

GROUND WATER SURVEY CONSULTANCY  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL  
ELECTROLOGGING REPORT

Ref No:-A-509

Date:- 22-03-2023

NAME OF SITE

GRAM PANCHAYAT - Ghilaur

BLOCK- Dataganj

DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV  
Badaun



GROUND WATER SURVEY CONSULTANCY  
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.  
112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006  
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- GHILAU, BLOCK- DATAGANJ, DISTT- BADAUN UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Badaun.

On the request of M/S PNC-SPML-JV, Badaun. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 22.Mar.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Dry sand	
3.	8 - 15	7	Fine sand	
4.	15 - 20	5	Clay kankar	
5.	20 - 35	15	Medium sand	Medium
6.	35 - 40	5	Clay kankar	
7.	40 - 63*	23	Medium sand	Medium
8.	63 - 73	10	Clay kankar	
9.	73 - 77	4	Fine sand	Medium
10.	77 - 83	6	Clay kankar	
11.	83 - 87*	4	Medium sand	Medium
12.	87 - 90	3	Clay kankar	
13.	90 - 110*	20	Medium sand	Medium
14.	110 - 120	10	Clay kankar	

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## Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta chart.
2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Medium.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.



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