Boulders, Cobbles, Pebbles & Coarse Sand.		
		100				
		110				
	115.25	120		Black Sticky Clay		
	121.25					

Prepared by : H. Janichhara (Asstt. Hydrologist)

WELL LOG

DATA NO. 001 02

PROJECT NAME <i>Agriculture Dev project</i>		WELL NO.	
AREA AND LOCATION <i>Lagma, Akhusha</i>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <i>175m</i>	m	DRILLING RIG <i>YRD 500</i>	
DRILLING STARTED <i>2051-9-</i>		DRILLED BY <i>Mogharir Khan</i>	
WELL COMPLETED <i>2051-10-27</i>		LOGGED BY <i>S. JHA</i>	

Artisan 2M/18

STATIC WATER LEVEL <i>+0.75m</i>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	μS/cm
PUMPING RATE <i>2700 l/min</i>	(m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data			Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
	14"	10						
		20						
		30						
		40						
		50						
		60						
		70						
		80						
		90						
		100						
		110						
		114.5						
	126.5/20							
	P	126.5						
		130						
	P	130.5						
		140						
		150						

WELL LOG

Data No. 05/0-

PROJECT NAME <i>Agriculture Dev. Project</i>		WELL NO.	
AREA AND LOCATION <i>Dragma</i>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <i>175M</i>	m	DRILLING RIG <i>YBM 500</i>	
DRILLING STARTED <i>2051-11-8</i>		DRILLED BY <i>Meghal</i>	
WELL COMPLETED <i>2051-12-</i>		LOGGED BY <i>S. JHA</i>	

STATIC WATER LEVEL	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	μS/cm
PUMPING RATE	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data			Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Log	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		0						
		10						
		20						
		30						
		40						
		50						
		60						
		70						
		80						
		90						
		100						
		110						
		120						
		130						
		140						

F 1/2" P
 F 1/2" P
 P

WELL LOG

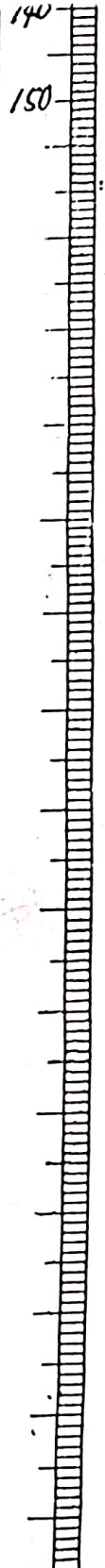
Data No. _____

PROJECT NAME: Agriculture Dev. Project, Janak		WELL NO. 1	
AREA AND LOCATION: Bhoraha - 3			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	150 m	DRILLING RIG	TRD 500
DRILLING STARTED	2049-1-24	DRILLED BY	R. B. F. C.
WELL COMPLETED	2049-3-25	LOGGED BY	M. Lamichhane

STATIC WATER LEVEL	9.80	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	14.20	m	CONDUCTIVITY	µS/cm
PUMPING RATE	3600	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m		TOTAL HARDNESS	

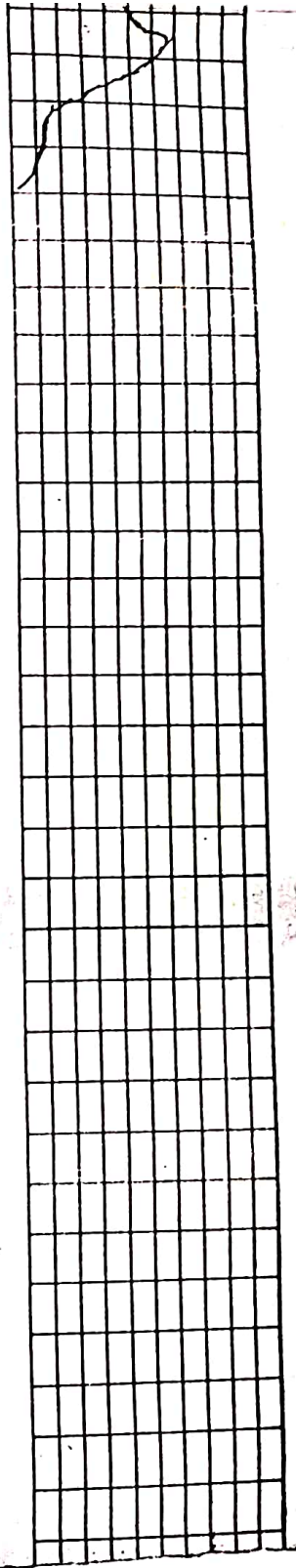
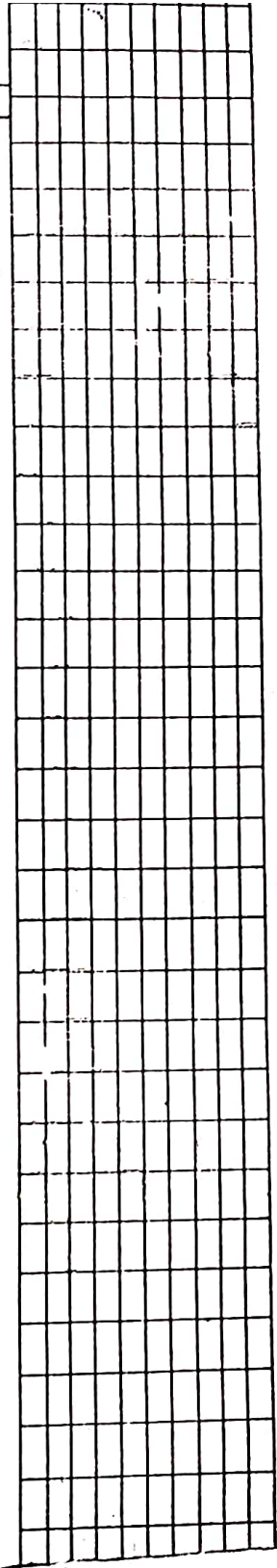
Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging		
Bit Size	Casing and Screen Size		Water Level	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
				Top soil			150 200
		10		Coarse sand			
		20		clay			
		30					
	36	40		Gravel & sand			
				clay (Sticky)			
	P	50		Gravel with coarse sand			
		60		clay			
	66	70		Pebbles, Gravels & Coarse sand			
		80					
	90	90		clay (Black)			
	P						
	96	100		Gravels			
		110					
	108			Sandy clay			
	P	120					
				clay (Black)			
		130					

177
148
130



0.0.0
0.0.0
0.0.0

Gravels & Coarse Sand
Black clay

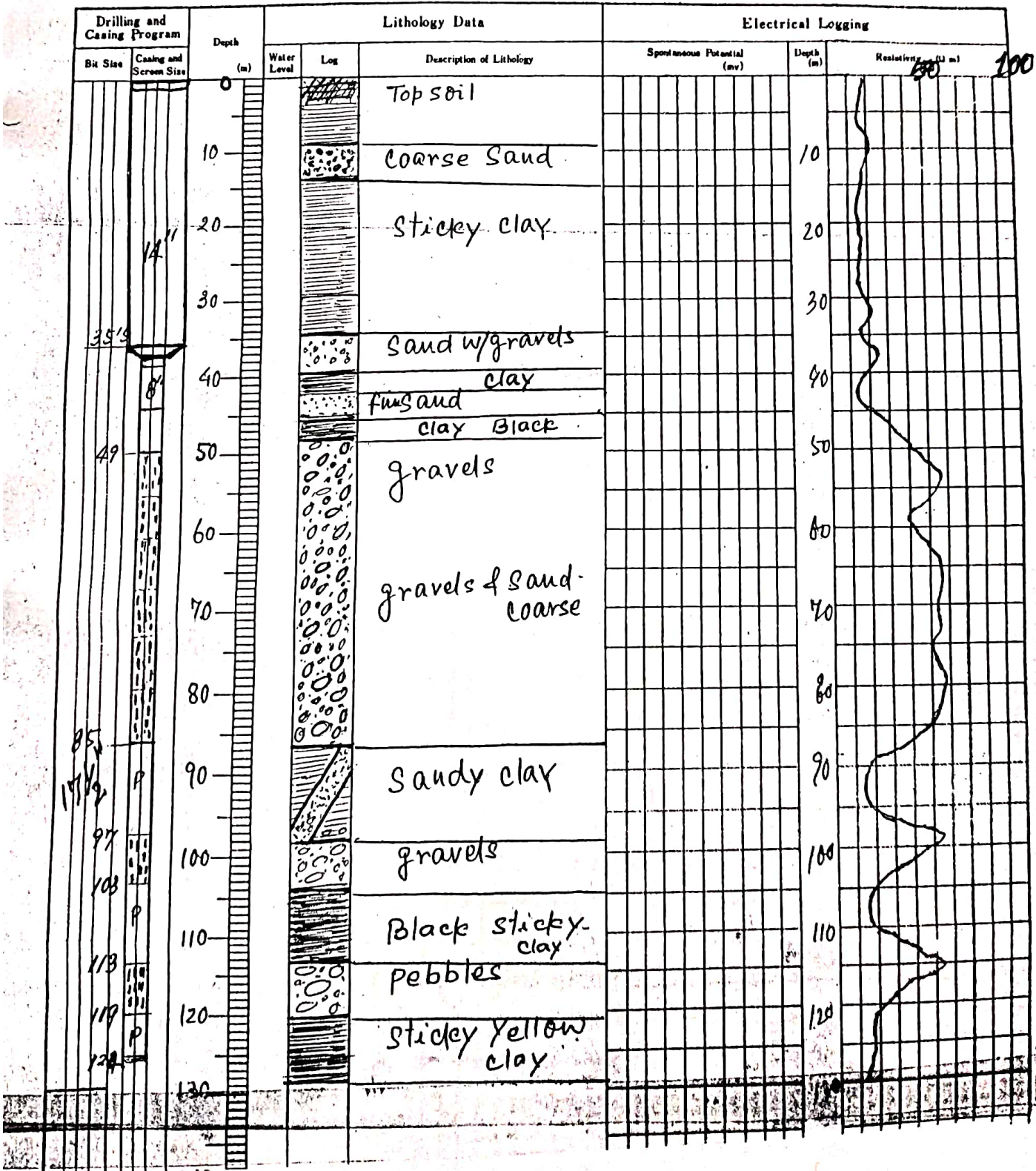


WELL LOG

Data No. _____

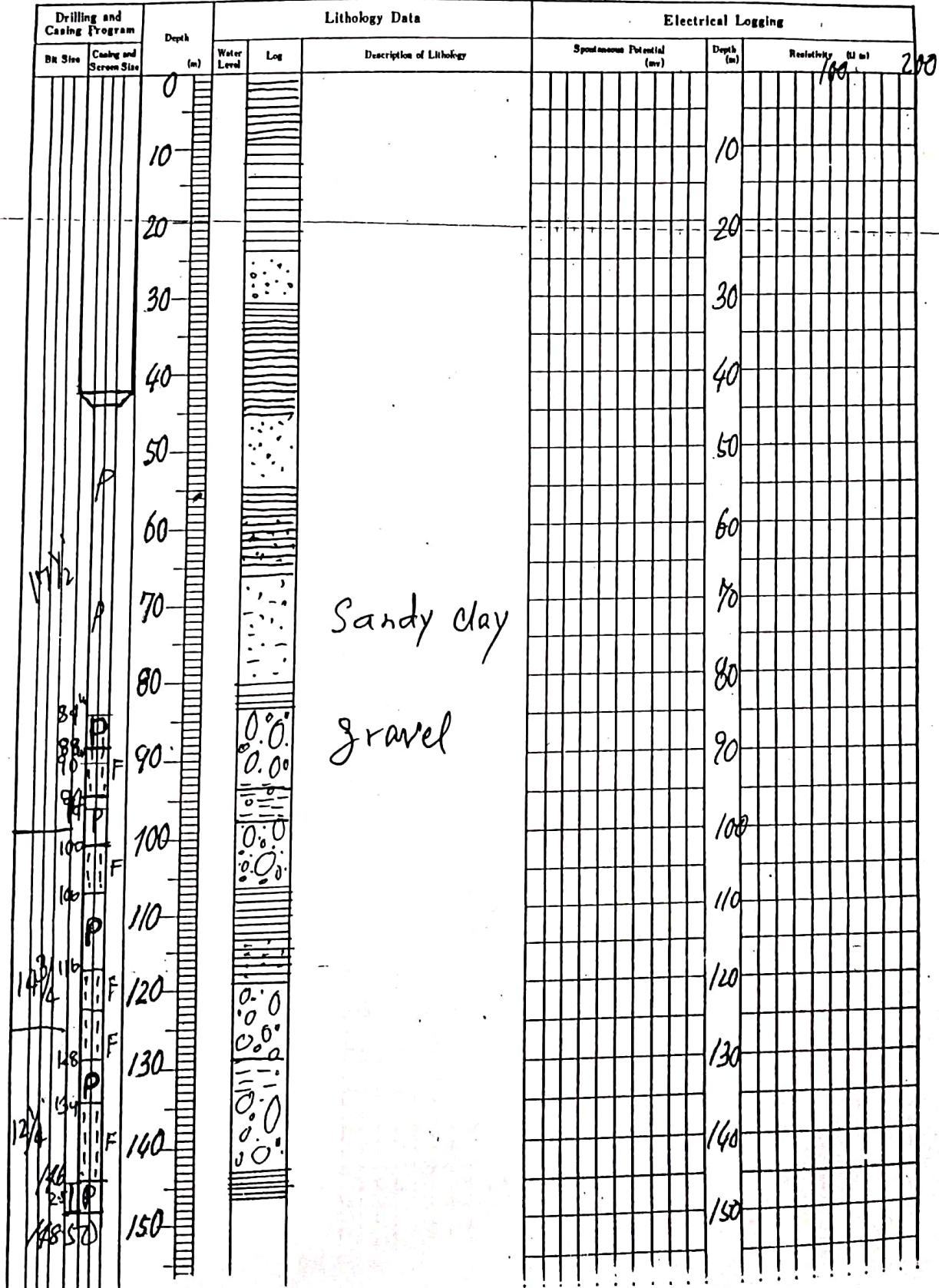
PROJECT NAME Agri. Development Project Tank		WELL NO. 2	
AREA AND LOCATION Bhoraha-4			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	124.00	DRILLING RIG	TRD 500
DRILLING STARTED	2049-3-30	DRILLED BY	R. B. K.C
WELL COMPLETED	2049-5-17	LOGGED BY	M. Janichane

STATIC WATER LEVEL	8.66^m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	13.00	CONDUCTIVITY	μS/cm
PUMPING RATE	3600 l/min (m³/d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



PROJECT NAME <i>Agriculture dev. Project Janakpur</i>		WELL NO.	
AREA AND LOCATION <i>SUGA MADHUKARHI, DHANUSHA</i>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	<i>150</i>	DRILLING RIG	<i>YRD 500</i>
DRILLING STARTED	<i>2051-2-05</i>	DRILLED BY	<i>Meghal uraw</i>
WELL COMPLETED	<i>2051-3-10</i>	LOGGED BY	<i>Satyendra Jha</i>

STATIC WATER LEVEL	<i>+ 0.5 m</i>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	<i>20 m</i>	m	CONDUCTIVITY	μS/cm
PUMPING RATE	<i>2100 l/min</i>	(m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m		TOTAL HARDNESS	

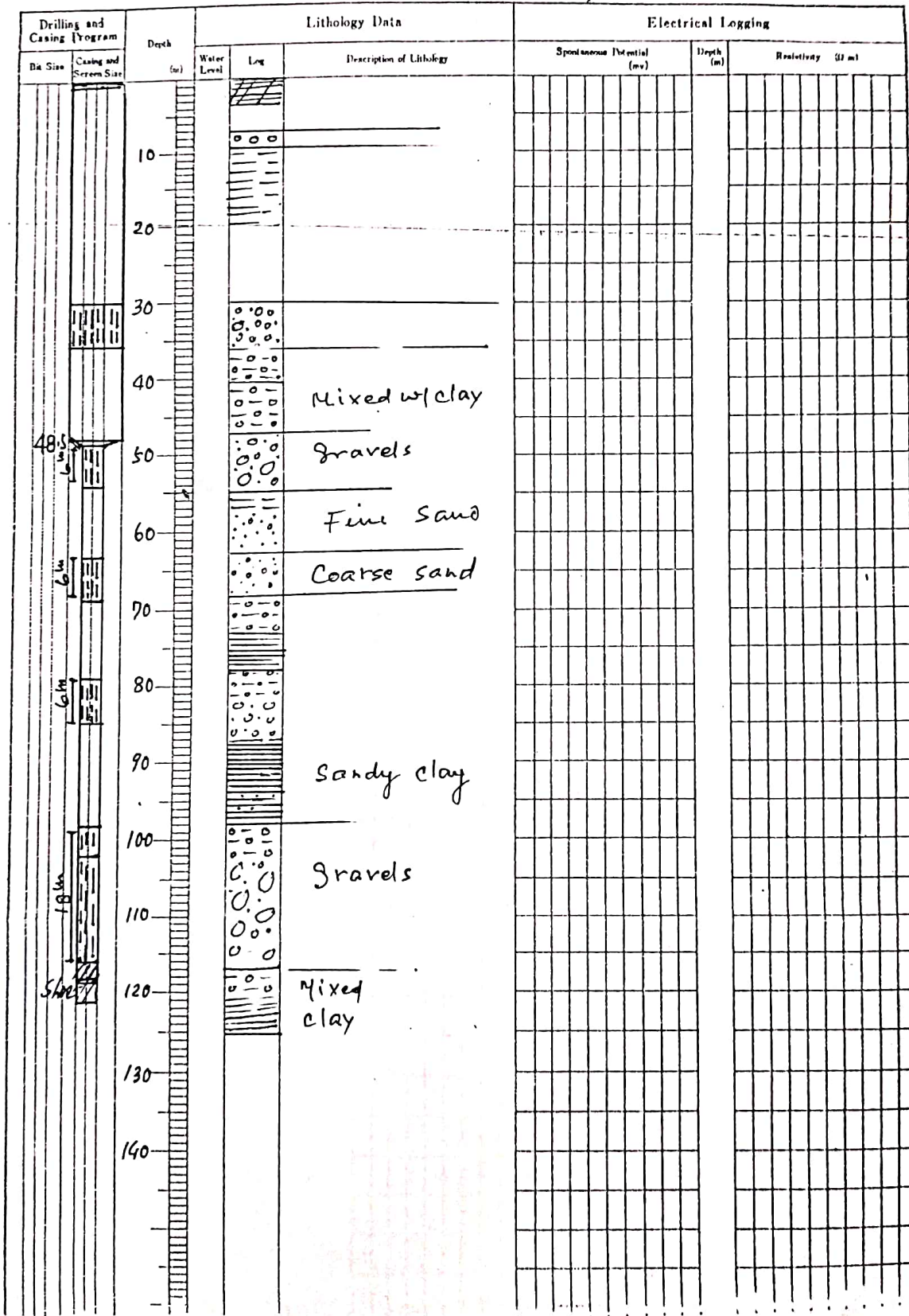


WELL LOG

Data 130.

PROJECT NAME Agri Dev. Project		WELL NO. 8 (052/53)	
AREA AND LOCATION Govindpur-1			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	117.50	DRILLING RIG	YRD500 (214)
DRILLING STARTED	052/11/16	DRILLED BY	
WELL COMPLETED	052/12/15	LOGGED BY	

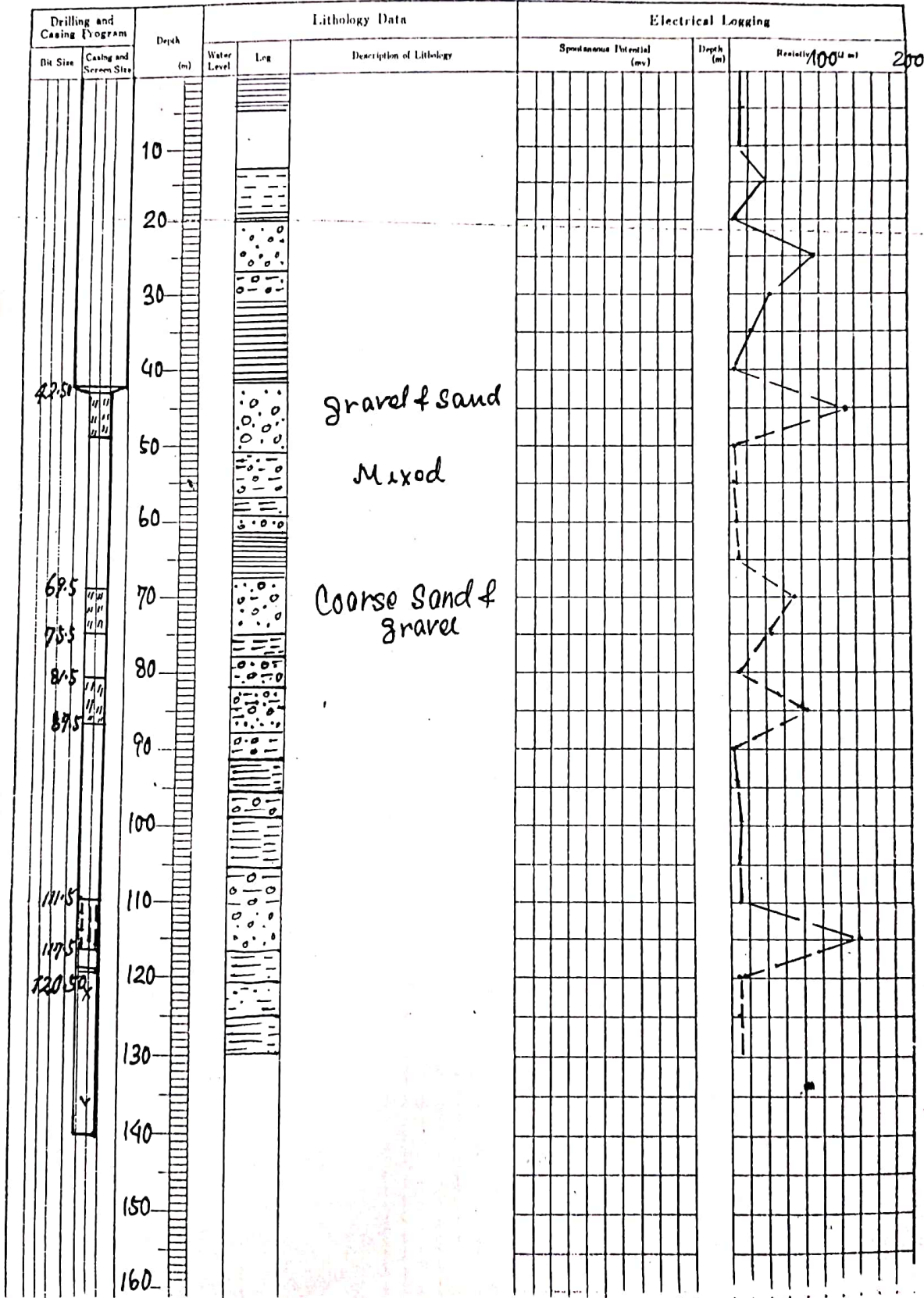
STATIC WATER LEVEL	17	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	32 (A)	m	CONDUCTIVITY	μS/cm
PUMPING RATE	2100	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m		TOTAL HARDNESS	



WELL LOG

PROJECT NAME	Agri. Dev. Project.	WELL NO.	"4" 052/53
AREA AND LOCATION	GOVINDPUR - 5 JHITKI		
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	120.50 m	DRILLING RIG	J.A. 214 YRD
DRILLING STARTED	2052/6/1	DRILLED BY	Jitendra & Rajab
WELL COMPLETED	2052/7/6	LOGGED BY	Satyendra JHA

STATIC WATER LEVEL	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	42.0 m	CONDUCTIVITY	µS/cm
PUMPING RATE	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /l/m	TOTAL HARDNESS	



PROJECT NAME		WELL NO.	
AREA AND LOCATION		Turkiya, Ialbur	
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	200m	DRILLING RIG	YRDS-00
DRILLING STARTED		DRILLED BY	
WELL COMPLETED		LOGGED BY	S. JHA

STATIC WATER LEVEL	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	µS/cm
PUMPING RATE	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging		
Dit Size	Casing and Screen Size		Water Level	Log	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
		170		clay			
		180		clay			
		190					
		200		2052/215			

PROJECT NAME	Agriculture dev. Project		WELL NO.	
AREA AND LOCATION	Turkiya, dralpur v.D.S			
ELEVATION		m	LATITUDE	LONGITUDE
TOTAL DEPTH	200m	m	DRILLING RIG	Rajlak & Jitendra
DRILLING STARTED	2051-12-14		DRILLED BY	
WELL COMPLETED	2051-2-12		LOGGED BY	S. Jha

STATIC WATER LEVEL		m	WATER TEMPERATURE		°C
DYNAMIC WATER LEVEL		m	CONDUCTIVITY		µS/cm
PUMPING RATE		l/min (m ³ /d)	pH		
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS		

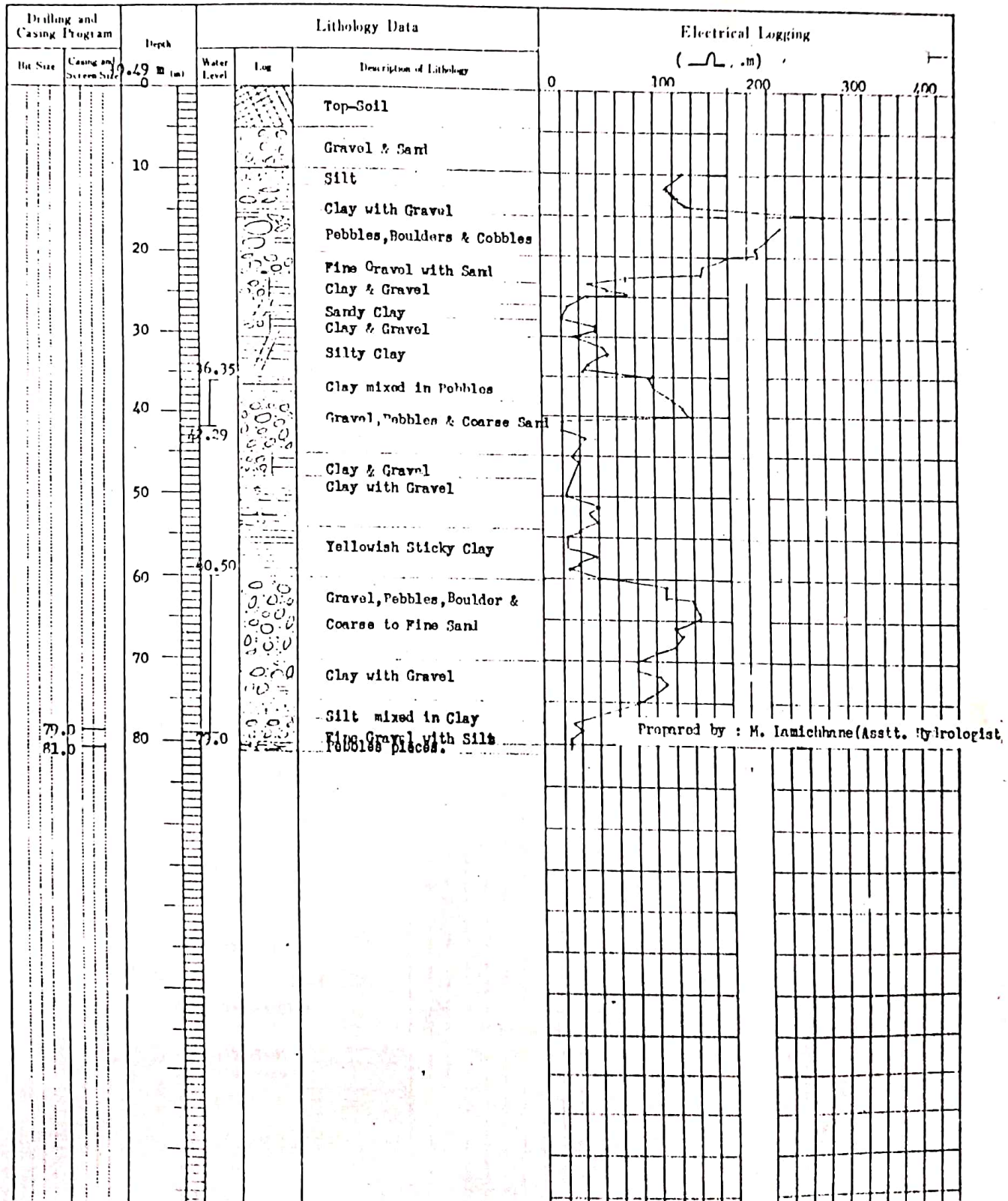
Drilling and Casing Program		Depth (m)	Lithology Data		Electrical Logging		
Drill Site	Casing and Casing Size		Water Level	Description of Lithology	Spontaneous Potential (mv)	Depth (m)	Resistivity (Ω m)
				Top soil			
		10		gravels			
		20		Mixed			
		30		Sandy Soil			
		40		gravels			
		50		clay			
		60		Mixed			
		70					
		80		gravel & clay			
				gravels			
		90		Mix (clay & grav)			
		100		Sandy clay			
		110					
		120		Black sticky clay			
		130					
		140					
		150					
		160		Gravels clay sandy			

WELL LOG

Well Number J-18

PROJECT NAME <u>J.A.D.P.</u>		Size: <u>4 1/2" x 6"</u>	
AREA AND LOCATION <u>Farmer Mr. Shiva Bahadur Ramnagar, Jhottari-District</u>			
ELEVATION	. m	LATITUDE	LONGITUDE
TOTAL DEPTH	<u>81.0</u> m	DRILLING RIG	<u>TDM 72" A"</u>
DRILLING STARTED		DRILLED BY <u>Mr. M. Lamichhane & Mr. P. Bhattar</u>	
WELL COMPLETED <u>Feb., 1978</u>		LOGGED BY <u>Mr. M. Lamichhane</u>	

STATIC WATER LEVEL	<u>23.0</u> m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	<u>54.0</u> m	CONDUCTIVITY	µS/cm
PUMPING RATE	<u>900.0</u> l/min (<u> </u> m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d-m	TOTAL HARDNESS	

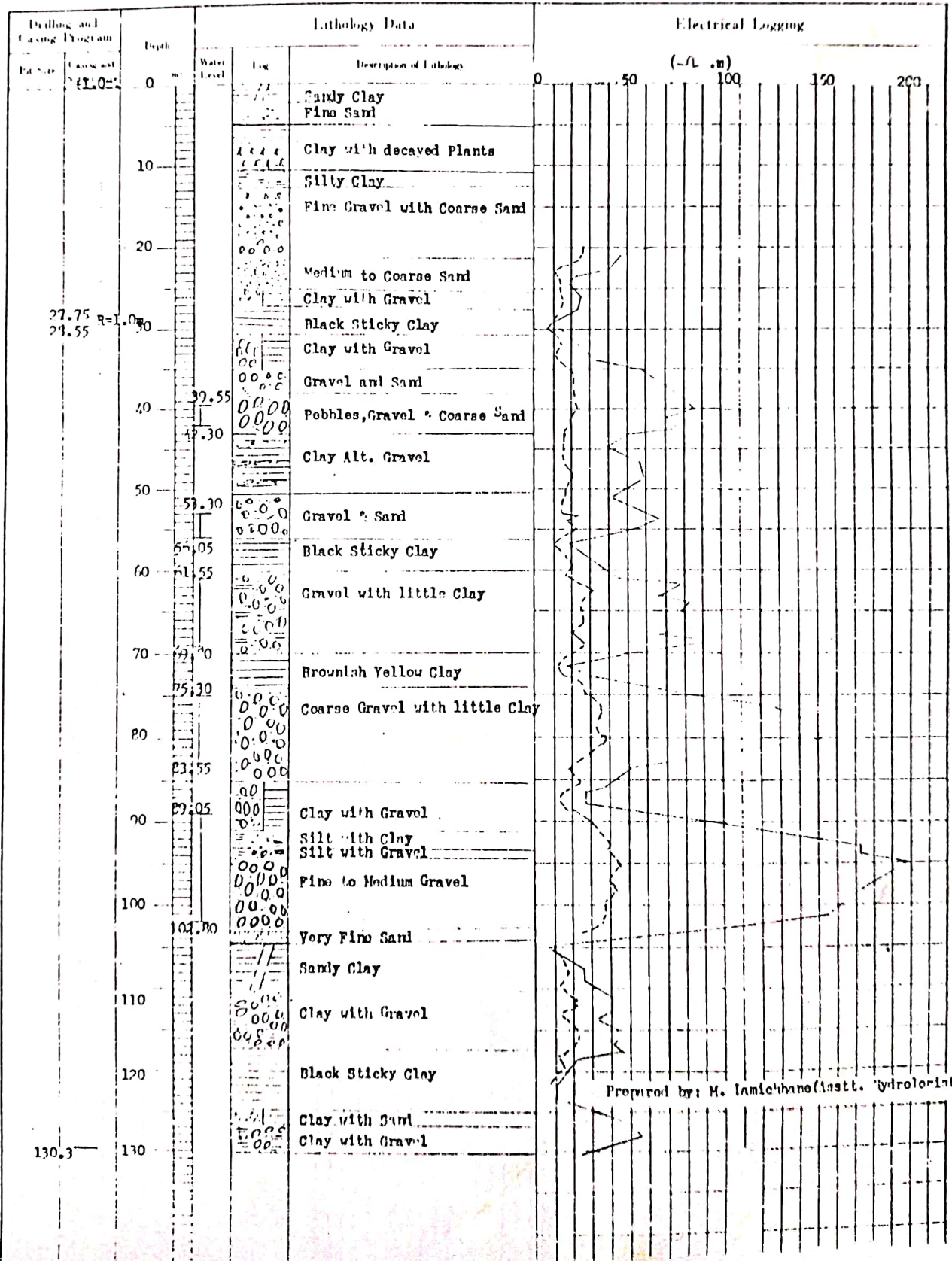


WELL LOG

Well No. J-14

PROJECT NAME: J.A.D.P.		Site: 12 th /B th	
AREA AND LOCATION: T.A.P. Area No. 9			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH: 130.3	m	DRILLING RIG: T11 72 nd A	
DRILLING STARTED: 1 May, 1977		DRILLED BY: Mr. D.D. Karki & Mr. T. Takahasi	(M.A. 1977)
WELL COMPLETED: 11 May, 1977		LOGGED BY: Mr. H. Lamichhane	

STATIC WATER LEVEL: 15.390	m	WATER TEMPERATURE:	°C
DYNAMIC WATER LEVEL: -6.843	m	CONDUCTIVITY:	μS/cm
PUMPING RATE: 2734.0	l/min (m ³ /d)	pH:	
SPECIFIC CAPACITY:	m ³ /d/m	TOTAL HARDNESS:	

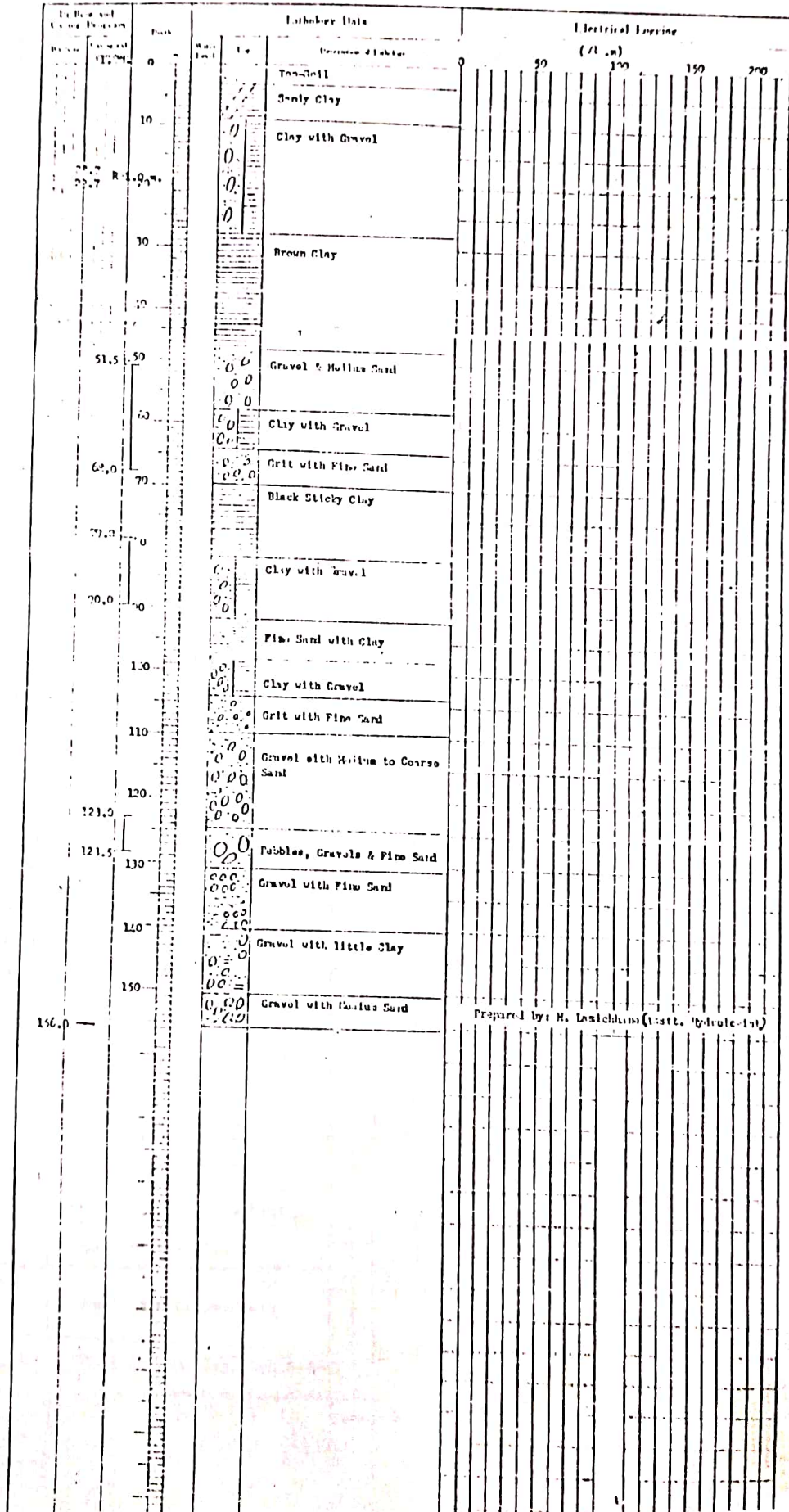


WELL LOG

Well No. J-12

PROJECT NAME J.A.P.		Size: 12" 8"	
AREA AND LOCATION J.A.P. Area No. 7			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 156.0	m	DRIILING RIG TOM 7244	
DRIILING STARTED 27 Feb., 1975		DRIILED BY Mr. D. S. Sarkis, S. V. 114 (2017)	
WELL COMPLETED 2 Mar., 1975		LOGGED BY Mr. L. L. Luchiano (1975-1977) & M. Luchiano	

STATIC WATER LEVEL (at 100m)	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	m	CONDUCTIVITY	µm/cm
TEMPERATURE 15.00	°C	pH	
SPECIFIC CAPACITY	m ³ /m	TOTAL HARDNESS	

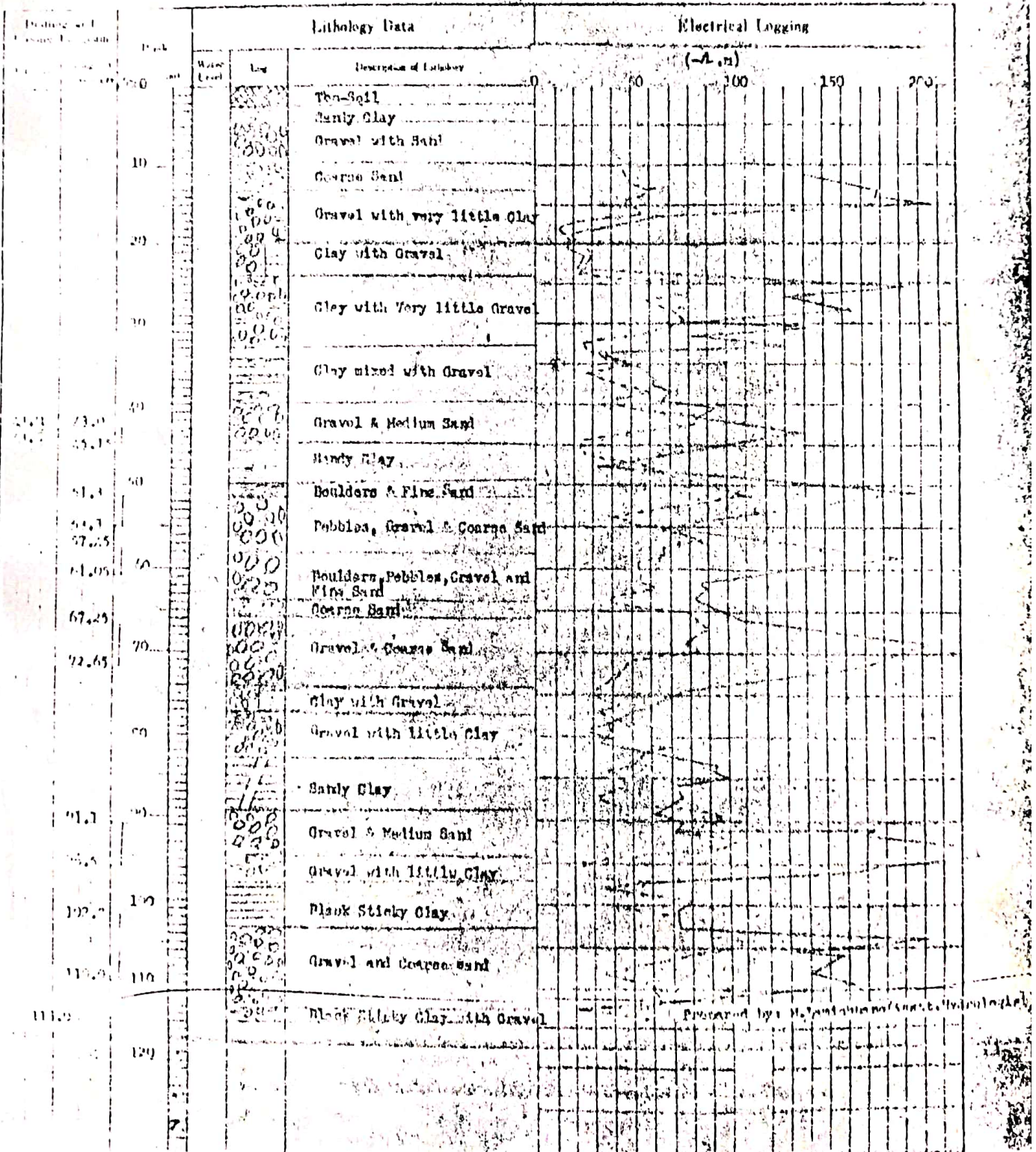


WELL LOG

Well No. 3-1

PROJECT NAME: J.A.D.P.		Date: 6/2/49	
AREA AND LOCATION: DIARRHIC TEST BORING, Dhalokhar			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH	125.0	DRILLING RIG	JDM-72047
DRILLING STARTED	26 June, 1977	DRILLED BY	Mr. D.N. Karki
WELL COMPLETED	29 July, 1977	LOGGED BY	Mr. M. Venkatesh

STATIC WATER LEVEL	-48.0	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-61.0	m	CONDUCTIVITY	μmhos/cm
FLOWING RATE	0.0	m ³ /d	pH	
SPECIFIC CAPACITY	200.0	m ³ /m	TOTAL HARDNESS	



Dharusha - Dist Village :- Diagma →

Size - 14 1/8"

Depth → 170^m

14" Housing - 42^m

8" Screen - 48^m

8" Pipe - 86^m

Self-flowing

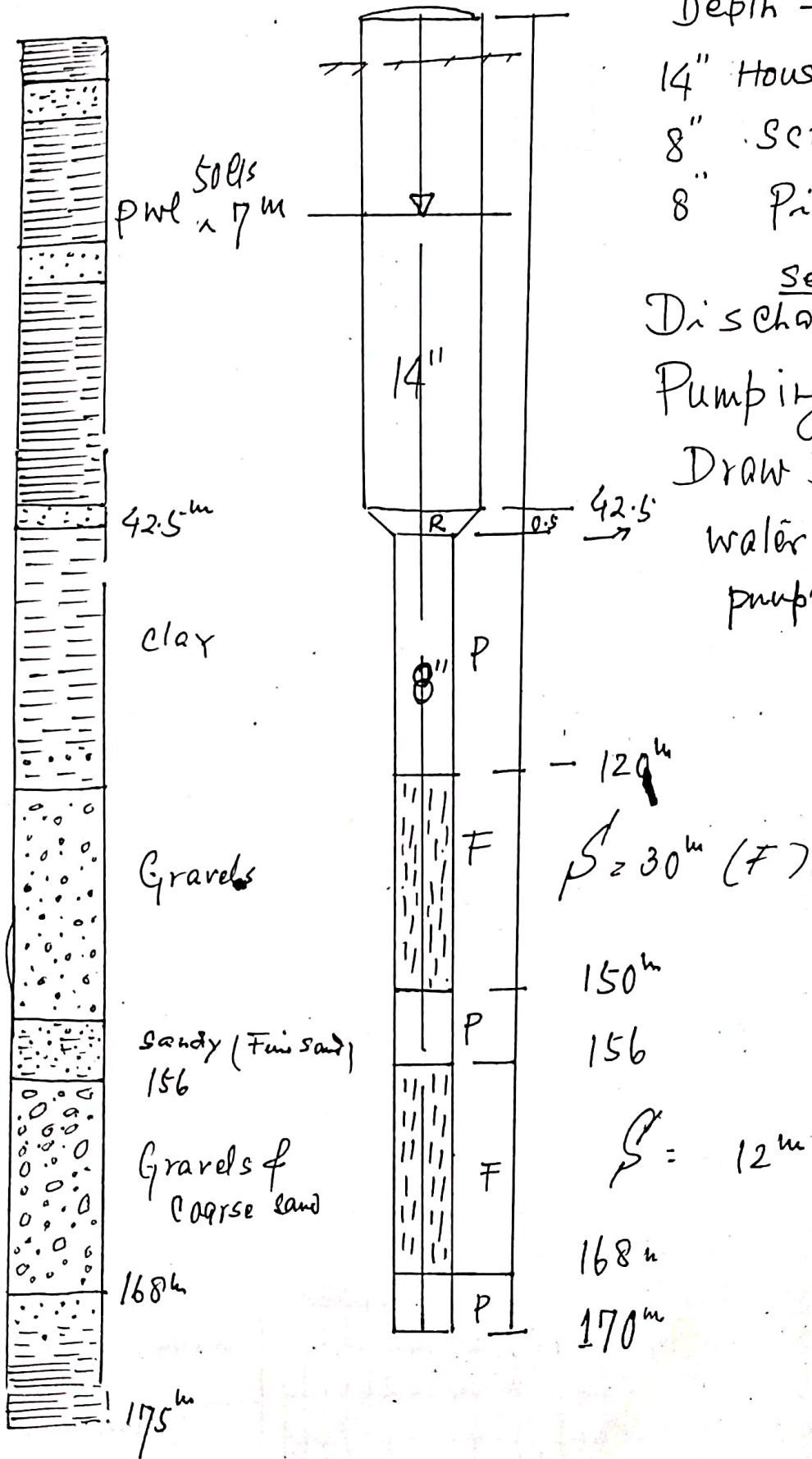
Discharge - 20 cfs

Pumping dis - 50 cfs

Draw Down → 7^m

Water level = +1^m

pumping w/p = -10^m

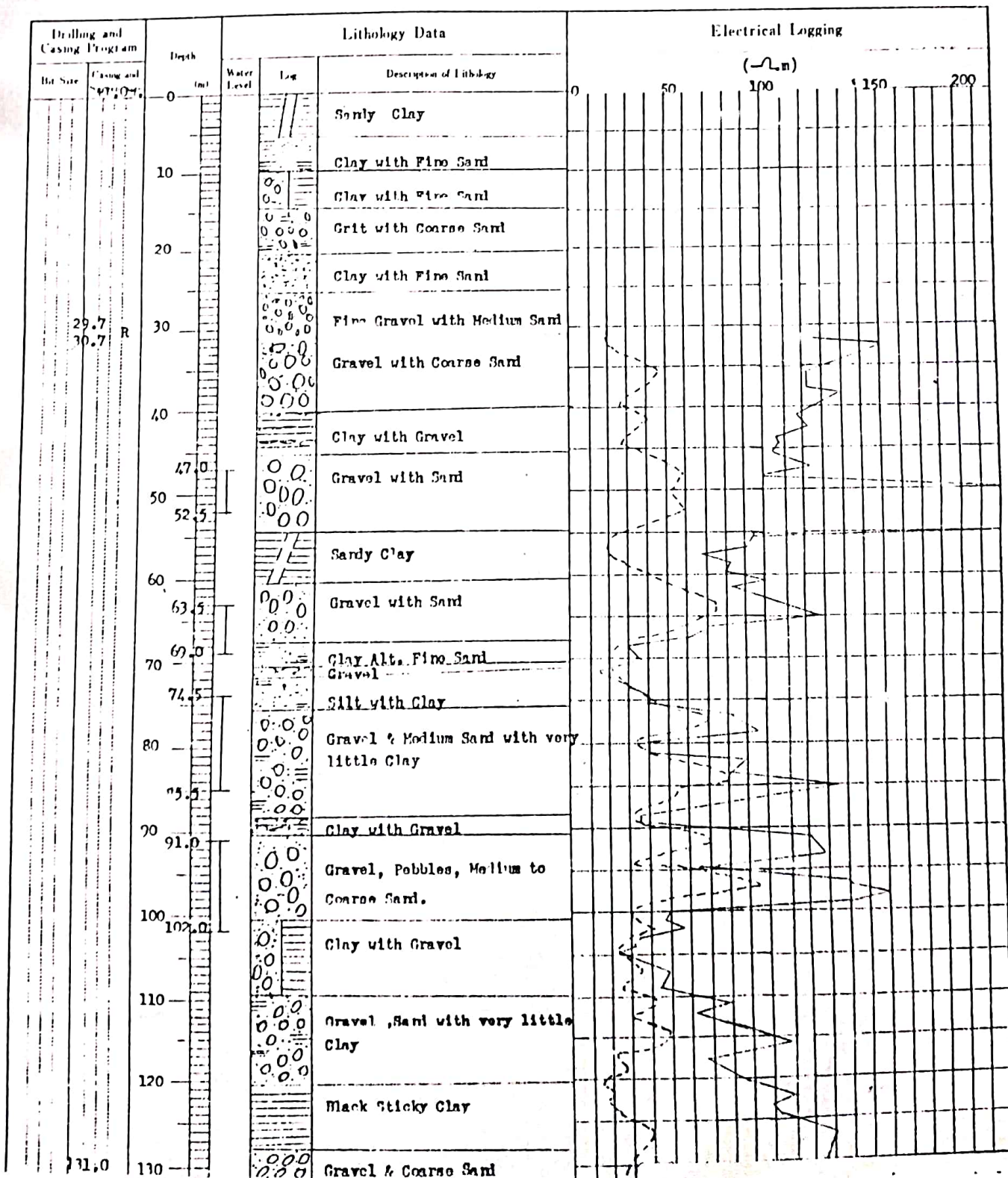


WELL LOG

Well Name: J-11

PROJECT NAME J.A.D.P.		Size: 12"/8"	
AREA AND LOCATION I.A.F. Area No. 6.			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 131.0	m	DRILLING RIG TMI 72" A"	
DRILLING STARTED 2 Feb., 1976		DRILLED BY Mr. D. N. Karki & Y. Wada	
WELL COMPLETED 17 Feb., 1976		LOGGED BY Mr. K. Sugimatsu & M. Lamichhara	

STATIC WATER LEVEL	+ 1.330	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	- 14.000	m	CONDUCTIVITY	μS/cm
PUMPING RATE	1212.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY		m ³ /d/m	TOTAL HARDNESS	

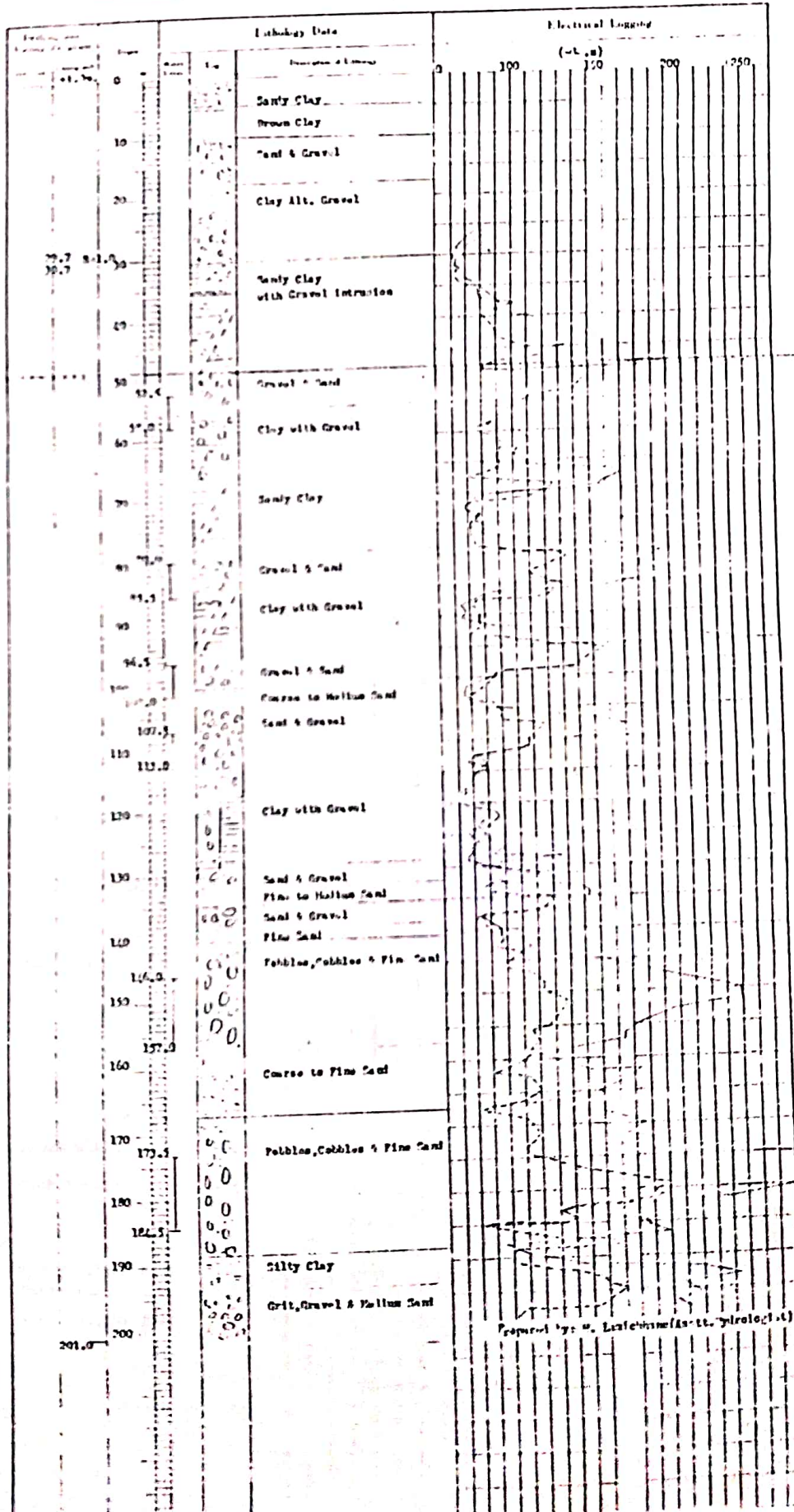


WELL LOG

WELL No. 12-11

Project No. J-12-11		Sheet 12-11	
WELL NO. LOCATION	J-12-11, Loc. 2	LATITUDE	LONGITUDE
DATE OF LOG	201.0	DRILLING NO.	731212
DRILLING STARTED	15 Jan, 1975	DRILLED BY	Mr. D. E. Park & Y. H. Lin
WELL COMPLETED	7 Feb., 1975	LOGGED BY	W. L. Lawrence & M. L. Lawrence

STATIC WATER LEVEL	-3.60	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	-11.00	CONDUCTIVITY	µmhos
PUMPING RATE	1220.0 L/min	pH	
SEEDER CAPACITY	-	TOTAL HARDNESS	

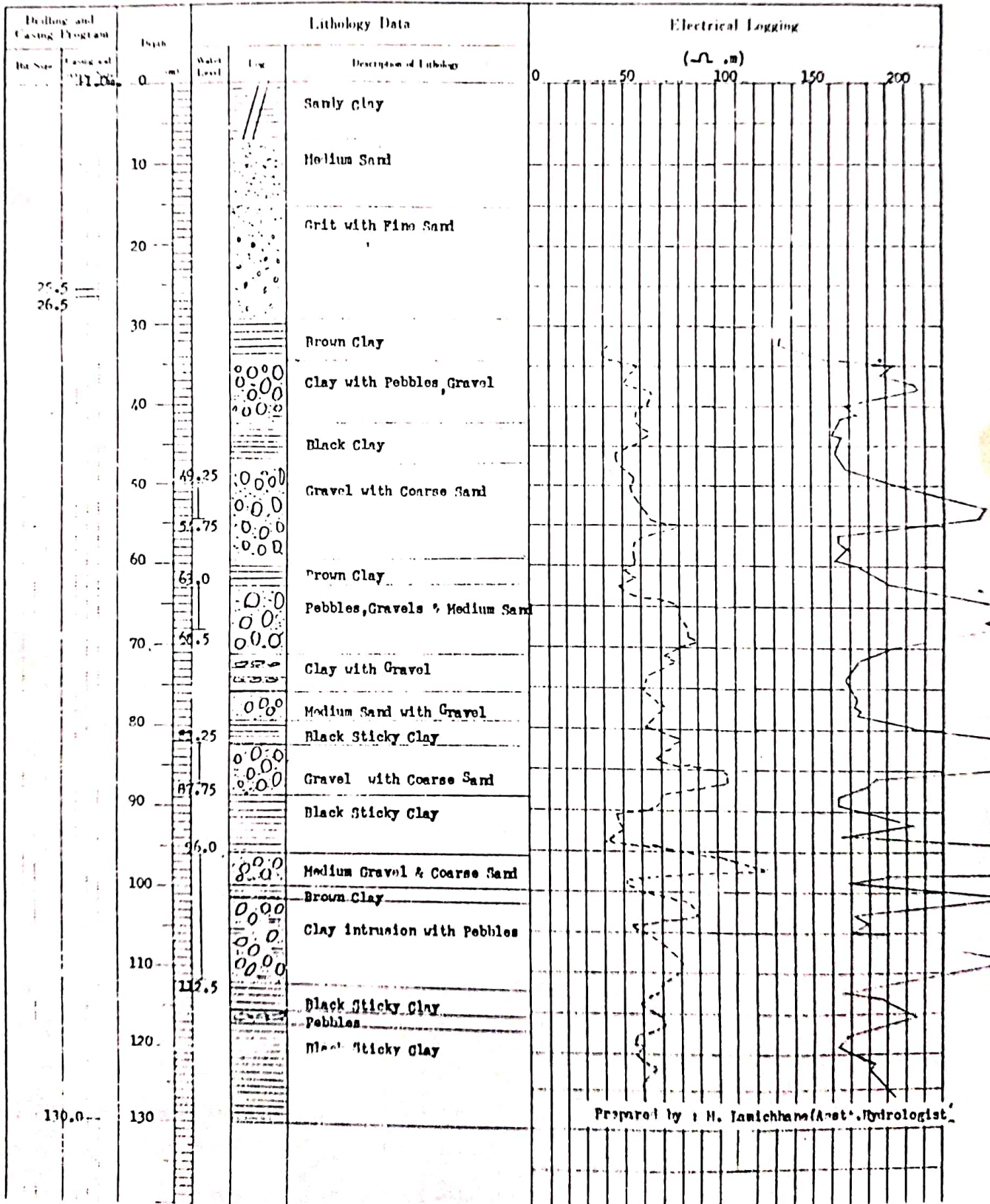


WELL LOG

Form No. J-10

PROJECT NAME J.A.P.		Size: 12"/8"	
AREA AND LOCATION J.A.P. Area No 5			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 130.0	m	DRILLING RIG: TIE "72" A"	
DRILLING STARTED 5 May 1976		DRILLED BY Mr. Y. Hida & D. B. Zar'ki	
WELL COMPLETED 11 May 1976		LOGGED BY Mr. Sugianto & M. Jamichama	

STATIC WATER LEVEL 11.000	m	WATER TEMPERATURE	
DYNAMIC WATER LEVEL 20.630	m	CONDUCTIVITY	µS/cm
PUMPING RATE 2118.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

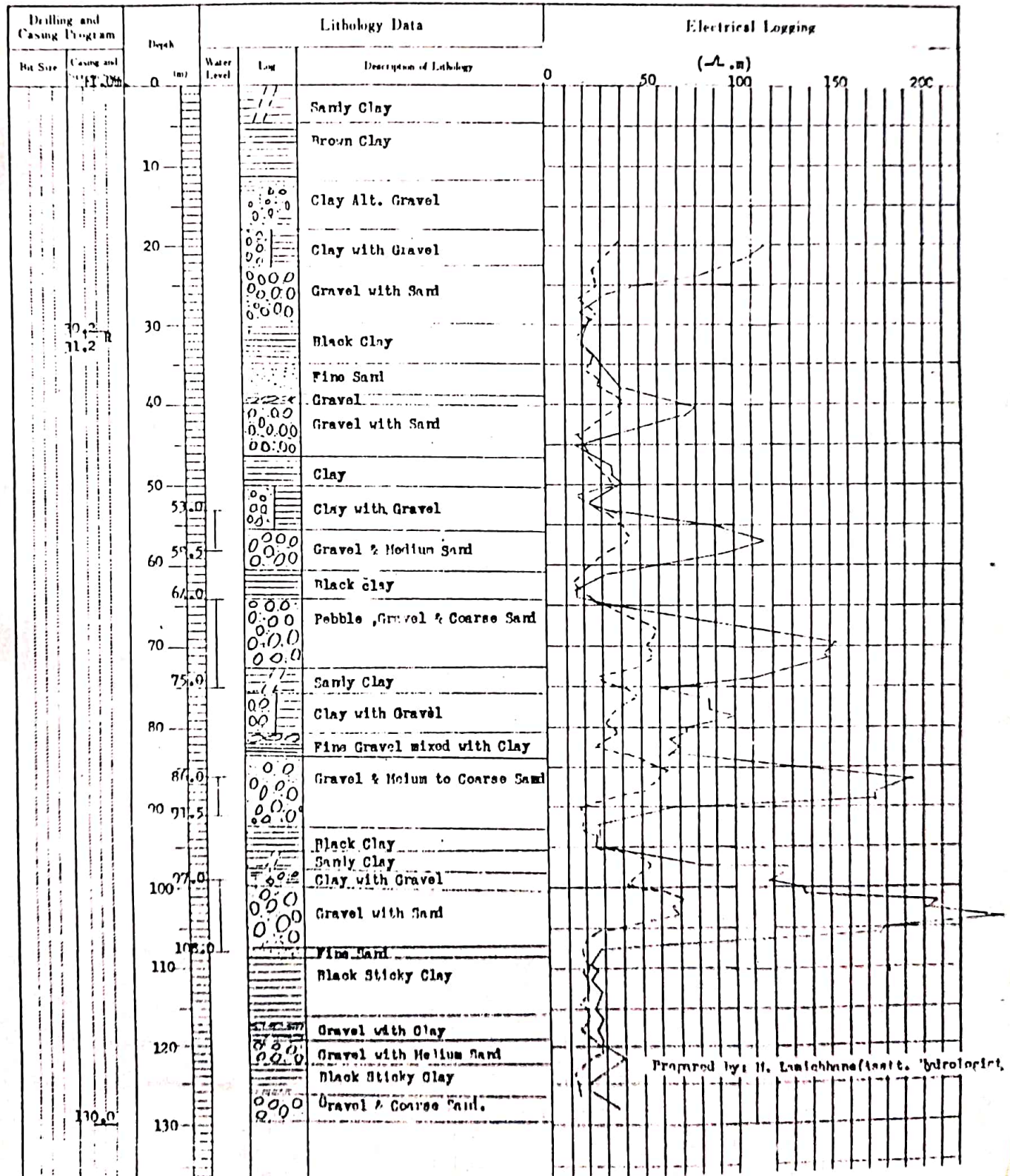


WELL LOG

Well No. J-81

PROJECT NAME J.A.D.P.		Size: 12" / 8"	
AREA AND LOCATION T.A. 2, Area No. 3			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH 130.0	m	DRILLING RIG TM "A"	
DRILLING STARTED 23 Jan., 1977		DRILLED BY Mr. D.B. Park & Mr. T. Takahashi	
WELL COMPLETED 19 Feb., 1977		LOGGED BY Mr. H. Lanchane	

STATIC WATER LEVEL +3.200	m	WATER TEMPERATURE	()
DYNAMIC WATER LEVEL -0.010	m	CONDUCTIVITY	μS/cm
PUMPING RATE 2118.0	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ d/m	TOTAL HARDNESS	

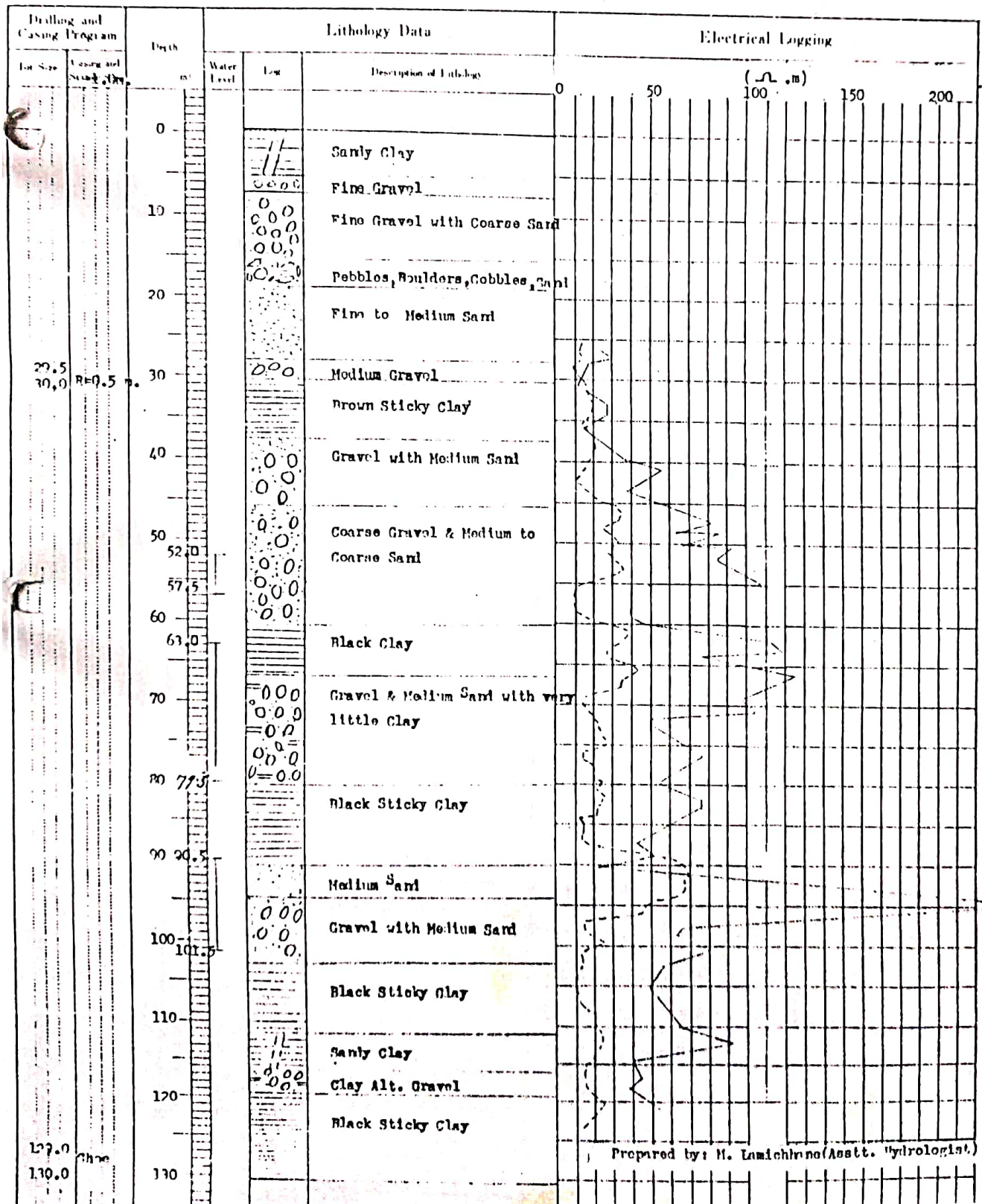


WELL LOG

J-7

PROJECT NAME <u>J.A.D.P.</u>		Size: <u>12"/8"</u>	
AREA AND LOCATION <u>J.A.P. Area No. 2</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <u>130.0</u>	m	DRILLING RIG <u>TTL 32" A</u>	
DRILLING STARTED <u>7 Apr., 1976</u>		DRILLED BY <u>Mr. D. S. Karl & Mr. Y. Hida (Tono)</u>	
WELL COMPLETED <u>19 Apr., 1976</u>		LOGGED BY <u>Mr. M. Lamichhano</u>	

STATIC WATER LEVEL <u>+1.300</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL <u>-15.400</u>	m	CONDUCTIVITY	μS/cm
PUMPING RATE <u>2178.0</u>	l/min	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



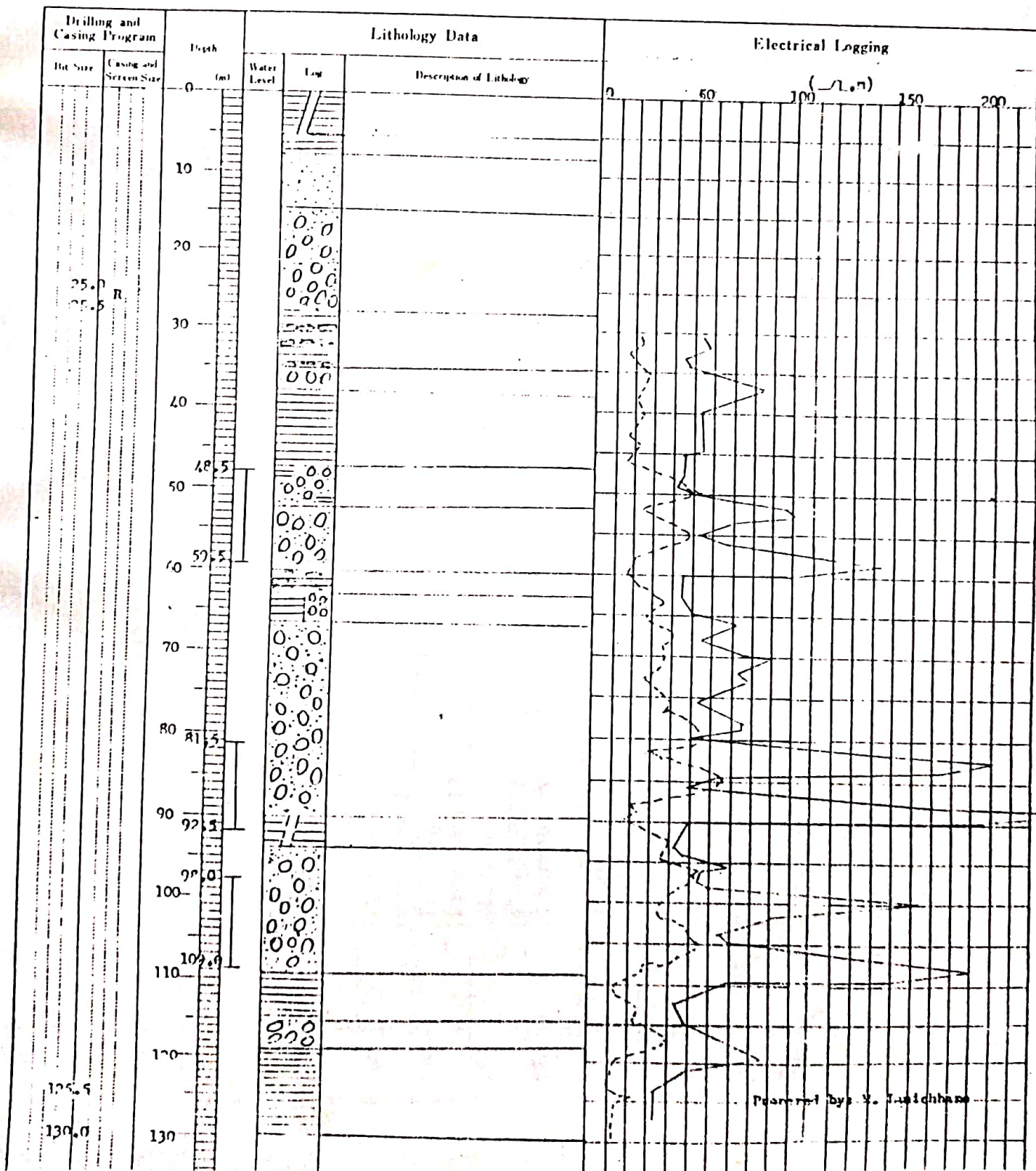
Prepared by: M. Lamichhano (Asstt. Hydrologist)

WELL LOG

Well No: J-6

PROJECT NAME <u>J.A.D.P.</u>		Size: <u>12"/8"</u>	
AREA AND LOCATION <u>I.A.P. Area, No 1.</u>			
ELEVATION	m	LATITUDE	LONGITUDE
TOTAL DEPTH <u>130.0</u>	m	DRILLING RIG <u>TBM 72" A"</u>	
DRILLING STARTED <u>5 Mar., 1976</u>		DRILLED BY <u>Mr. D. D. Karki & Mr. Y. Sida (TBM)</u>	
WELL COMPLETED <u>21 Mar., 1976</u>		LOGGED BY <u>Mr. H. Jaisidhane</u>	

STATIC WATER LEVEL <u>-11.360</u>	m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL <u>-11.360</u>	m	CONDUCTIVITY	μS/cm
PUMPING RATE <u>640.0</u>	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	



CHITWAN DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
162.		Madhavpur "A" Panchakanya 4	14"x8"	91.0	1993	42.0	-10.0	-29.0	45.0	36.0	E + F
163.		Jayamangala Panchakanya 9 "A"	14"x8"	89.0	1994	42.0	-11.0	-33.0	40.0	36.0	E + F
164.		Madhavpur "B" Panchakanya 4	14"x8"	92.0	1994	42.0	-12.0	-32.0	40.0	42.0	E + F
165.		Amiliya 5	14"x8"	84.0	1994	42.0	-10.0	-30.0	40.0	36.0	E + F
166.		Torikheat Bharatpur 14	14"x8"	54.0	1993	30.0	-8.0	-17.0	40.0	20.0	E + F
167.		Kalanpur Bharatpur 14	14"x8"	60.0	1994	30.0	-8.30	-21.0	45.0	24.0	E + F
168.		Parasnagar Bharatpur 8	14"x8"	70.0	1994	30.0	-7.5	-27.0	30.0	36.0	E + F
169.		Rab Bag Bharatpur 13	14"x8"	75.0	1994	30.0	-10.5	-28.5	35.0	42.0	E + F
170.		Girauna Panchakanya 7	14"x8"	77.0	1994	36.0	-12.5	-23.0	42.0	36.0	E + F
171.		Chainpur "A"	14"x8"	84.5	1994	42.0	-12.0	-21.0	45.0	42.0	E + F
172.		Lanku Bharat 6	14"x8"	73.5	1994	36.0	-22.0	-28.0	35.0	34.5	E + F
173.		Pithuwa 3A	14"x8"	84.5	1994	36.0	-9.0	-32.0	40.0	42.0	E + F
174.		Pithuwa 3B	14"x8"	88.5	1994	42.0	-13.0	-31.0	45.0	42.0	E + F
175.		Pithuwa 3C	14"x8"	90.5	1994	36.0	-14.0	-32.0	35.0	48.0	
176.		Chainpur B	14"x8"	90.5	1995	36.0	-11.0	-32.0	30.0	48.0	E + F
177.		Lankline Jutpari 9 (Jutpani)	14"x8"	78.5	1995	36.0	-14.5	-29.5	30.0	42.0	

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
178.		Dumre 5	14"x8"	75.0		36.0	-4.0	-20.0	45.0	36.0	
179.		Pithuwa 7	14"x8"	90.0		36.0	-10.0	-30.0	45.0	42.0	
180.		Jayamangala "B"	14"x8"	85.9		42.0	-10.0	-33.0	45.0	36.0	
181.		Rampur Campus "A"									
182.		Rampur Campus "B"									
183.		Rampur Campus "C"									
184.		Fish Farm Bhandara "A"									
185.		Fish Farm Bhandara "B"									

**LIST OF D.T.W.
DIANUSHA DISTRICT**

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Hoisting (M)	Remarks
1.	J-1	Dhalkewar	6"x4"	115.0	July 1997	25.64	-45.00	-68.00	4.0	45.0	
2.	J-2	J.A.D.P.	6"x6"	135.0	Jan. 1975	27.00	-14.35	-27.5	11.0	-	
3.	J-3	Tobacco Factory	12"x8"	116.6	April 1980	38.44	-6.00	-21.0	20.0	40.65	
4.	J-4	Hordinath No. 2	12"x8"	116.6	April 1977	33.0	+3.43	-27.61	30.0	29.95	
5.	J-5	Hordinath No. 3	12"x8"	104.0	June 1980	30.25	+2.0	-27.0	35.30	29.7	
6.	J-6	IAP Area No. 1	12"x8"	130.0	March 1976	33.0	+1.26	-11.36	44.0	25.0	Centrifugal pump
7.	J-7	IAP Area No. 2	12"x8"	130.0	April 1976	33.0	+1.3	-15.4	36.0	29.5	Centrifugal pump
8.	J-8	IAP Area No. 3	12"x8"	130.0	Feb. 1977	33.0	+3.2	-9.94	35.3	30.2	Centrifugal pump
9.	J-9	IAP Area No. 4	12"x8"	146.0	March 1975	33.0	+5.43	-17.03	39.90	29.7	Centrifugal pump
10.	J-10	IAP Area No. 5	12"x8"	130.0	May 1976	33.0	+1.0	-20.63	35.30	25.5	Centrifugal pump
11.	J-11	IAP Area No. 6	12"x8"	131.0	Feb. 1976	33.0	+1.3	-14.98	30.20	29.7	Centrifugal pump
12.	J-12	IAP Area No. 7	12"x8"	156.0	March 1975	33.0	Artesion	By air lift	25.0	28.7	Centrifugal pump
13.	J-13	IAP Area No. 8	12"x8"	201.0	Feb. 1975	44.0	+3.6	-11.0	24.0	29.7	Centrifugal pump
14.	J-14	IAP Area No. 9	12"x8"	130.3	May 1977	35.75	+5.39	-6.85	43.9	27.75	Centrifugal pump
15.	J-15	Horticulture Farm Janakpur	8"x8"	139.0	Dec. 1976	33.64	+1.0	-15.56	15.0	-	

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
16.	J-16	Fisheries Dev. Centre Janakpur No. 1	12"x8"	140.0	Feb. 1979	25.5	+1.35	-25.03	48.0	34.24	
17.	J-17	Ghodghas Sajha	12"x8"	166.0	June 1979	39.33	+1.35	-25.03	48.0	34.24	
18.	J-24	Janaki Temple	4"x4"	174.7	May 1986	24.75	+1.0	-5.0	5.0	-	
19.	J-27	Sigyahi Madan	12"x8"	87.7	April 1986	21.0	-1.0		43.70	23.0	Okamoto Pump + Isuzu Engine
20.		Fisheries Dev. Centre No.2	12"x8"	142.0	1989	30.0				27.0	
21.		Fisheries Dev. Centre No.3	14"x8"	144.0	1990	33.0				30.0	
22.		Everest Paper Mill	14"x10"	118.0	1990	27.0	-15.0	-30.0	35.0	42.0	Pull out by factory
23.		Nepal Rastra Bank Janakpur	4"x4"		June 1996						
24.	T-1	Dharapani	14"x8"	158.0	June 1985	30.0	-46.5		5.0	50.0	
25.	T-2	Pusbalpur	14"x8"	130.0	June 1985	35.0		Dry Well	-	48.0	
26.	T-3	Bharatpur	14"x8"	82.0	May 1985	30.0	-24.10	-31.0	40.0	35.0	Ebara Pump + Fiat Engine E+F
27.	T-4	Kumraha	14"x8"	180.0	July 1985	50.0	-31.60	-44.46	10.0	49.0	
28.	T-5	Godar	14"x8"	135.0	Dec. 1985	45.0	-22.58	-45.55	20.0	50.0	E+F
29.	T-6	Dhalkewar	14"x8"	135.0	Jan. 1986	45.0	-63.9	-84.48	5.0	60.0	Submersible
30.	T-7	Gauripur	14"x8"	127.0	Feb. 1986	50.0	-20.9	-36.45	25.0	50.0	

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	I Housing (M)	Remarks
31.	T-8	Radhapur	14"x8"	150.0	Jan. 1986	35.0	-23.8	-37.51	42.0	49.5	
32.	T-9	Mangalpur	14"x8"	173.0	Jan. 1986	50.0	-23.73	-34.7	20.0	59.0	E+F
33.	T-10	Sarsa	14"x8"	150.0	Jan. 1986	45.0	-18.21	-42.15	20.0	50.0	
34.	T-11	Gohiya	14"x8"	154.0	Feb. 1986	35.0	-27.9	-35.56	40.0	50.0	
35.	T-12	Janakinagar	14"x8"	165.0	Feb. 1986	45.0	-12.52	-45.22	10.0	50.0	
36.	T-13	Kajara Ramaul	14"x8"	168.0	Feb. 1986	40.0	-9.31	-51.38	10.0	50.0	
37.	T-14	Laliya	14"x8"	165.5	March 1986	75.0	-4.6	-16.4	30.0	50.0	E+F
38.	T-15	Hanspur Kattapula	14"x8"	175.0	Feb. 1986	50.0	Artisior	-45.85	7.0	50.0	
39.	T-16	Jhatiyahi	14"x8"	160.0	March 1986	60.0	-2.26	-35.95	25.0	50.0	E+F
40.	N-1	Birendra Bazzar	14"x8"	124.0	Dec. 1985	30.0	-34.0		25.0	51.5	E+F
41.	N-2	Chhahatar Bigla	14"x8"	162.0	Jan. 1986	42.75	-11.0		30.0	79.5	E+F
42.	N-3	Murgiya	14"x8"	122.7	Jan. 1986	26.0	-52.0		20.0	77.5	
43.	N-4	Lal Viti	14"x8"	105.5	April 1986	35.0	-62.0		5.0	65.5	
44.	N-5	Dhalkewar	14"x8"	121.3	Dec. 1985	30.75	-60.0		10.0	61.0	Water supply sumbersible
45.	N-6	Lakhanpur	14"x8"	104.8	Feb. 1986	30.0	-32.0		15.0	53.5	

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
46.	N-7	Kesharkuti	14"x8"	165.0	March 1986	35.6	-30.0		30.0	69.0	
47.	N-8	Kishanpur	14"x8"	120.3	April 1986	30.0	-31.0		25.0	59.5	
48.	N-9	Digambarpur	14"x8"	133.5	May 1986	35.0	-26.5		20.0	59.5	
49.	N-10	Hariharpur	14"x8"	120.0	Dec. 1985	35.0	-30.5		30.0	52.0	E+F
50.	N-11	Umappremur No. 3	14"x8"	129.0	April 1986	45.0	-33.0		40.0	59.5	E+F
51.	N-13	Backchaura	14"x8"	158.5	April 1986	40.0	+0.20		40.0	59.5	
52.	N-14	Hanumannagar	14"x8"	173.8	Feb. 1986	37.5	+0.50		50.0	49.5	E+F
53.	N-15	Sonapara	14"x8"	175.0	March 1986	33.0	+0.00		50.0	53.5	
54.	N-16	Umappremur	14"x8"	124.8	April 1986	40.0	-40.0		10.0	59.5	
55.	N-17	Kathpulla (Hanspur)	14"x8"	144.0	Jan. 1986	40.0	+0.00		10.0	35.8	
56.	N-18	Kumraha Tole	14"x8"	154.2	Feb. 1986	35.0	0.00		10.0	59.7	
57.	N-19	Puspapur	14"x8"	125.5	April 1986	22.0	-45.0	-60.0	10.0	65.50	
58.	N-20	Bhimanchauk	14"x8"	119.5	Feb. 1986	32.75	-42.0		15.0	65.5	
59.	N-21	Dada Tole	14"x8"	97.8	Feb. 1986	35.0	-38.0		15.0	59.5	
60.	N-22	Mal Tole	14"x8"	132.0	March 1986	32.50	-45.0		10.0	65.5	

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
61.	N-24	Kesharkuti	14"x8"	182.0	Feb. 1986	Drilling hole abandoned as drilling component (drilling bit, stabilizer) clogged.					
62.	N-27 (Test 1)	Jamunibas	14"x8"	150.0	March 1987	52.0	-37.0	-66.0	1.0	72.0	
63.	N-28 (Test 2)	Mujejiya	14"x8"	210.0	Feb. 1987	60.0	0.00	Well damaged.		54.0	
64.	N-29 (Test 3)	Ranibazzar	14"x8"	212.0	March 1987	40.0	+0.20		3.00	56.0	
65.	N-33	Naktajhig	14"x8"	113.5	March 1987	24.0	-40.0	-61.0	30.0	77.0	E+F
66.	N-35	Mahendranagar	14"x8"	118.0	April 1987	25.0	-10.2	-20.2	20.0	48.0	O+F
67.	N-36	Godar	14"x8"	112.5	Feb. 1987	35.0	-22.0	-52.0	30.0	60.0	E+F
68.	N-40	Bateswar	14"x8"	120.0	May 1987	28.0	-42.0	-54.0	25.0	66.0	E+F
69.	N-45 (Test 5)	Basahiya	14"x8"	200.0	Feb. 1986	50.41	+1.00	-6.00	55.0	70.0	E+F
70.	N-48	Nagarayan	14"x8"	166.0	May 1988	38.5	+1.5	-20.0	55.0	47.5	E+F
71.	N-50	Ranibazzar	14"x8"	193.0	March 1988	45.0	+1.0	-21.0	42.0	54.0	Centrifugal
72.	N-51	Laxmibas	14"x8"	122.5	April 1988	25.0	-37.25	-44.52	30.0	60.5	E+F
73.		Mahuwa 5	14"x8"	140.0	August 1992	30.0	+0.5	-27.0	30.0	32.0	E+F
74.		Kanakpati	14"x8"	150.0	April 1993	36.0	+0.5	-16.0	40.0	36.0	E+F
75.		Suga Madhukarhi	14"x8"	148.5	March 1994	48.0	+0.5	-20.0	35.0	42.0	

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
76.		I'ulsiyahi 2	14"x8"	198.0	June 1993	30.0	+0.5	-12.0	35.0	42.0	Self Flowing
77.		Lagama 5	14"x8"	174.5	March 1994	42.0	+1.0		20.0	36.0	Self Flowing
78.		Lagama 7	14"x8"	170.5	March 1995	42.0	+1.0	-7.0	45.0	42.0	Self Flowing
79.		Lagama 4	14"x8"	172.5	April 1995	36.0	+1.0	-9.0	50.0	42.0	Self Flowing
80.		Basahiya	14"x8"	198.5	June 1995	36.0	+1.0	-	25.0		Self Flowing
81.		Phulgama	14"x8"	204.5	August 1995	36.0	+0.5	-8.0	45.0	36.0	Self Flowing
82.		Shantipur	14"x8"	125.5	July 1995	36.0	-15.5	-36.0	30.0	54.0	O + F
83.		Ramnagra	14"x8"	171.5	June 1995	48.0	-8.0	-11.0	50.0	42.0	E + F
84.		Laxminibas 5	14"x8"	126.5	Nov. 1995	42.0	-48.0	-54.0	30.0	60.0	
85.		Laxminibas 7	14"x8"	108.5	Feb. 1996	42.0	-35.0	-46.0	35.0	54.0	
86.		Nagarain	14"x8"	203.5	March 1996	30.0	+0.5	-15.0	50.0	24.0	
87.		Basahiya (Sonapada)	14"x8"	208.0	April 1995	42.0	0.5	-12.0	40.0	30.0	
88.		Basahiya (Sonapada)	14"x8"	198.5	March 1996	36.0	+0.5	-10.0	40.0	24.0	
89.		Baniniya	14"x8"	109.5	August 1995	30.0	-0.5	25.0	50.0	36.0	E + F
90.		Lagama	14"x8"	175.0	Dec. 1995	42.0	+7.5	-8.0	45.0	36.0	Self Flowing

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.V. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
91.		Kurtha	14"x8"	195.5	Oct. 1995	42.0	+0.5	-21.0	30.0	42.0	
92.		Sinurjoda	14"x8"	168.5					30.0		
93.		Jhoji Kathaiya	14"x8"	183.5					50.0		S.F
94.		Dewpura Rupaitha 9	14"x8"	192.5					40.0		S.F
95.		Dewpura Rupaitha 2	14"x8"	222.5					42.0		S.F
96.		Deupura Rupaitha 3	14"x8"	172.5					45.0		S.F
97.		Lohana 3	14"x8"	176.5	April 1996	36.0	+0.5	10.0	30.0	18.0	S.F
98.		Lohana 4	14"x8"	166.5	May 1996	36.0	+0.5	12.0	25.0	24.0	S.F
99.		Backchora	14"x8"	159.5	Jan. 1995	36.0	-3.0	-12.5	40.0	41.0	O + E
100.		Jhoji Kataiya	14"x8"	175.5					48.0		S.F
101.		Naktajhij -I	14"x8"	155.00	April 22, 1991	36.0	-36.78	45.13	38.0	61	F + E
102.		Naktajhij -2	14"x8"	138	March 21, 1991	36.0	-40.86	43.87	38.0	71	F + E
103.		Basahiya 1	14"x8"	215.5	April 4, 1991	48.76	+0.5	25.78	49.0	43.77	I+E
104.		Basahiya 2	14"x8"	218.0	April 16, 1991	48.76	+0.5	22.20	49.0	42.75	I+E
105.		Basahiya 3	14"x8"	203.02	April 26, 1991	51m	+0.75	6.40	55	49.42	I+E
106.		Basahiya 4	14"x8"	206.00	May 16, 1991	51m	+0.75	15.95	55	43.86	I+E
107.		Hariharpur 11	14"x8"	132.02	March 8, 1991	36.4	-20.50	23.49	40	52.70	
108.		Hariharpur 2	14"x8"	136.45	March 3, 1991	37.28	-21.39	27.28	40	57	
		Ganga Sagar		195.5	1996/97	39	+5	-10	45.0	17.50	
		Bateshwar		120.5	1997	36	-36.0	-45	30.0	60.0	

SARLAHI DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Hoising (M)	Remarks
109.	J-21	Nawalpur	12"x8"	70.0	Dec. 1981	25.0	-22.0	-33.0	16.0	33.0	H.F (Govn. Farm)
110.	J-22	Nawalpur	12"x8"	72.5	Sept. 1979	17.0	-21.3	-39.50	45.0	39.79	(Govn. Farm)
111.	J-23	Sagarnath	12"x8"	97.6	Feb. 1982	22.5	-11.0	-35.0	25.0	40.0	Forest DPT (Govn. Farm)
112.	N-1	Sagarnath	12"x8"	98.0	April 1982	22.5	-11.0	-35.0	25.0	40.0	Forest DPT
113.	N-2	Sasapur	14"x8"	96.2	March 1987	29.0	-30.0	-42.0	20.0	42.0	Forest DPT
114.	N-31	Palar	14"x8"	81.0	April 1987	22.0	-33.0	-58.0	30.0	58.5	E+F
115.	N-32	Bhaktipur	14"x8"	112.5	April 1987	32.0	-1.5	-29.0	60.0	54.0	E+F
116.	N-37	Lalbandi	14"x8"	107.5	Feb. 1987	25.0	-34.0	-48.0	20.0	61.0	Screen collaps
117.	N-38,	Hariyon	14"x8"	136.0	March 1987	29.5	-51.0	-59.0	5.0	78.0	
118.	N-39	Bhaktipur	14"x8"	115.0	Feb. 1987	35.0	-1.5	-54.0	2.0		Tube well pulled due to screen damage.
119.	N-43	Nawalpur	14"x8"	105.0	March 1987	30.0	-21.0	-31.0	40.0	48.0	
120.	N-44	Brahmapuri	14"x8"	261.0	March 1988	The drilling hole is abandoned due to the lack of acquirer					
121.	(Test 7) N-52	Sri Nagar	14"x8"	106.0	March 1988	30.5	-17.0	-21.0	42.0	59.5	E + O
122.	N-53	Iswarpur	14"x8"	95.0	April 1988	28.0	-30.7	-40.65	43.0	54.4	E + F
123.	N-54	Balganga	14"x8"	92.5	May 1988	28.0	-17.0	-21.43	48.0	50.5	E + F
124.		Hariyon	14"x8"	126.5	April 1991	-30	-51	-59	38.0	78.	E + F

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
125.		Hariyon	14"x8"	116.5					25.0		
126.		Srinagara	14"x8"	108.50	March 1993		-14	-28	42.0	48	E + F
127.		Karmaya 5	14"x8"	92.0	May 1994	36	-34	-40	30.0		E + F
128.		Srinagar 7	14"x8"	108.50	July 1994	36	-15	-30	38.0	48	E + F
129.		Nawalpur (H.)	14"x8"	96.5					40.0		
130.		Laibandi 4	14"x8"	105.5					25.0		E + F
131.		Netragang 1	14"x8"	95.5					30.0		
132.		Netragang 2	14"x8"	97.5					55.0		
133.		Hariyon 4	14"x8"	113.5					20.0		
134.		Hariyon 5	14"x8"	138.0					20.0		
135.		Ranganj 2	14"x8"	98.0					25.0		
136.		Ghurkauli 8	14"x8"	114.5					35.0		
137.		Hariyon 6	14"x8"	113.5					20.0		
138.		Bhaktipur	14"x8"	108.5					40.0		
139.		Bhaktipur 7	14"x8"	114.5					40.0		
140.		Sugar Factory Hariyon	12"x8"	118.0	June 1994	30	42.50	54.50	35.0		Private sector financed by factory

MAIOTTARI DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
141.	J-18	Ramnagar	6"x6"	81.0	Feb. 1978	24.4	-22.0	-54.0	15.0		
142.	J-19	Aurahi	10"x6"	111.0	August 1979	36.17	-1.00	-7.00	60.0	28.76	
143.	J-20	Hatilet	8"x8"	94.5	August 1985	24.7	-42.30	-60.0	25.0		Forest
144.	N-30 (Test 4)	Parkauli	14"x8"	240.0	Jan. 1987	60.0	-0.30	-60.0	5.0	72.0	
145.	N-34	Hatilet	14"x8"	118.0	May 1987	33.5	-41.0	-61.0	25.0	66.0	E+F
146.	N-45 (Test 6)	Kisannagar	14"x8"	165.3	March 1988	44.0	-27.5		14.6	85.0	I + O
147.	N-49	Kusumadi (Ramnagar)	14"x8"	96.8	March 1988	27.25	-28.0	-31.0	42.0	59.5	E+F
148.	N-55	Saharwa	14"x8"	210.0	May 1988	44.4	+0.50	-14.0	45.0	51.5	
149.		Ekrahiya	14"x8"	240.0					30.0		Self flowing
150.		Ratwara	14"x8"	218.5					5.0		
151.		Suga	14"x8"	216.0	1994	54.0	+0.5	-10.0	45.0	54.0	
152.		Laxminiya	14"x8"	118.0	1994				30.0	36.0	
153.		Pashupati Nagar	14"x8"	114.5					30.0		
154.		Ram Nagar 7	14"x8"	114.5					30.0		
155.		Ram Nagar 1	14"x8"	114.5					40.0		
156.		Ram Nagar 6	14"x8"	90.5					35.0		I + E
157.		Bijalpura 6	14"x8"	110.5					35.0		
158.		Ekrahiya 1	14"x8"	202.5					30.0		
159.		Pipara 2	14"x8"	210.5					30.0		
160.		Dhirapur 5	14"x8"	218.5					30.0		
161.		Matihani	14"x8"	211.5					30.0		

JHAPA DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
204.		Topgachhi-3 "A"	14"x8"	120.5	1995	42.0	-7.5	-16.5	60.0	36.0	
205.		Topgachhi-3 "B"	14"x8"	122.5	1995	42.0	-7.75	-15.0	60.0	36.0	
206.		Dharampur -8	14"x8"	130.5	1995	42.0	-15.0	-26.5	40.0	48.0	
207.		Topagachhi-5	14"x8"	180.5	1995	42.0	-8.25	-21.0	50.0	42.0	
208.		Satasidham -7	14"x8"	166.5	1995	42.0	-20.0	-42.5	30.0	48.0	

MORANG DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
209.		Bhoraha-3	14"x8"	150	1993	48.0	9.8	14.20	60.0	36.0	
210.		Bhoraha-4	14"x8"	124	1993	48.0	8.66	13.0	60.0	36.0	
211.		Majhare	14"x8"	113.5	1994	48.0	6.5	22.0	60.0	36.0	
212.		Soralhag	14"x8"	105.5	1994	48.0	6.3	20.0	30.0	36.0	

SUNSARI DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
213.		Training center Jhunka	6"x6"	96.0	June 1992	42.0	-2.5	-6.0	15.0		

RUPENDEHI DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
214.		Fisheries Dev. C. Bhairahwa	14"x8"	136.0	Sep.1990	42.0	+0.5	-10.0	20.0	48.0	
215.		Fisheries Dev. C. Bhairahwa	14"x8"	118.0	Feb. 1991	42.0	+0.5	-10.0	15.0	48.0	

BANKE DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
216.		Nepalgunj		261.0		Abadone					
217.		Nepalgunj		192.0		Abadone					

BARA DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
218.		Parwanipur Farm	8"x8"	122.5				30.0			

PARSA DISTRICT

S.No.	Well No.	Location	Size (Inch)	Depth (M)	Date	Total Screen (M)	S.W.L. (M)	P.W.L. (M)	Discharge (l/sec.)	Housing (M)	Remarks
219		Agri. Tools Factory Birgunj	8"x8"	115.5				30.0			

AGRICULTURAL DEVELOPMENT PROJECT JANAKPUR

NAKTAJHIJ

REVISED UNIT PRICE OF SPAREPARTS FOR TS 80 YANMAR PUMPSET

S. No.	Item No.	Part's No.	Part's Name	FOB Unit Price in (NRs.)	JADP Subsidised price (proposed) 2/3 of FOB unit	Revised price in JADP (NRs.)	Total Quantity delivered in 1995 2052/2053	Total Amount on (Revised) price (NRs.)	Remarks
1	60	104300-01750	Cap, Filter	130.56	87.00	30	5	450/-	
2	71	102103-55510	cover Retainer	244.80	163.00	65	20	1300 -	
3	73	110250-55610	Ring, Retaining	87.04	58.00	40	10	400	
4	25	104300-14102	Gear, Camshaft	1931.20	1287.00	630	10	6300	
5	26	103388-14200	Tappet	255.68	170.00	80	10	800	
6	68	113200-53110	Spindle inter	43.52	29.00	20	10	200	
7	11	704400-01900 Y	Liner W/ o' ring	3435.05	2292.00	1350	20	27000	
8	41	104300-21203	Gear, Crankshaft	1044.48	696.00	600	10	6000	
9	24	104300-13200	Gasket (Packing)	54.40	36.00	20	10	200	
10	10	104300-01330	Gasket Cylinder head	255.65	170.00	85	100	8500	
11	75	104400-59501	Pipe, Fuel Injection	348.16	232.00	85	20	1700	
12	216	103338-22300 (105300-22300)	Pin Piston	435.20	290.00	380	10	3800	
13	12	103288-01300	O. Ring, Cyl. Liner	65.28	46.00	25	40	1000	
14	22	106300-12050	Gasket (Packing or Air Cleaner)	16.30	11.00	10	10	100	
15	003	26214-100552	Stud M10x 55	119.68	80.00	45	20	900	
16	17	106300-11120	Spring, Valve	54.40	36.00	30	100	3000	
17	79	106430-66090	Spring Regulator	157.76	105.00	45	10	450	

18	30	104200-54230	Shimset	108.80	76.00	30	20	600
19	23	104304-13511 (706300-13700)	Silencer Assy	3209.60	2140.00	450	10	450
20	27	1044400-14400	Rod, Push	70.72	117.00	55	10	550
21	007	984180-R0000	Rubber Coupling	5113.60	3409.00	650	500	325000
22	39	0441100-21100	Weight Balance	500.48	334.00	230	310	71300
23	78	1011100-61520	Bush, Gov. Lever	97.92	65.00	40	50	2000
24	20	704300-11520	Bonnet Assy, Head	1969.28	1313.00	900	5	4500
25	52	104300-23201	Bolt Rod (Connecting Rod)	168.64	112.00	45	20	900
26	65	104200-54080	Bolt, F-i Pump Body	38.08	25.00	15	50	750
27	80	174200-34591	Bolt	32.64	22.00	10	20	200
28	005	9840R4-0161A	Washer Seal	59.84	40.00	30	5	150
29	28	24101-060064	Ball Bearing 6006 (Camshaft)	255.68	170.00	250	20	5000
30	37	105600-02310	Roller Bearing	1762.56	1175.00	1050	100	105000
31	36	105600-02300	Ball Bearing 6310	1213.12	809.00	800	110	88000
32	72	102102-55520	Gasket (O - Ring)	38.08	25.00	25	20	500
33	59	24341-000440	O-Ring	32.64	22.00	20	10	200
34	15	101218-11100	Valve Suction	299.20	200.00	225	25	5625
35	16	101218-11110	Valve Exhaust	250.24	167.00	200	25	5000
36	008	101158-03061	Valve Check	27.20	18.00	15	40	600
37	19	105010-11920 (104200-11920)	Cock (Draincock, Peacock)	353.60	236.00	150	40	6000
38	34	706300-02501	Housing Assy, Bearing	10662.40	7108.00	3,500	5	17500
39	14	704307-11700	Head, Assy Cylinder	9302.40	6202.00	3,500	800	2800000
40	61,74	103854-39140	Bolt Pipe Joint	157.76	105.00	100	16	1600
41	21	104300-12510	Air Cleaner	1327.36	885.00	800	140	112000
42	58	104200-35150	Element Lub Oil (Mobil Filter)	228.48	152.00	125	15	1875
43	64	101300-51300	Valve W/Seat Delivery (Delivery)	272.00	181.00	270	25	6750

69	69	704400-55700	Tank Assy, Fuel	7126.00	4751.00	2500	5	
70	70	104700-55710	Element Fuel	125.12	83.00	75	100	7500
71	76	105582-59150	Bolt Pipe Joint	70.72	47.00	50	20	1000
72	77	706300-61700	Governor Assy	1403.52	936.00	550	50	27500
73	81	26759-060002	Locknut M6 Plated	10.88	7.00	5	70	350
74	82	106300-21500	Shaft Assy, Stub	1327.36	885.00	750	10	7500
75	13	26116-	Bolt M6 X 10 Plated	21.76	15.00	15	40	600
76	62	706410-44530	Hopper	9302.40	6202.00	1500	5	7500
Total -								4437400

AGRICULTURAL DEVELOPMENT PROJECT JANAKPUR

NAKTAJHIJ

REVISED UNIT PRICE OF SPARPARTS FOR TS 60 YANMAR PUMPSET

Proposed

S. No.	Item No.	Part's No.	Part's Name	FOB Unit Price in (NRs.)	JADP Subsidised price (proposed) 2/3 of FOB unit	Revised price in JADP (NRs.)	Total Quantity delivered in 1995 (2052/2053)	Total Amount on Revised price (NRs.)	Remarks
1	80	26756-060002	Locknut M6 Plated	10.88	7.00	5	50	250	
2	5974	103554-39140	Bolt Pipe Joint	157.76	105.00	55	250	13750	
3	79	174210-34591	Bolt	32.64	22.00	15	50	750	
4	66	104200-54080	Bolt(F. Pump Body)	38.08	25.00	20	50	1000	
5	38	104200-21100	Weight balance	473.28	316.00	250	40	10000	
6	61	706210-44530	Hopper	8214.40	5476.00	1200	10	12000	
7	15	704207-11701	Head Assy, Cylinder	9030.40	6020.00	3500	20	70000	
8	20	105010-11920 (23691-020010)	Cock (Peacock ordinary Cock)	353.60	236.00	200	20	4000	
9	13	105215-01300 (101204-01300)	O-ring, Cylinder (Packing in)	65.28	44.00	25	100	2500	
10	004	26214-10552	Sud (M 10 X 55)	119.68	80.00	75	40	3000	
11	75	106230-66110	Spring, Regulator	157.76	105.00	100	50	5000	
12	76	706300-61700 (706300-61520)	Governer Assy (Support Governer)	1403.52	936.00	550	50	27500	
13	002	9540T4-0241A	Shaft Impeler	1169.60	780.00	350	20	7000	
14	5657	24341-000440	O-Ring	32.64	22.00	20	70	1400	
15	22	104200-12510	(Air Cleaner)	1321.92	851.00	750	20	15000	

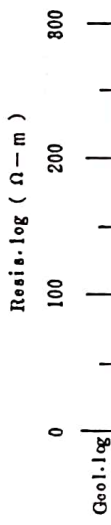
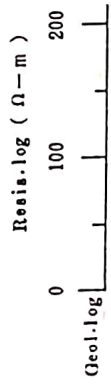
16	27	104200-14101	Gear, Camshaft	1702.72	1135.00	1050	50	52500	
17	40	106250-21200	Gear, Crankshaft	805.12	537.00	550	50	27500	
18	23	106100-12050	Gasket	16.32	11.00	10	40	400	
19	32	704200-54500	Guide Assy, Roller	467.84	312.00	300	20	6000	
20	25	104100-13200	Gasket (Packing Silencer)	32.64	22.00	20	20	400	
21	52	101200-34530	Glass Oiler	92.48	62.00	50	200	10000	
22	11	104200-01330 (104264-01330)	Gasket, Cyl Head	239.36	160.00	150	100	15000	
23	44	104200-22300	Pin Piston	353.60	236.00	216	20	3420	
24	41	104200-22090	Piston W / Ring Assy	2056.32	1371.00	1250	50	62500	
25	71	102103-55510	Cover Strainer	250.24	167.00	150	20	3000	
26	26	104200-14010	Cam Shaft	2078.08	1385.00	750	20	15000	
27	60	706200-01500	Cover Assy Side	7996.05	5331.00	2550	20	51000	
28	007	984135-R0000	Rubber Coupling	4308.48	2872.00	1000	500	500000	
29	008	9840R4-0091A	Valve Assy Check	206.72	138.00	120	100	12000	
30	29	104200-14400	Rod Push (valve)	65.28	44.00	50	20	1000	
31	65	704200-51550	Regulator Assy	658.24	439.00	250	200	50000	
32	28	104200-14200	Tappet	168.64	112.00	100	20	2000	
33	69	704200-55700	Tank Assy, Fuel	6038.40	4026.00	2500	10	25000	
34	65	113200-53110	Spindle Inter	43.52	29.00	30	50	1500	
35	30	24101-060044	Ball Bearing 6004	159.76	105.00	150	40	6000	
36	55	104200-35150	Element Luboil	228.48	152.00	75	200	15000	
37	36	105110-02310	Roller Bearing	1485.12	990.00	950	50	47500	
38	35	105400-02300	Ball Bearing 6309	1098.38	733.00	750	50	37500	
39	17	104200-11110	Valve Exhaust	239.36	160.00	200	40	8000	
40	62	104210-51100	Plunge r w/barrel	1360.00	907.00	1250	200	250000	
41	42	704200-22502 (704210-22500)	Ringset (Piston Ring)	511.36	341.00	350	50	17500	

42	54	104200-32150	Rotor Assy Pump Lub Oil	489.60	326.00	400	100	40000
43	70	104200-55710	Element Fuel strainer	125.12	83.00	75	200	15000
44	001	24107-063064	Ball Bearing 6362	620.16	413.00	450	40	18000
45	003	9840R4-0188A	Packing	522.24	348.00	50	500	25000
46	005	26714-100002	Nut M10	218.96	33.00	25	40	1000
47	006	984135-0530Y	Copling Assy	6528.00	4352.00	2000	40	80000
48	10	95110R4-0161AL	Washer Seal	59.84	40.00	25	200	10000
49	12	705240-01900Y	Liner w/o ring	3013.76	2009.00	1050	50	52500
50	14	26116-060109	Bolt M6X10 Plated	21.76	15.00	40	100	4000
51	16	104200-11100	Valve Suclron	255.68	170.00	200	210	42000
52	18	106100-11120	Spring Valve	54.40	36.00	50	210	10500
53	19	105282-11160	Guide Valve	353.60	236.00	80	400	32000
54	21	704200-4520	Bonnet Assy, Head	1762.56	1175.00	850	20	17000
55	24	104204-13511	Silencer	3084.48	2056.00	250	20	5000
56	31	104200-54010	Bracket, F.I. Pump	826.88	551.00	300	20	6000
57	33	706200-02501	Housing Assy, Bearing	2056.32	1371.00	900	10	9000
58	34	24421-456209	Seal TC 456209, Oil	108.80	73.00	55	50	2750
59	37	706250-21701	Crankshaft Assy	8812.80	5875.00	2400	20	48000
60	39	104271-21100	Bolt	27.20	18.00	15	40	600
61	43	704210-22572	Ringset 0.25	609.28	406.00	280	50	14000
62	45	704210-23110	Rod Assy, Connecting	6038.24	4026.00	1800	20	36000
63	46	104200-23910	Bush, Piston Pin	201.28	134.00	85	100	8500
64	47,50	104200-23340	Bearing Pin(conn.Rodbearing)	712.64	475.00	250	200	50000
65	48	104200-23350	Bearing Pin (0.25 U.S.) Conn.Rod bearing	799.68	533.00	350	100	35000
66	49	104200-23360	Bearing Pin (0.50 U.S.)	799.68	533.00	350	100	35000

67	51	101200-34520	ConnRod bearing	81.60	54.00	50	100	5000	
68	53	103884-34540	Roter Oiler	92.92	65.00	35	50	1750	
69	58	26116-060182	Clamp	10.88	7.00	3	50	150	
70	63	101300-51300	Bolt M 6 X 18	272.00	181.00	150	200	30000	
71	64	172110-51340	Valve with Seat Delivery	304.64	203.00	85	10	850	
72	67	172100-53000	Retainer	826.88	551.00	750	200	150000	
73	72	102103-55520	Nozzle Assy, F Injection	33.08	25.00	15	20	300	
74	73	110250-55610	Gasket (O-Ring)	87.04	58.00	40	20	800	
75	75	105582-59150	Ring, Retaining	70.72	47.00	25	150	3750	
76	77	104100-61520	Bolt Pipe Joint	103.36	69.00	40	200	8000	
77	81	101400-76500	Bush Governen Lever	92.48	62.00	35	50	1750	
78	82	704100-21500	Seal VC 26405, Oil	897.60	598.00	400	50	20000	
Total -									2212070

I.A.P TUBE WELL No9

I.A.P TUBE WELL No6



EL 100

50

0

-50

-100

G 1

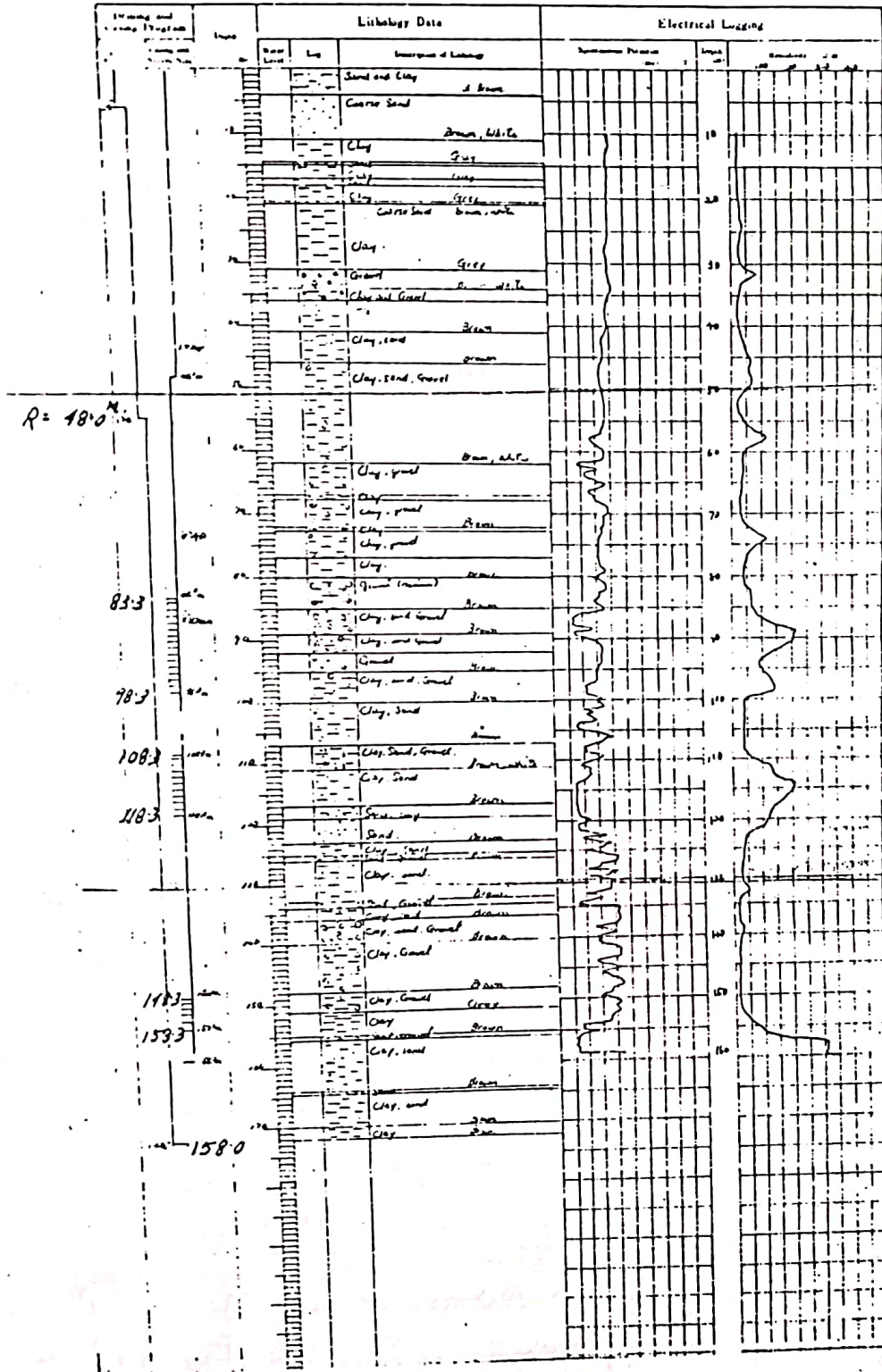
G 2

G 3

G 4

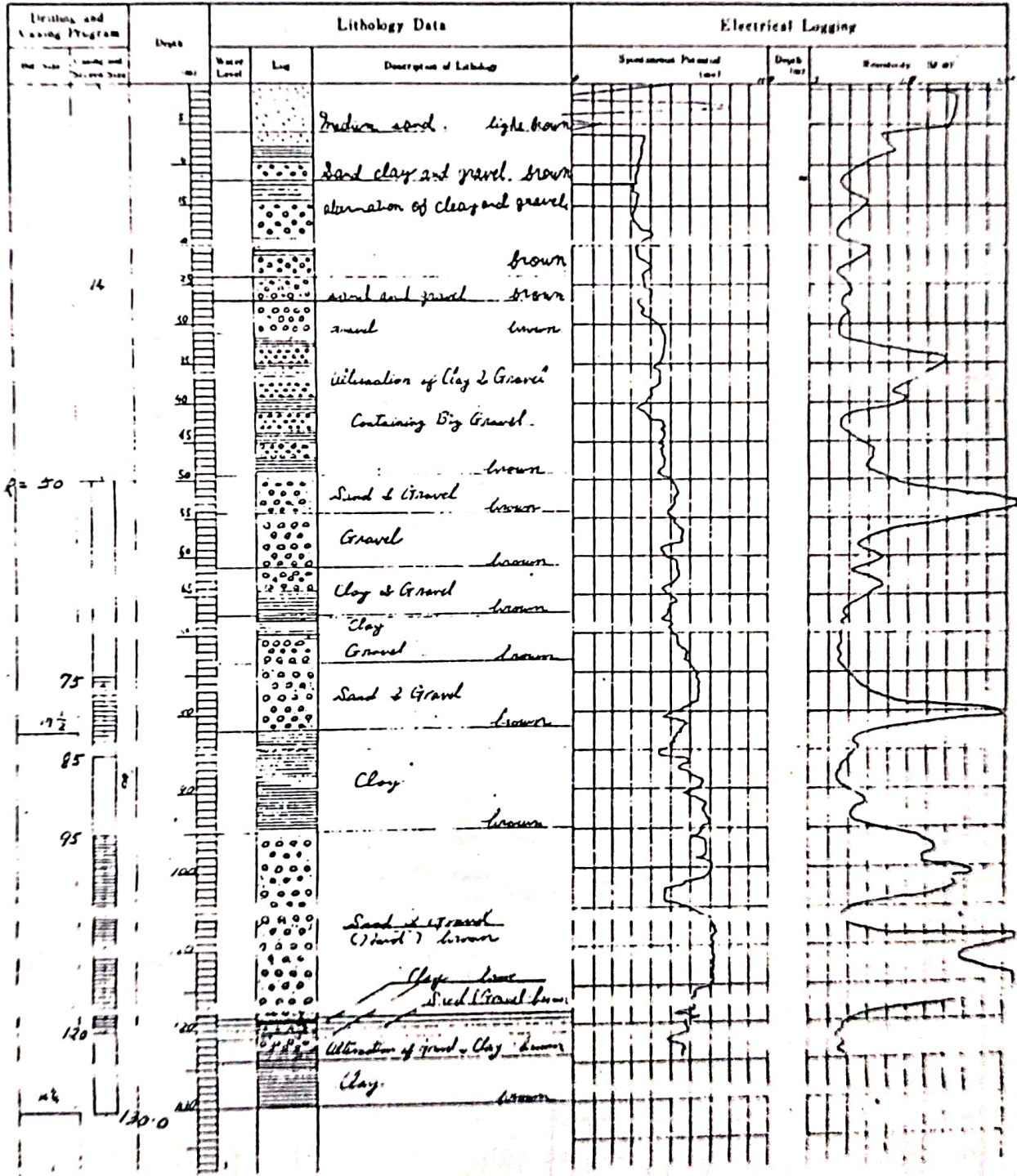
PROJECT NAME	D.T.I. Project		WELL No.	2-1
AREA AND LOCATION	Dharpini			
ELEVATION		LATITUDE	LONGITUDE	
TOTAL DEPTH	158.06720	DILLING HIG	1	
DILLING STARTED	01.05.1985	DILLED BY	K. Higuchi	
WELL COMPLETED	11.06.1985	LOGGED BY	K. Higuchi	

STATIC WATER LEVEL	4.40	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	4.10	CONDUCTIVITY	
PUMPING RATE	1,800 l/min (4.72 m ³ /hr)	pH	
SPECIFIC CAPACITY	0.12 m	TOTAL HARDNESS	



PROJECT NAME: D.T. Project		WELL NO. 4-2	
AREA AND LOCATION: Pushpalpur			
ELEVATION	=	LATITUDE	LONGITUDE
TOTAL DEPTH	130 =	DRILLING RIG	2
DRILLING STARTED	12.05.85	DRILLED BY	K. MATSUZAKI
WELL COMPLETED	08.06.85	LOGGED BY	K. MATSUZAKI

STATIC WATER LEVEL	Sly Well =	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	=	CONDUCTIVITY	µm/cm
PUMPING RATE	l/min (m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /d/m	TOTAL HARDNESS	

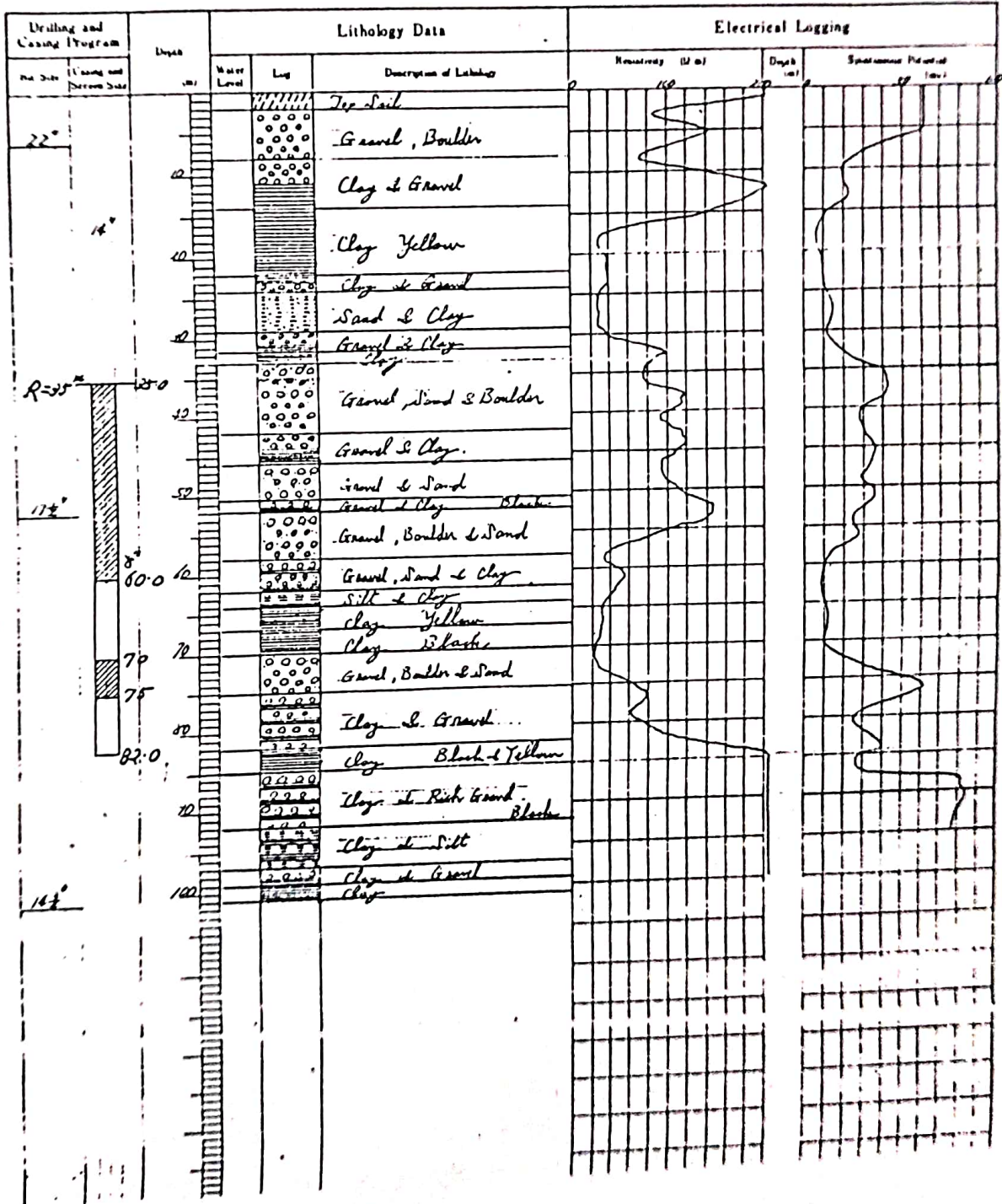


WELL LOG

Data No. 3

PROJECT NAME <i>D.T.I. Project</i>		WELL NO. <i>1-3</i>	
AREA AND LOCATION <i>Janakpur, Bharatpur</i>			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH <i>82.0 (101)</i>		DRILLING RIG <i>No. 3</i>	
DRILLING STARTED <i>26th May, '85</i>		DRILLED BY <i>T. OZEKI & P. MUKHIYA</i>	
WELL COMPLETED <i>1st June, '85</i>		LOGGED BY <i>K. MATSUZAKI</i>	

STATIC WATER LEVEL <i>24.10</i>	WATER TEMPERATURE
DYNAMIC WATER LEVEL <i>31.10</i>	CONDUCTIVITY $\mu\text{m/cm}$
PUMPING RATE <i>2400 (1 min) (3456 m³/d)</i>	pH
SPECIFIC CAPACITY <i>m³/d/m</i>	TOTAL HARDNESS

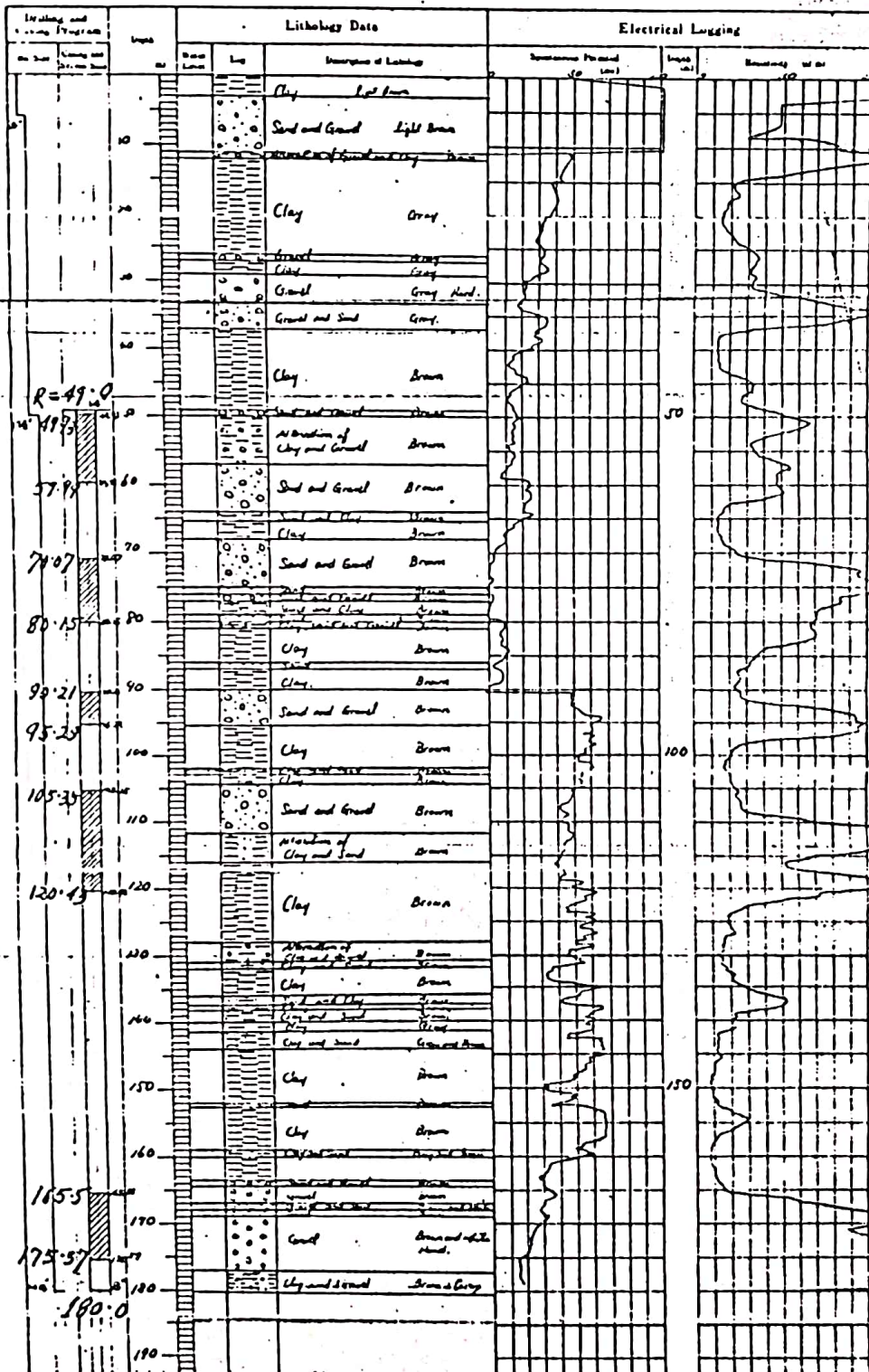


WELL LOG

Date No. - 4

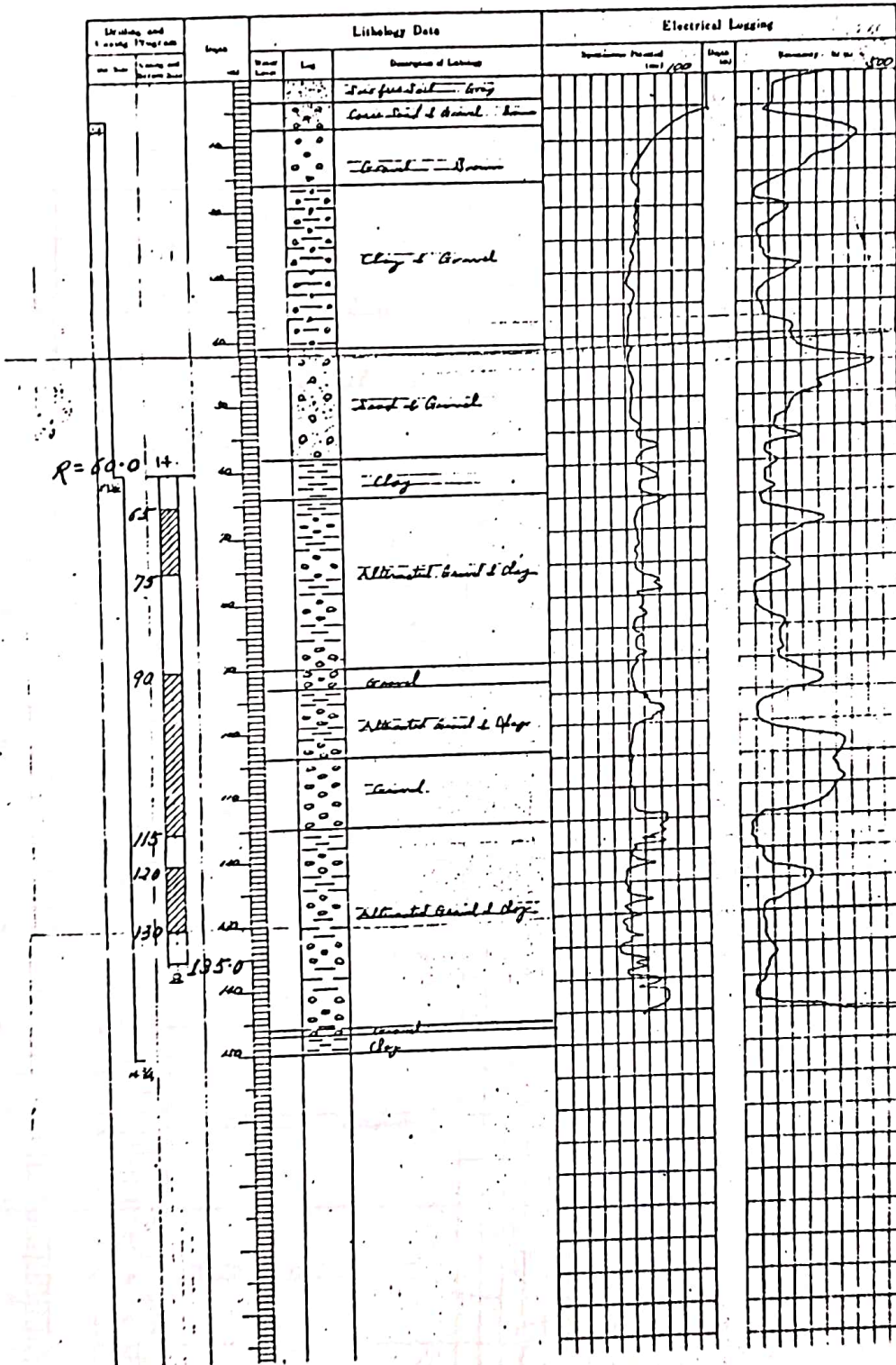
PROJECT NAME <i>Dupe Tulwell Legation</i>		WELL NO <i>2-4</i>	
AREA AND LOCATION <i>Jamjira, Kamala</i>			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH <i>180.0 (180.10)</i>		DRILLING RIG <i>Rig 2</i>	
DRILLING STARTED <i>9th July '85</i>		DRILLED BY <i>K. Hiji & K. Moringali</i>	
WELL COMPLETED <i>9th July '85</i>		LOGGED BY <i>dsr</i>	

STATIC WATER LEVEL <i>31.6</i>		WATER TEMPERATURE	
DYNAMIC WATER LEVEL <i>44.66</i>		CONDUCTIVITY	<i>µm/cm</i>
PUMPING RATE <i>400 l/min (842 m³/d)</i>		pH	
SPECIFIC CAPACITY <i>0.18/m</i>		TOTAL HARDNESS	



PROJECT NAME		WELL NO. 4-6	
AREA AND LOCATION DHALKEBAR			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	135.0 (145)	DRILLING RIG 1	
DRILLING STARTED	8, Dec, 85	DRILLED BY H. ISHIKAWA	
WELL COMPLETED	6, Jan, 86	LOGGED BY H. KAWABATA	

STATIC WATER LEVEL	63.70	WATER TEMPERATURE	15
DYNAMIC WATER LEVEL	81.45	CONDUCTIVITY	200 μ m
PUMPING RATE	900 l/min (276 m^3/d)	pH	
SPECIFIC CAPACITY	0.18 m^3	TOTAL HARDNESS	

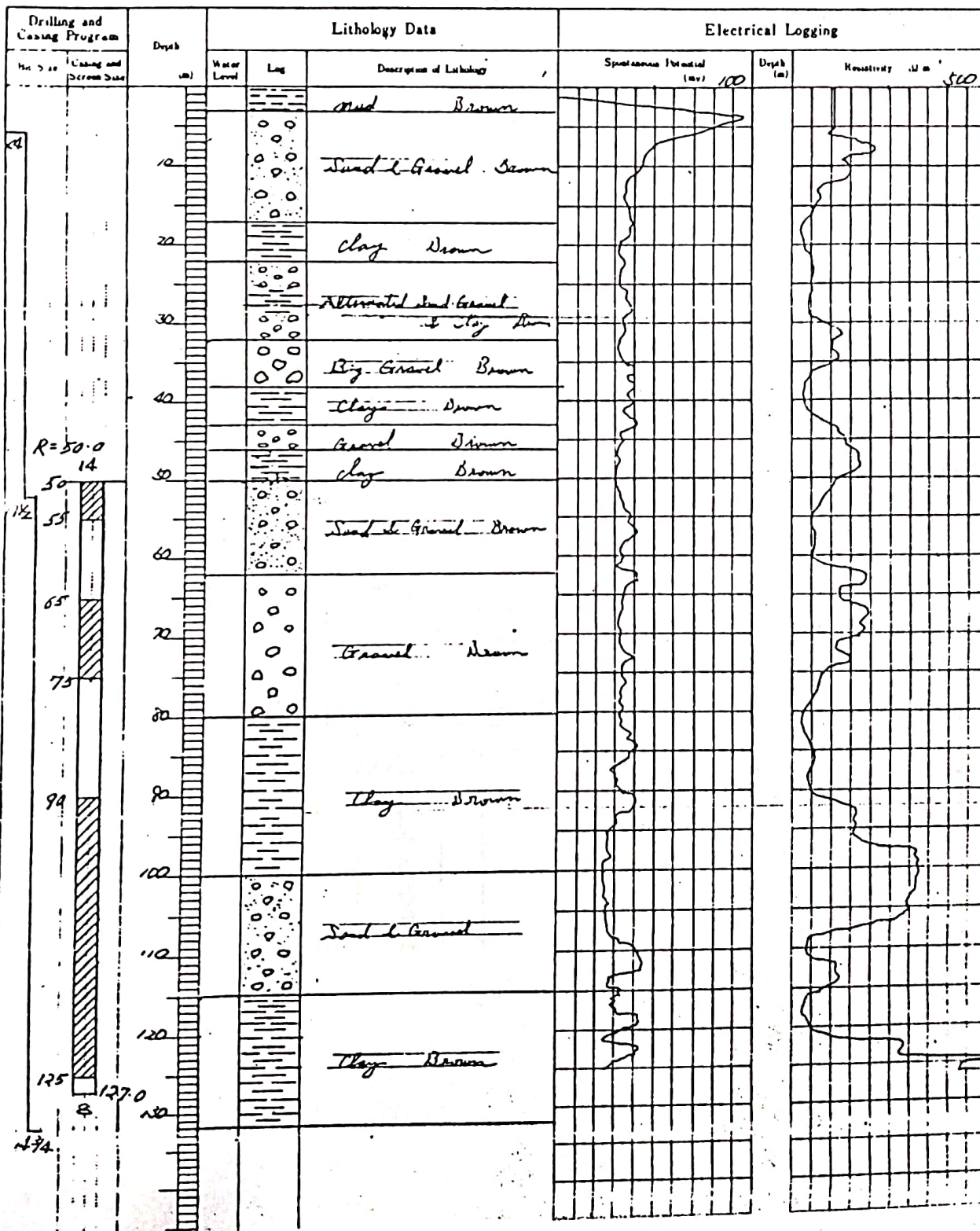


WELL LOG

Data No. 7

PROJECT NAME		WELL NO. 1-7	
AREA AND LOCATION GAURIPUR DHANUSHA			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	127.0 (132)	DRILLING RIG	3
DRILLING STARTED	14, Dec, '85	DRILLED BY	K. MATSUZAKI
WELL COMPLETED	6, Feb, '86	LOGGED BY	- do -

STATIC WATER LEVEL	20.90 m	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	36.65 m	CONDUCTIVITY	μS/cm
PUMPING RATE	1,500 l/min (2,160 m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /Wm	TOTAL HARDNESS	

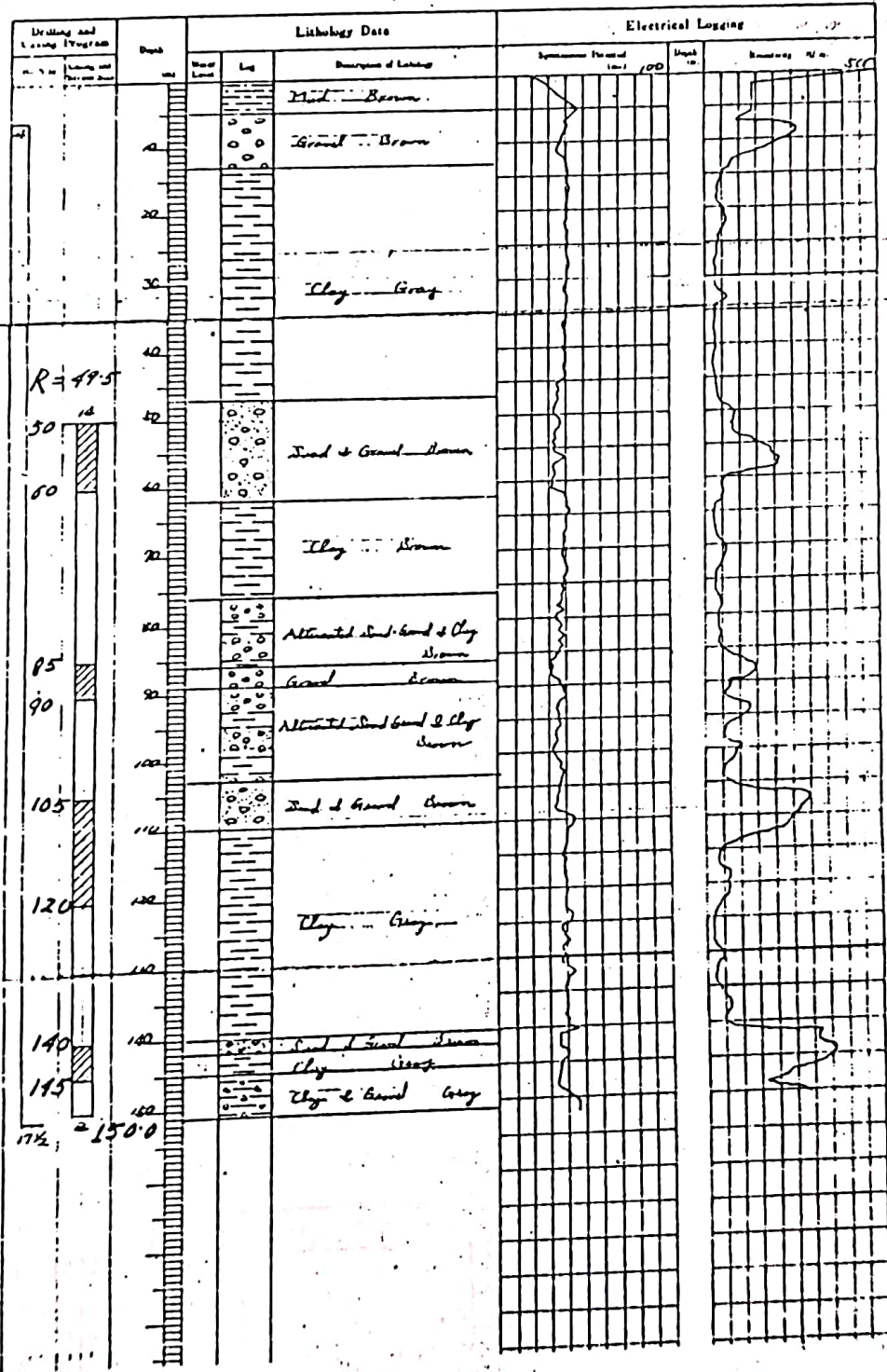


WELL LOG

Date No. 0

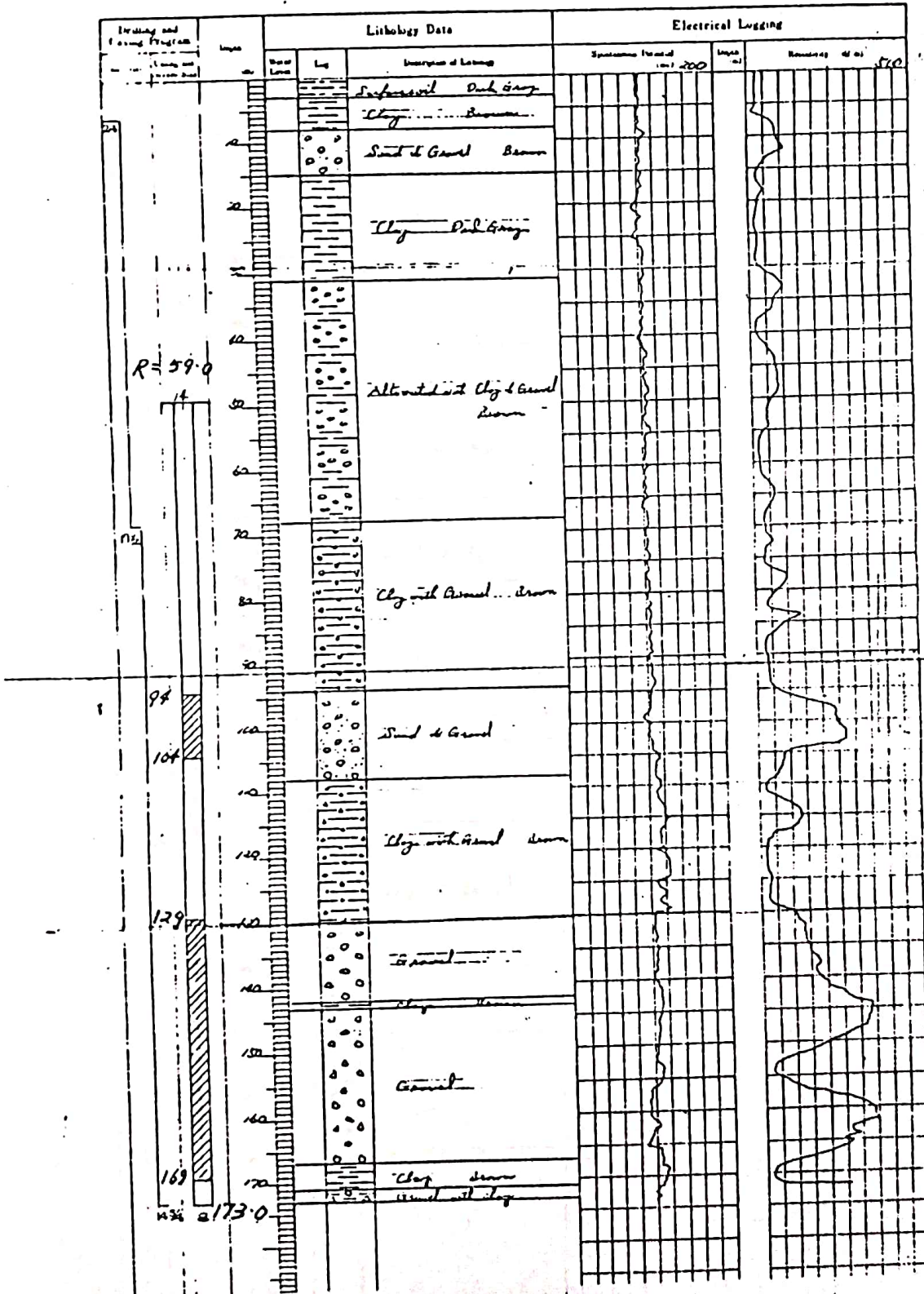
PROJECT NAME		WELL NO. 1-B	
AREA AND LOCATION RADHAPUR			
ELEVATION	=	LATITUDE	LONGITUDE
TOTAL DEPTH	150.0 (151.)	DRILLING NO.	3
DRILLING STARTED	11, Dec, 15	DRILLED BY	K. MATEUZAKI
WELL COMPLETED	25, Jan, 16	LOGGED BY	do

STATIC WATER LEVEL	28.70	WATER TEMPERATURE	°C
DYNAMIC WATER LEVEL	57.51	CONDUCTIVITY	µS/cm
PUMPING RATE	2,520 (1mm 1.362 m³/d)	pH	
SPECIFIC CAPACITY	m³/d/m	TOTAL HARDNESS	



PROJECT NAME		WELL NO 3-9	
AREA AND LOCATION MANGALPUR			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	173.0 (172.0)	DRILLING NO	2
DRILLING STARTED	28 Dec, '86	DRILLED BY	M. KAKUDA
WELL COMPLETED	7 Jan, '86	LOGGED BY	H. KAWABATA

STATIC WATER LEVEL	23.74	WATER TEMPERATURE	2
DYNAMIC WATER LEVEL	34.17	CONDUCTIVITY	100
PUMPING RATE	3,000 l/min (19,320 m³/d)	pH	
SPECIFIC CAPACITY	0.12	TOTAL HARDNESS	

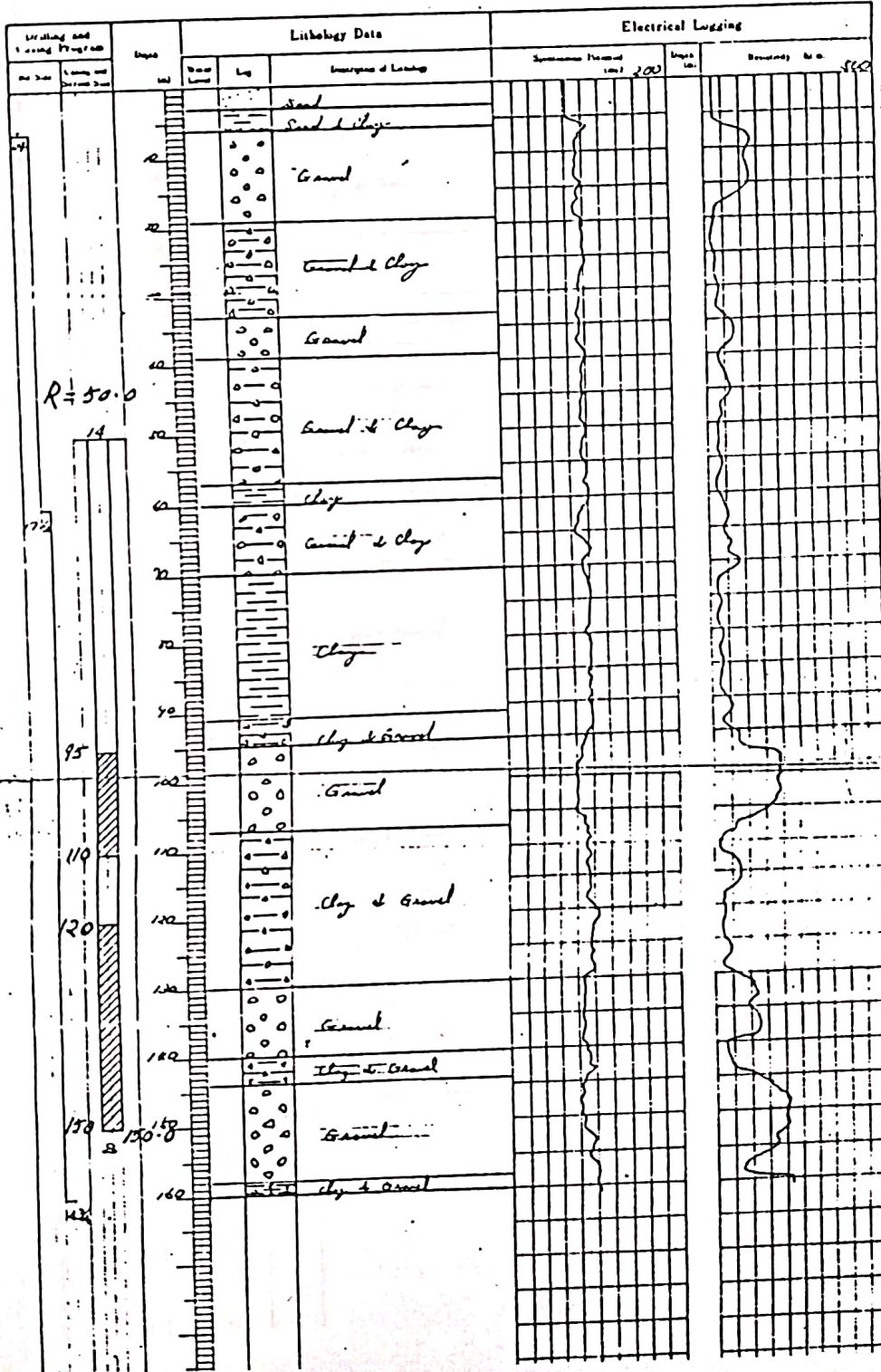


WELL LOG

Data No. 10

PROJECT NAME		WELL NO. 3-10	
AREA AND LOCATION SARSA			
ELEVATION	=	LATITUDE	LONGITUDE
TOTAL DEPTH	=	DRILLING RIG	1
DRILLING STARTED	=	DRILLED BY	H. ISHIKAWA
WELL COMPLETED	=	LOGGED BY	H. KAWABATA

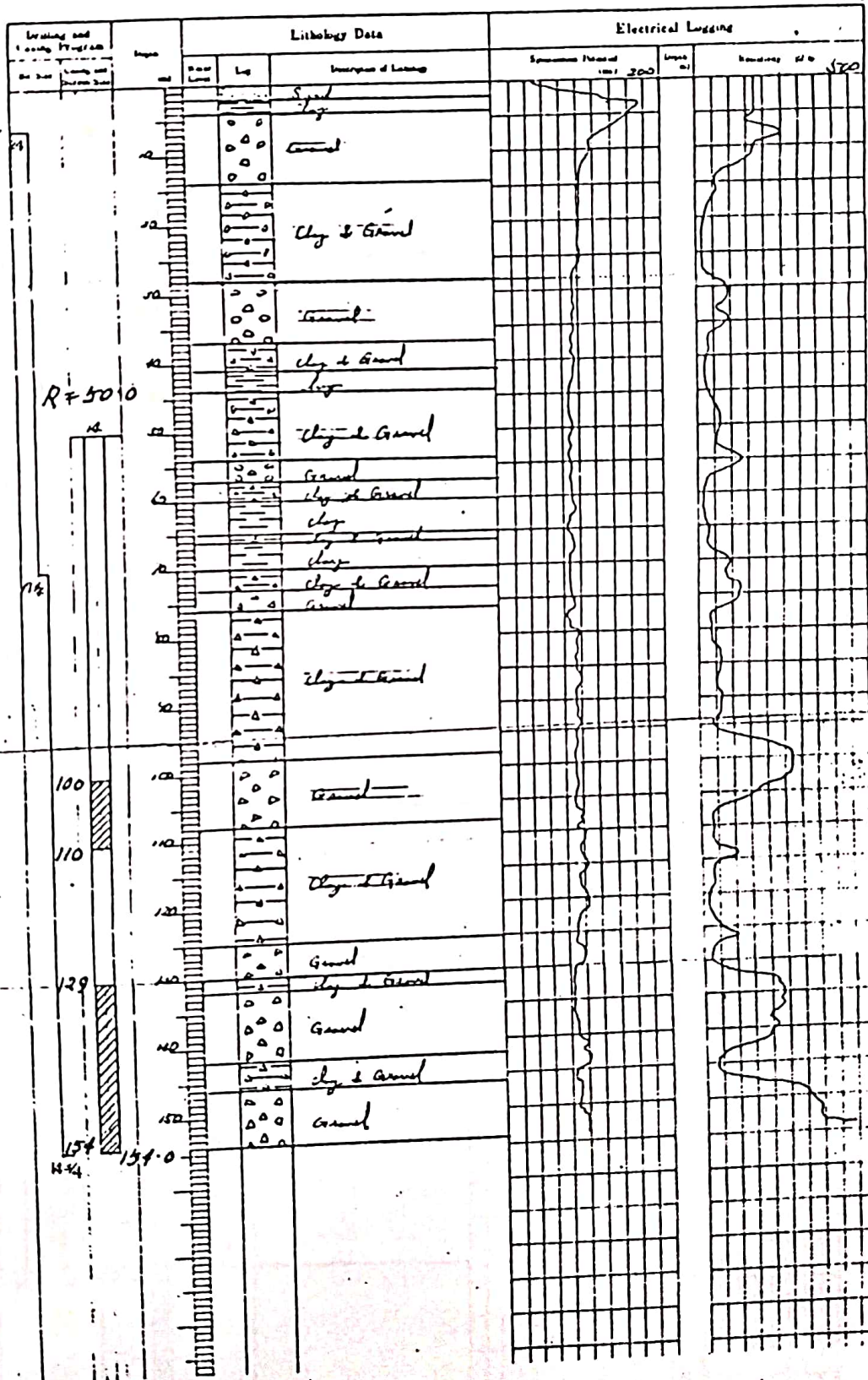
STATIC WATER LEVEL	=	WATER TEMPERATURE	°F
DYNAMIC WATER LEVEL	=	CONDUCTIVITY	μS/cm
PUMPING RATE	=	pH	
SPECIFIC CAPACITY	=	TOTAL HARDNESS	



WELL LOG

PROJECT NAME		WELL NO 3-11	
AREA AND LOCATION - GHOJYA...			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	154.0 (155)	DRILLING RIG	
DRILLING STARTED	1. Feb. 76	DRILLED BY H. ISHIKAWA	
WELL COMPLETED	29. Feb. 76	LOGGED BY H. KAWARATA	

STATIC WATER LEVEL	27.0	WATER TEMPERATURE	2
DYNAMIC WATER LEVEL	25.5	CONDUCTIVITY	μS/cm
PUMPING RATE	1.40 l/min (2.956 m ³ /d)	pH	
SPECIFIC CAPACITY	m ³ /m	TOTAL HARDNESS	

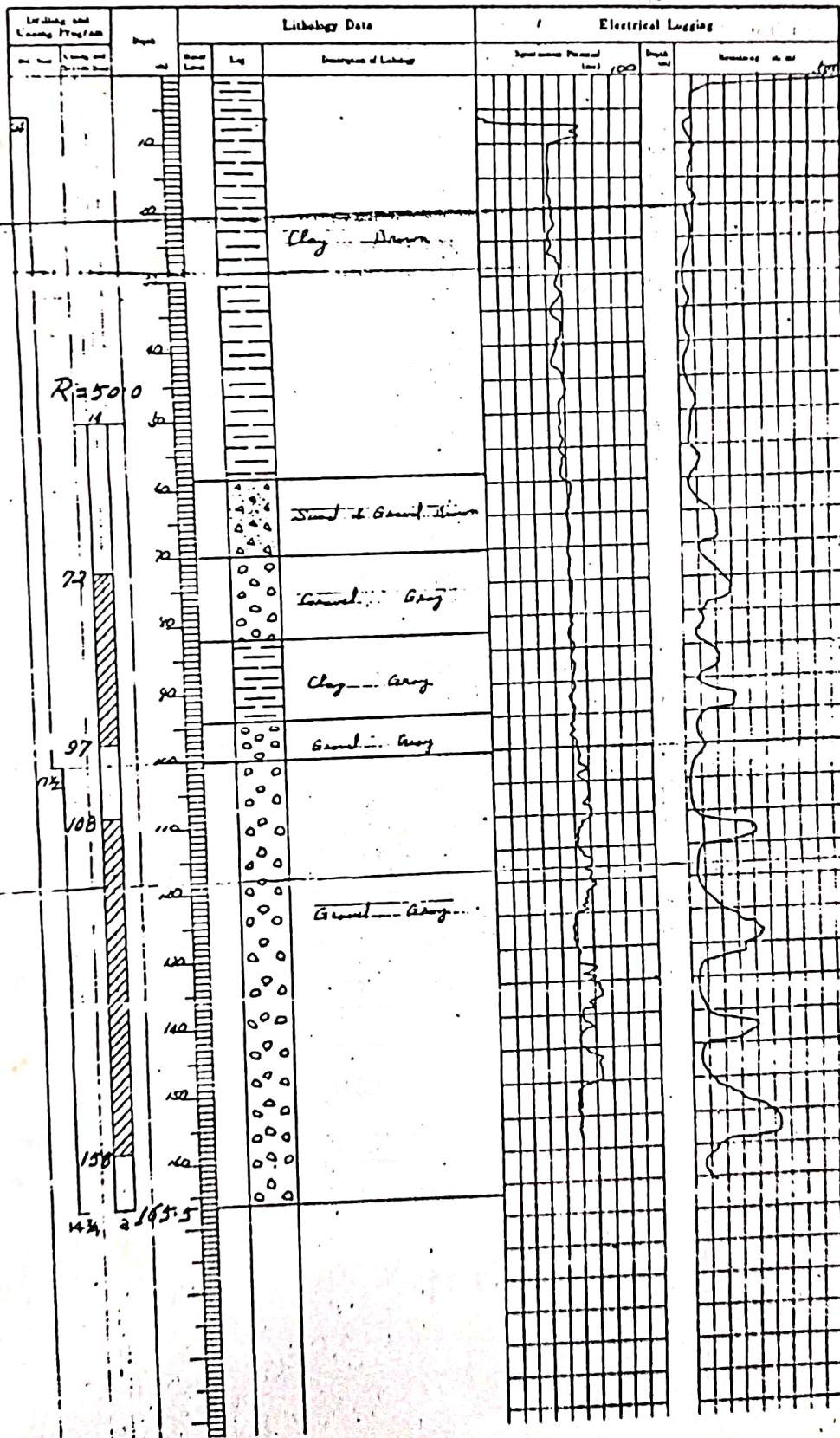


WELL LOG

Date No. 14

PROJECT NAME		WELL NO. 7-14	
AREA AND LOCATION LALIYA			
ELEVATION	=	LATITUDE	=
TOTAL DEPTH	=	DRILLING RIG	=
DRILLING STARTED	=	DRILLED BY	=
WELL COMPLETED	=	LOGGED BY	=

STATIC WATER LEVEL	=	WATER TEMPERATURE	=
DYNAMIC WATER LEVEL	=	CONDUCTIVITY	=
PUMPING RATE	=	pH	=
SPECIFIC CAPACITY	=	TOTAL HARDNESS	=



WELL LOG

Data No. 12

PROJECT NAME		WELL NO. 7-12	
AREA AND LOCATION <u>JANAKI-NAGAR</u>			
ELEVATION		LATITUDE	LONGITUDE
TOTAL DEPTH	<u>165.0 (130)</u>	DRILLING NO.	<u>2</u>
DRILLING STARTED	<u>17 Jan, 58</u>	DRILLED BY	<u>M. KAKUDA</u>
WELL COMPLETED	<u>9 Feb, 58</u>	LOGGED BY	<u>H. KAWAETA</u>

STATIC WATER LEVEL	<u>12.52</u>	WATER TEMPERATURE	
DYNAMIC WATER LEVEL	<u>45.22</u>	CONDUCTIVITY	<u>270</u>
PUMPING RATE	<u>600 l/min (864 m³/d)</u>	pH	
SPECIFIC CAPACITY	<u>0.125</u>	TOTAL HARDNESS	

