



**GROUND WATER DEPARTMENT**  
**GOVERNMENT OF UTTAR PRADESH**  
Lucknow-226002



***GEOPHYSICAL BOREHOLE-LOGGING REPORT***

- 1.Date of Logging:** 28/07/2023  
**2.Village:** Jamunaha Baba Ganj Bahraich  
**3.Location:** Temple  
**4. Block:** Nawab Ganj  
**5.District:** Gonda  
**6.Latitude & Longitude:** 27.9751 & 81.550.  
**7.Drilling depth:** 220m bgl  
**8.Logging depth:** 220 m bgl  
**9.Logging Company:** UP Ground Water Department  
**10.Bore hole drilled by:** PNC.  
**11.Recorded Geophysical log data:** SP,Natural gamma & Resistivity (16 N & 64 N).  
**12.(i)Resistivity of Mud (Rm):** 19.20 ohm-m. **(ii)Resistivity of fresh water(Rf):** 24.60 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 aquifer water)
1.	0-12	11	Top soil		Good
2.	11-23	12	Medium to coarser sand	Recommended	Good
3.	23-32	9	Sandy Clay		Good
4.	32-66	34	Medium to fine sand	Recommended	Good
5.	66-84	18	Clay		Good
6.	84-110	26	Medium to fine sand	Recommended	Good
7.	110-116	6	Clayey Sand		Good
8.	116-158	42	Medium to fine sand	Recommended	Good
9.	158-164	6	Clay		Good
10.	164-167	3	Fine sand	Recommended	Good
11.	167-172	5	Clay		Good
12.	172-203	31	Medium to fine sand	Recommended	Good
13.	203-218	15	Clay		Good
14.	218-220	2	Medium to fine sand	Recommended	Good

**14.Note:-**

(i) All Zones are intermixed with kankar.

(ii) Zone 1,2,3,6 & 13 is intermixed with thin layers of kankar.

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

16.Log Attached.

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



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**JAMUNAHHA BABA GANJ  
NAWAB GANJ**

COMPANY LUCKNOW - GWD  
WELL JAMUNAHHA BABA GANJ  
WELL EXT NAWAB GANJ  
FIELD BAHARAICH  
COUNTRY IND  
STATE BP  
COUNTRY IND  
API NO. 12345678199999999

COMPANY : LUCKNOW - GWD  
WELL : JAMUNAHHA BABA GANJ  
WELL EXT : NAWAB GANJ  
FIELD : BAHARAICH  
COUNTRY : IND  
STATE : UP  
COUNTRY : IND  
API NO. : 12345678199999999  
UNIQ ID : 049-005-42968

SECTION: 5 TOWNSHIP: 53N RANGE: 73W  
LOCATION : TEMPLE  
LAT GPS UTM 27.9751  
LON GPS UTM 81.5500  
DISPLAY7\_JL63w

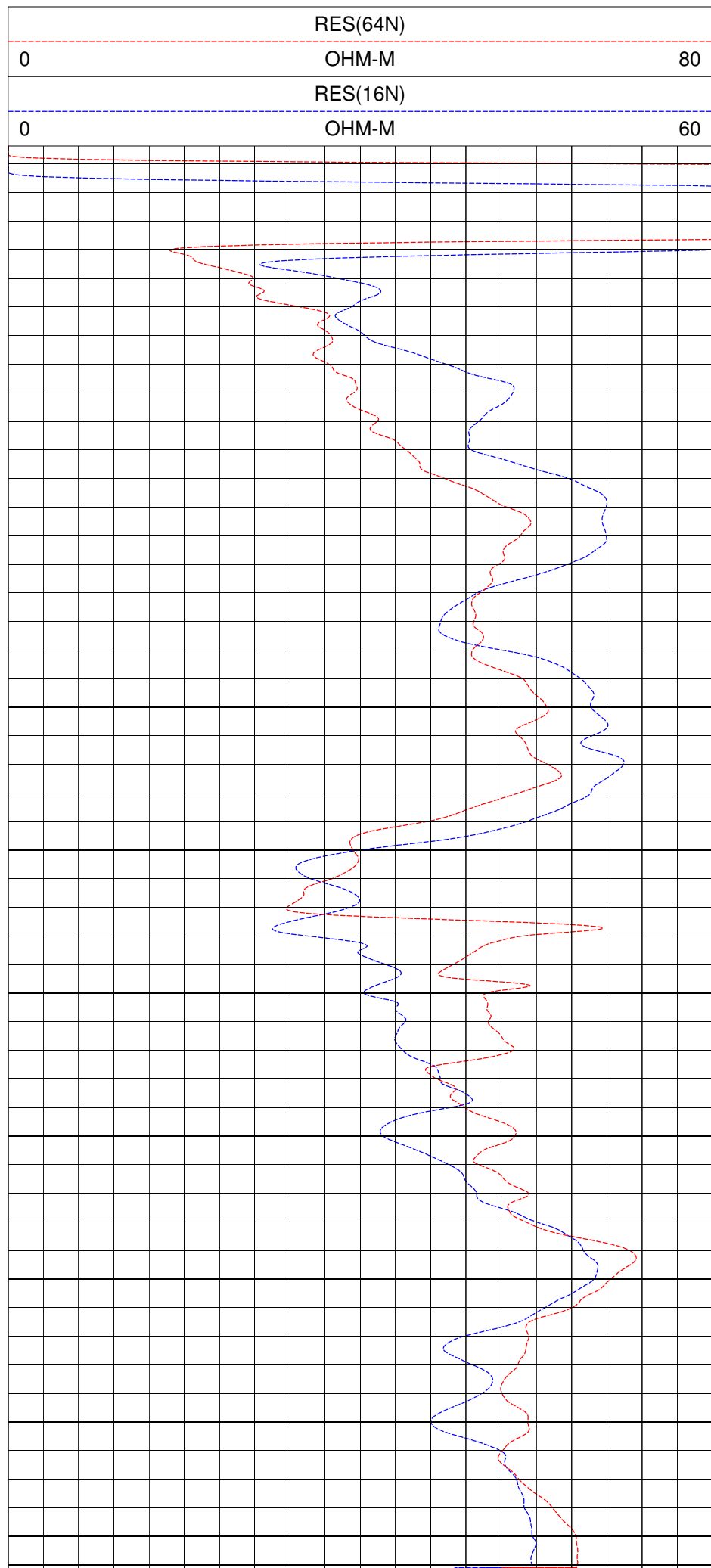
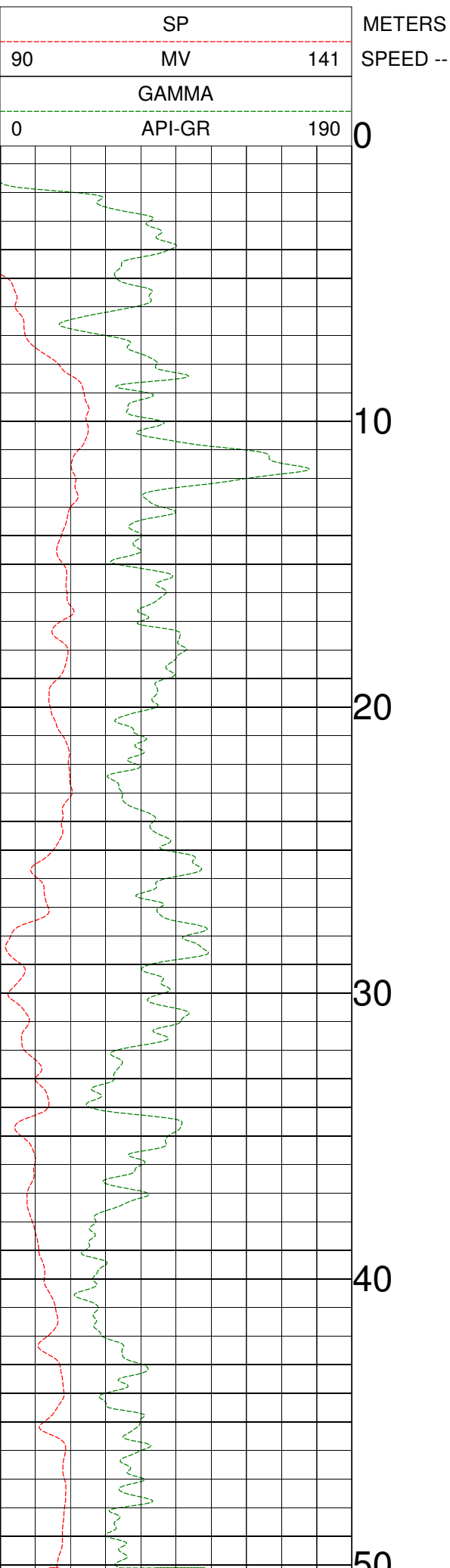
PERMANENT DATUM  
DRL MEASURED FROM  
LOG MEASURED FROM  
ELEV. PERM. DATUM

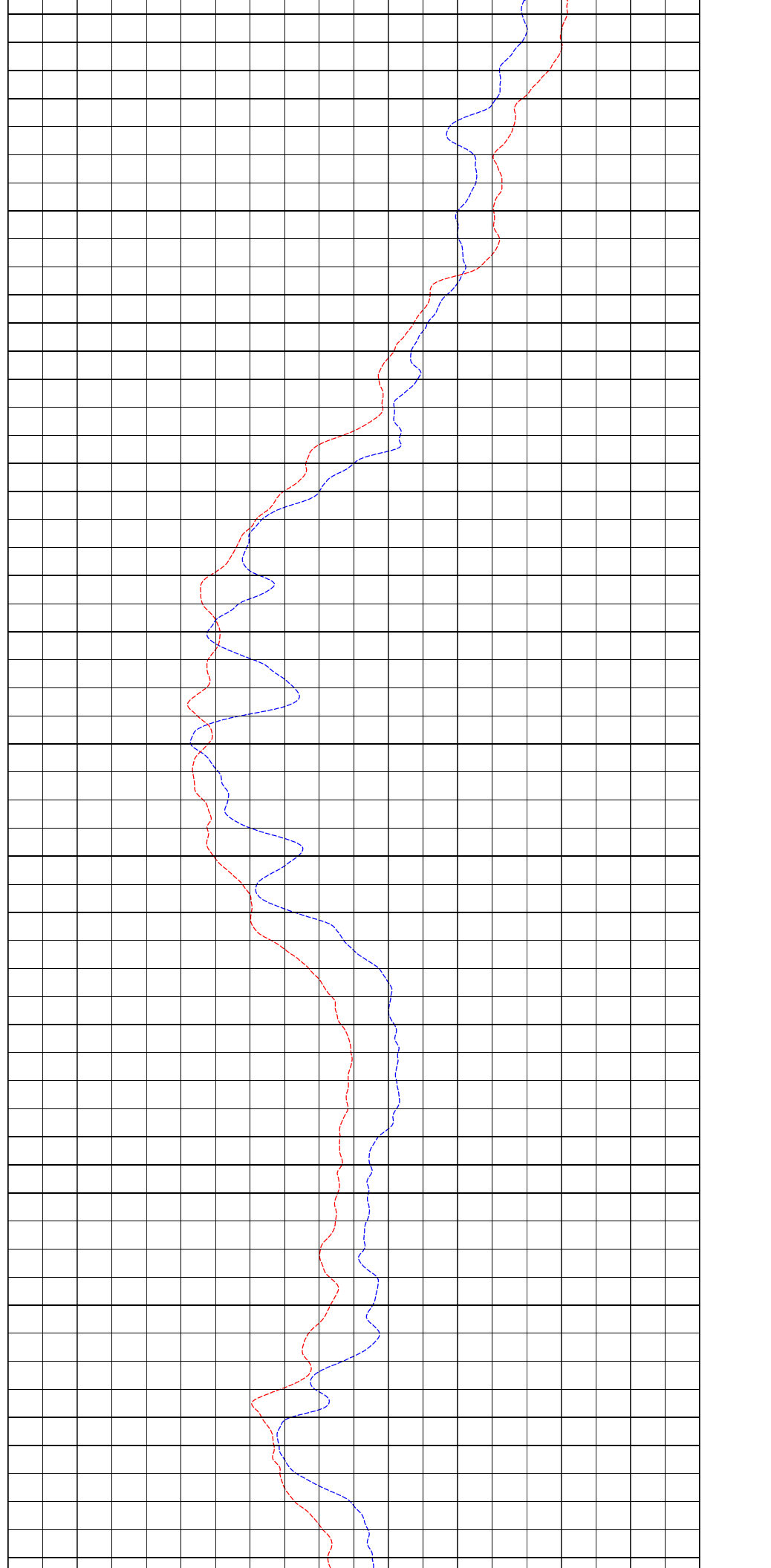
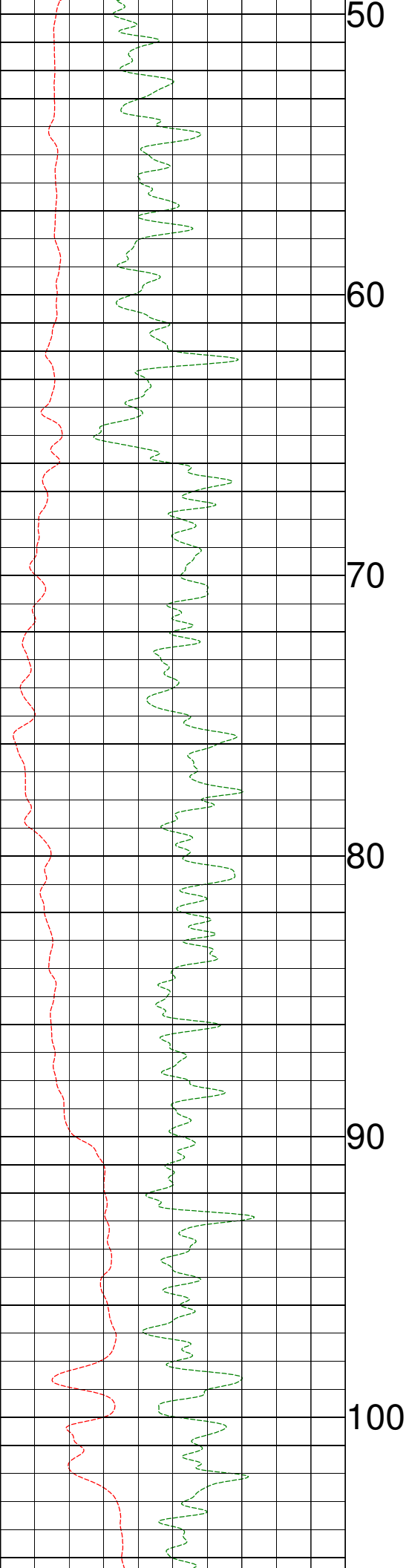
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GL	KB	M
GL	DF	M
M	GL	M
	4227	

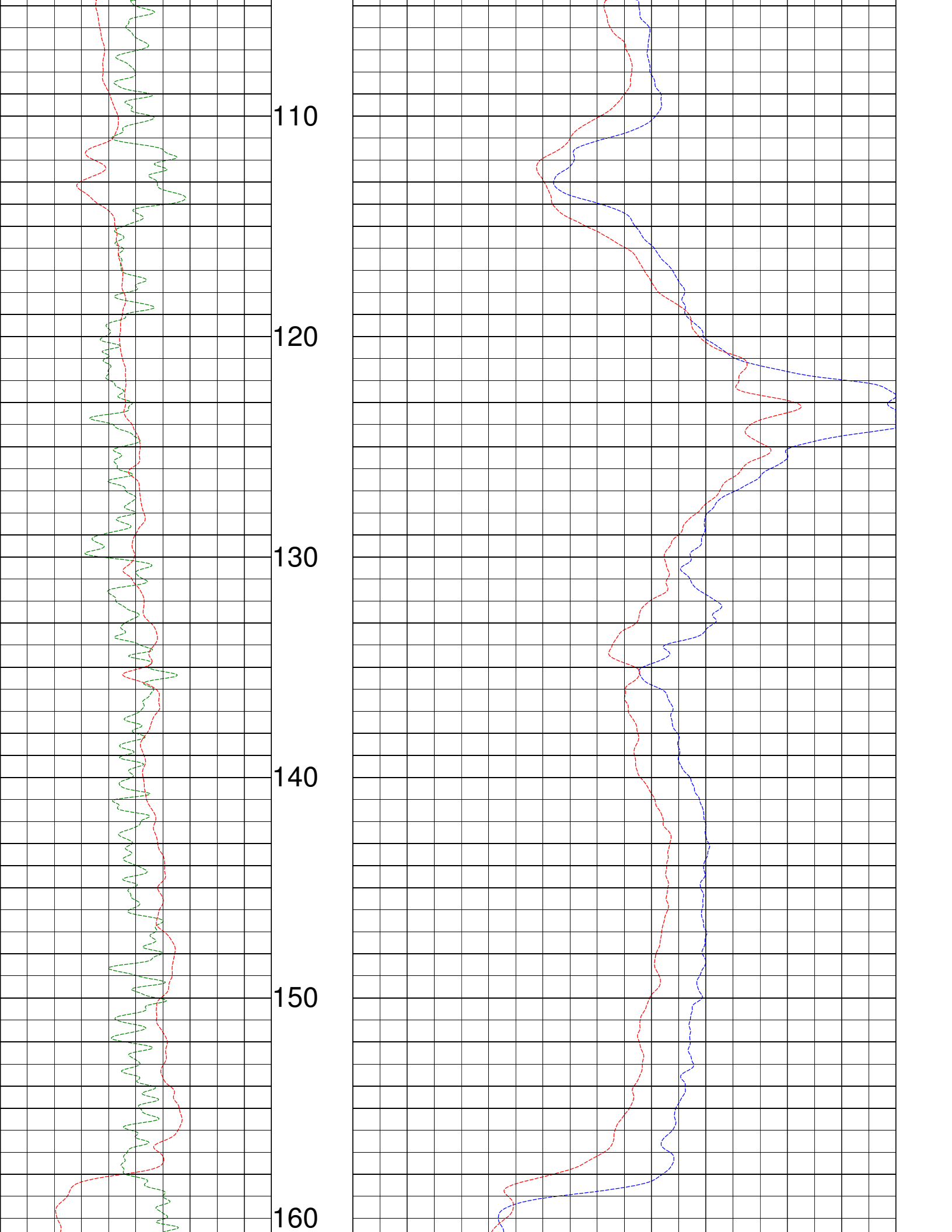
DATE	TIME	DEPTH DRILLER	DEPTH LOGGER	FIRST READING	LAST READING	BIT SIZE	CASING -- DRILLER	CASING -- LOGGER	CASING O.D.	CASING TYPE	FLUID TYPE	FLUID DENSITY	FLUID VISCOSITY	FLUID PH	MUD SOURCE	RM @ MEAS TEMP	RMC @ MEAS TEMP	CIRC STOPPED	RIG NUMBER
	960					8.75	87			SURFACE	MUD		G/CC		FLOW LINE	.179 @ 68.5 C	@ C	@ C	0830

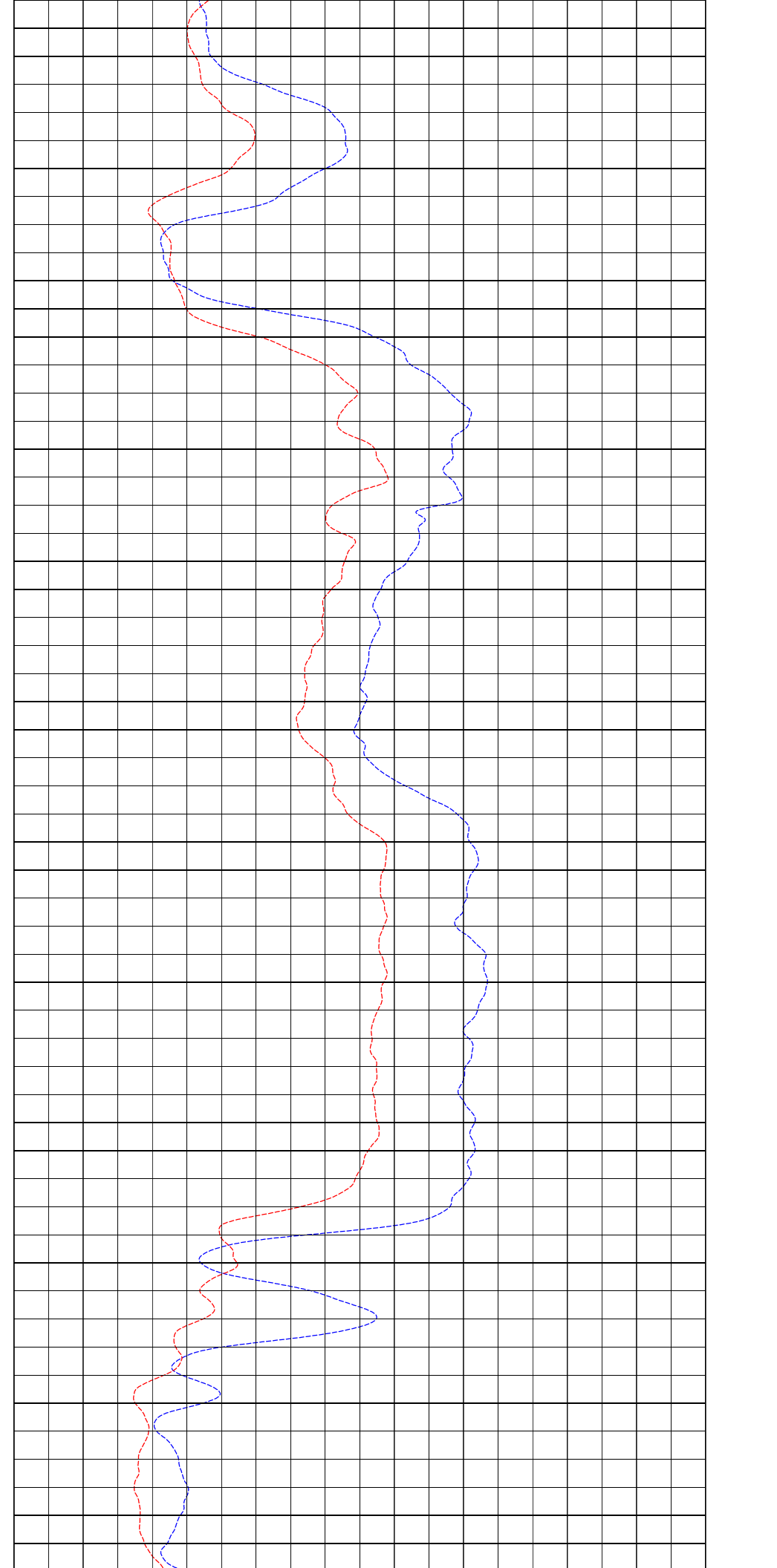
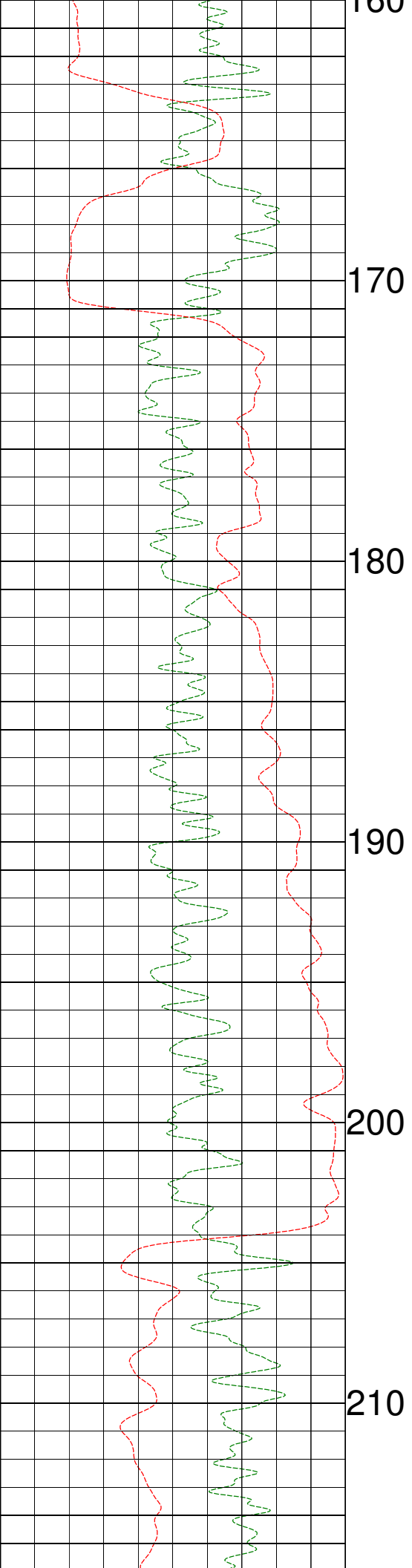
RECORDED BY RAJEEV KUMAR  
WITNESSED BY GEOPHYSICIST  
REMARKS 1  
REMARKS 2 NENE, 743'FNL, 661'FEEL  
REMARKS 3

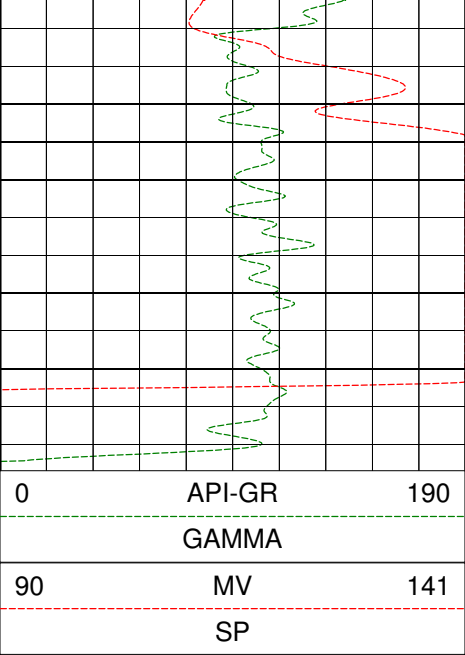
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SPEED --  
METERS

