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GOVERNMENT OF INDIA  
CENTRAL GROUND WATER BOARD  
MINISTRY OF WATER RESOURCES

BASIC DATA REPORTS OF THE EXPLORATORY WELL AT LAMLAI,  
DISTRICT IMPHAL, MANIPUR

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NORTH EASTERN REGION  
GUWAHATI  
FEBRUARY, 1988

The results of the investigation  
done by the Central Ground Water Board  
in the State of Manipur  
and the adjoining areas of Central  
Gangotri and Kumaon

CENTRAL GROUND WATER BOARD  
NORTH EASTERN REGION

BASIC DATA REPORT

GEOLOGY & HYDROGEOLOGY

: Shri A.P.Rai, Asstt.Hydrogeologist.

: Shri A.K.Phukan, STA(HG)

: Shri S.N.Sharma, STA(HG)

: Shri Basudeva Prasad, D.I.C.  
& Party.

Rig DR/VOL/55/72

(Direct Rotary)

DRILLING

:

: Shri A.Pramanik, Sr.Surveyor.

SURVEYING

: LAMLAI, Dist. Imphal,  
Manipur

SITE

94° 03' 50" : 24° 52' 35"

INTRODUCTION

As part programme of ground water exploration and first approximate resource evaluation studies in Imphal basin, Manipur state, Central Ground Water Board drilled an exploratory bore hole at Lamlai district Imphal during FSP 1981-86. The formation encountered were mainly clay and silt belonging to recent age.

LOCATION :- The site is located 16 km. north of Imphal on Imphal Ukhural Road. The bore hole is situated in the play ground of Lamlai High School at the North west corner about 10 m from the college building. The site plan <sup>is</sup> given in the plate No.1. The reduced level of the ground is 791.960 m MSL.

DRILLING HISTORY:

History of drilling operations are summarised below in chronological order.

DATE	DESCRIPTION
1	2
30-3-86	Shifting of Rig to Lamlai from Mayang Imphal.
31-3-86 to 3-4-86	Shifting of store material to the site.

contd..2/-

(2)

1	2
4-4-86	Levelling and Masting of the Rig.
5-4-86	Preparation of Mud pit and mud channel.
6-4-86 to	
7-4-87	Drilling started by 6 <sup>3</sup> / <sub>4</sub> " R.R. bit and completed down to 64.00 m bgl. Further drilling hampered due to break down of Rig Radiator.
8-4-86 to	
9-4-86	Drilling resumes and completed down to 98.30 m bgl.

GEOLOGICAL DATA:FORMATION SAMPLING:

During the drilling, drill cuttings were collected at every three meter or where there were change in sub surface formation. The samples were washed free of drilling mud, dried and stored in cloth and polythene bags.

LITHOLOGICAL LOG:

From a comparative study of drill cuttings obtained during pilot hole drilling and drill time log; final litholog was prepared which is summarised below. and the lithology chart is given in plate No.2.

LITHOLOG OF LALAI EXPLORATORY BORE HOLE

DESCRIPTION	DEPTH RANGE	THICKNESS
Clay, brownish grey	0.00 - 3.40 m.bgl.	3.40 m.
Clay, blackish grey plastic	3.40- 19.00 m bgl	15.60 m.
Clay, dark grey	19.00 -28.20 m bgl	9.20 m.
Clay, light brownish grey	28.20- 46.50 m bgl	18.30 m.
Clay, dark grey plastic	46.50- 64.80 m bgl	18.30 m
Clay grey plastic	64.80 -89.20 m bgl	24.40 m
Clay, light greenish grey	89.20 -95.30 m bgl.	6.10
Clay, brownish grey with modules of shale.	95.30- 98.30 m bgl.	3.00

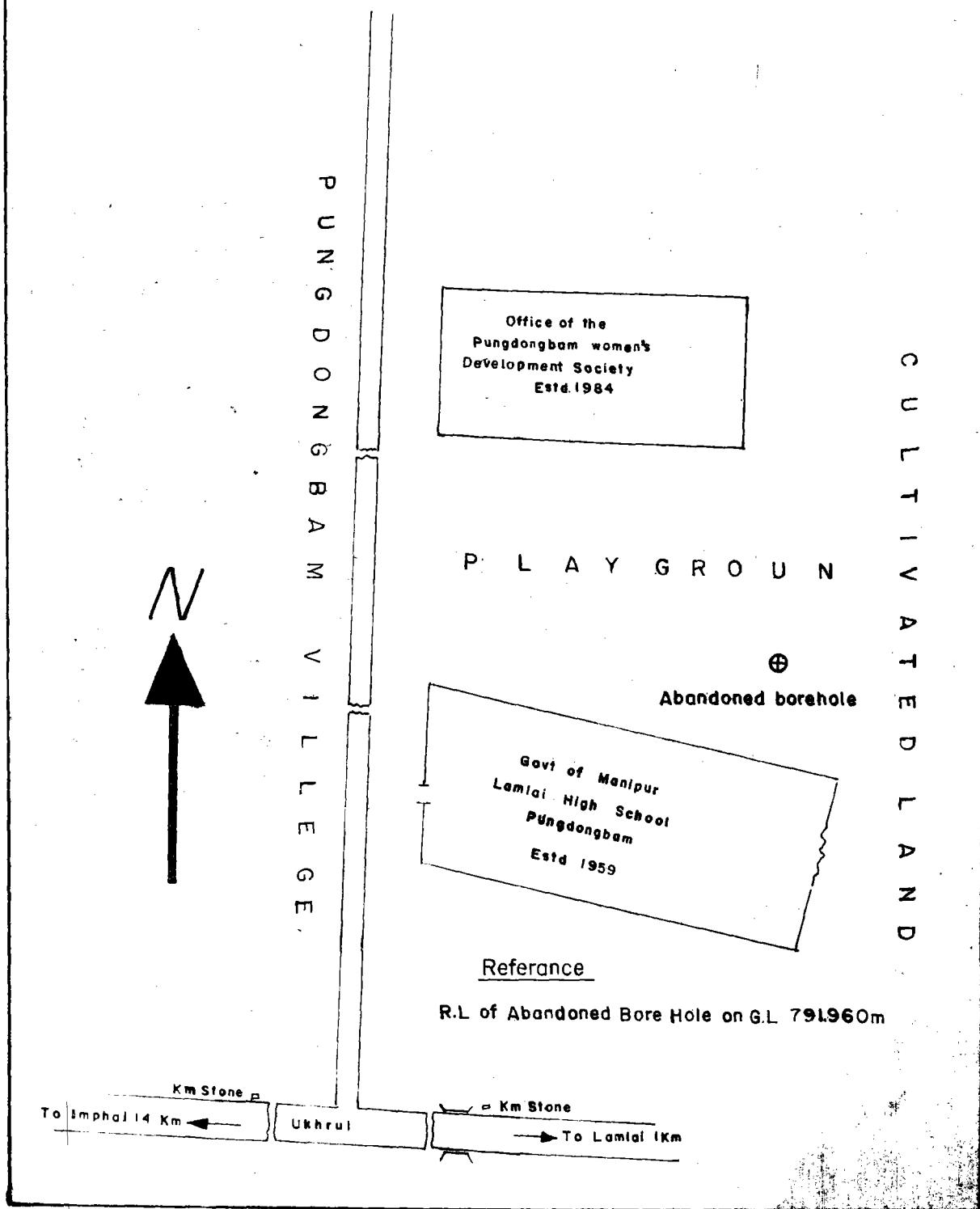
SUMMARY

In view of absence of granular zone in the bore hole drilled at the point, the bore hole was abandoned and rig was shifted to next point.

SITE PLAN OF ABANDONED BOREHOLE AT  
LAMLAI, IMPHAL DISTRICT, MANIPUR

SCALE

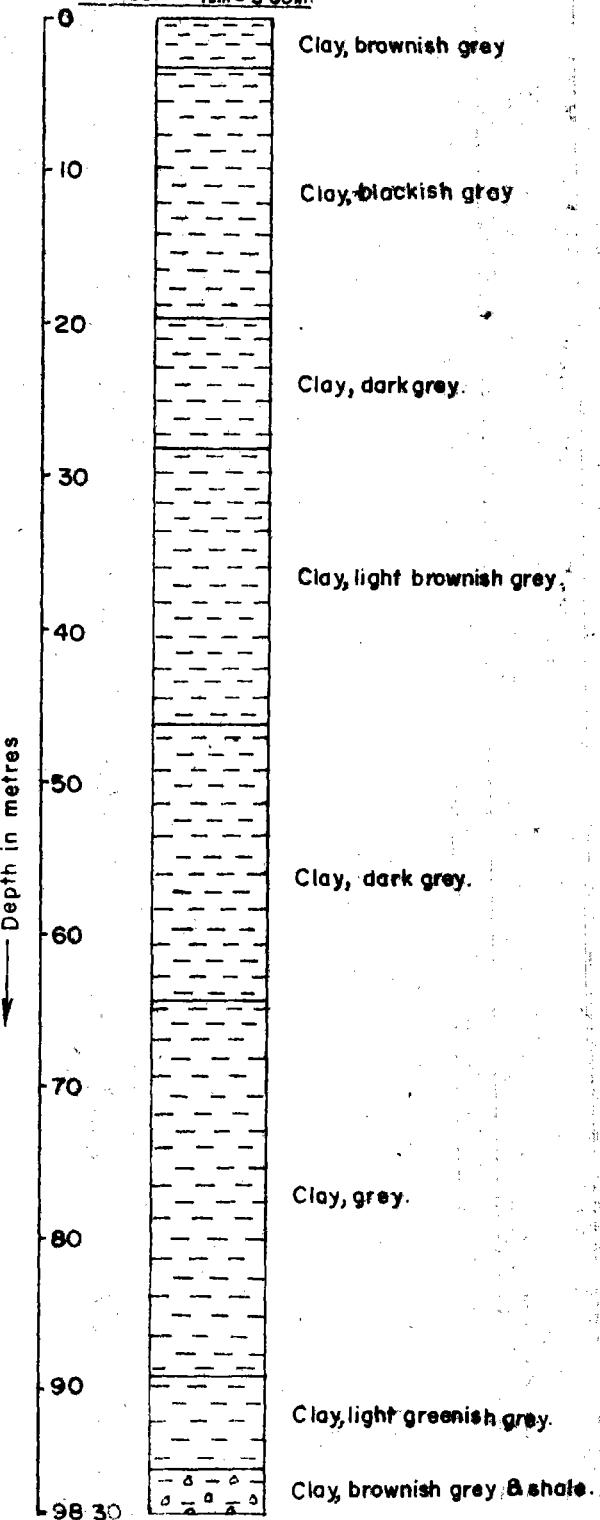
1cm = 10m



**LITHOLOGY CHART OF EXPLORATORY BOREHOLE AT  
LAMLAI, IMPHAL DIST., MANIPUR**

**SCALE**

Vertical :— 1 cm = 500 m.



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