

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:-N-1341

Date:- 27-02-2023

NAME OF SITE

Gram Panchayat- Tikai Pukhta

BLOCK- Usawan

DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO : 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- TIKAI PUKHTA, BLOCK- USAWAN, DISTT.- BADAUN
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 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 is conduct at above bore hole using IGIS Well Logger on 27.Feb.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major aquifer 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 - 12	7	Fine sand	
3.	12 - 20	8	Clay kankar	
4.	20 - 52*	32	Medium sand & kankar	Medium
5.	52 - 60	8	Clay kankar	
6.	60 - 66*	6	Medium sand	Medium
7.	66 - 75	9	Clay kankar	
8.	75 - 83*	8	Sand & kankar	Medium
9.	83 - 94	11	Clay kankar	
10.	94 - 101*	7	Medium sand	Medium
11.	101 - 120	19	Clay kankar	



Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting strata 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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Tikai Pukhtia G.P. w/s Scheme Under JIM Prog.
Block - Usawan Diatt - Budauri

D - 120m (600 x 500) mm φ
L - 110m (300 x 150) mm φ

DL - 27/02/23
Discharge - 600 LPM
36m Head 12.5 H.P

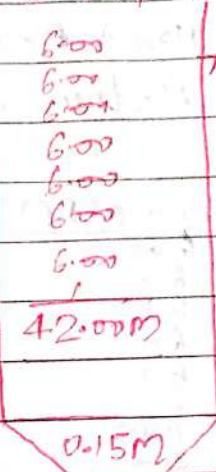
Structure As Per Logger

60 - 66m - medium Sand
75 - 83m - Sand & Kankar
94 - 101m - medium Sand

← 300mm φ →

300mm φ (H.P) 150mm φ (P.P) 150mm φ (S.P)

6.00	6.00	4.00
6.00	6.00	6.00
6.00	6.00	6.00
6.00	1.40	5.00
6.00	6.00	15.00m
6.00	6.00	
6.00	6.00	
6.00	6.00	
4.2.00m	1.00	
	6.00	



41.50m
41.65m

6.00	13
6.00	12
6.00	11
1.40	10
4.00	9
6.00	8
5.00	7
6.00	6
6.00	5
6.00	4
1.00	3
5.00	2
6.00	1

61.05m
65.05m
76.05m
82.05m
95.05m
100.05m
106.05m

300mm φ (H.P) = 42.00m
150mm φ (P.P) = 49.40m
150mm φ (S.P) = 15.00m
1300 x 150mm φ Reducer = 0.15m
Total = 106.55m

A-G L = 0.50m
B-G L = 106.05m

← 150mm φ →