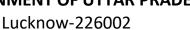


GROUND WATER DEPARTMENT

GOVERNMENT OF UTTAR PRADESH





GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 06/07/2023 2.Village: Madhuban

3.Location: Pond 4. Block: Balha

5.District: Bahraich **6.Latitude & Longitude**: 27.9363 & 81.5162.

7.Drilling depth: 330m bgl 8.Logging depth: 310 m bgl

9.Logging Company: UP Ground Water Department 10.Bore hole drilled by: R R Enterprises.

11.Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N).

12.(i)Resistivity of Mud (Rm): 12.60 ohm-m. (ii)Resistivity of fresh water(Rf): 12.30 ohm-m.

13.On the basis of interpretation of recorded log data in open hole detail report is made is as follows:-

(a) Acquifer: The depth zones with high resistivity and relatively low Natural Gamma radioactivity values are referred as Aquifer Zones.

(b) Clay: The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones.

| Based on the downhole Geophysical Parameters following information(Granular zones) deciphered:- | | | | | |
|-------------------------------------------------------------------------------------------------|------------------------|----------------------|---------------------|----------------------------|---------------------------------------|
| S.No | Depth Range (m bgl) | Thickness (meter) | Lithology | Acquifer Recommendation | Remark (Quality of acquifer water) |
| 1. | 0-10 | 10 | Top Soil | | Good |
| 2. | 10-31 | 21 | Medium to fine sand | Recommended | Good |
| 3. | 31-38 | 7 | Clayey sand | | Good |
| 4. | 38-62 | 24 | Medium to fine sand | Recommended | Good |
| 5. | 62-71 | 9 | Clay | | Good |
| 6. | 71-111 | 40 | Medium to fine sand | Recommended | Good |
| 7. | 111-121 | 10 | Clayey sand | | Good |
| 8. | 121-131 | 10 | Fine sand | Recommended | Good |
| 9. | 131-155 | 24 | Medium to fine sand | Recommended | Good |
| 10. | 155-168 | 13 | Clay | | Good |
| 11. | 168-183 | 15 | Fine sand | Recommended | Good |
| 12. | 183-213 | 30 | Medium to fine sand | Recommended | Good |
| 13. | 213-220 | 7 | Clay | | Good |
| 14. | 220-253 | 33 | Medium to fine sand | Recommended | Good |
| 15. | 253-258 | 5 | Clay | | Good |
| 16. | 258-263 | 5 | Fine sand | Recommended | Good |
| 17. | 263-270 | 7 | Clay | | Good |
| 18. | 270-278 | 8 | Fine sand | Recommended | Good |
| 19. | 278-282 | 4 | Clayey sand | | Good |
| 20. | 282-309 | 27 | Medium to fine sand | Recommended | Good |

14.Note:-

(i) All Zones are intermixed with kankar.

(ii) Zone 1,2,3,4 & 5 is intermixed with thin layers of kankar.

15. Quality of the formation water is good up to Logging depth. Log Attached.

Kajeer Kuma

(Geophysicist)



NANPARA **MADUBAN**

PERMANENT DATUM
DRI MEASURED FROM
LOG MEASURED FROM ELEV. PERM. DATUM COMPANY LUCKNOW - GWD WELL MADUBAN WELL EXTNANPARA BAHRAICH FIELD COUNTY IND STATE UP COUNTRY IND API NO. 12345678199999999 WELL COMPANY DISPLAY7_JL63w LON GPS UTN 81.5162 COUNTY FIELD WELL EXT LAT GPS UTN27.9369 UNIQ ID COUNTRY STATE API NO. LOCATION : POND មិ មិ មិ z : 049-005-42968 .. F : NANPARA : IND : 12345678199999999 .. IND : LUCKNOW -: MADUBAN BAHRAICH SECTION: 5 Elevations:
KB
DF
GL 4227 GWD 4227 TOWNSHIP: 53N RANGE: 73W 3 3 3

CASING -- DRILLER
CASING -- LOGGER
CASING O.D.
CASING TYPE
FLUID TYPE
FLUID DENSITY
FLUID VISCOSITY
FLUID PH

SURFACE

G/CC

DEPTH DRILLER
DEPTH LOGGER
FIRST READING

960

TIME

Other Services:

BIT SIZE

8.75 87

B Z Z B Z Z Z Z Z

LAST READING

RECORDED BY
WITNESSED BY
REMARKS 1
REMARKS 2
REMARKS 3

NENE, 743'FNL,

661'FEL

PAUL GARGER DAVID DORMIER

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

RM @ MEAS TEMP
RMF @ MEAS TEMP
RMC @ MEAS TEMP
CIRC STOPPED

FLOW LINE .179 @ 68. @ C @ C 0830

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MUD SOURCE

RIG NUMBER

