

GROUND WATER DEPARTMENT

GOVERNMENT OF UTTAR PRADESH



Lucknow-226002

GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 17/07/2023 2.Village: Zordih

3.Location: Puliya 4. Block: Ikauna

5.District: Shrawasti **6.Latitude & Longitude**: 27.4308 & 82.0555.

7.Drilling depth: 165m bgl **8.Logging depth**:162 m bgl

9.Logging Company: UP Ground Water Department 10.Bore hole drilled by: Vishwanath Project Ltd.

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

12.(i)Resistivity of Mud (Rm): 13.80 ohm-m. (ii)Resistivity of fresh water(Rf): 13.80 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.	10-37	27	Medium to fine sand		Good						
2.	50-93	43	Medium to fine sand	Recommended	Good						
3.	112-118	6	Medium to fine sand	Recommended	Good						
4.	124-127	3	Medium to fine sand	Recommended	Good						
5.	138-145	7	Medium to fine sand	Recommended	Good						

14.Note:-

- (i) All Zones are intermixed with kankar.
- (ii) Zone 1,2 & 3 is intermixed with thin layers of kankar.
- **15.**Quality of the formation water is good up to Logging depth.

16.Log Attached.

Rajeev Kumar Geophysicist National Hydrology Project Ground Water Department Lko. U.P.



ZORDIH **IKAUNA**

PERMANENT DATUM
DRI MEASURED FROM
LOG MEASURED FROM ELEV. PERM. DATUM COMPANY LUCKNOW - GWD WELL ZORDIH WELL EXTIKAUNA SHRAWASTI FIELD COUNTY IND STATE UΡ COUNTRY IND API NO. 12345678199999999 WELL COMPANY DISPLAY7_JL63w LON GPS UTN 82.0555 COUNTY FIELD WELL EXT LAT GPS UTN27.4308 UNIQ ID COUNTRY STATE API NO. LOCATION មិ មិ មិ z .. F : 049-005-42968 : IKAUNA : 12345678199999999 .. IND .. IND : LUCKNOW -: SHRAWASTI ZORDIH SECTION: 5 Elevations:
KB
DF
GL 4227 GWD 4227 TOWNSHIP: 53N RANGE: 73W 3 3 3 Other Services:

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

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

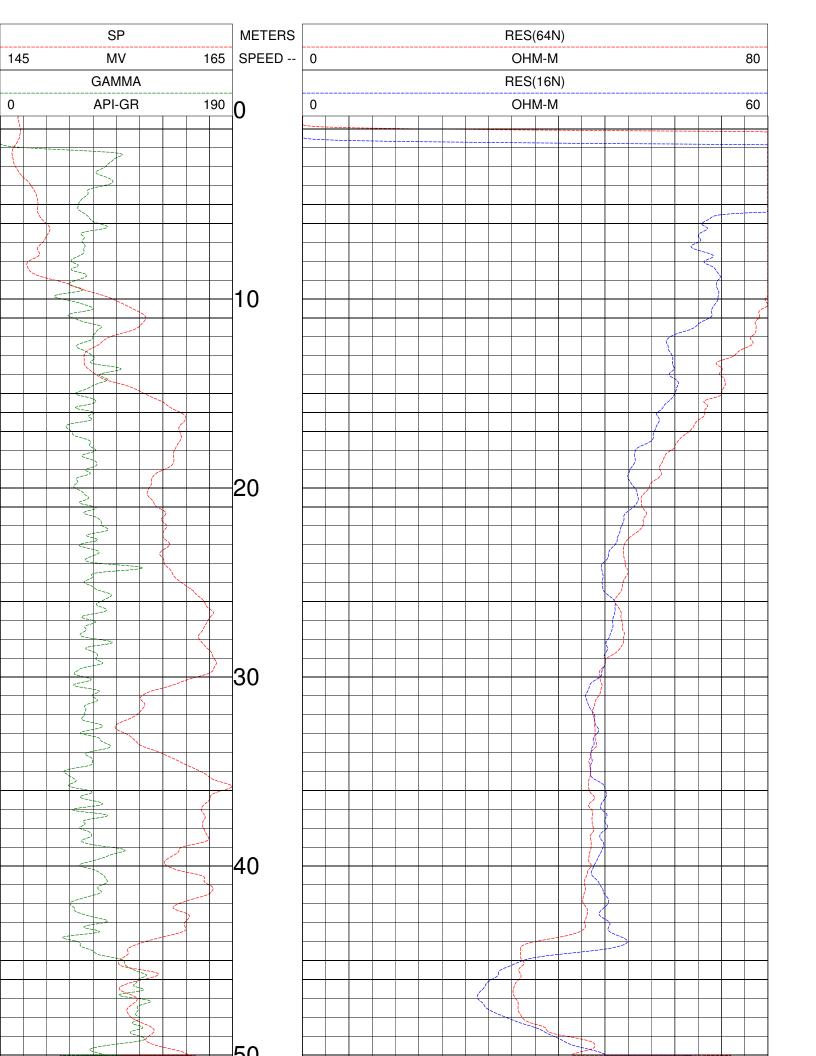
FLOW LINE .179 @ 68. @ C @ C 0830

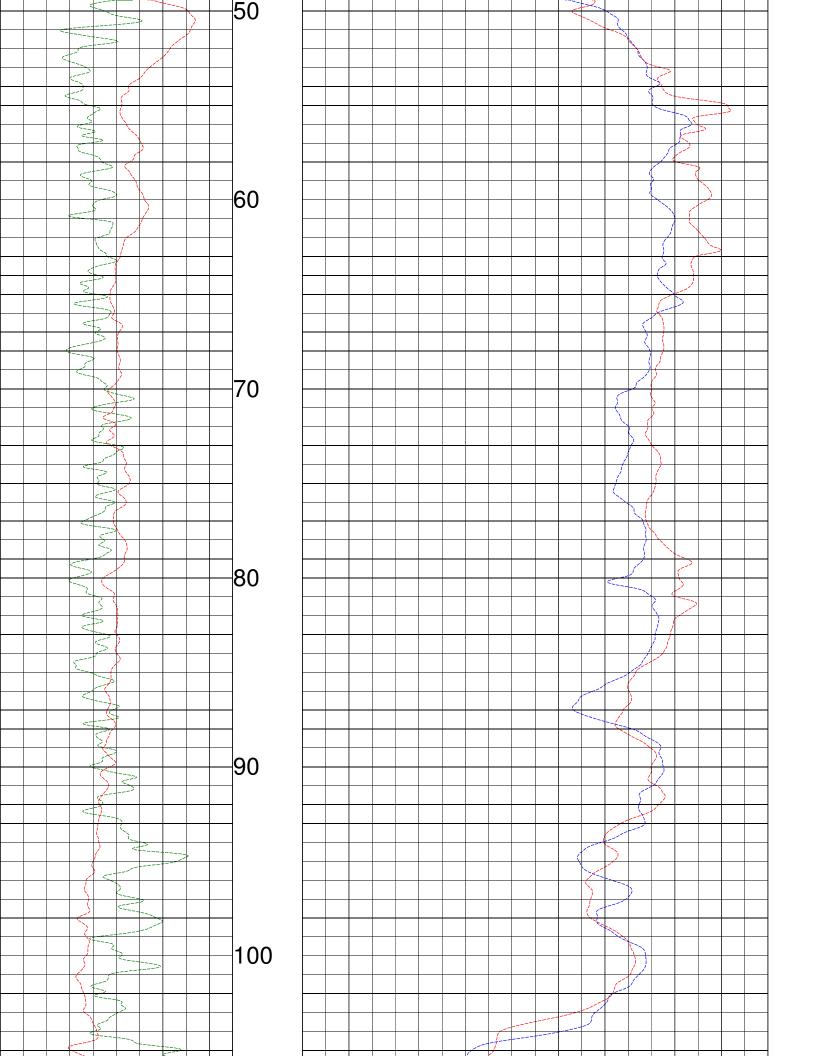
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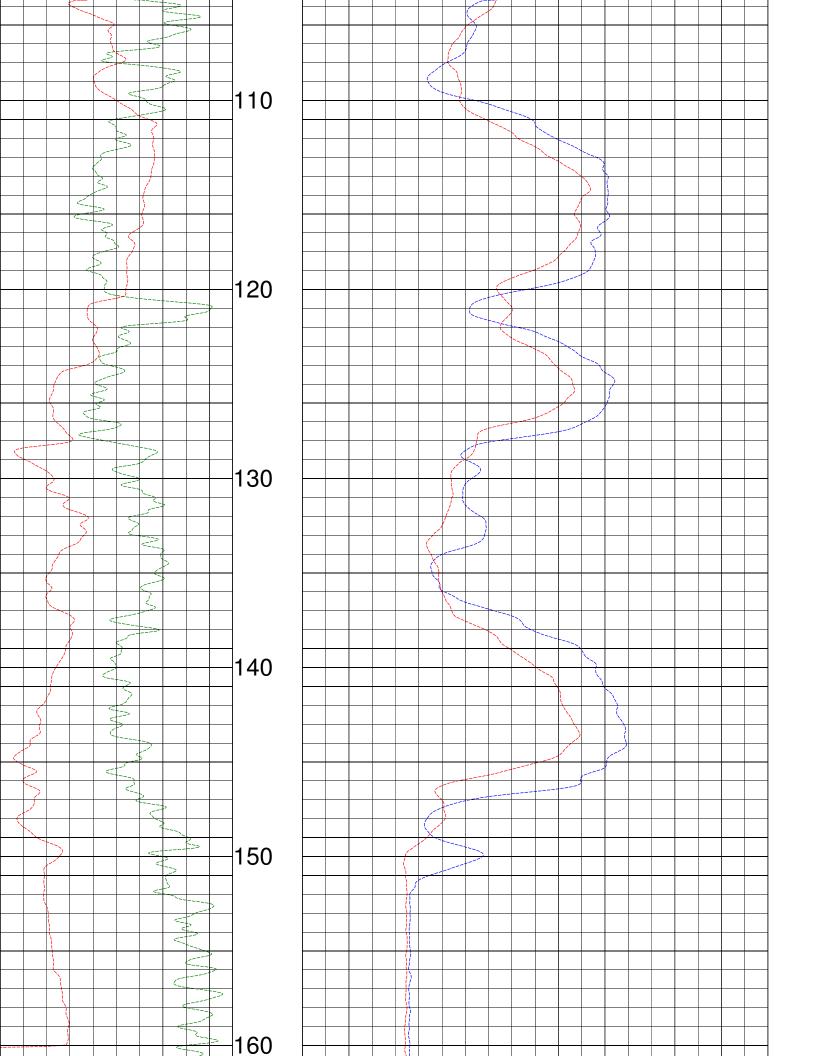
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MUD SOURCE

RIG NUMBER







		\	160																	
0	API-GR	190		0 OHM-M										60						
GAMMA					RES(16N)															
145	MV	165	SPEED	0							0	HM-N	Л							80
	SP		METERS								RE	S(64	N)							