タイ王国石炭・評価調査ファイナル・レポート　（図面）

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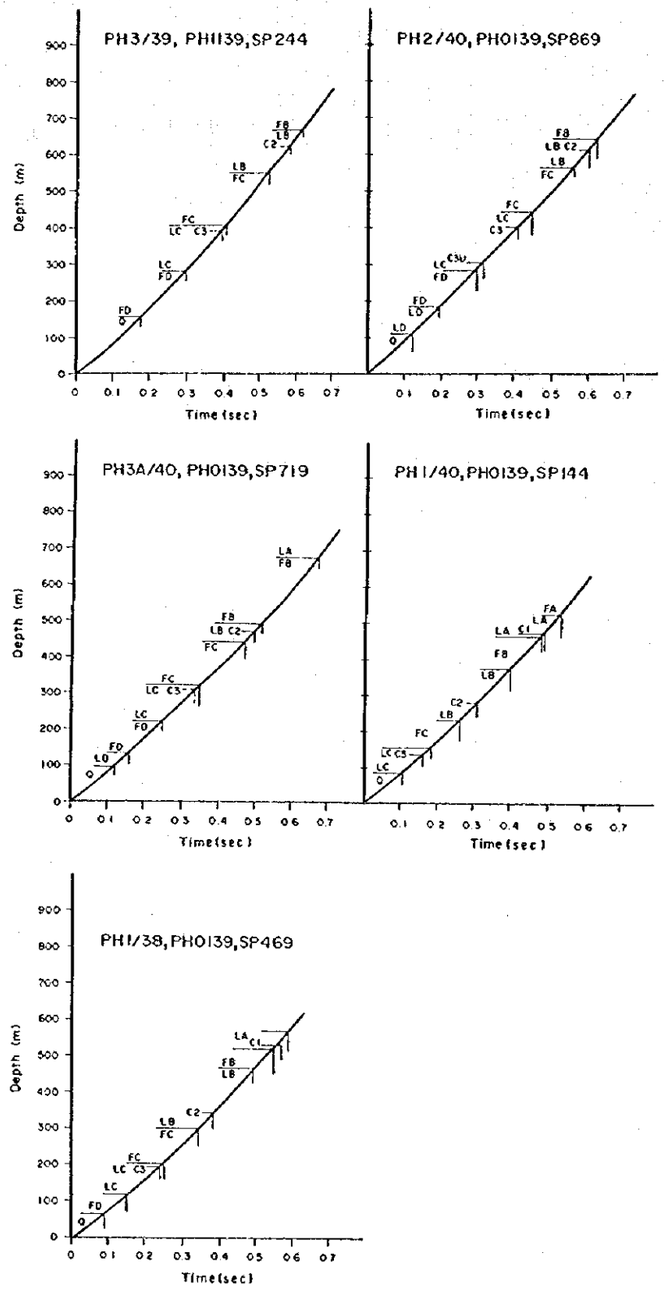
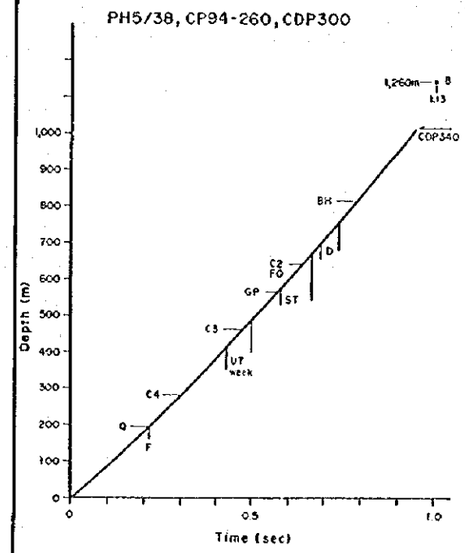
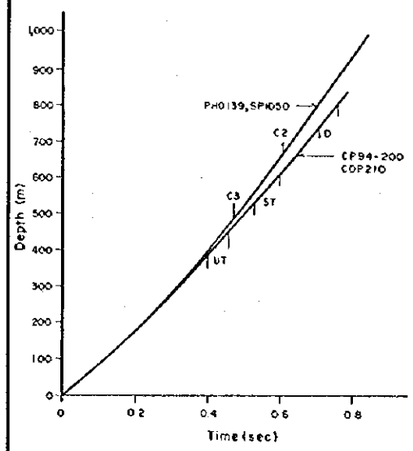
図面　24枚

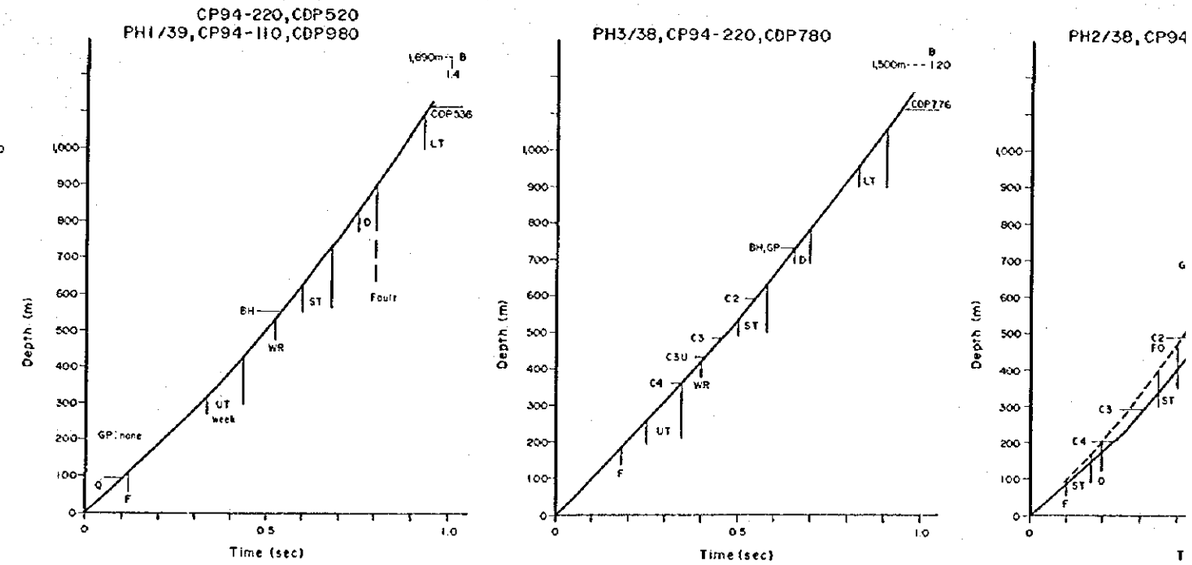


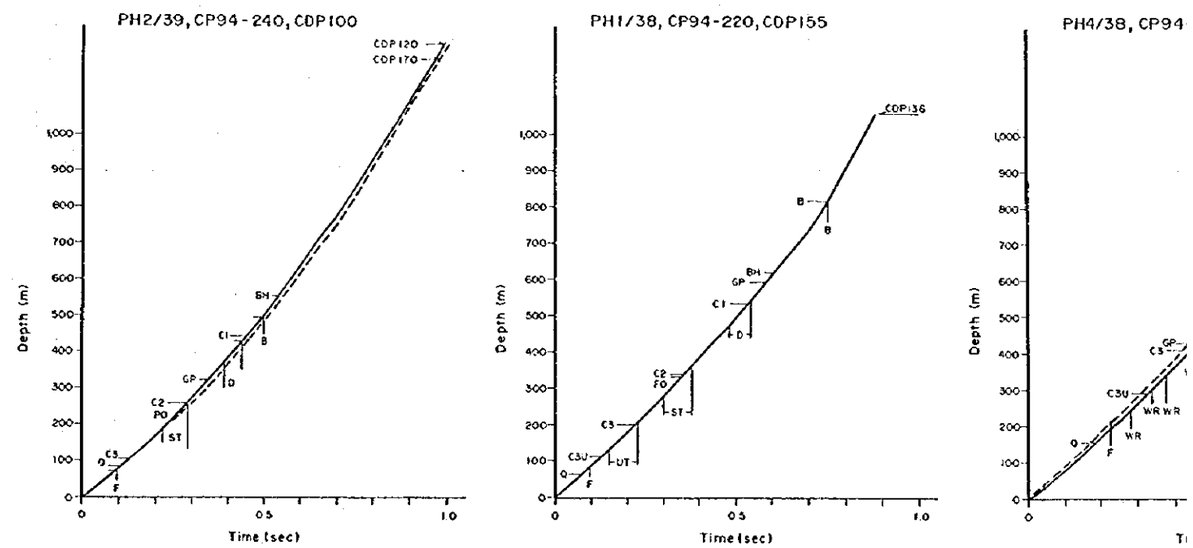
Conversion chart between time(sec)/depth(m) of seismic exploration performed by DMR in 1997. The marker beds identified by borehole are shown above the curve.





Correlation of the marker reflectors of PH0139,SP1050 and CP94-200,CDP210



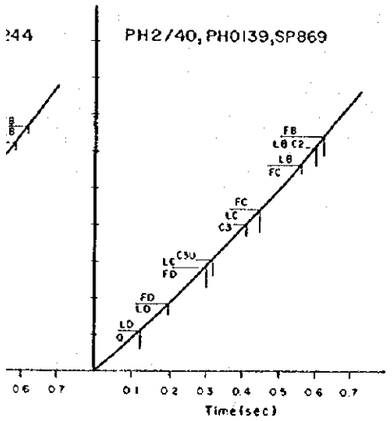


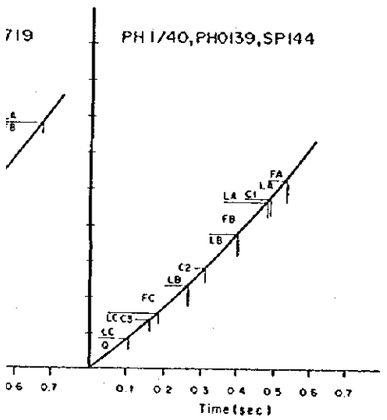
Correlation between the seismic reflectors and the marker beds identified by drilling

Legend

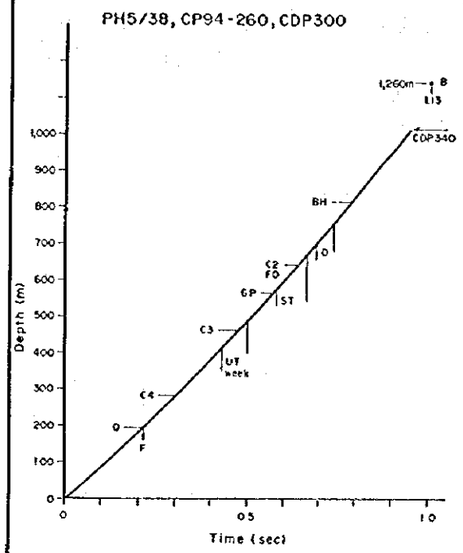
Seismic
- F first reflector
- UT : upper triple reflectors
- ST : strong triple reflectors
- D : double reflectors
- LT : lower triple reflectors
- WR: week reflector
- B : basement

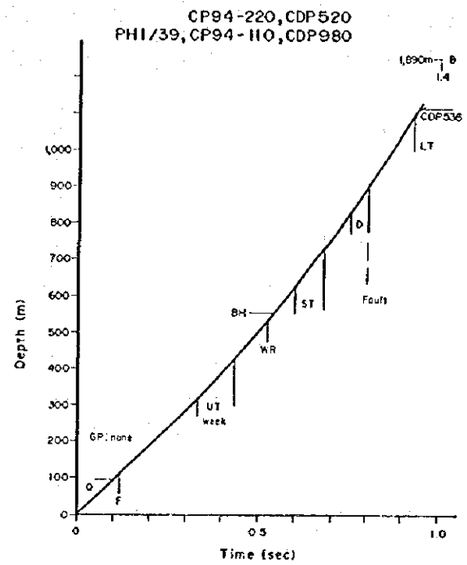
Borehole
- C1~C4 : lignite bed
- FO : fossil bed
- Q : Quaternary base
- GP : geophysical log depth
- BH : borehole depth

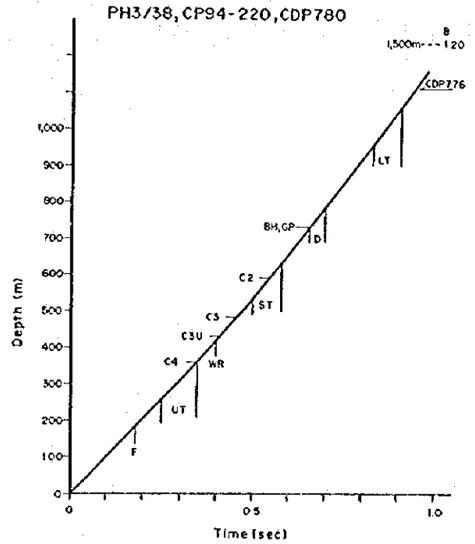


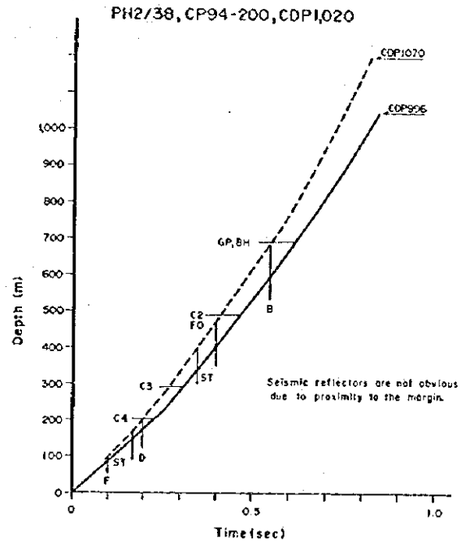


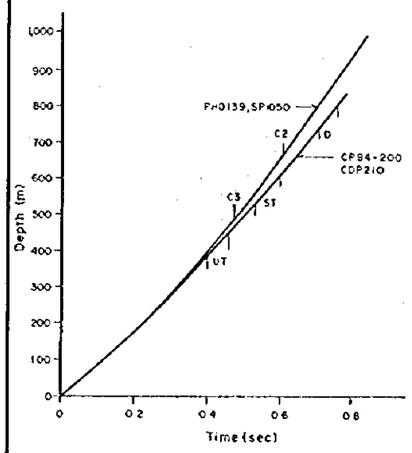
time (sec)/depth (m)
ormed by DMR in 1997.
by borehole are shown



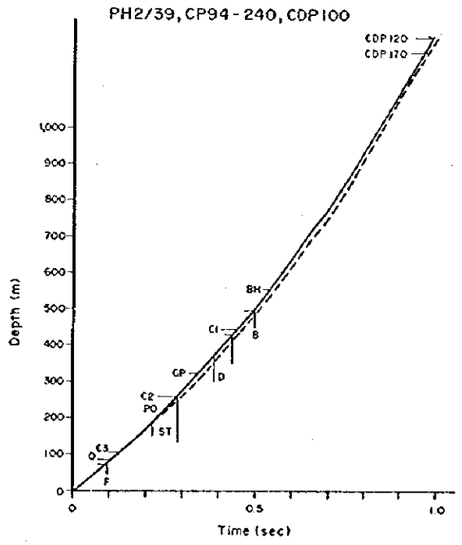


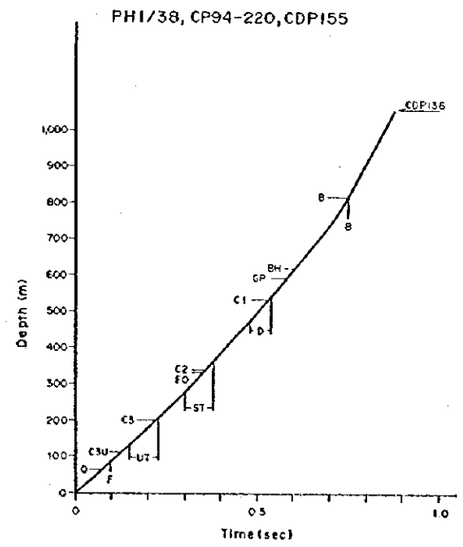


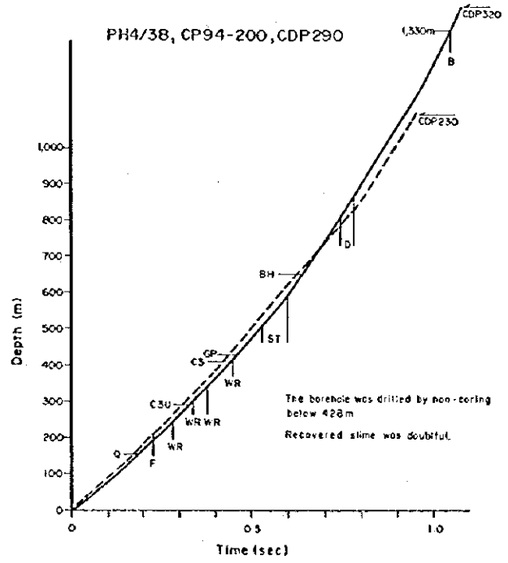




Correlation of the marker reflectors
of PH0139, SP1050 and CP94-200, CDP210







Correlation between the seismic reflectors
and the marker beds identified by drilling

Legend

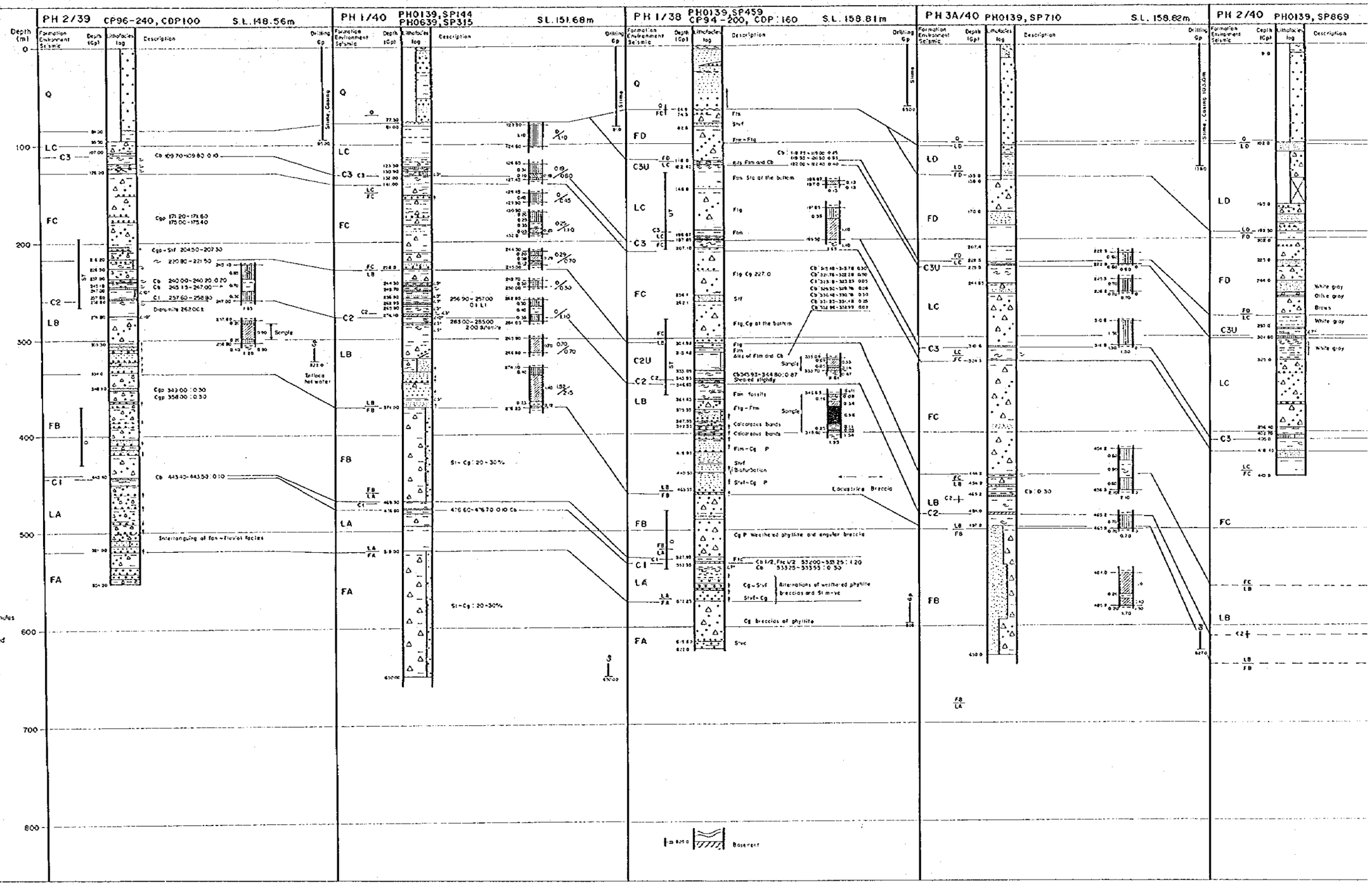
Seismic
- F : first reflector
- UT : upper triple reflectors
- ST : strong triple reflectors
- D : double reflectors
- LT : lower triple reflectors
- WR : week reflector
- B : basement

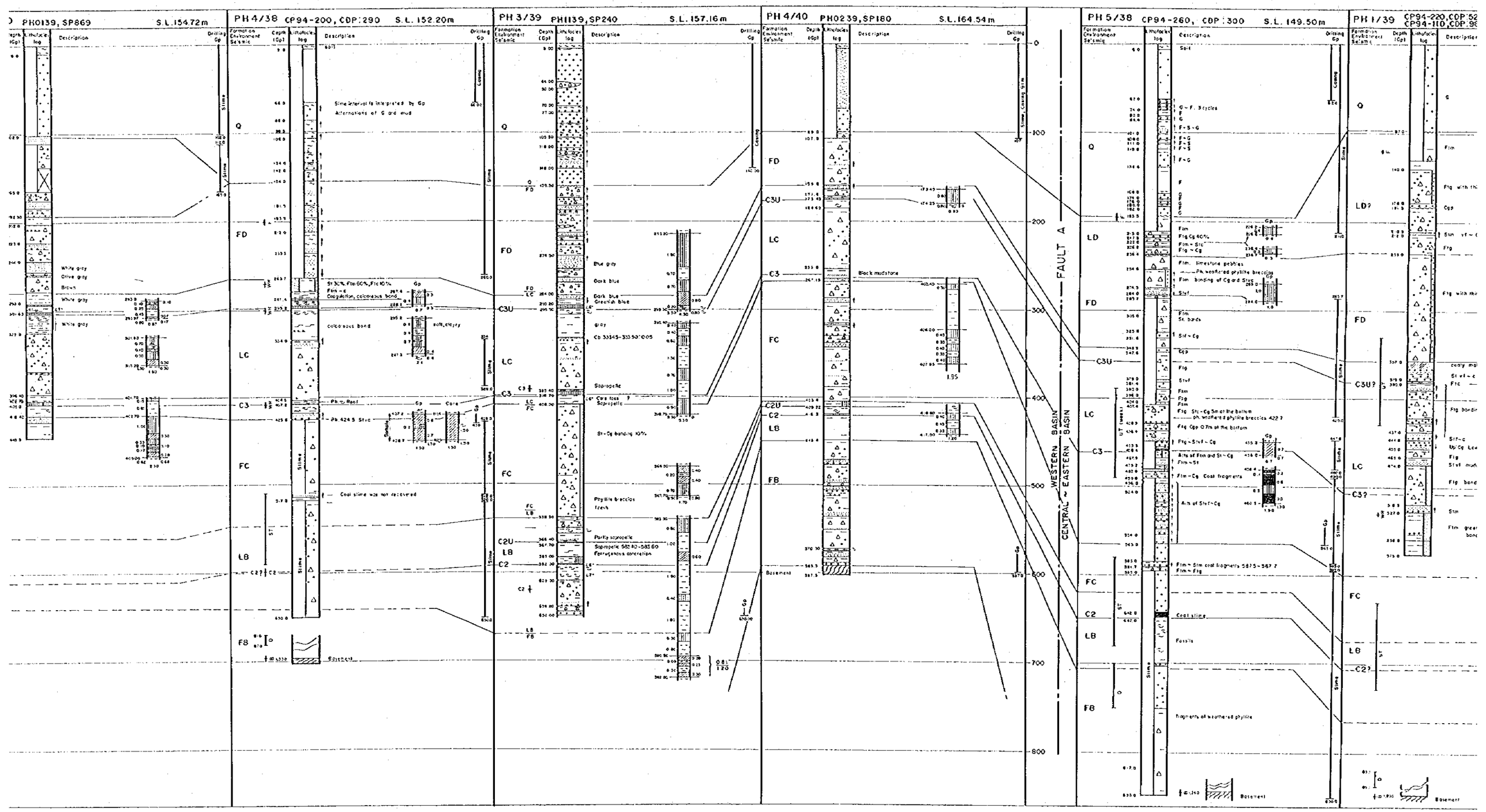
Borehole
- C1~C4 : lignite bed
- FO : fossil bed
- Q : Quaternary base
- GP : geophysical log depth
- BH : borehole depth

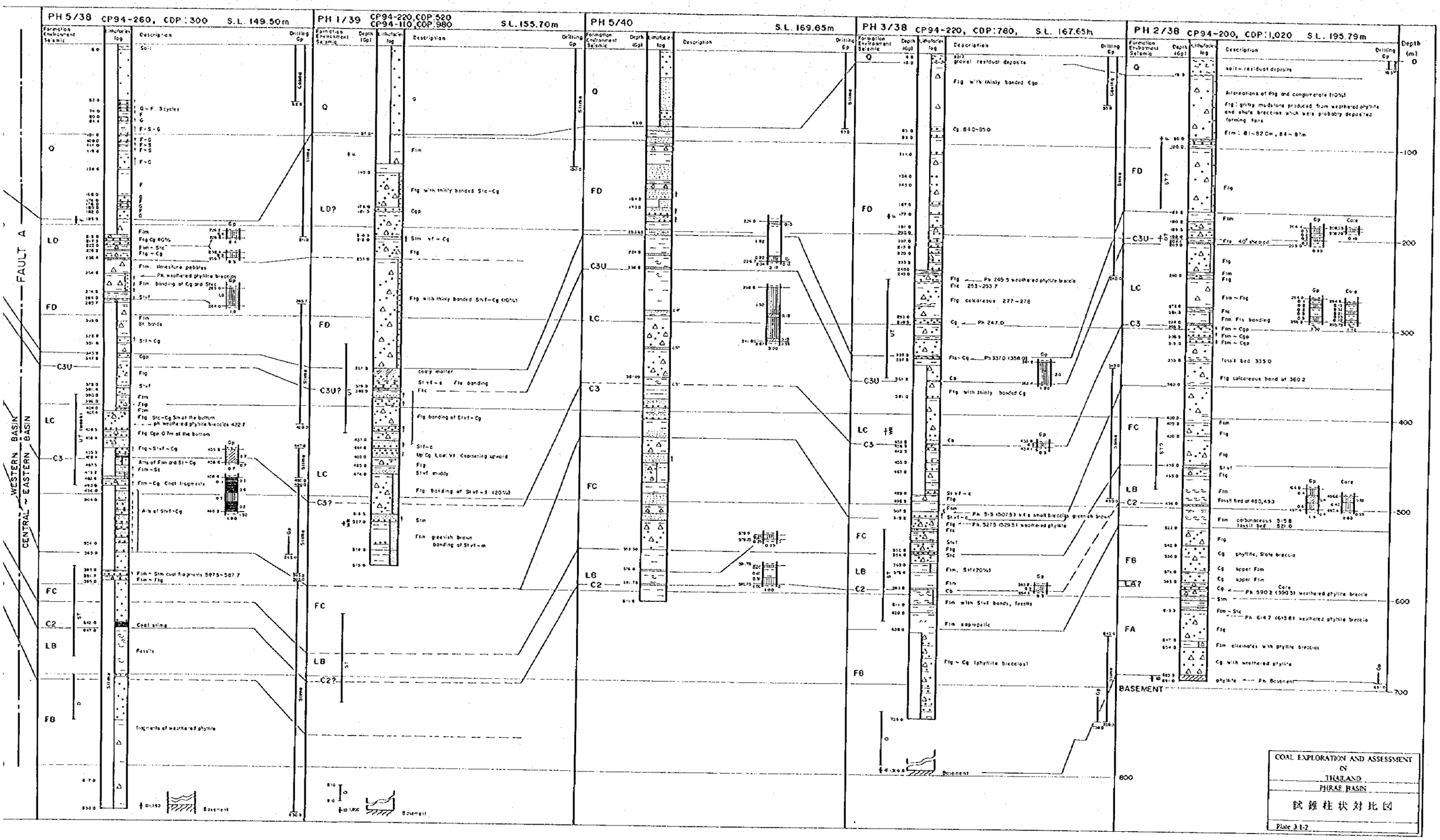
COAL EXPLORATION AND ASSESSMENT
IN
THAILAND
PHRAE BASIN

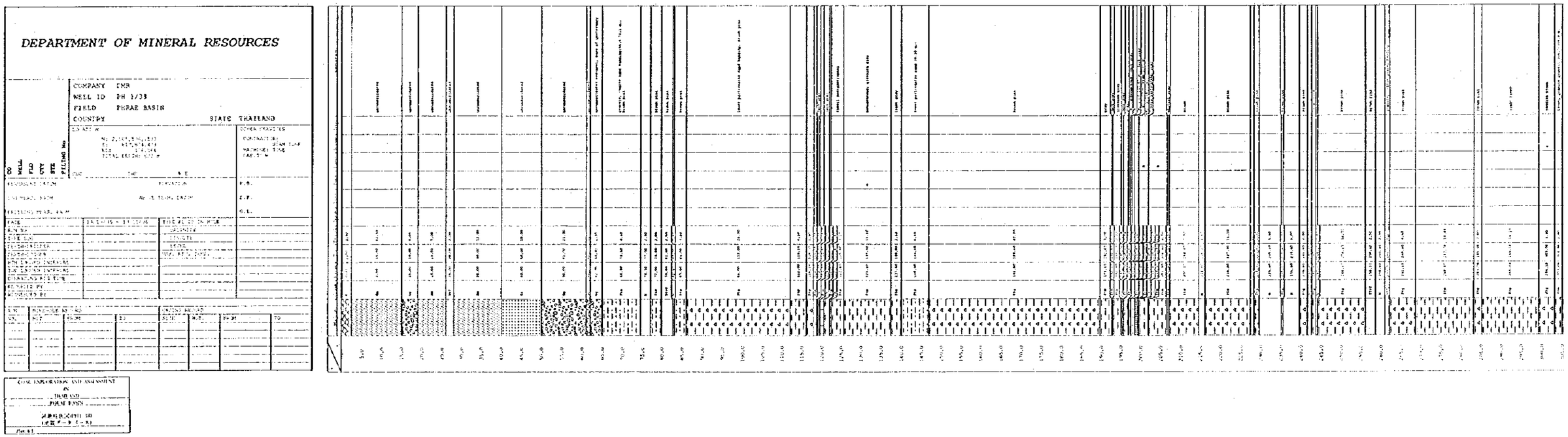
地震探査反射面と鍵層対比図

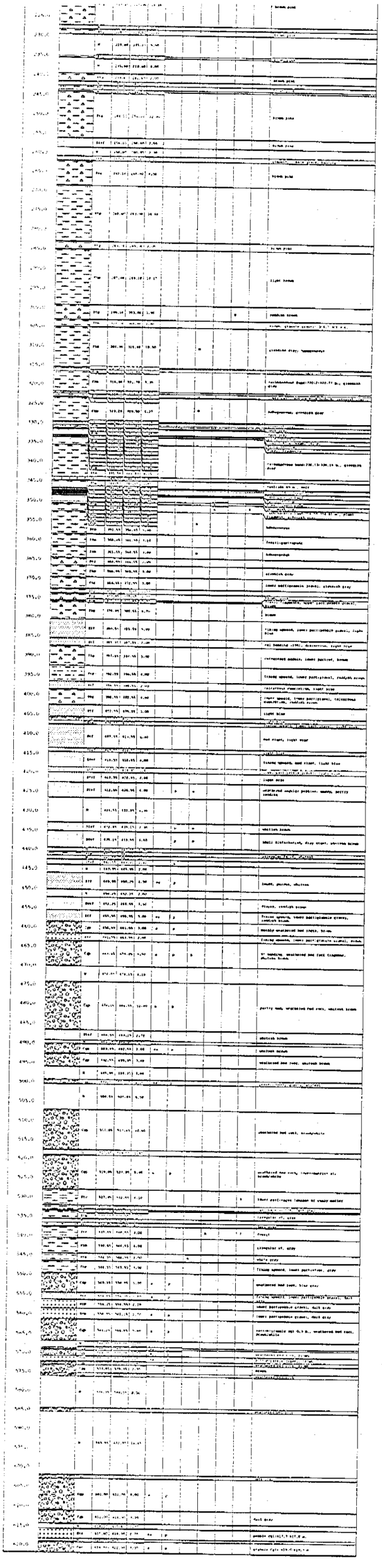
Plate 3.1-1


PH 2/39 CP96-240, CDP100 S.L. 148.56m
PH 1/40 PH0139, SP144 PH0639, SP315 S.L. 151.68m
PH 1/38 PH0139, SP459 CP94-200, CDP:160 S.L. 158.81m
PH 3A/40 PH0139, SP710 S.L. 158.82m
PH 2/40 PH0139, SP869
Depth (m)
Formation Environment Seismic
Depth (Gp)
Lithofacies log
Description
Drilling Gp
Slime, Casing
Q
LC
C3
FC
C2
LB
FB
C1
LA
FA
FD
C3U
C2U
LD
Interfingering of fan-fluvial facies
Sample
Tectonic hot water
Diorite 262.00
Cg P Weathered phyllite and angular breccia
Cg breccias of phyllite
Alternations of weathered phyllite breccias and Sl m-vc
Lacustrine Breccia
Basement
White gray
Olive gray
Brown
Legend
Q Quaternary, fluvial
Alternations of G S F
Cobble bed at the bottom.
FA·FE Tertiary, fan lithofacies with thin fluvial
Mainly consists of Flg(Upper horizon) and Cg(lower horizon) with intercalated thin Cg or Stf-c
Flg consists of mudstone with a small amount of granules
Mudstone is weathered phyllite breccia
Cg of the lower horizon consists of partially weathered phyllite breccia
LA·LD Tertiary, lacustrine lithofacies including small deltaic-fluvial deposits. Flg of fan deposits are intercalated.
lignite, calcareous band, fining upward sequence, laminae, and banding alternations are indicators
C Lignite bed
Seismic reflection
F First reflection the base of Quaternary
UT Upper triple reflector
ST Strong triple reflector
D Double reflector
WR Weak reflector
GP Reading of geophysical log


PH0139, SP869
S.L. 154.72m
PH 4/38 CP94-200, CDP:290
S.L. 152.20m
PH 3/39 PH1139, SP240
S.L. 157.16m
PH 4/40 PH0239, SP180
S.L. 164.54m
PH 5/38 CP94-260, CDP:300
S.L. 149.50m
PH 1/39 CP94-220, CDP:52
CP94-110, CDP:98
Formation Environment Seismic
Depth (Gp)
Lithofacies log
Description
Drilling Gp
Q
FD
LC
C3
FC
LB
C2
FB
C3U
C2U
LD
LD?
C3U?
C3?
C2?
FAULT A
WESTERN BASIN
CENTRAL BASIN
EASTERN BASIN
Basement


PH 5/38 CP94-260, CDP: 300 S.L. 149.50m
PH 1/39 CP94-220, CDP: 520 CP94-110, CDP: 980 S.L. 155.70m
PH 5/40 S.L. 169.65m
PH 3/38 CP94-220, CDP: 780, S.L. 167.65m
PH 2/38 CP94-200, CDP: 1,020 S.L. 195.79m
Formation Environment Seismic
Depth (Gp)
Lithofacies log
Description
Drilling Gp
Depth (m)
FAULT A
WESTERN BASIN
CENTRAL ~ EASTERN BASIN
Q
LD
FD
C3U
LC
C3
FC
C2
LB
FB
LD?
C3U?
C3?
C2?
LA?
FA
BASEMENT
Basement
COAL EXPLORATION AND ASSESSMENT
IN
THAILAND
PHRAE BASIN
試錐柱状対比図
Plate 3.1-2


DEPARTMENT OF MINERAL RESOURCES
COMPANY CMR
WELL ID PH 1/39
FIELD PHRAE BASIN
COUNTRY
STATE THAILAND
CO
WELL
FLD
CTY
STE
FILING No
COAL EXPLORATION ASSESSMENT
IN
THAILAND
PHRAE BASIN



DEPARTMENT OF MINERAL RESOURCES

COMPANY EMR
WELL ID PH 2/39
FIELD PERAS BASIN
COUNTRY STATE THAILAND

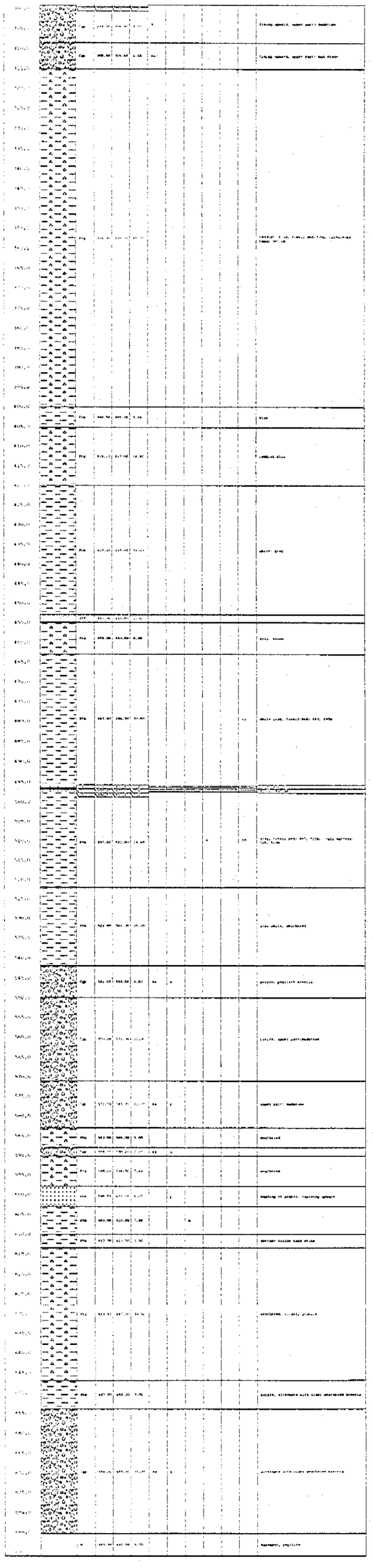
CO
WELL
FLD
CTY
STE
FILING NO

DATE			

CORE EXPLORATION AND ASSESSMENT
IN
THAILAND
PERAS BASIN

試験井PH2/39
地質データ(コア)

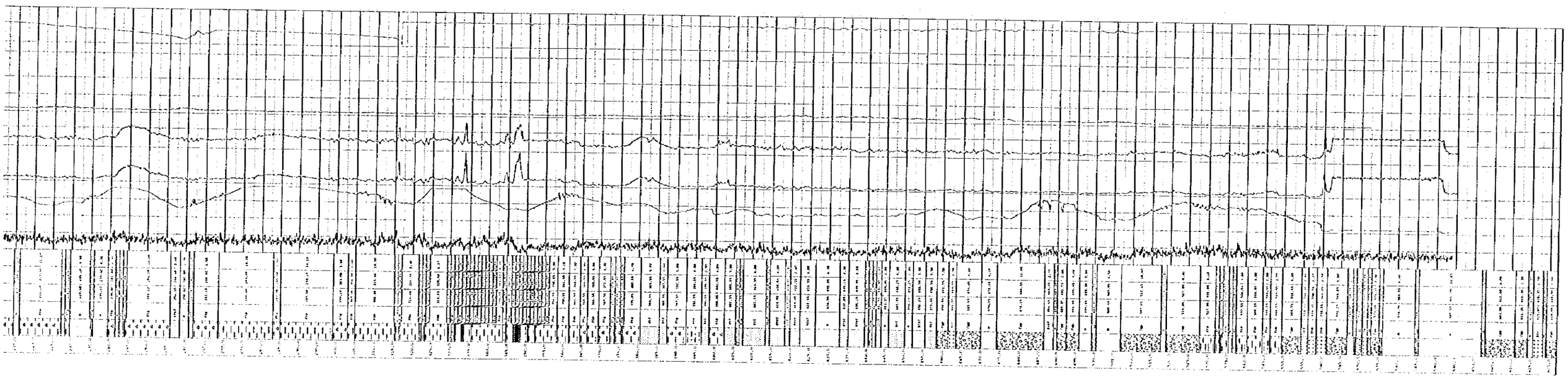
Part 4.3



DEPARTMENT OF MINERAL RESOURCES

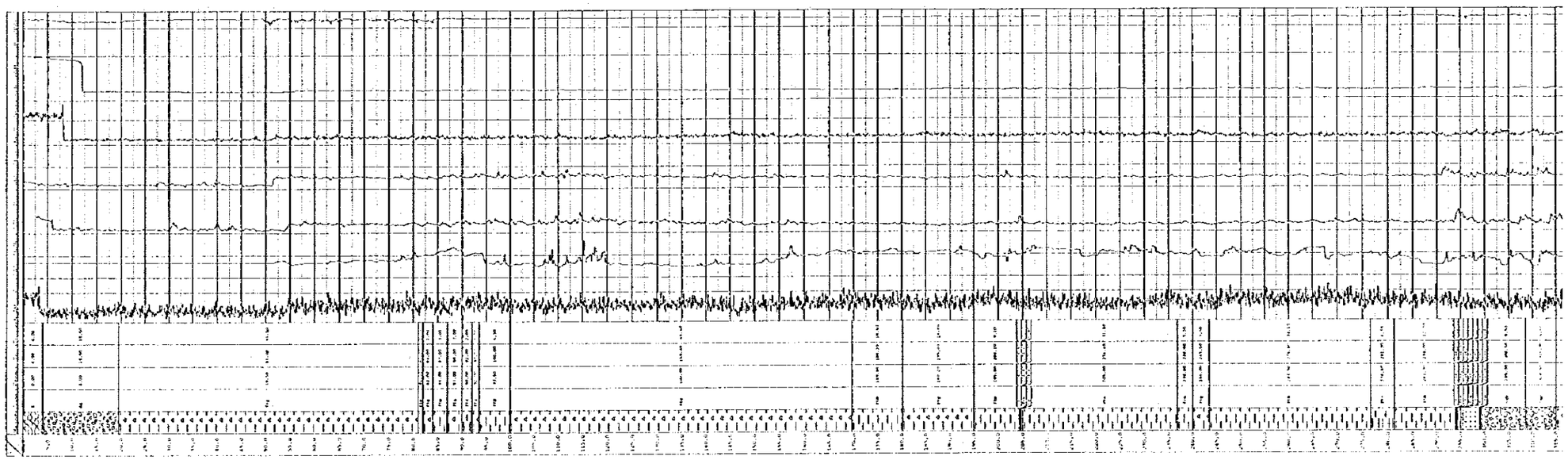
COMPANY DMR
WELL ID PH 1/39 (GEOPHYSICAL LOGGING)
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

COAL EXPLORATION AND ASSESSMENT
IN
THAILAND
PHRAE BASIN

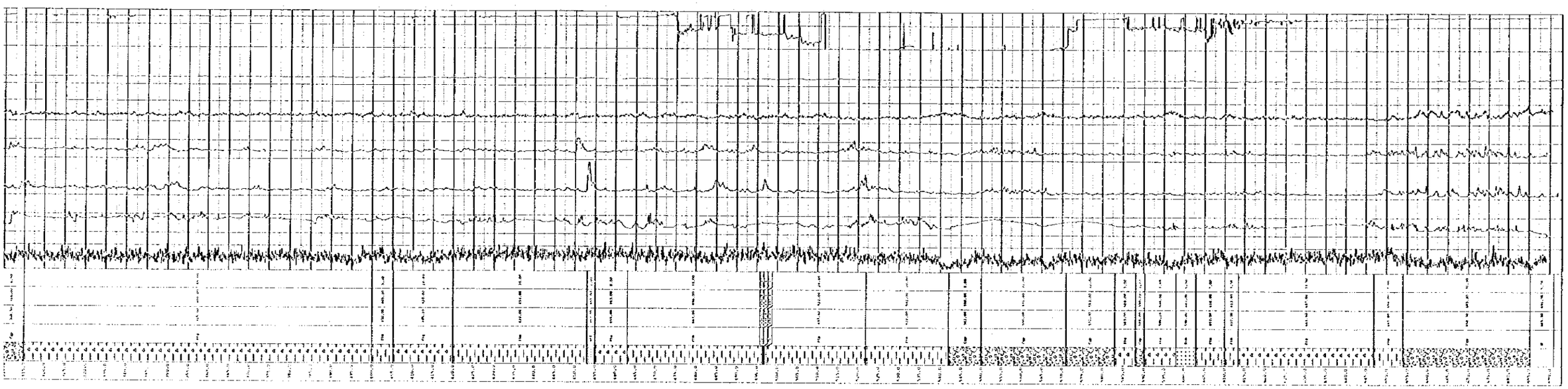


DEPARTMENT OF MINERAL RESOURCES

COMPANY	DMR
WELL ID	PH 2/39 GEOPHYSICAL LOG
FIELD	PHRAE BASIN
COUNTRY	STATE THAILAND



OIL EXPLORATION AND ASSESSMENT
IN
THAILAND
PHRAE BASIN



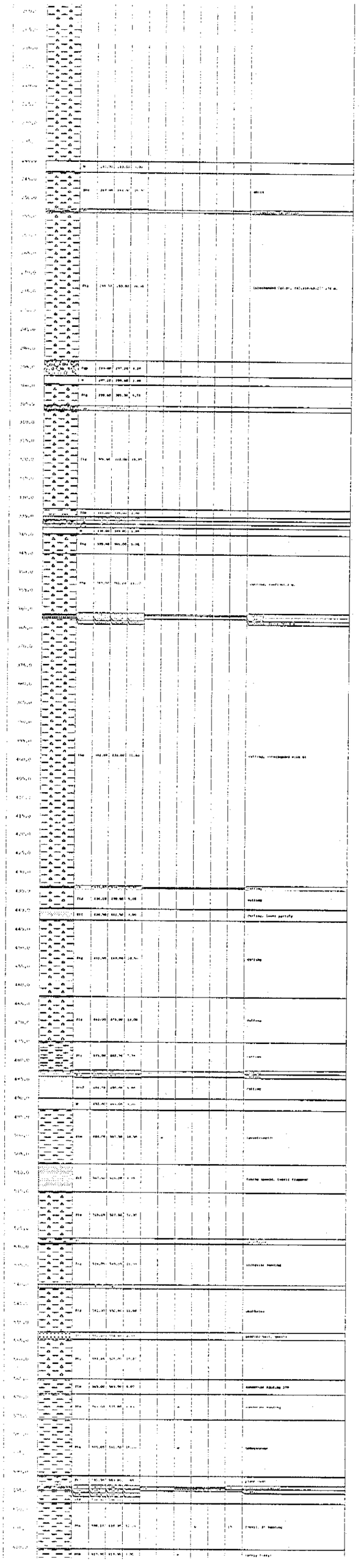
DEPARTMENT OF MINERAL RESOURCES

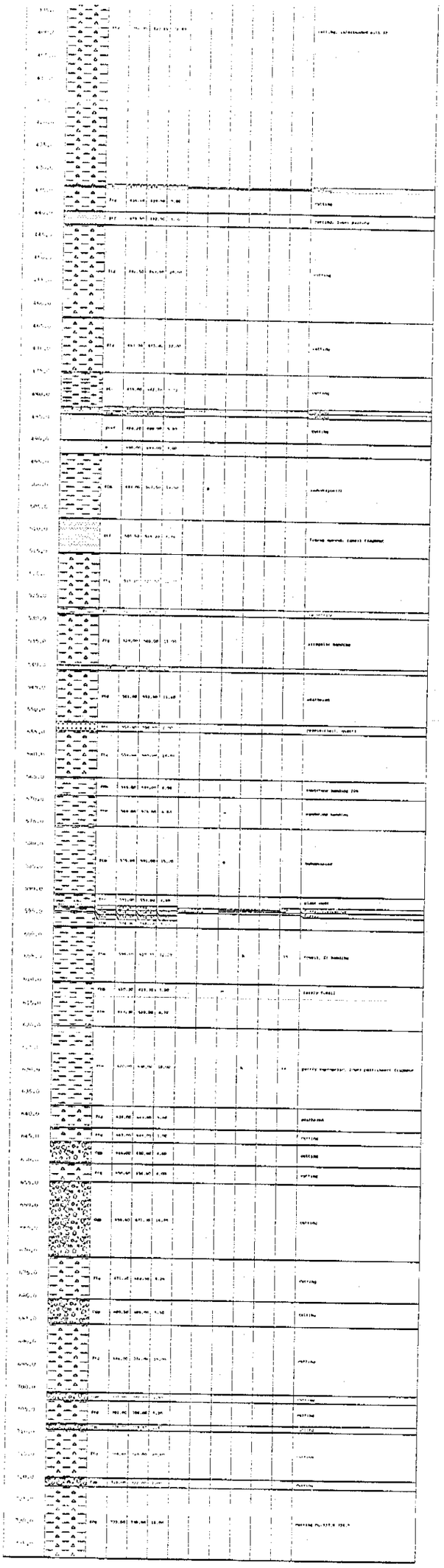
COMPANY SMR
WELL ID PH 3/38
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

CO
WELL
FLD
CTY
ST
FILING NO

COAL EXPLORATION AND DEVELOPMENT
IN
THAILAND
PHRAE BASIN

Page 65

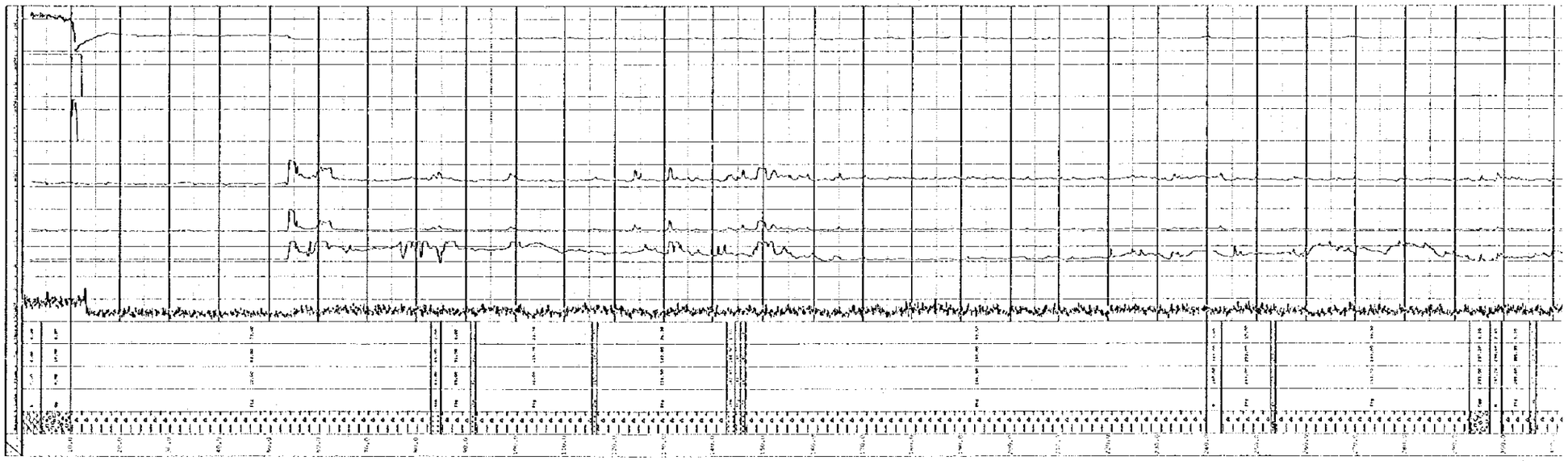


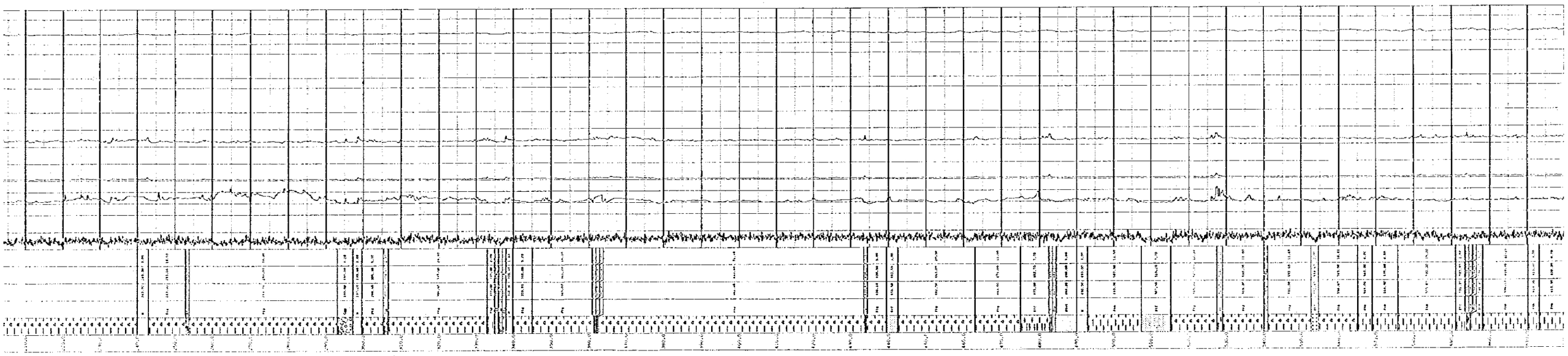


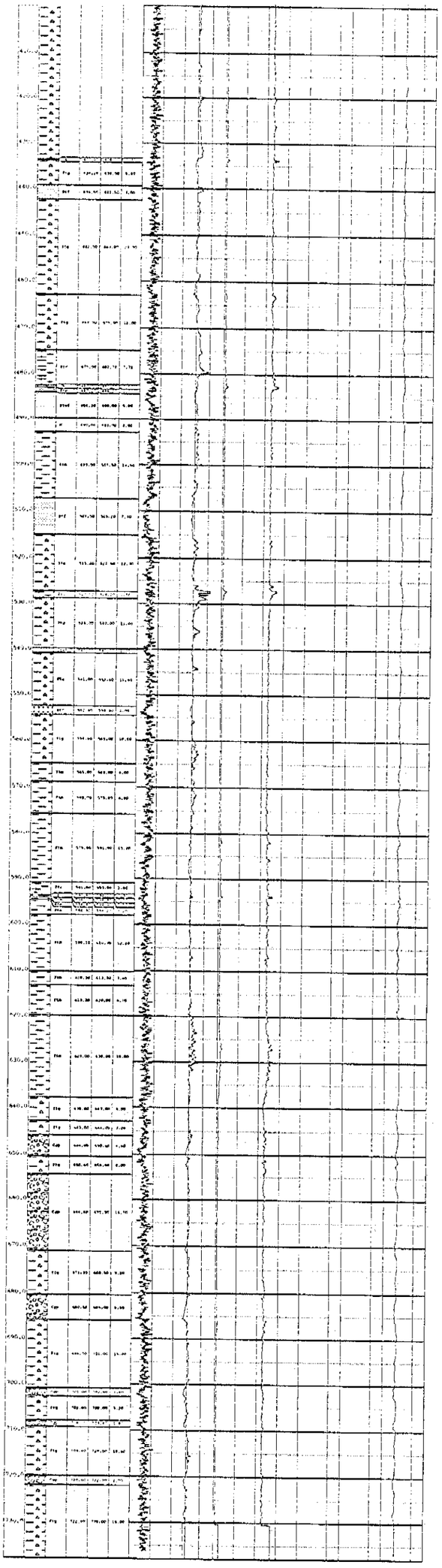
DEPARTMENT OF MINERAL RESOURCES

COMPANY IMR
WELL ID PH 3/38 GEOPHYSICAL LOG
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

CO
WELL
FLD
CTY
STE
FILING No



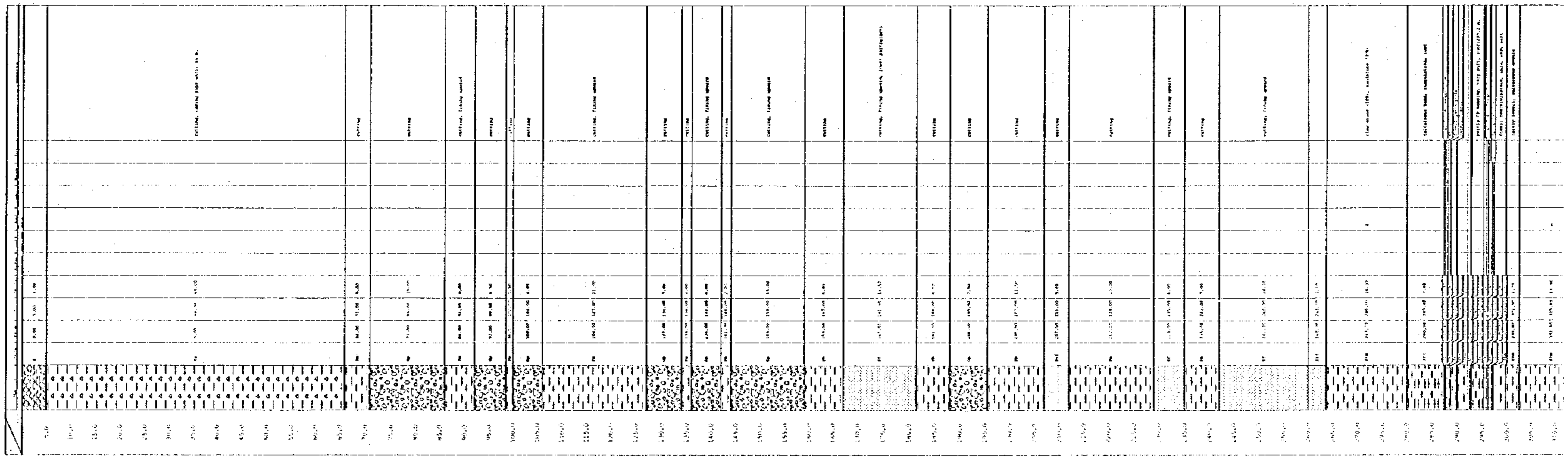


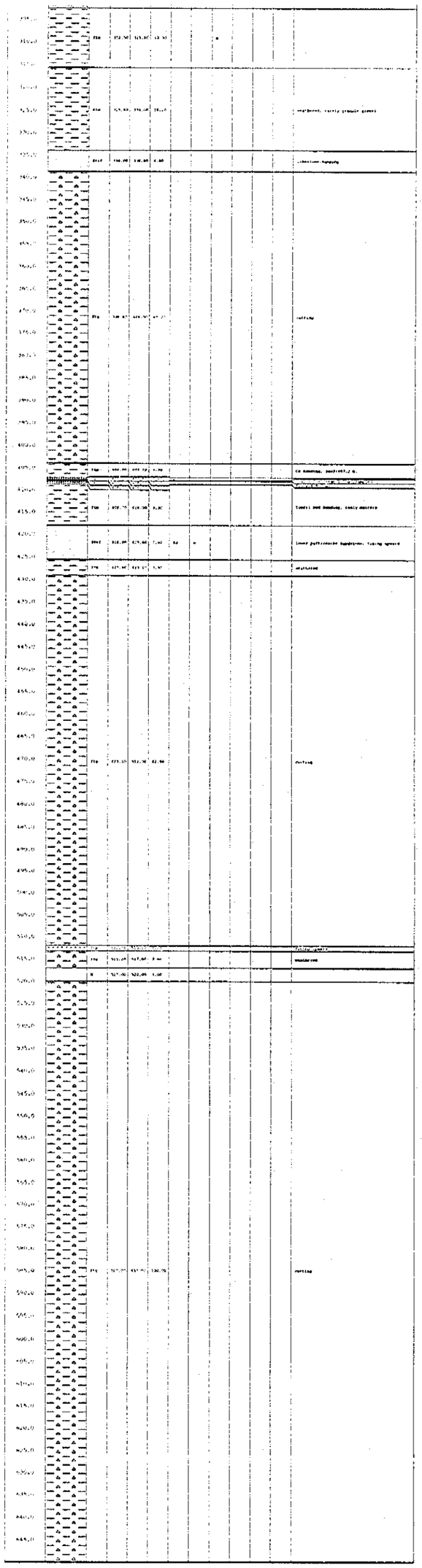


DEPARTMENT OF MINERAL RESOURCES

CO WELL FLD CTY STE FILING No	COMPANY DMR
	WELL ID PH 4/38
	FIELD PHRAE BASIN
	COUNTRY STATE THAILAND

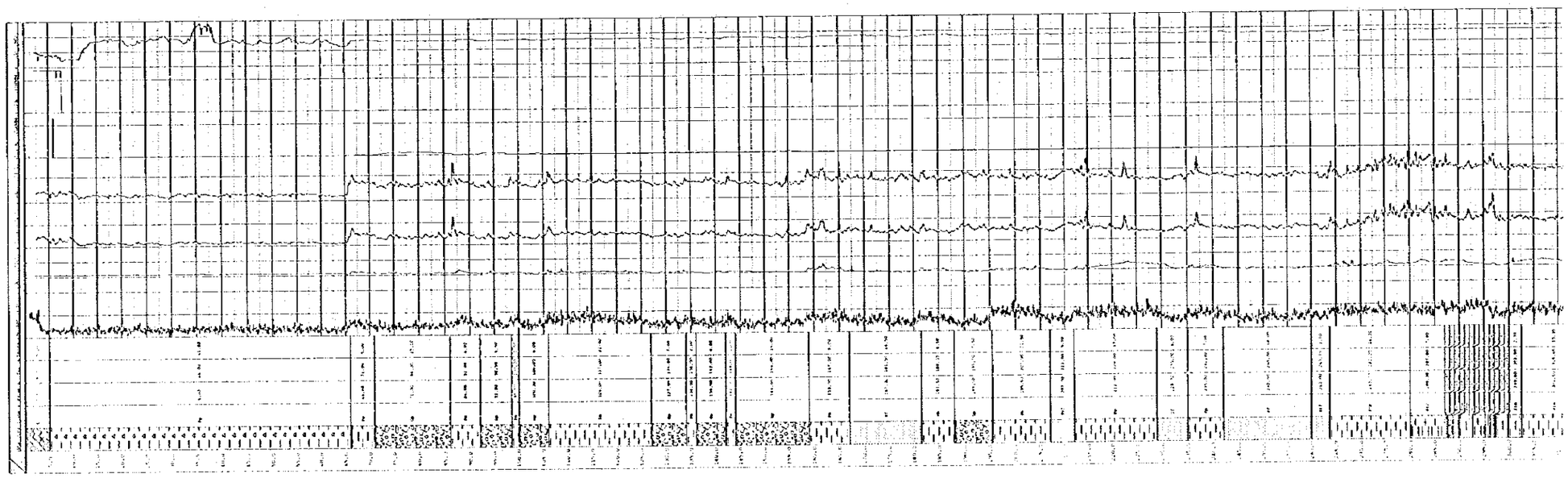
COAL EXPLORATION AND ASSESSMENT
IN
THAILAND

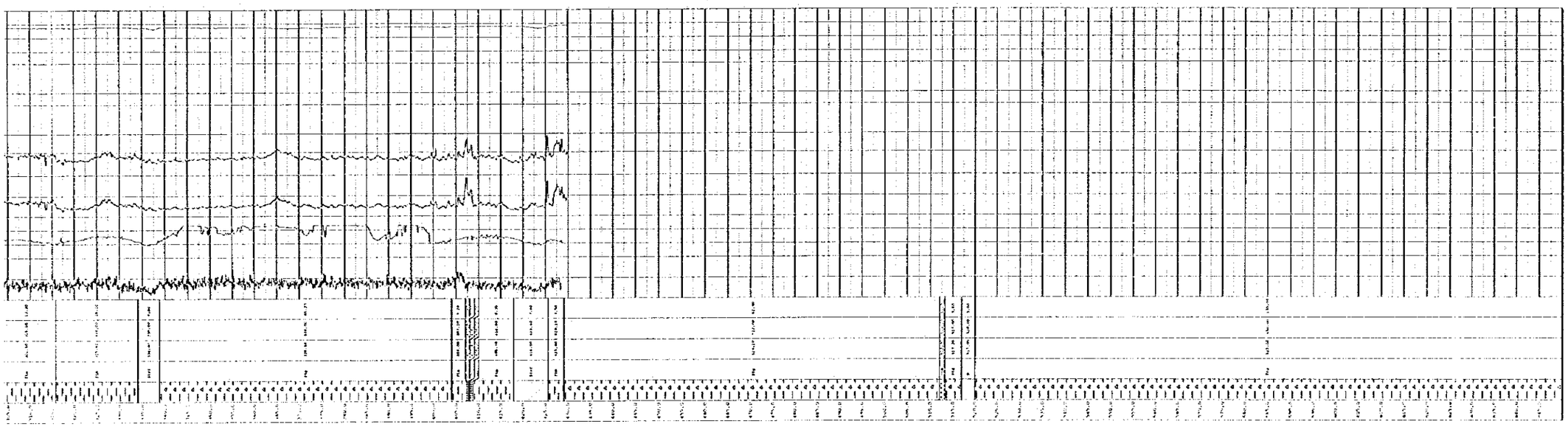




DEPARTMENT OF MINERAL RESOURCES

COMPANY IMR
WELL ID PH 4/39 GEOPHYSICAL LOG
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

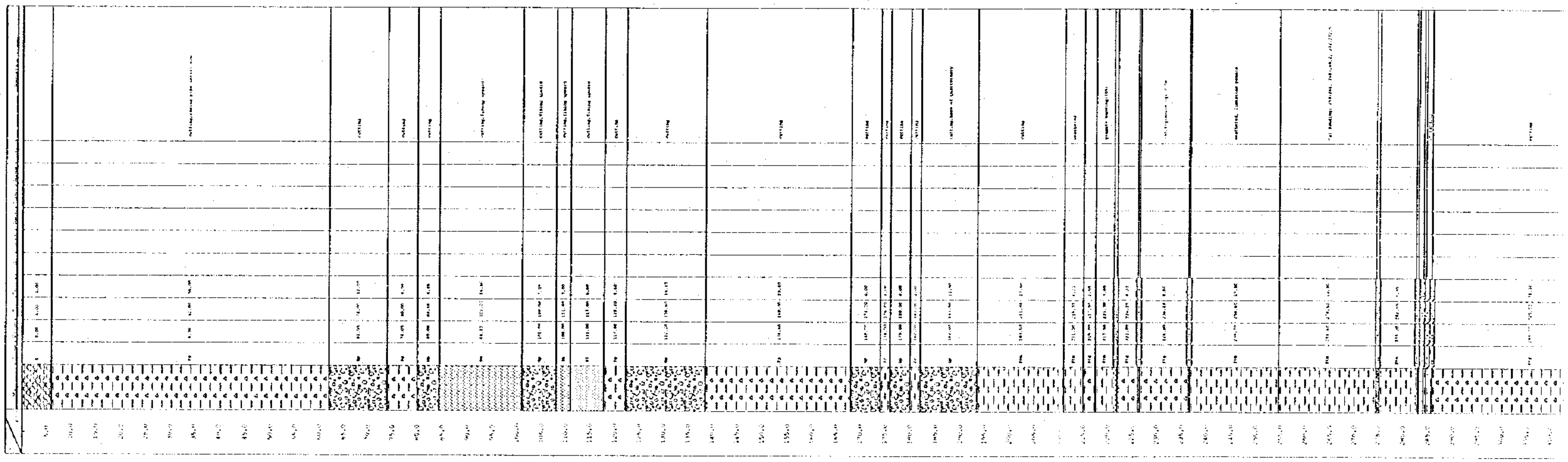




DEPARTMENT OF MINERAL RESOURCES

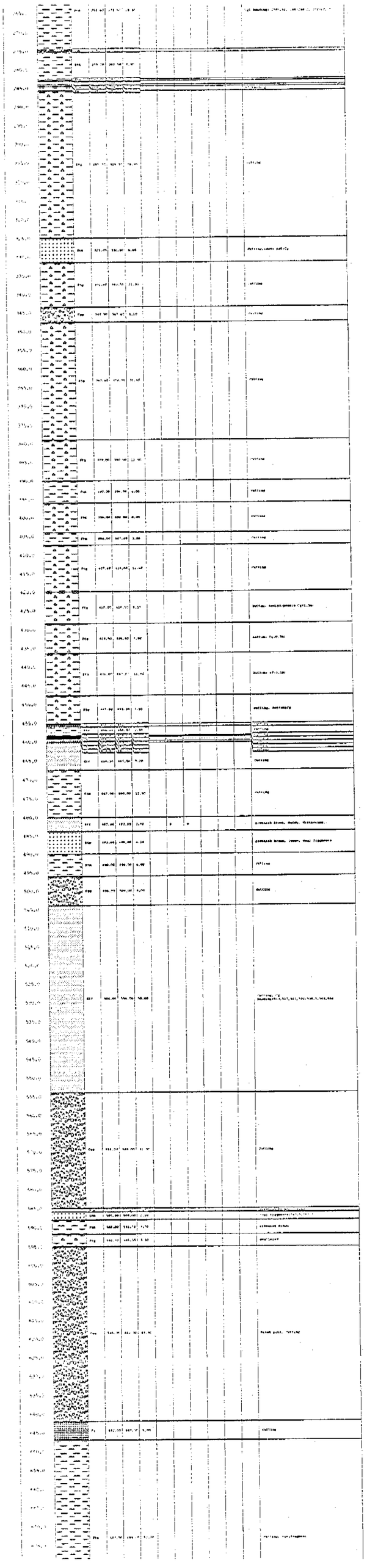
CO WELL FLD CTY STE FILING No

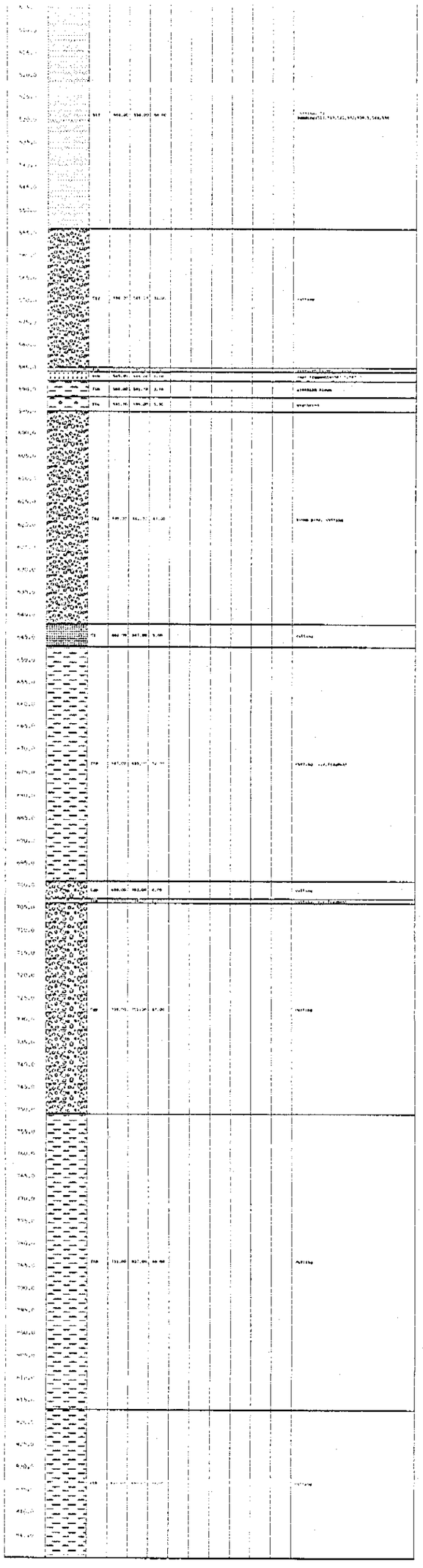
COMPANY DMR
WELL ID PH 5/38
FIELD PHRAE BASIN
COUNTRY STATE THAILAND



COAL EXPLORATION AND ASSESSMENT IN THAILAND

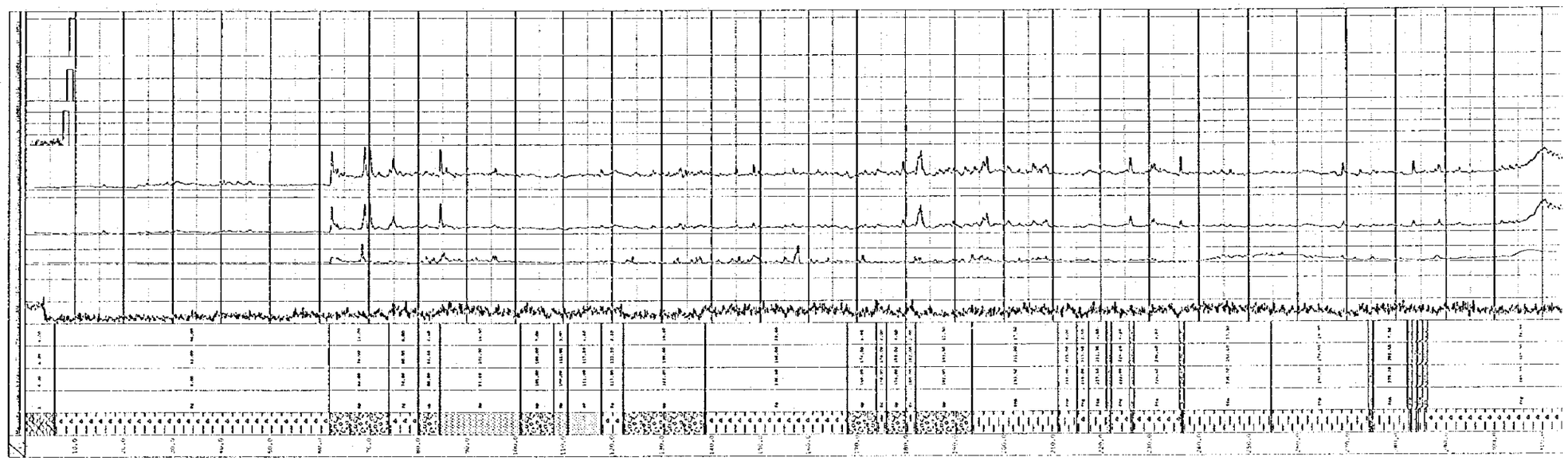
PHRAE BASIN

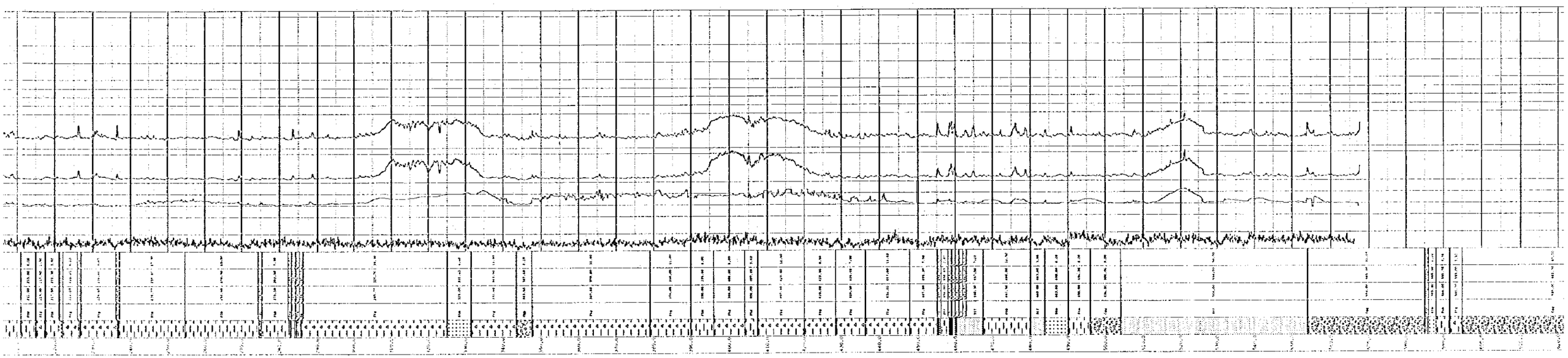


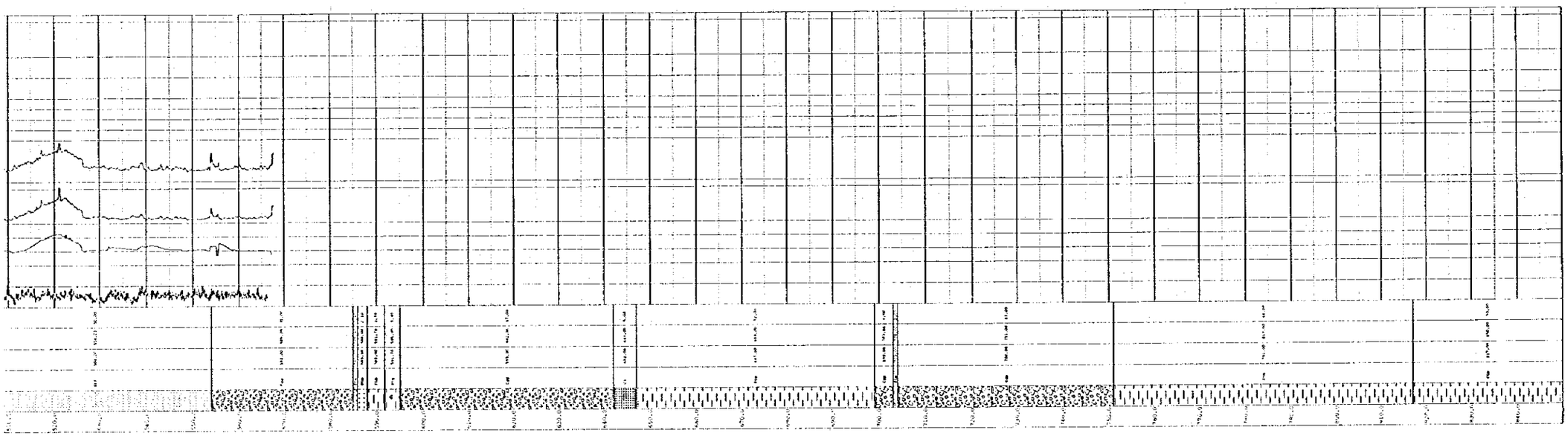


DEPARTMENT OF MINERAL RESOURCES

COMPANY ENR
WELL ID PR 5/38 GEOPHYSICAL LOG
FIELD PHRAE BASIN
COUNTRY STATE THAILAND







DEPARTMENT OF MINERAL RESORCES

COMPANY EMR
WELL ID PR 1/39
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

CO WELL FLD CTY STE FILING No

LOCATION

OTHER SERVICES

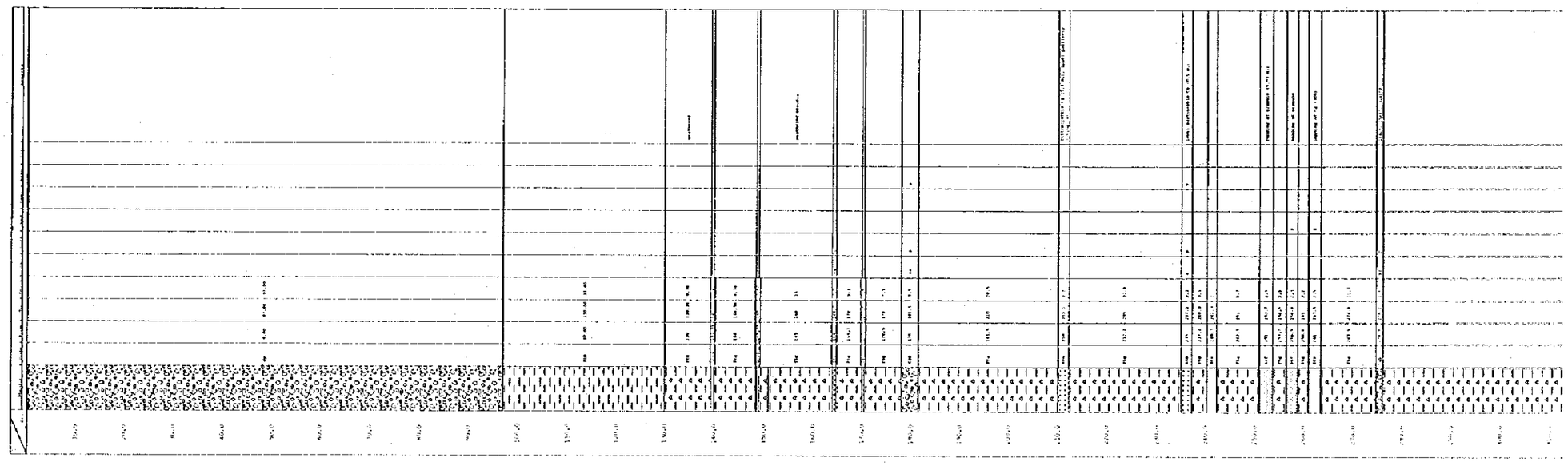
CONTRACTOR
RIG
HOLE SIZE
TYPE

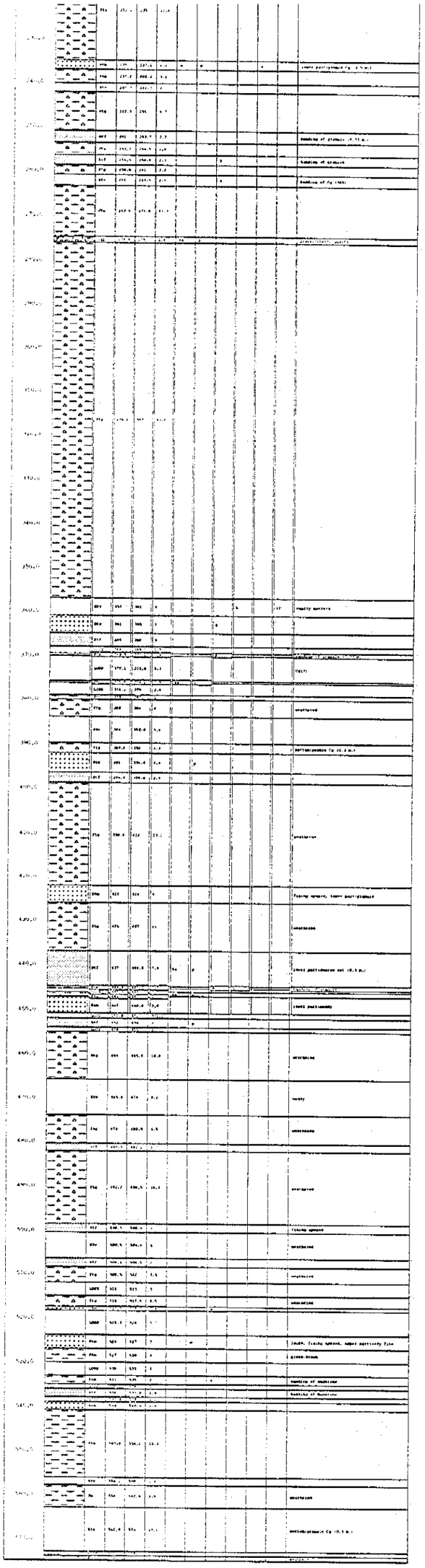
PERMANENT DATUM ELEVATION K.B.
LOG MEASURED FROM ABOVE PERM. DATUM D.F.
DRILLING MEASURED FROM G.L.

DATE		TIME PLUG IN HOLE	
RUN NO.		CASING	
TYPE LOG		TUBING	
DEPTH-DRILLER		DRILL	
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM. LOG INTERVAL			
TOP LOG INTERVAL			
CASING-DRILLER			
CASING-LOGGER			
BIT SIZE			
TYPE FLUID IN HOLE			
DENSITY			
VISCOSITY			
PH			
FLUID LOSS			
SOURCE OF SAMPLE			
RM @ MEAS. TEMP.			
RMF @ MEAS. TEMP.			
RMC @ MEAS. TEMP.			
SOURCE RMF	RMC		
RM @ BHT			
TIME CIRC.			
MAX. REC. TEMP.			
EQUIP. LOCATION			
RECORDED BY			
WITNESSED BY			

RUN NO.	BIT SIZE	FROM	TO	CASING SIZE	WGHT	FROM	TO

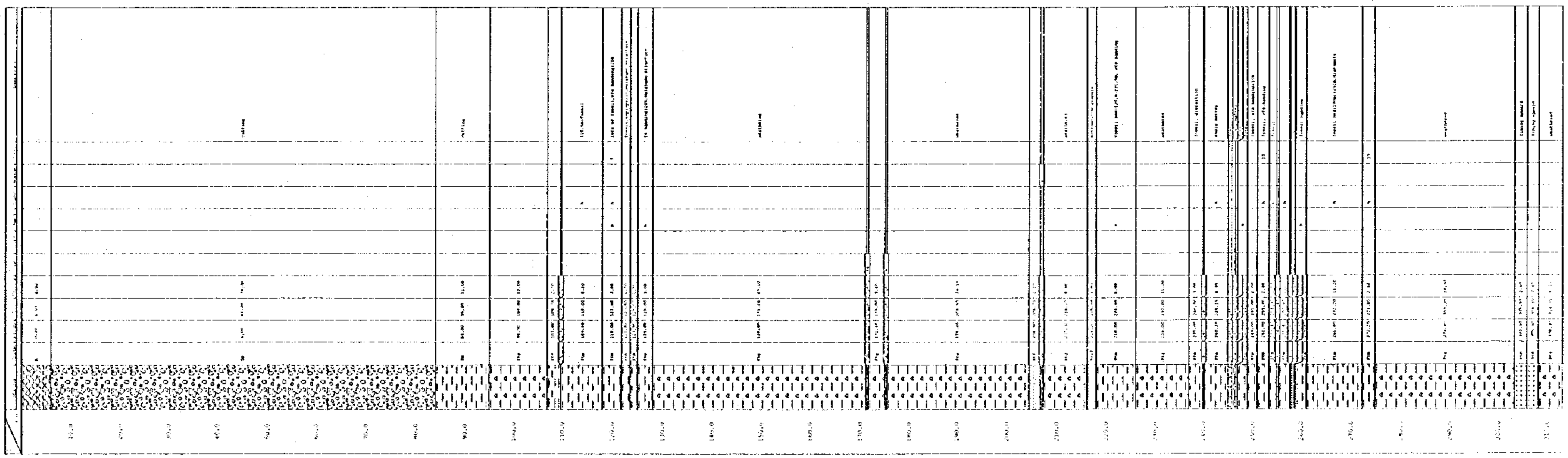
CO-OPERATION AND ASSISTANCE
IN
THAILAND
BY
DIRECTOR GENERAL
DEPARTMENT OF MINERAL RESOURCES
BANGKOK, THAILAND



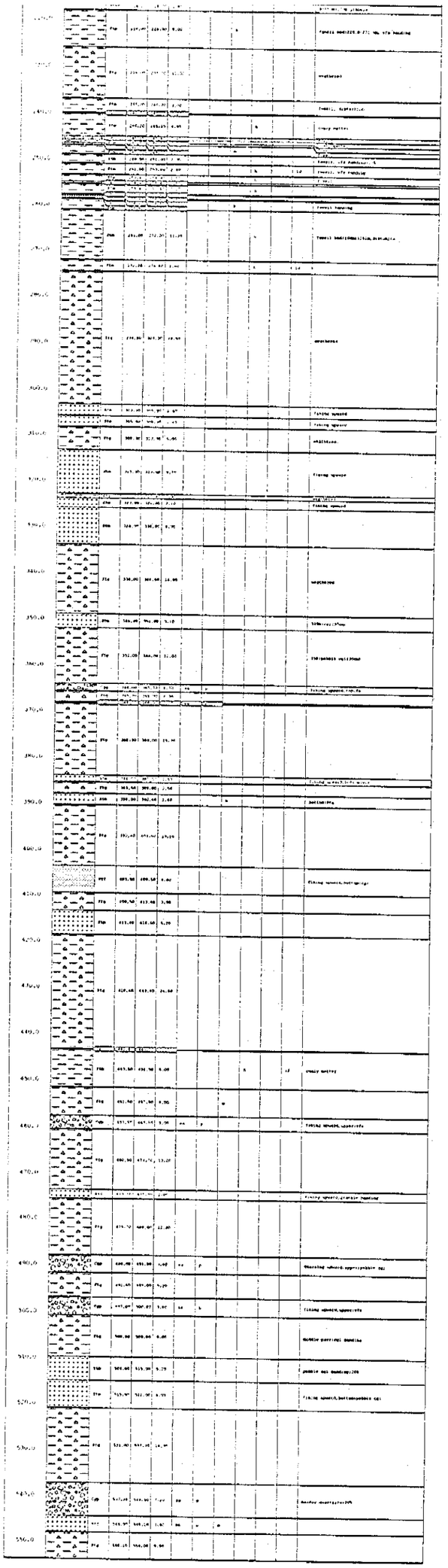


DEPARTMENT OF MINERAL RESOURCES

COMPANY DMR
WELL ID PH 2/33
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

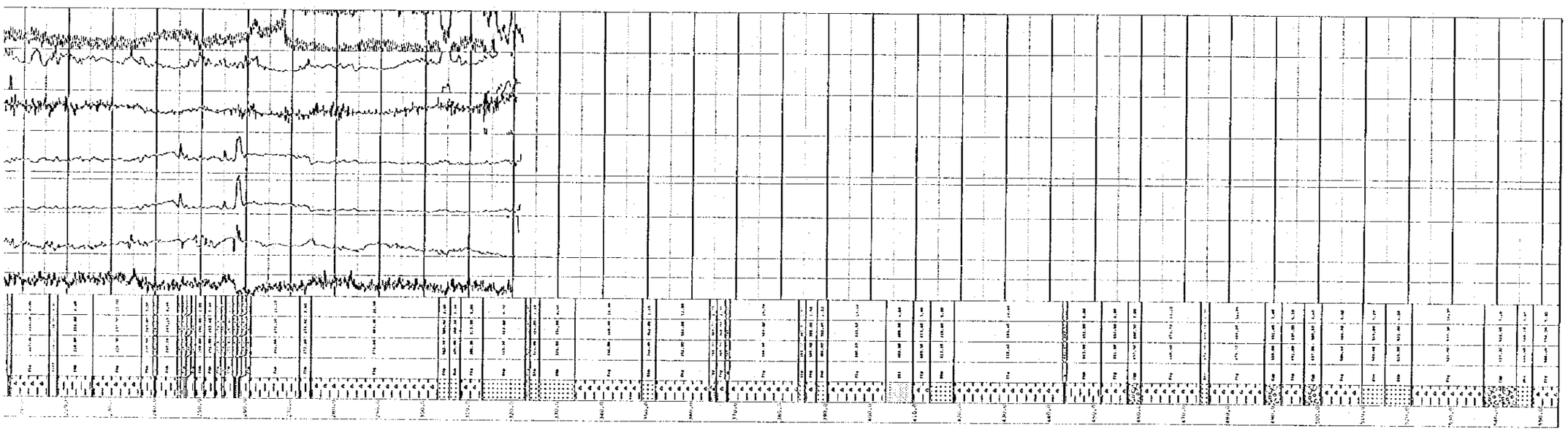


COAL EXPLORATION AND ASSESSMENT
IN
THAILAND
PHRAE BASIN



DEPARTMENT OF MINERAL RESORCES

COMPANY Department of Mineral Resources
WELL ID FH 2/39 GEOPHYSICAL LOG
FIELD Phrae Basin
COUNTRY STATE THAILAND



DEPARTMENT OF MINERAL RESOURCES

CO
WELL
FLD
CTY
STE
FILING No

COMPANY CMR
WELL ID PH 3/33
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

LOCATION

OTHER SERVICES

SEC TWP RGE

ELEVATION K.B.

D.F.

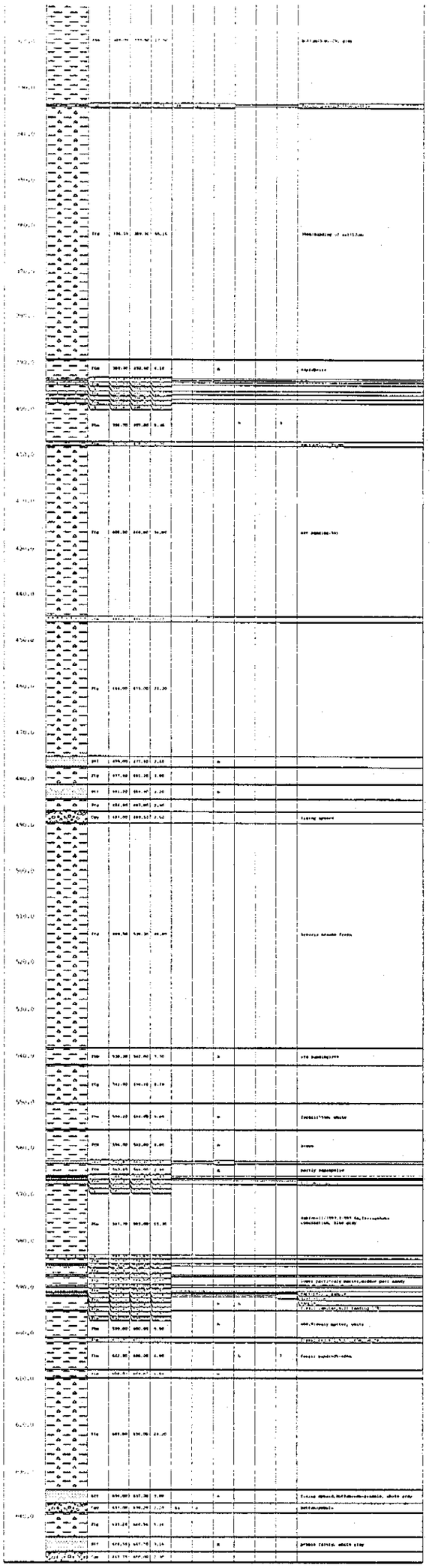
G.L.

DATE
RUN NO.
TYPE LOG
BOTTOM DRILLER
TOP LOGGED INTERVAL
BOTTOM LOGGED INTERVAL
CASING DRILLER SIZE
RECORDED BY
WITNESSED BY

TYPE FLUID IN HOLE
DENSITY
VISCOSITY
LEVEL
MAX. REC. TEMP.

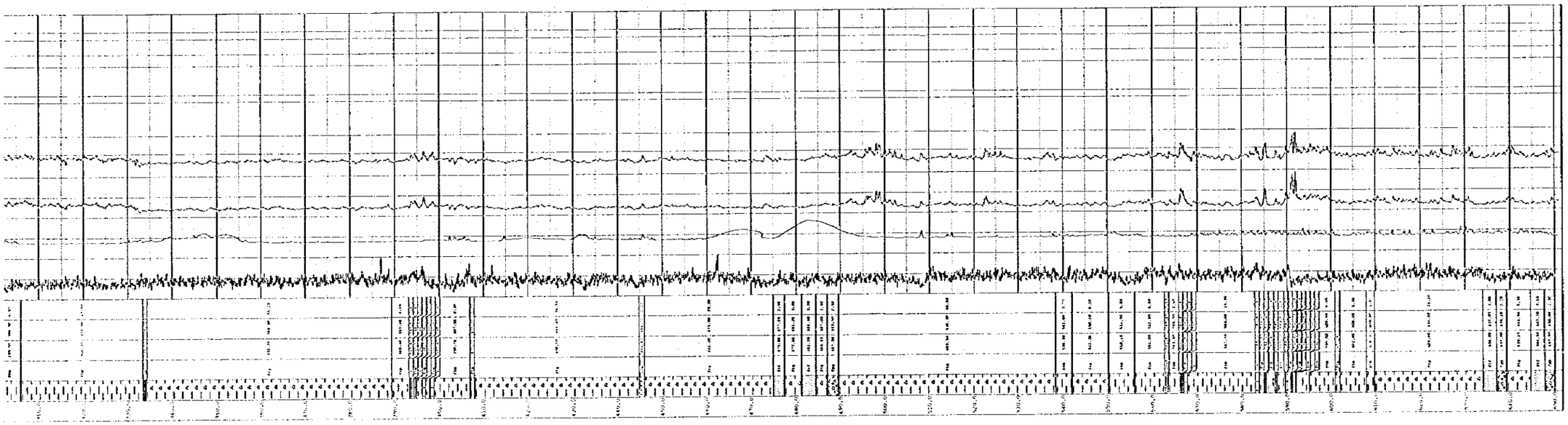
RUN	BIT SIZE	FROM	TO	CASING RECORD SIZE	WGHT	FROM	TO

10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370



DEPARTMENT OF MINERAL RESOURCES

COMPANY DMR
WELL ID PH 3/39 GEOPHYSICAL LOG
FIELD PHRAE BASIN
COUNTRY STATE THAILAND



DEPARTMENT OF MINERAL RESOURCES

COMPANY ENR
WELL ID PR 1/40
FIELD PHRAE BASIN
COUNTRY STATE THAILAND

CO
WELL
FLD
CTY
STE
FIELDNO No

DATE TIME M.K.

EDITOR

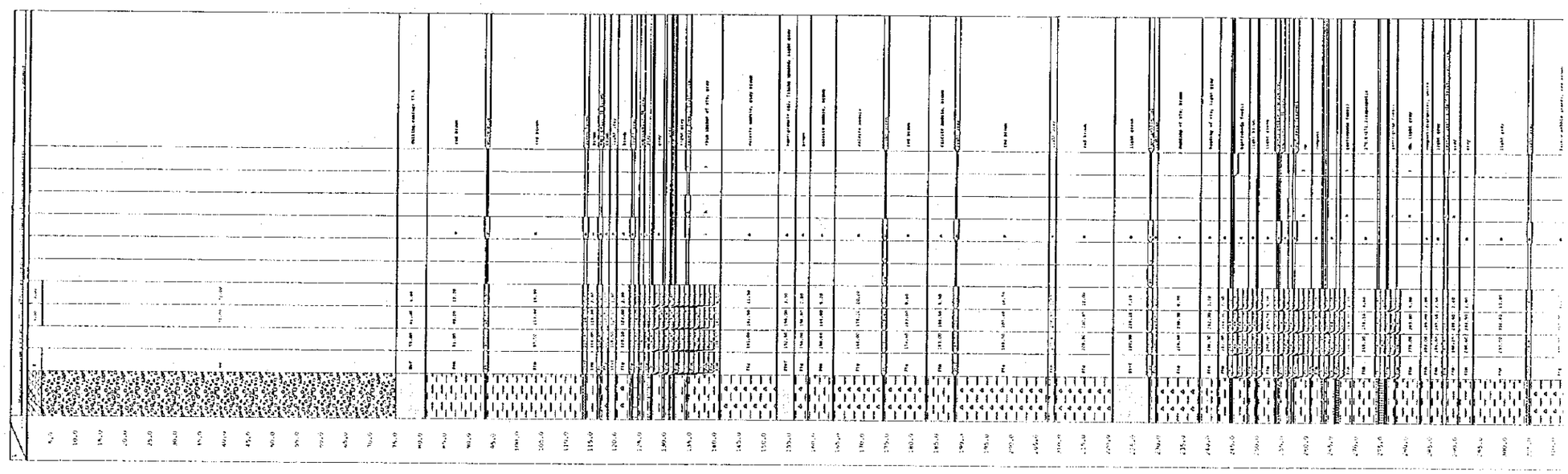
MAX. DEPTH

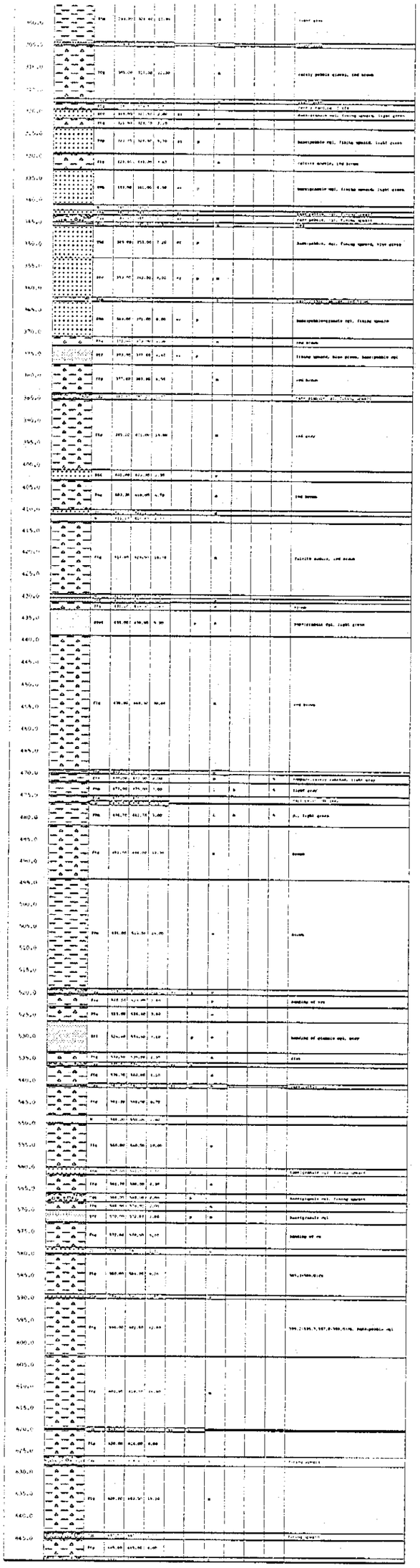
TD

DATE		TYPE FLUID IN HOLE

NO.	CASING RECORD			TUBING RECORD			
	SIZE	WT.	TO	SIZE	WT.	FROM	TO

COAL EXPLORATION AND DEVELOPMENT
IN
THAILAND
BY
DEM, BANGKOK

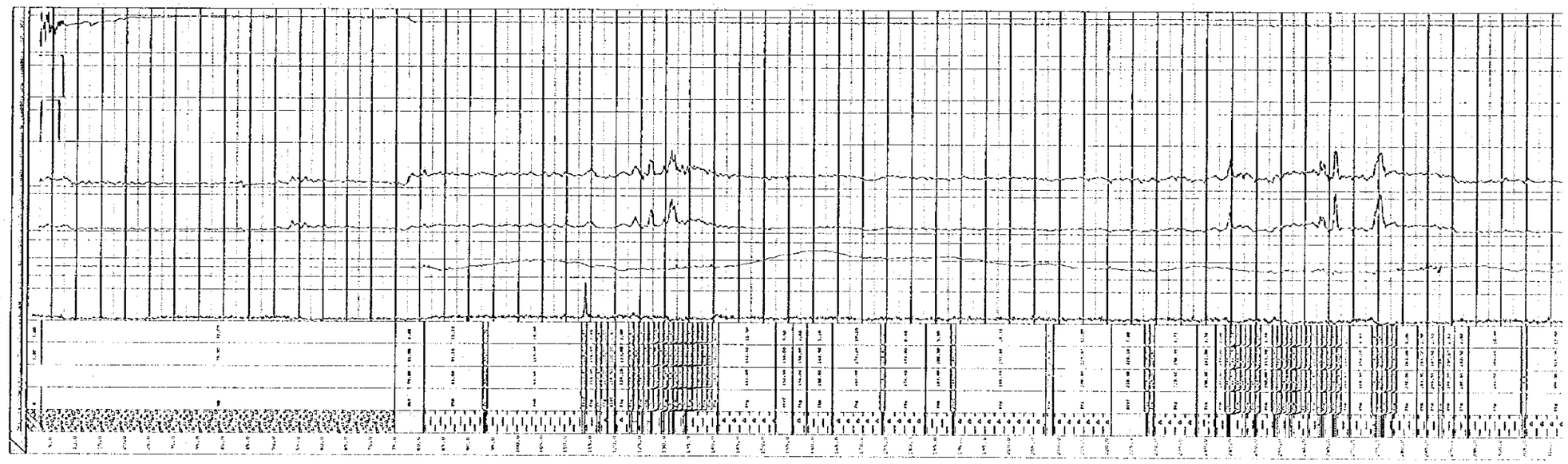


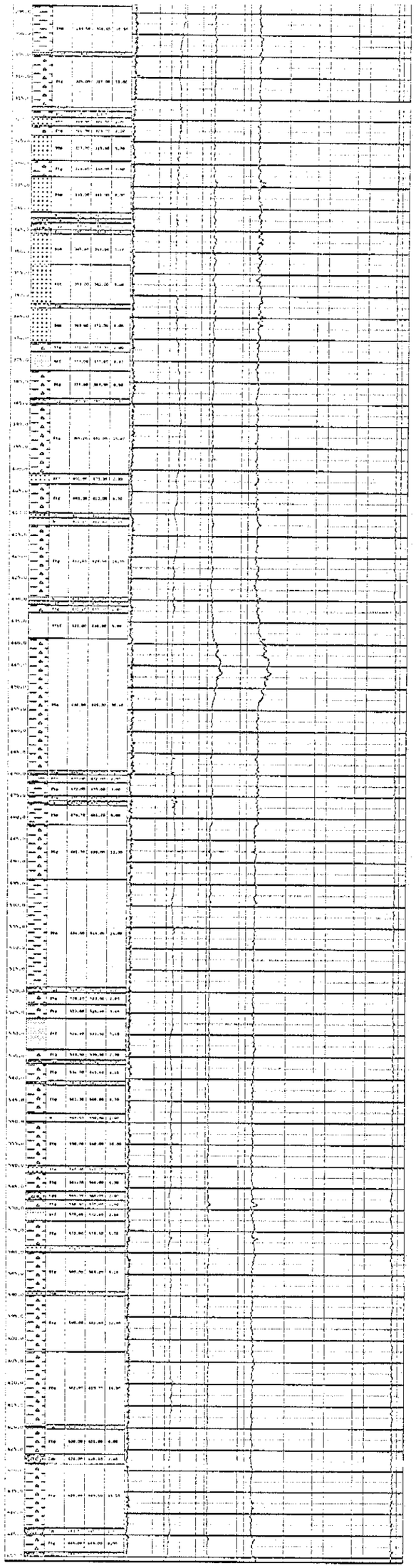


DEPARTMENT OF MINERAL RESOURCES

COMPANY EMR
WELL ID FH 1/43 GEOPHYSICAL LOG
FIELD SHRAB BASIN
COUNTRY STATE THAI LAND

FILING No.





DEPARTMENT OF MINERAL RESOURCES

COMPANY EMR
WELL ID PR 2/40
FIELD PHRAE BASIN
COUNTRY STATE THAI LAND

CO
WELL
FLD
CTY
STE
FIELDNO

OTHER SERVICES
CONTRACTOR
MACHINE
RIG

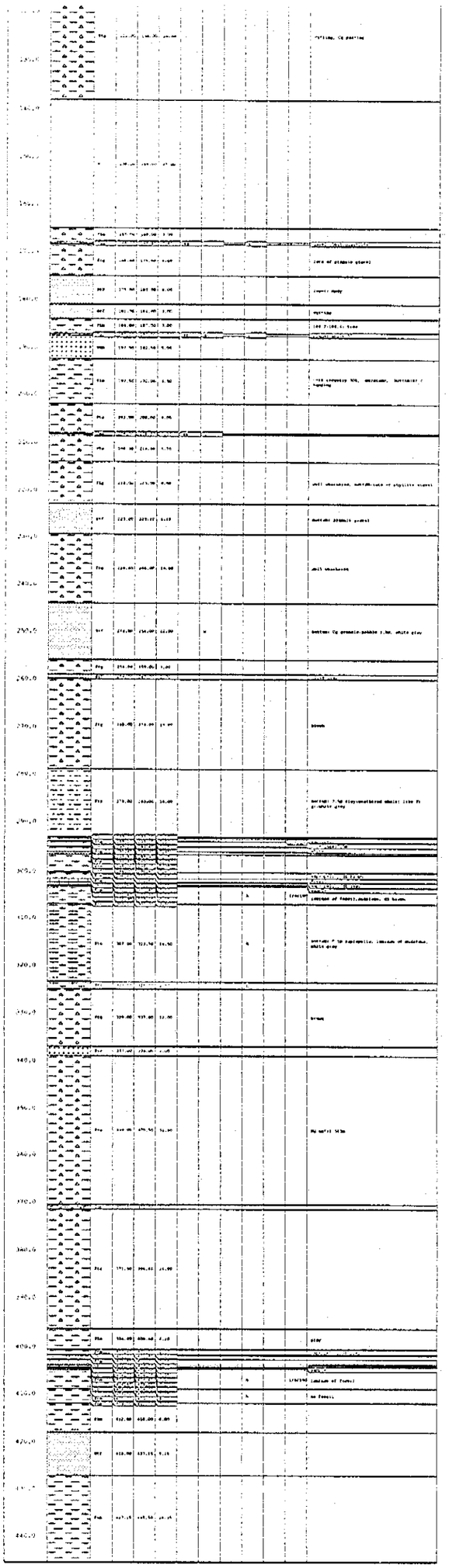
K.B.
D.F.
G.L.

DATE		TYPE FLUID IN HOLE	
RUN NO		DENSITY	
TIME ON		VISCOSITY	
TIME OFF		LEVEL	
TIME ON BOTT		MAX. REC. TEMP.	
BOR LOGGER ON BOTTOM			
TIME LOGGER ON BOTTOM			
DRILLER'S TD			
RECORDED BY			
WITNESSED BY			

BIT	BORE-HOLE RECORD			CASING RECORD			
NO.	SIZE	FROM	TO	SIZE	WGT.	FROM	TO

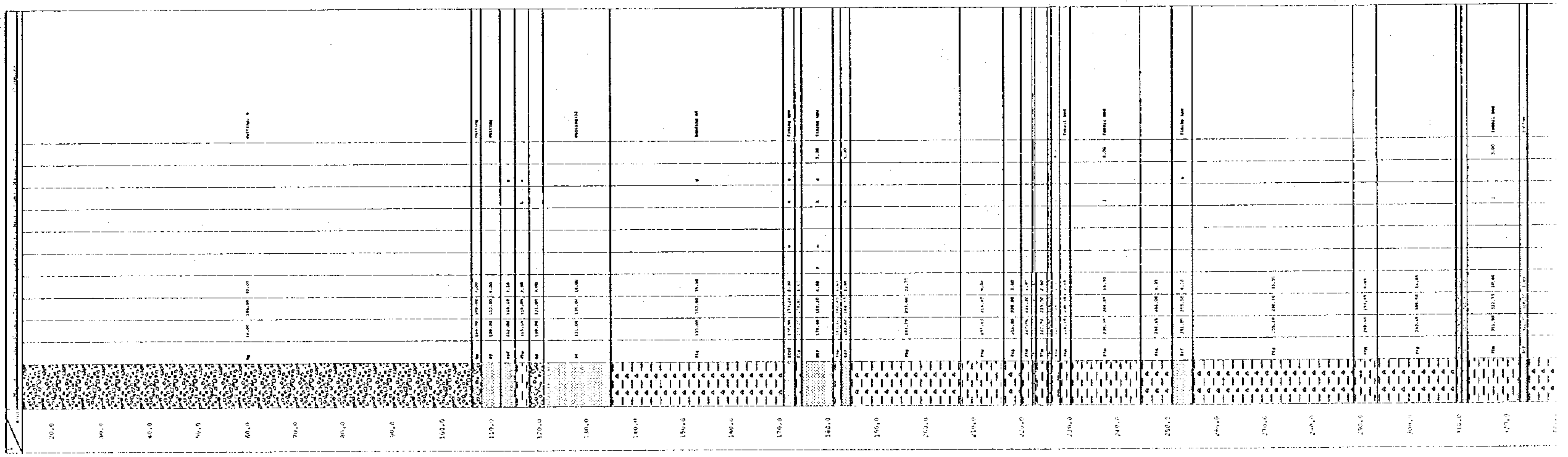
COMPANY REPRESENTATIVE
IN
DEPARTMENT
OF MINERAL RESOURCES
BANGKOK, THAILAND
PHONE

Depth	Caliper	Gamma Ray	Resistivity	Sonic	Density	Neutron	Porosity	Lithology	Mud Weight	Mud Viscosity	Mud Resistivity	Mud Temperature	Bit Size	Remarks
20.0														
30.0														
40.0														
50.0														
60.0														
70.0														
80.0														
90.0														
100.0														
110.0														
120.0														
130.0														
140.0														
150.0														
160.0														
170.0														
180.0														
190.0														
200.0														
210.0														
220.0														
230.0														
240.0														
250.0														
260.0														
270.0														
280.0														
290.0														
300.0														
310.0														

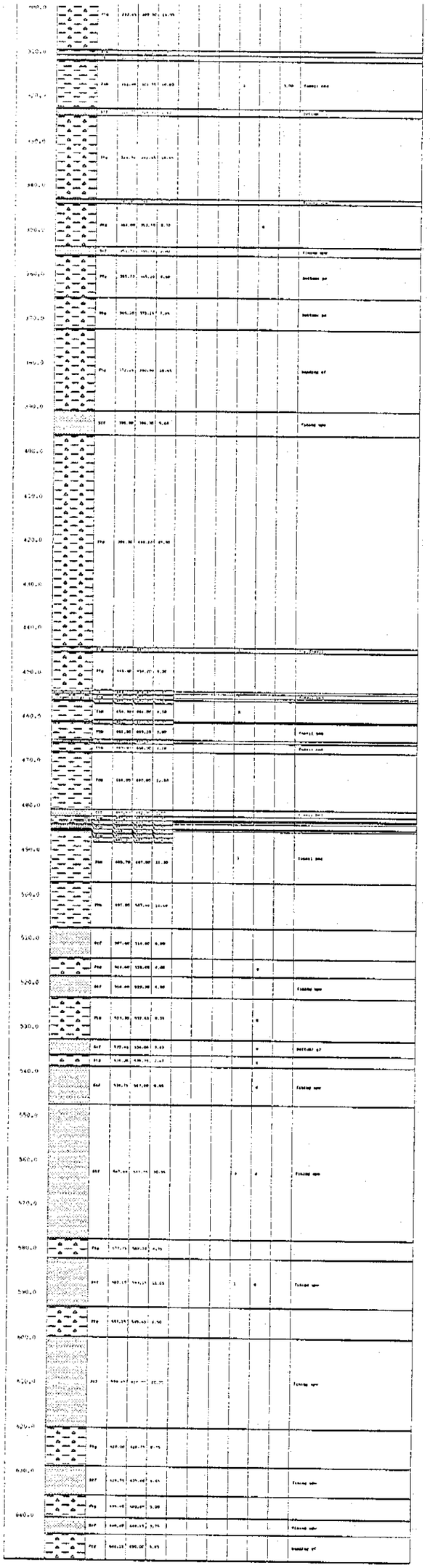


DEPARTMENT OF MINERAL RESOURCES

COMPANY DMR
WELL ID PH 3A/40
FIELD PHRAE BASIN
COUNTRY STATE THAILAND



COAL EXPLORATION AND ASSESSMENT
IN
THAILAND
PHRAE BASIN

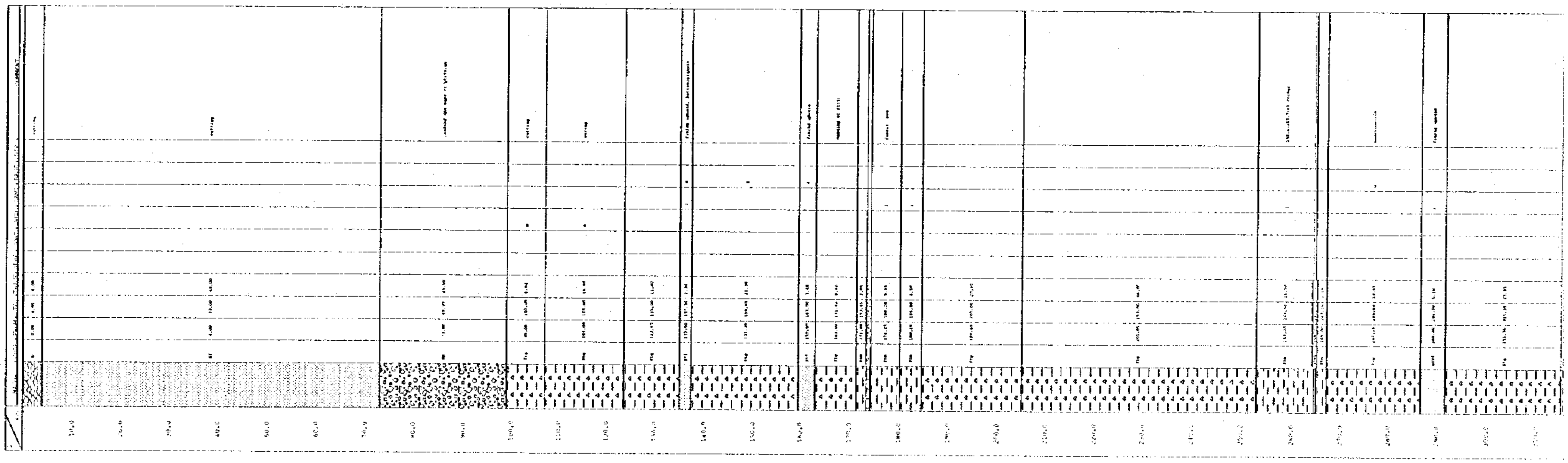


DEPARTMENT OF MINERAL RESOURCES

COMPANY DMR
WELL ID PH 4/40
FIELD PHRAE BASIN
COUNTRY STATE THAI LAND

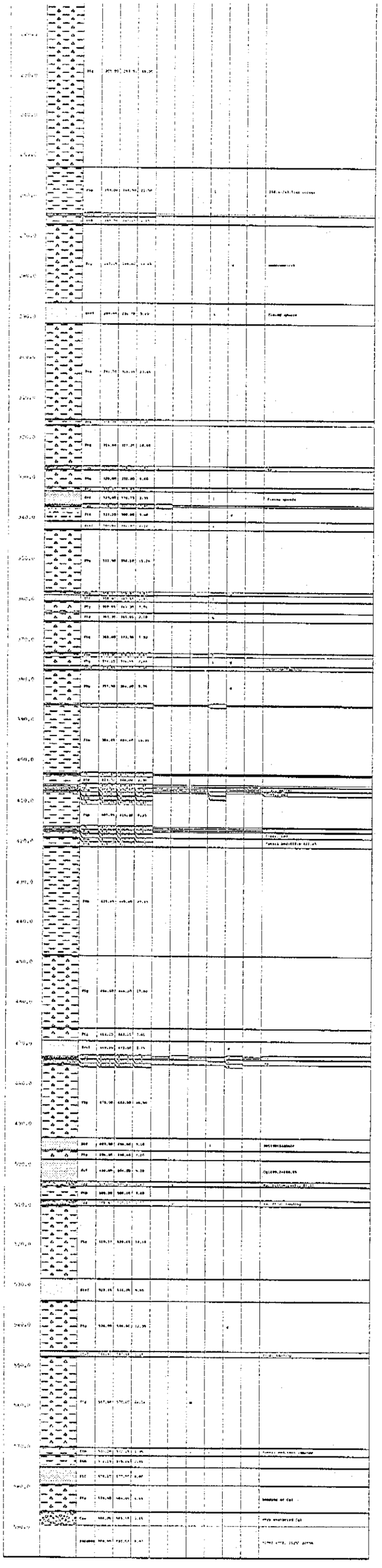
CO WELL FLD CTY STE FILING No

RUN No.	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO



COAL EXPLORATION AND ASSESSMENT
IN
THAILAND
PHRAE BASIN

Fig. 4.20



DEPARTMENT OF MINERAL RESOURCES

COMPANY	DMR
WELL ID	PH 4/49 GEOPHYSICAL LOG
FIELD	PHRAE BASIN
COUNTRY	STATE THAI LAND

LOCATION

OTHER SERVICES

WELL DATA

FIELD No

DEG MIN SEC

PERMANENT DATUM — ELEVATION — K.B.

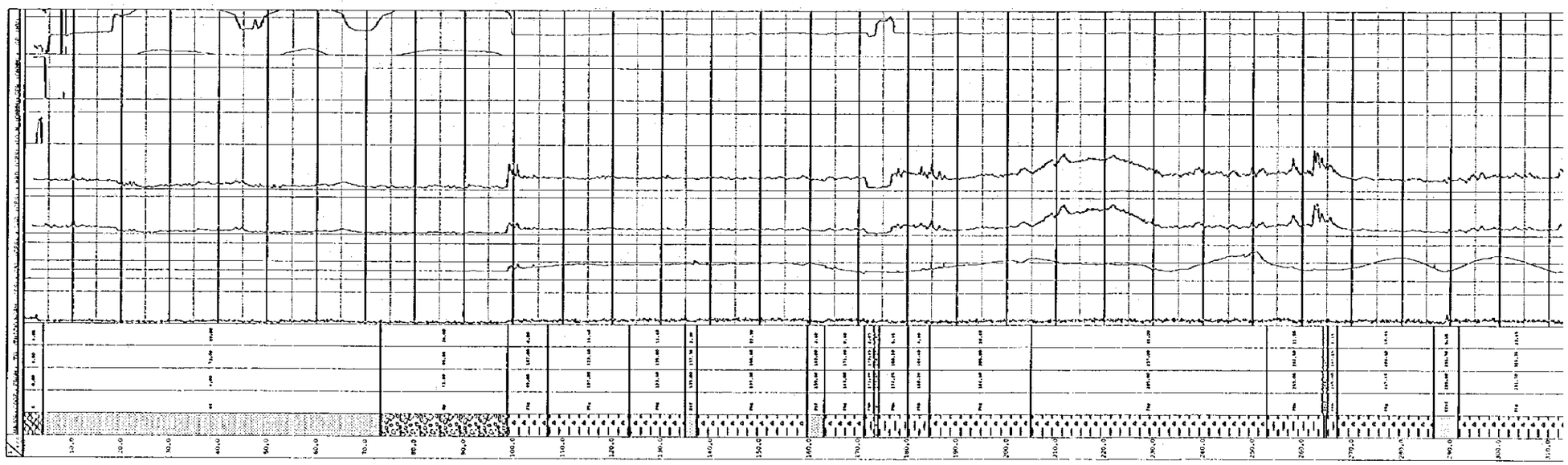
LOG MEAS. FROM — ABOVE PERM. DATUM — D.F.

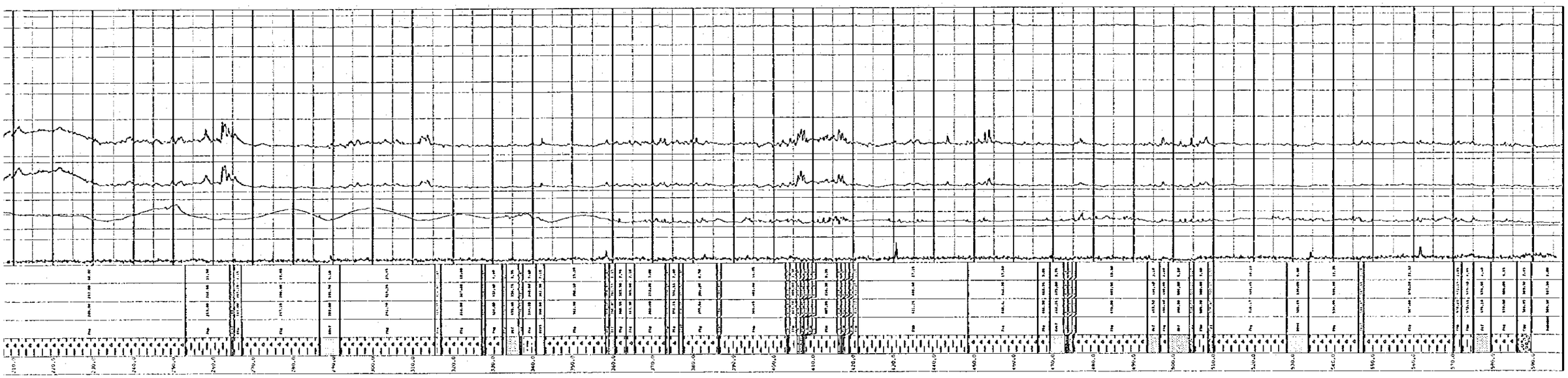
DRILLING MEAS. FROM — G.L.

DATE		TYPE FLUID IN HOLE	
RUN NO		DENSITY	
TYPE LOG		VISCOSITY	
DEPTH-DRILLER		PH	
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM LOGGED INTERVAL			
TOP LOGGED INTERVAL			
OPERATING RIG TIME			
RECORDED BY			
WITNESSED BY			

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO

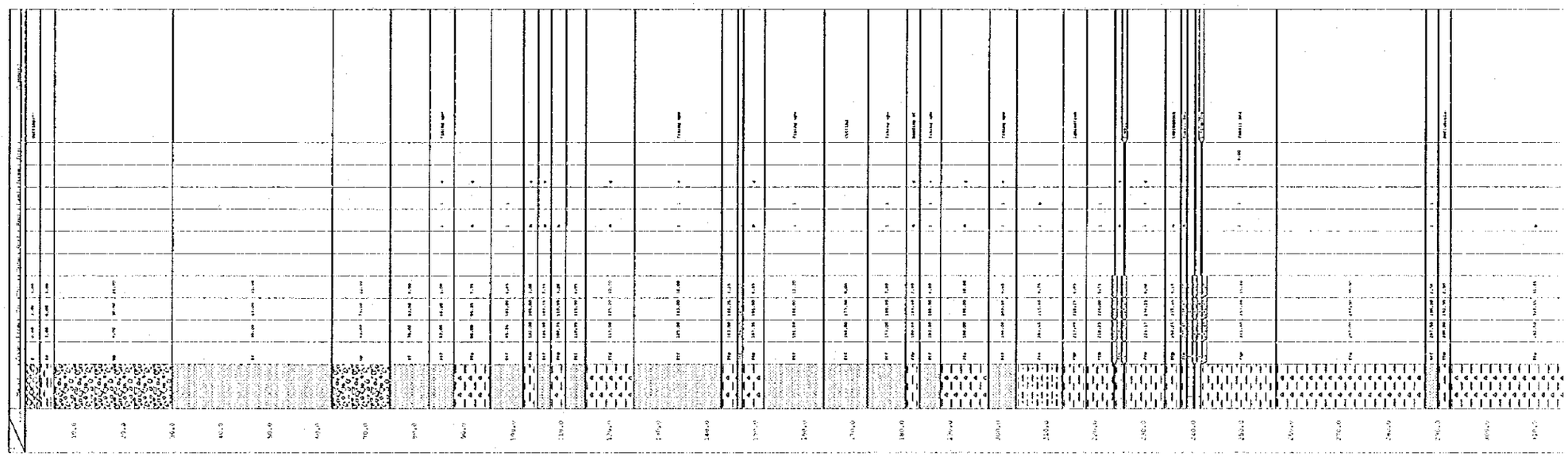
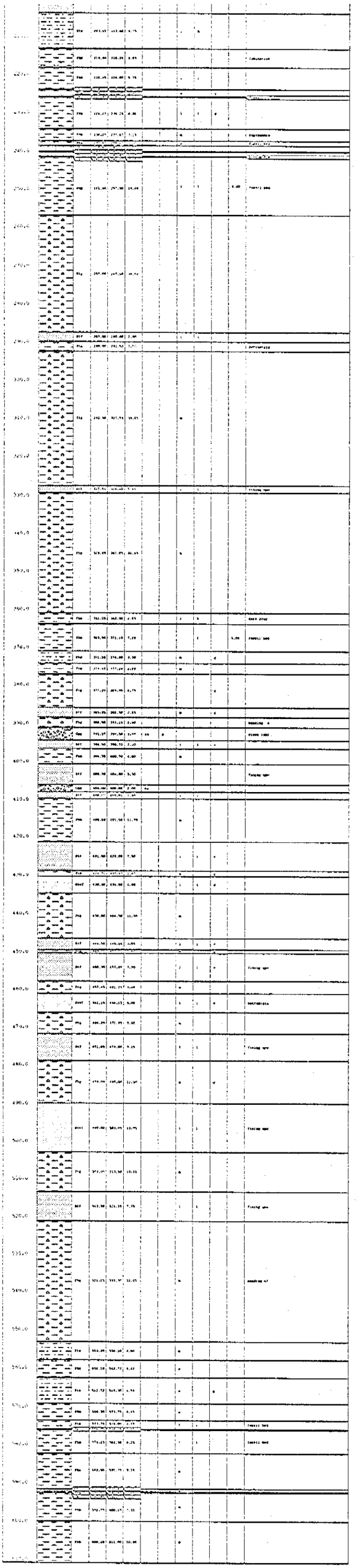
COMPUTATION AND INTERPRETATION IN
DIVISION
PERMISSION





DEPARTMENT OF MINERAL RESOURCES

COMPANY	DNR
WELL ID	PK 5/49
FIELD	PHRAE BASIN
COUNTRY	STATE THAI LAND

ELEVATION	
TOTAL DEPTH	
DATE	
TYPE OF WELL	
FIELD	
COUNTRY	
STATE	
LOCATION	
SECTION	
TOWNSHIP	
RANGE	
PERMANENT DATUM	
LOG MEASURED FROM	
DRILLING MEASURED FROM	
DATE	
RUN NO.	
TYPE FLUID IN HOLE	
DENSITY	
VISCOSITY	
PH	
FLUID LOSS	
SOURCE OF SAMPLE	
RM @ MEASURED TEMPERATURE	
RMF @ MEASURED TEMPERATURE	
RMC @ MEASURED TEMPERATURE	
SOURCE OF RMF & RMC	
RM @ BHT	
MAXIMUM REC. TEMP.	
TIME SINCE CIRCULATION	
TIME ON BOTTOM	
MAX. REC. TEMP.	
EQUIPMENT NO.	
LOCATION	
RECORDED BY	
WITNESSED BY	

BIT RECORD					CASING RECORD			
NO.	SIZE	FROM	TO		SIZE	WGT.	FROM	TO