

Appendix K

Geophysical Signatures

BRMW-1

COMPANY : STEPAN
WELL : BRMW-1
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP : RANGE :

DATE : 05/16/92
DEPTH DRILLER : 47.5
LOG BOTTOM : 48.50
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 17.5
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

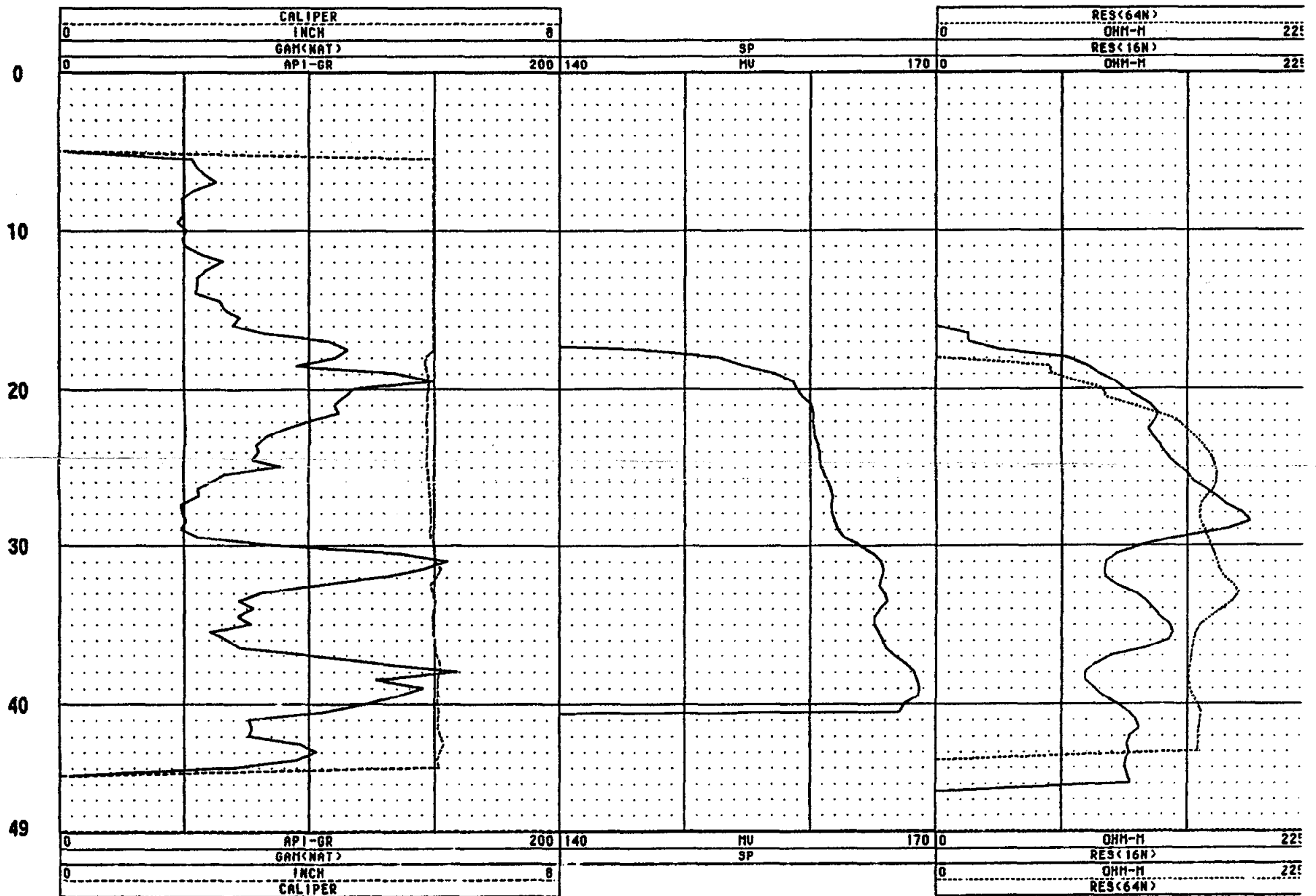
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 90400
LOG : 5
PLOT : STEPAN 1
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-1

COMPANY : STEPAN
WELL : BRMW-1
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/16/92
DEPTH DRILLER : 47.5
LOG BOTTOM : 47.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 17.5
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE
REMARKS :

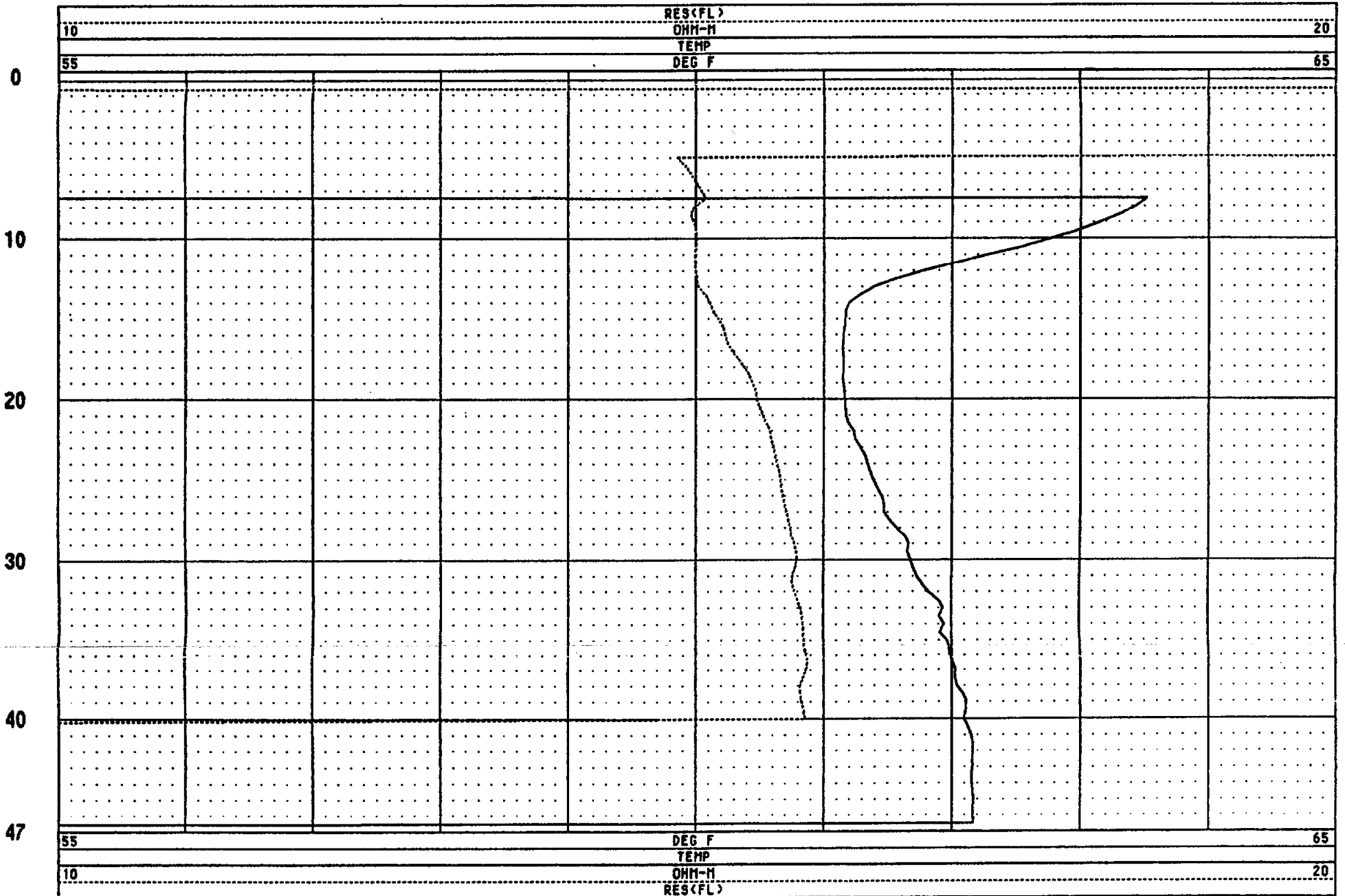
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 7
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-2

COMPANY : STEPAN
WELL : BRMW-2
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP :

RANGE :

DATE : 05/11/92
DEPTH DRILLER : 54
LOG BOTTOM : 51.00
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 18
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

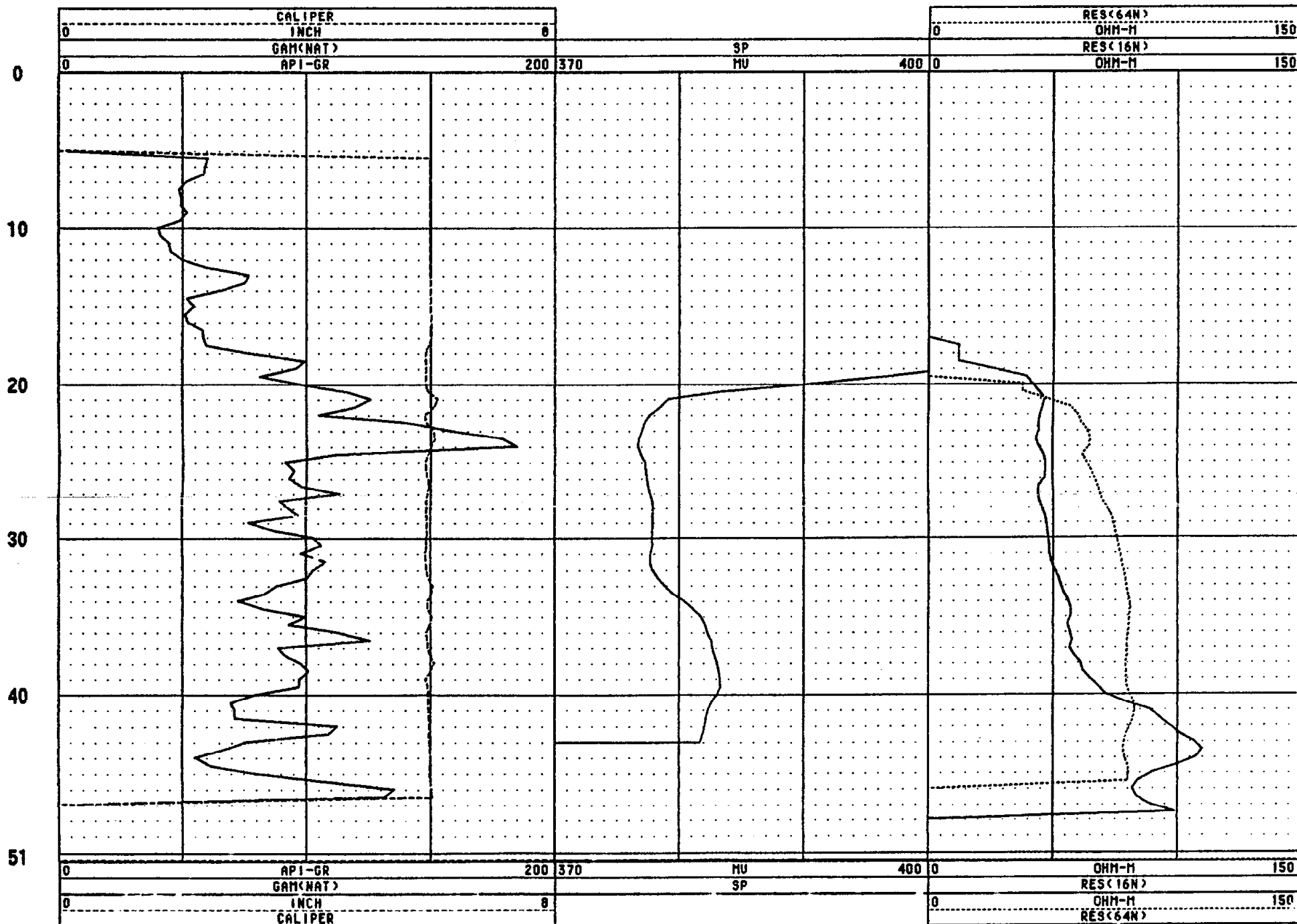
FILE : PROCESSED
TYPE : 9040A
LOG : 0
PLOT : STEPAN 1
THRESH: 2500

REMARKS :

OBSERVER: L. UOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-2

COMPANY : STEPAN
WELL : BRMW-2
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP :

RANGE :

DATE : 05/11/92
DEPTH DRILLER : 54
LOG BOTTOM : 49.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 18
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

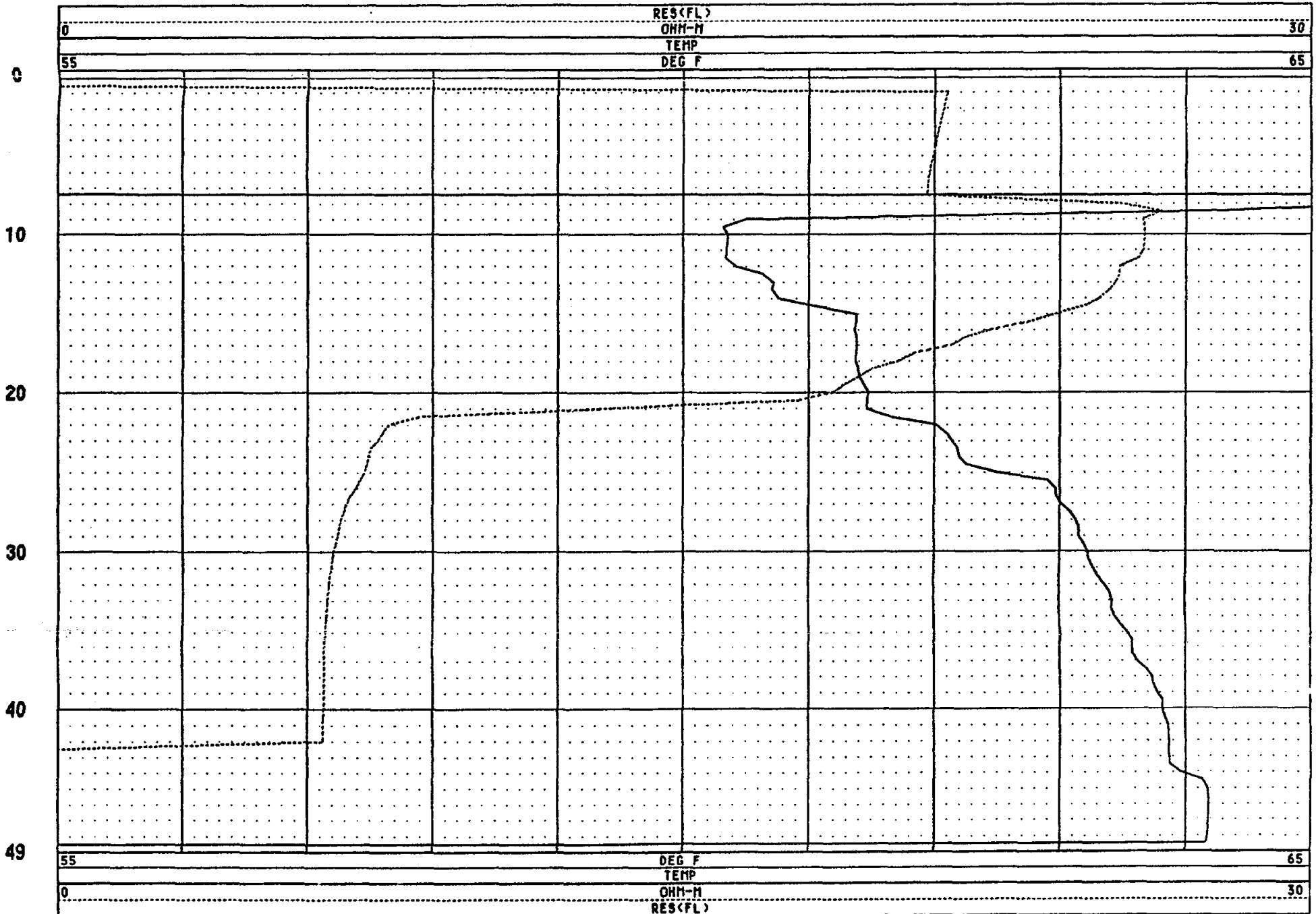
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 2
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-4

COMPANY : STEPAN
WELL : BRMW-4
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP : RANGE :

DATE : 05/16/92
DEPTH DRILLER : 54
LOG BOTTOM : 56.00
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 24
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

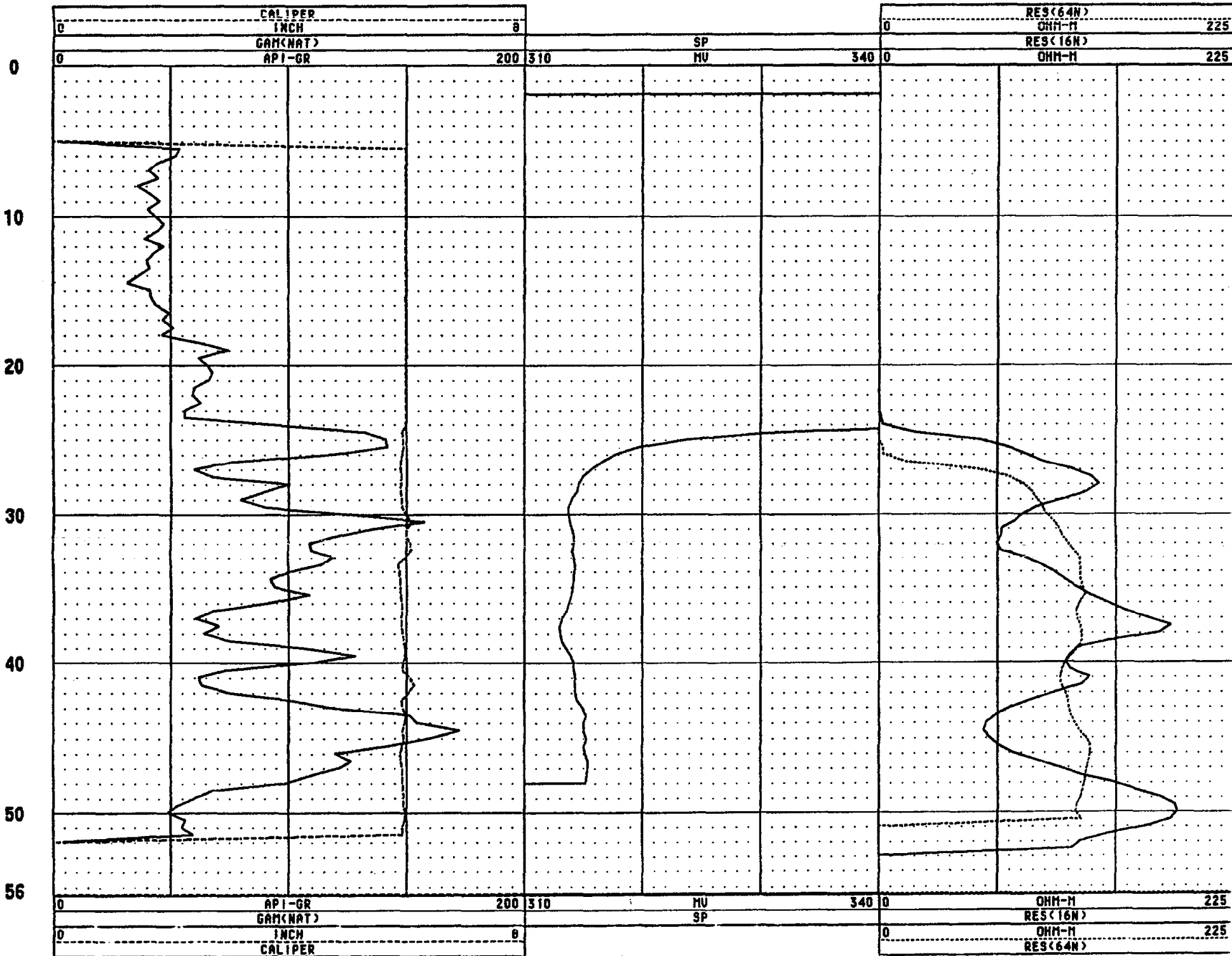
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 5
PLOT : STEPAN 1
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-4

COMPANY : STEPAN
WELL : BRMW-4
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP :

RANGE :

DATE : 85/16/92
DEPTH DRILLER : 54
LOG BOTTOM : 54.58
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 24
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE
REMARKS :

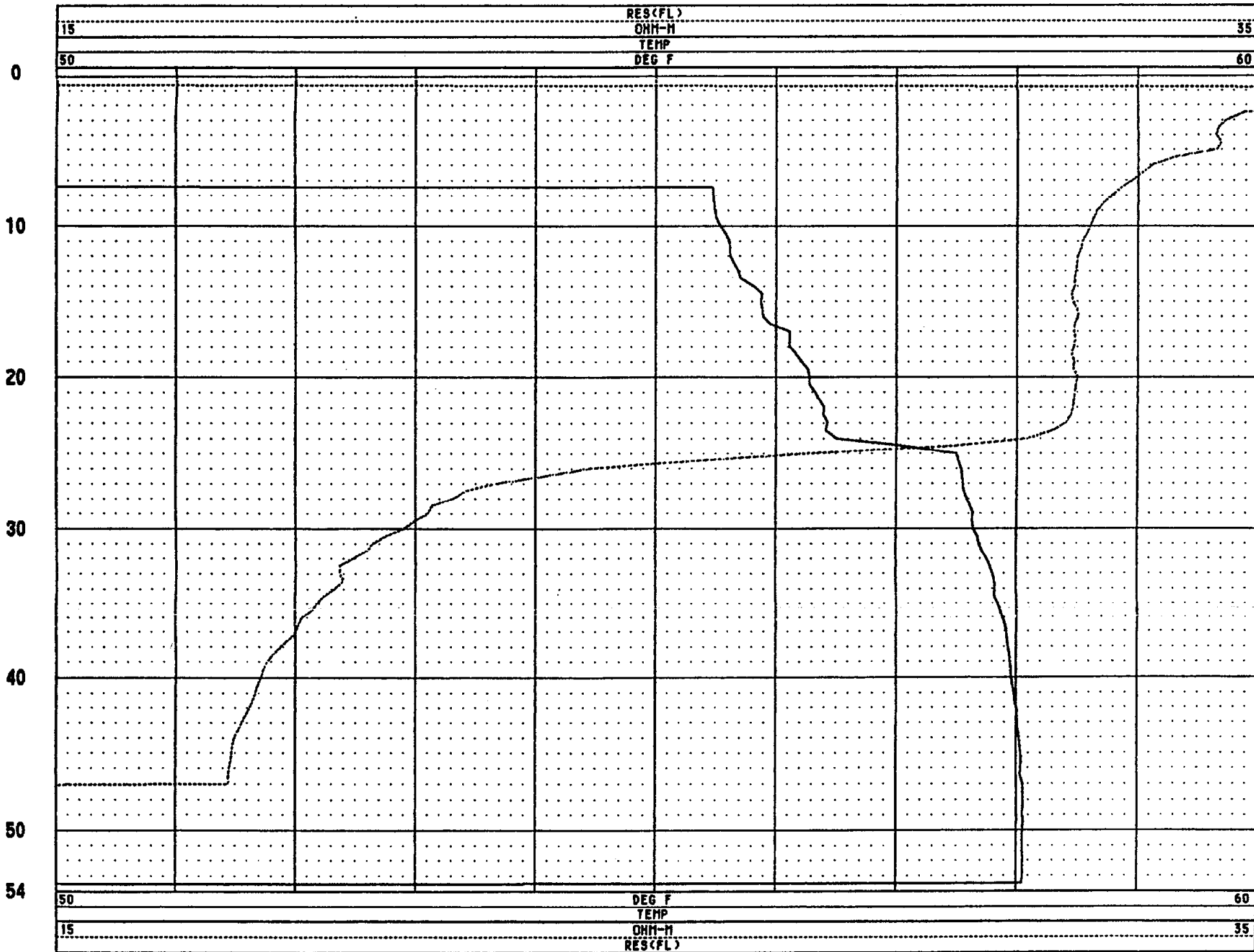
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 7
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. UOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-5

COMPANY : STEPAN
WELL : BRMW-5
LOCATION/FIELD : MAYWOOD/SUNOCO
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP : RANGE :

DATE : 05/12/92
DEPTH DRILLER : 47
LOG BOTTOM : 48.58
LOG TOP : 0.58

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 17
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

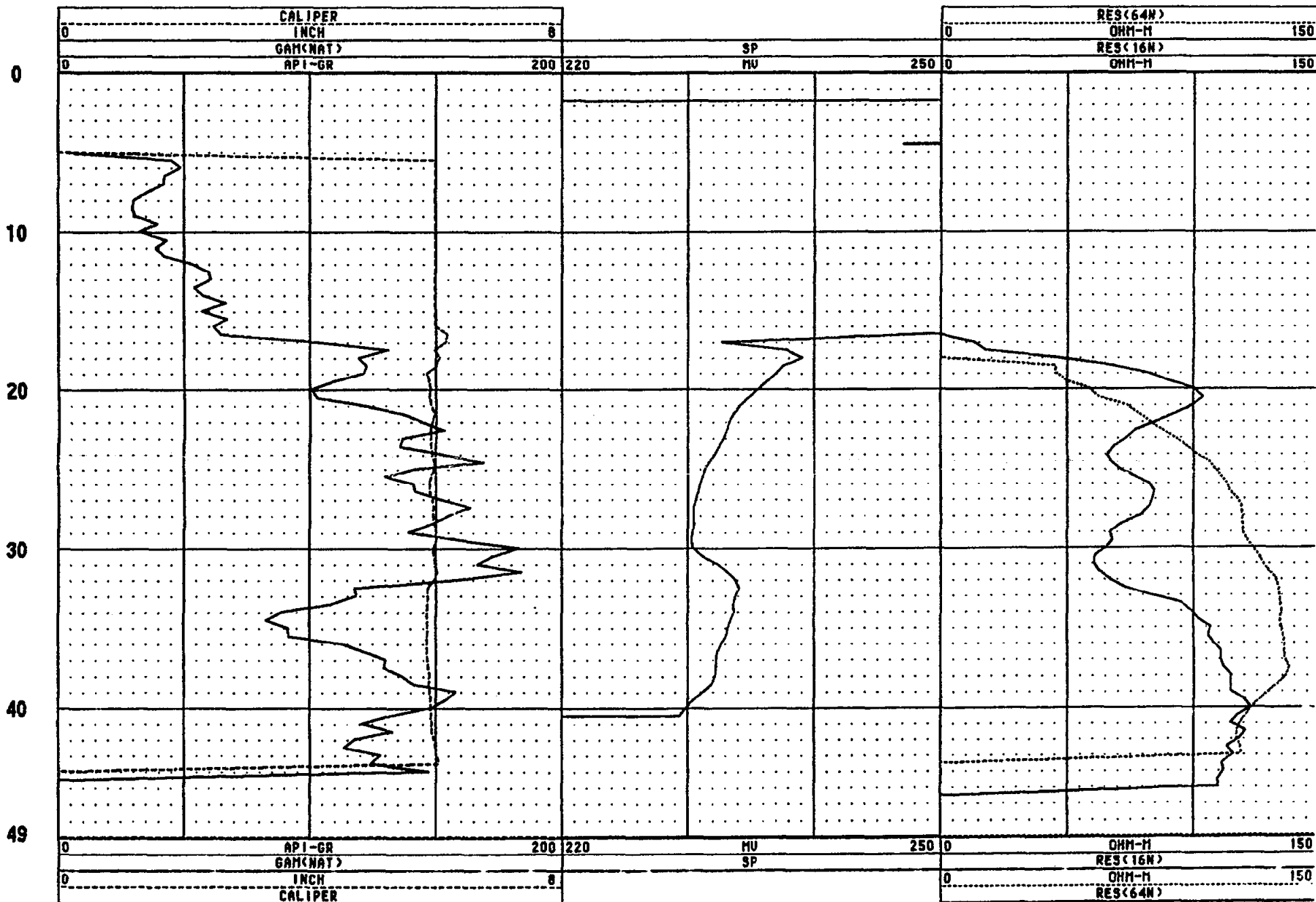
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 1
PLOT : STEPAN 1
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-5

COMPANY : STEPAN
WELL : BRMW-5
LOCATION/FIELD : MAYWOOD/SUNOCO
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP :

RANGE :

DATE : 05/12/92
DEPTH DRILLER : 47
LOG BOTTOM : 47.00
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 17
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

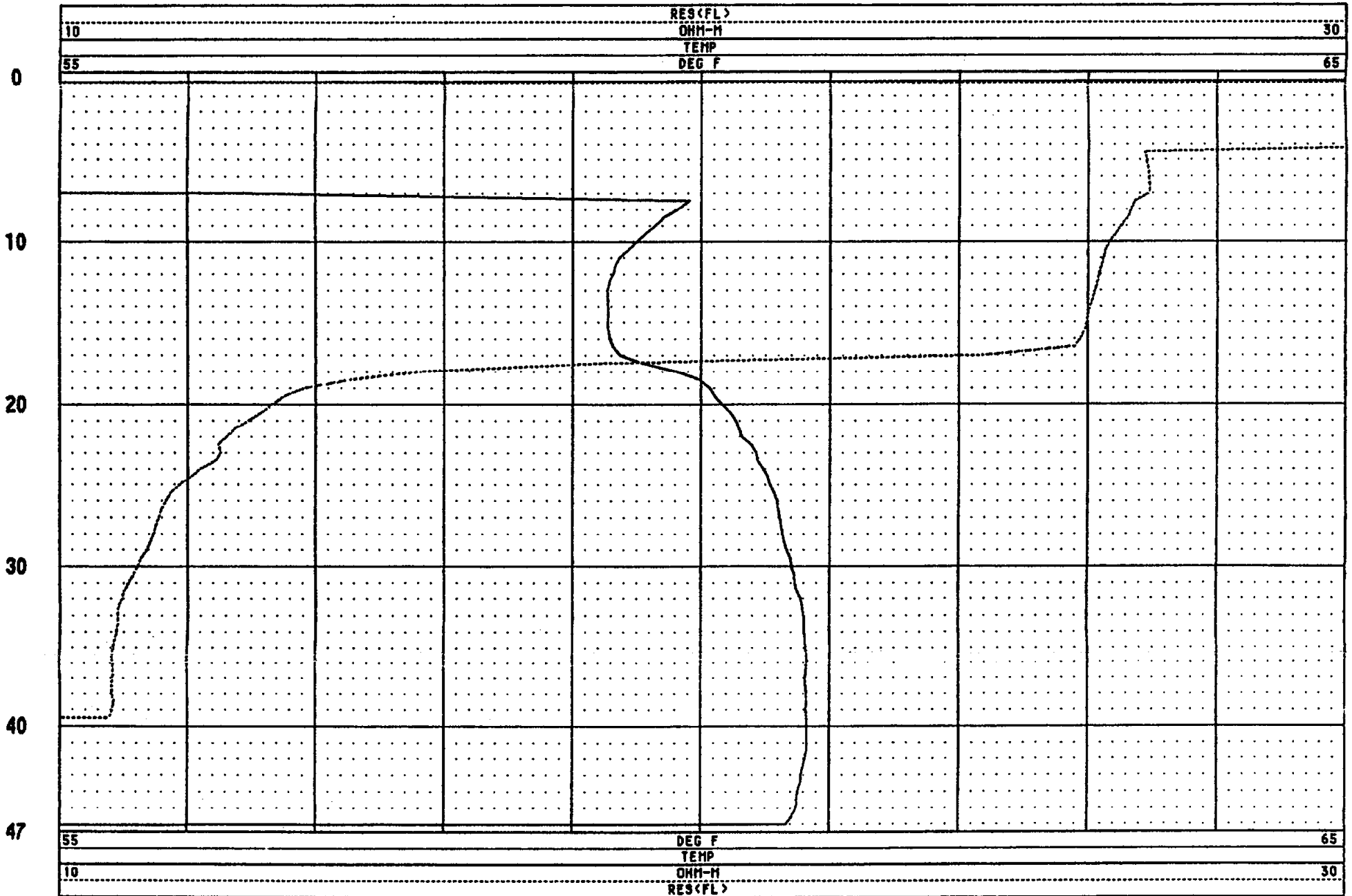
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 2
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-6

COMPANY : STEPAN
WELL : BRMW-6
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP : RANGE :

DATE : 05/16/92
DEPTH DRILLER : 45
LOG BOTTOM : 45.50
LOG TOP : 1.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 15
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

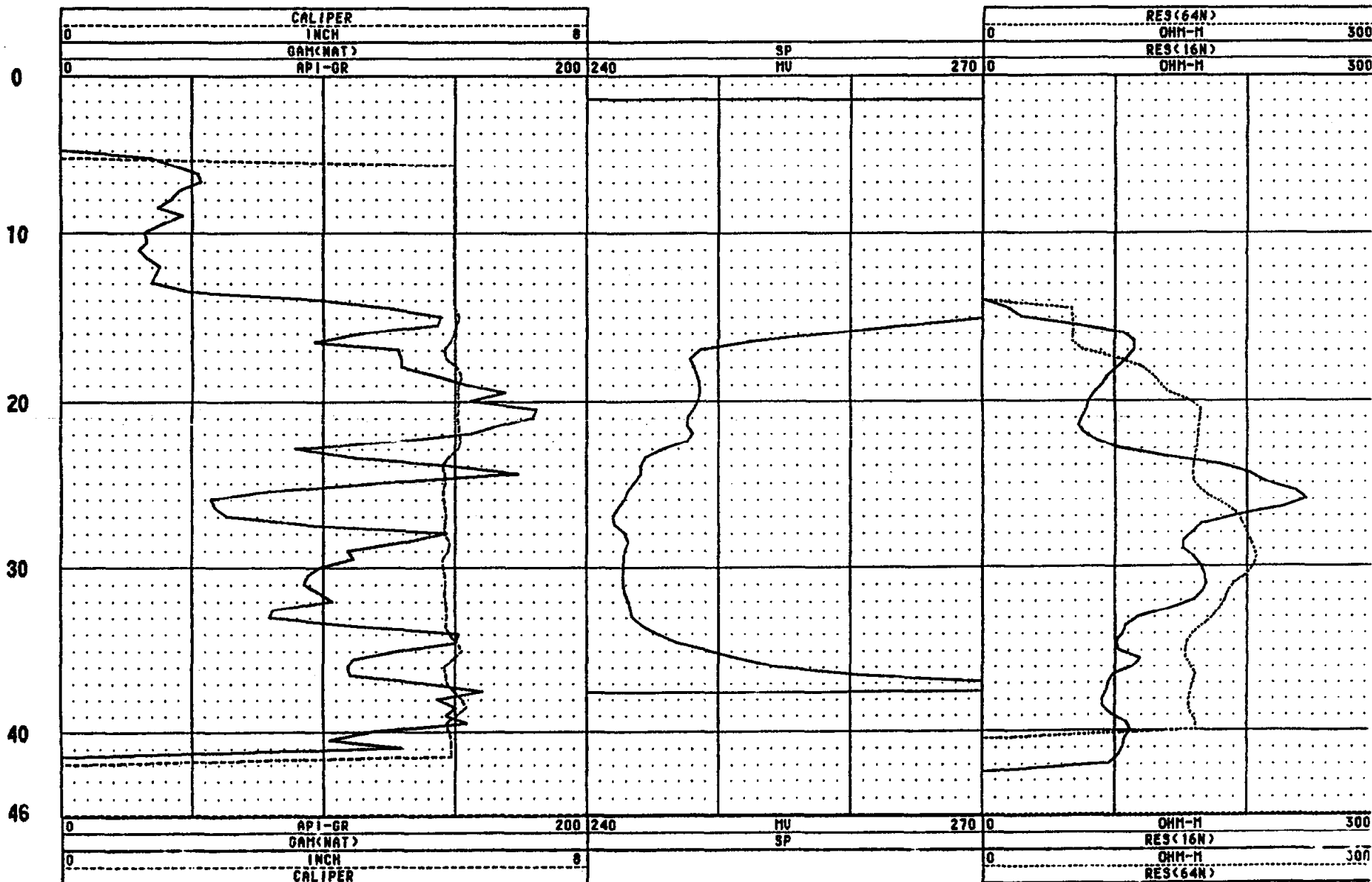
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.6
NEUTRON MATRIX : LIMESTONE
REMARKS :

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 90400
LOG : 1
PLOT : STEPAN 1
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-6

COMPANY : STEPAN
WELL : BRMW-6
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/16/92
DEPTH DRILLER : 45
LOG BOTTOM : 44.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 15
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE
REMARKS :

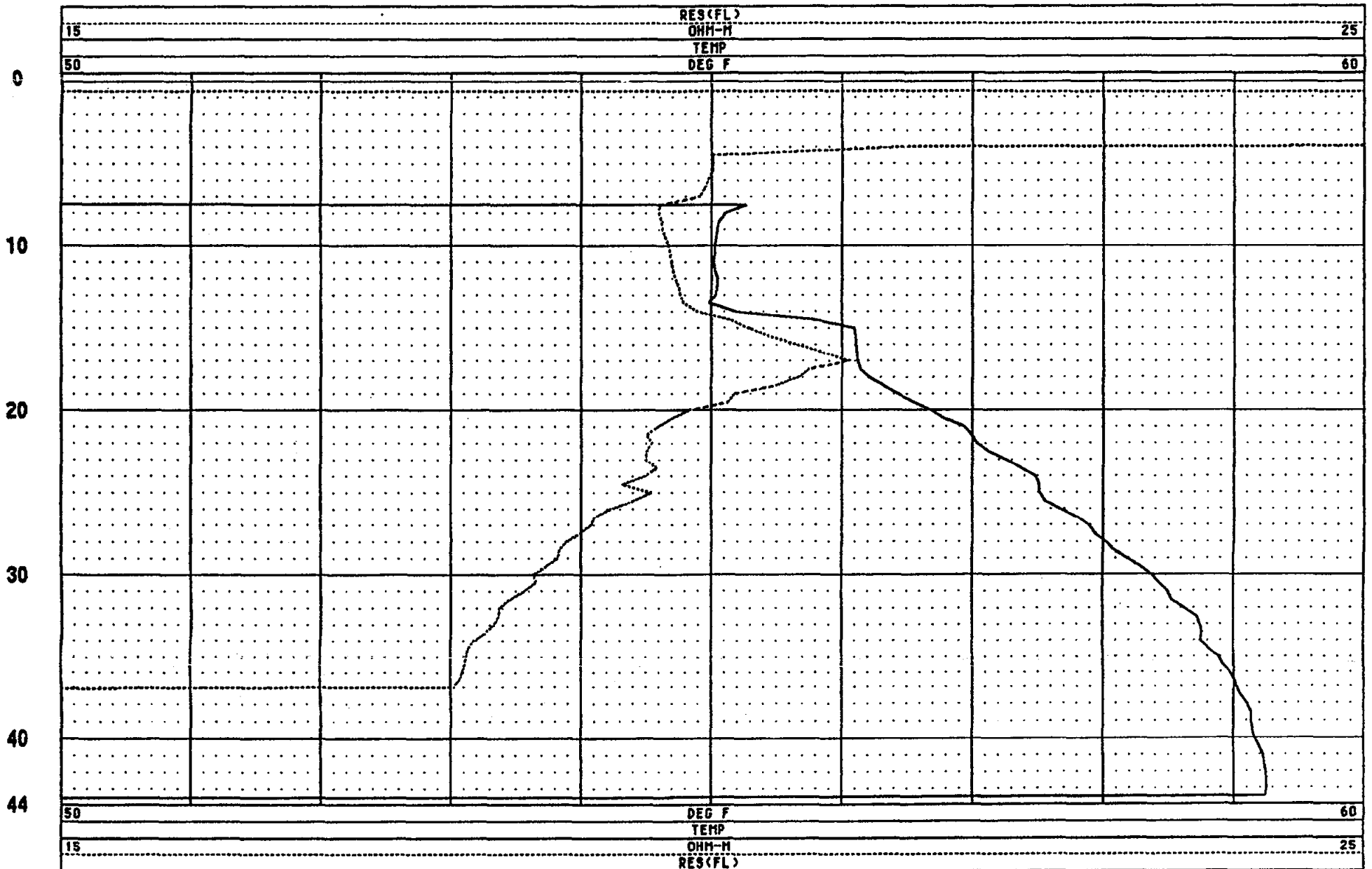
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 2
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-7

COMPANY : STEPAN
WELL : BRMW-7
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP : RANGE :

DATE : 05/15/92
DEPTH DRILLER : 56
LOG BOTTOM : 57.50
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 26
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE
REMARKS :

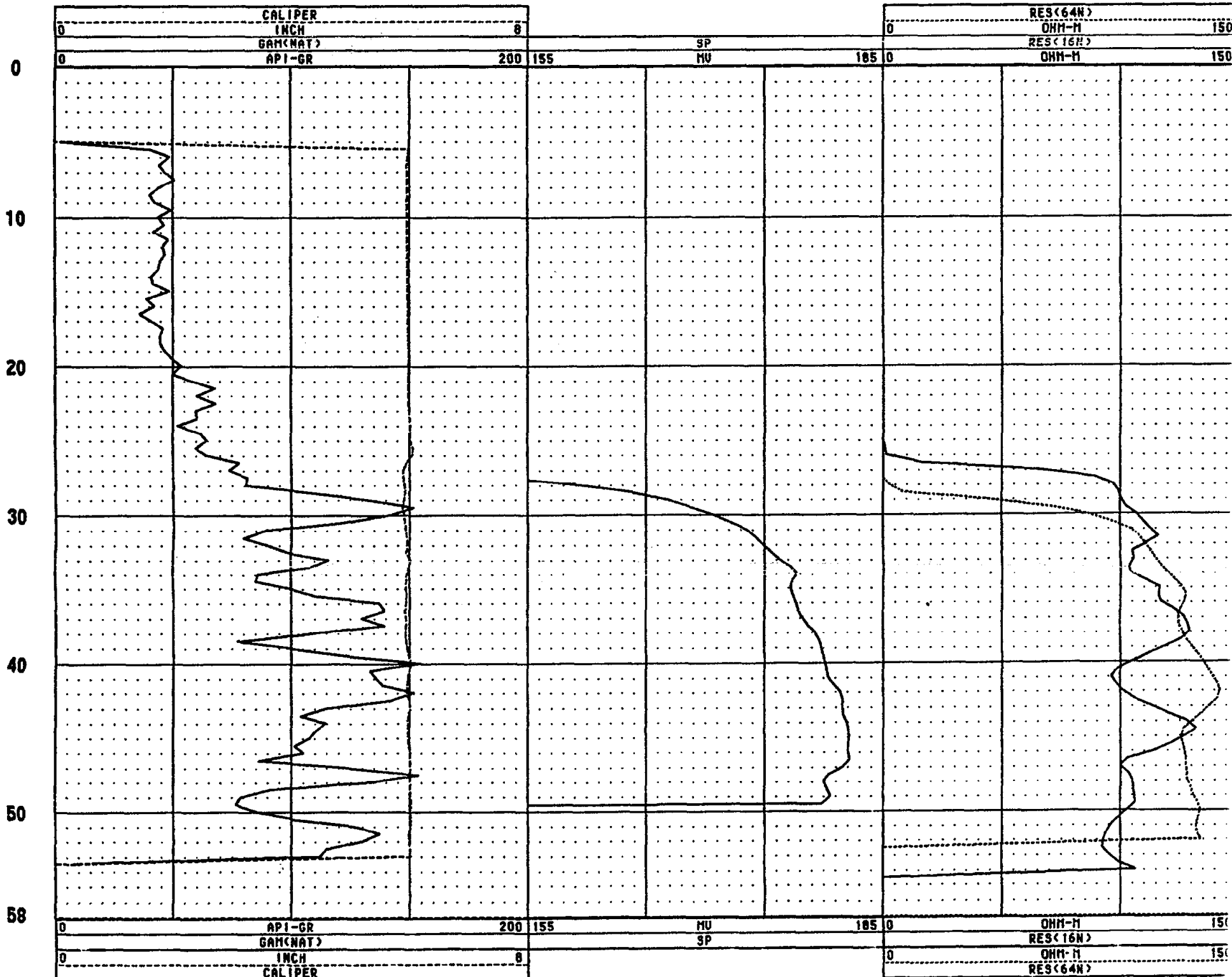
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 5
PLOT : STEPAN 1
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-7

COMPANY : STEPAN
WELL : BRMW-7
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/15/92
DEPTH DRILLER : 56
LOG BOTTOM : 56.00
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 26
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE
REMARKS :

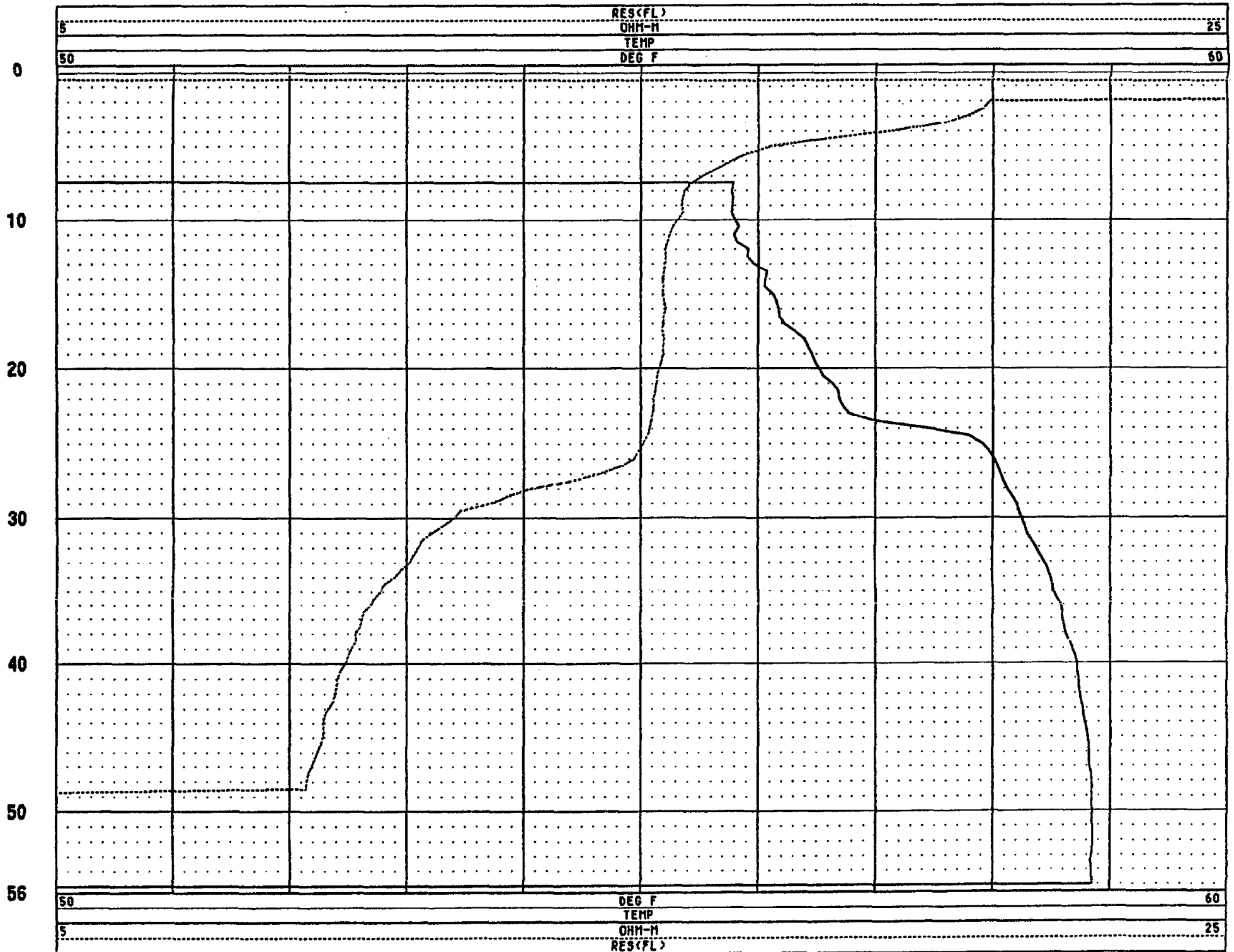
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 7
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-8

COMPANY : STEPAN
WELL : BRMW-8
LOCATION/FIELD : MAYWOOD/S.W.S.
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP :

RANGE :

DATE : 05/12/92
DEPTH DRILLER : 60
LOG BOTTOM : 61.50
LOG TOP : 1.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 30
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

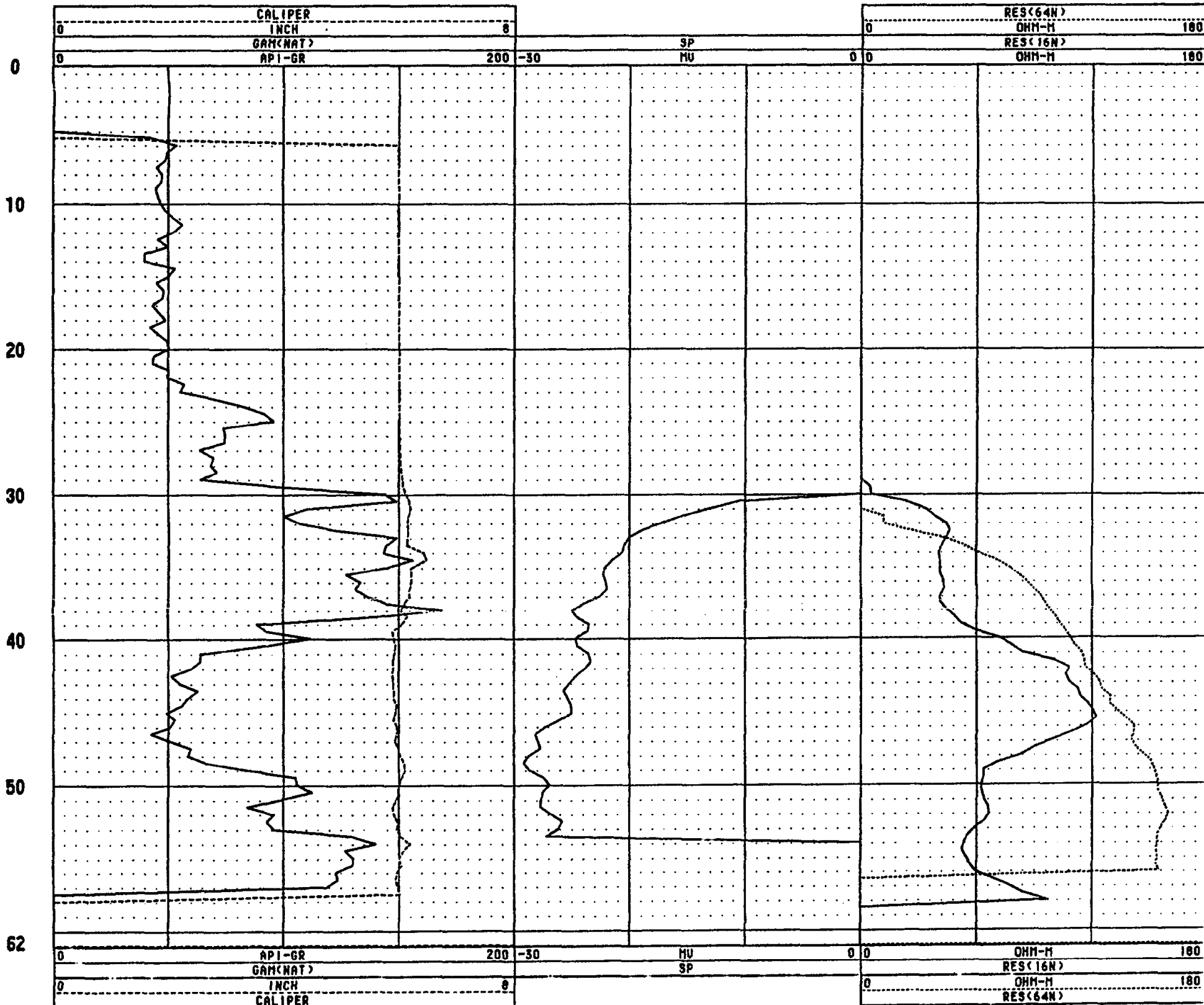
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 5
PLOT : STEPAN 1
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-8

COMPANY : STEPAN
WELL : BRMW-8
LOCATION/FIELD : MAYWOOD/S.W.S.
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/12/92
DEPTH DRILLER : 60
LOG BOTTOM : 60.00
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 30
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK

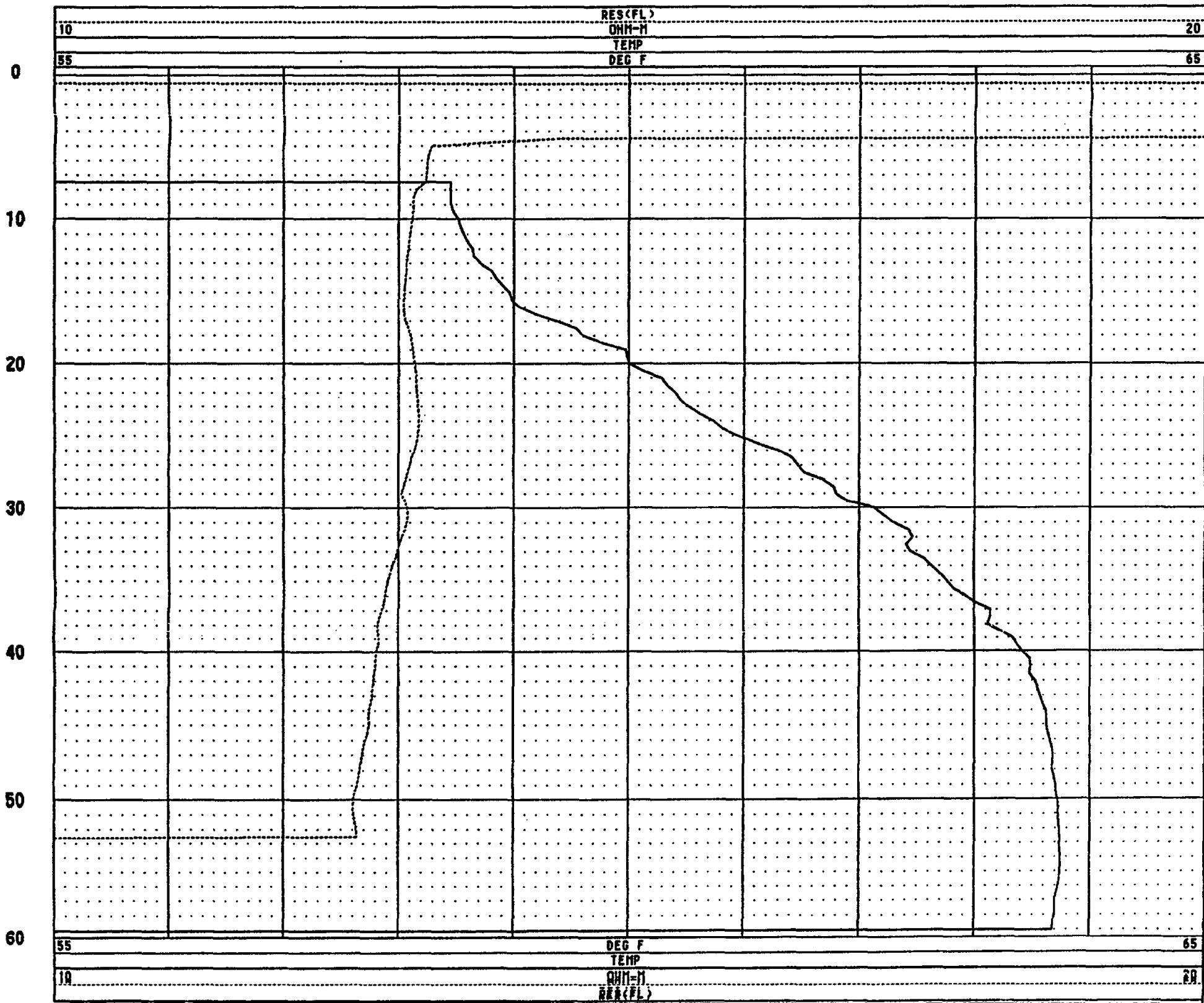
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 7
PLOT : STEPAN 2
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-9

COMPANY : STEPAN
WELL : BRMW-9
LOCATION/FIELD : MAYWOOD/FEDEX
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:

TOWNSHIP : RANGE :

DATE : 05/15/92
DEPTH DRILLER : 30
LOG BOTTOM : 21.50
LOG TOP : 1.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 10
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK

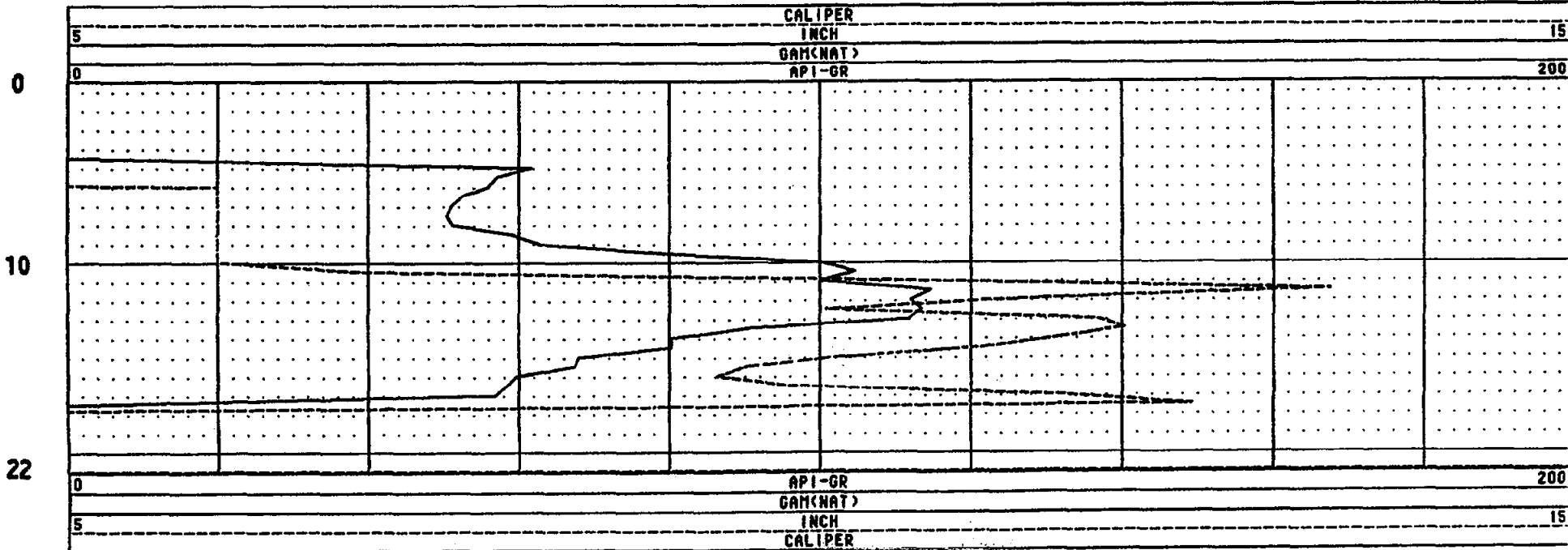
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 90400
LOG : 2
PLOT : STEPAN 0
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED ON BEDROCK MONITOR WELL THAT HAD COLLAPSED. NO WATER PRESENT IN WELL.

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-10

COMPANY : STEPAN
WELL : BRMW-10
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP : RANGE :

DATE : 05/15/92
DEPTH DRILLER : 53
LOG BOTTOM : 51.50
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 23
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK

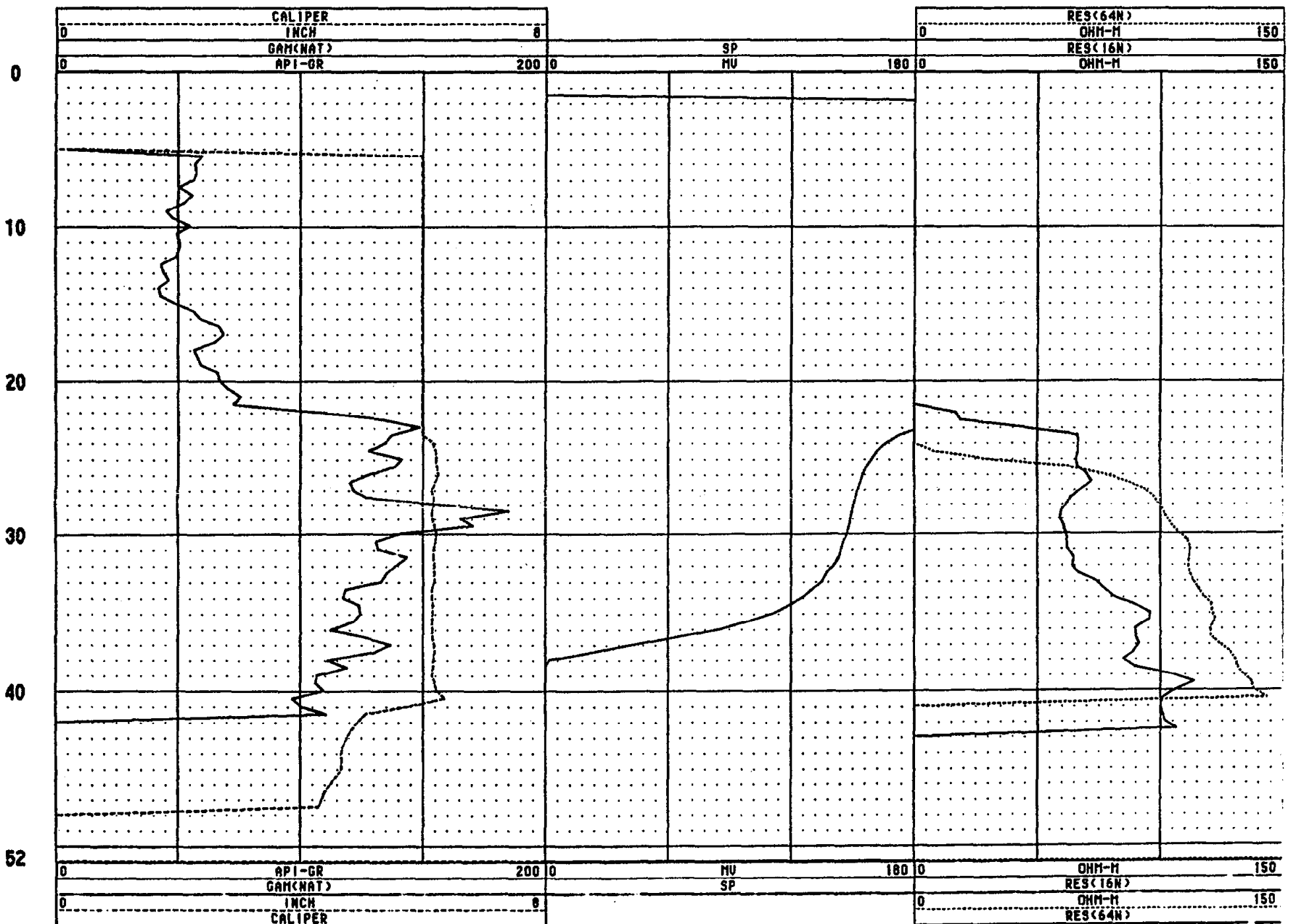
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 5
PLOT : STEPAN 1
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-10

COMPANY : STEPAN
WELL : BRMW-10
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/15/92
DEPTH DRILLER : 53
LOG BOTTOM : 45.00
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 23
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

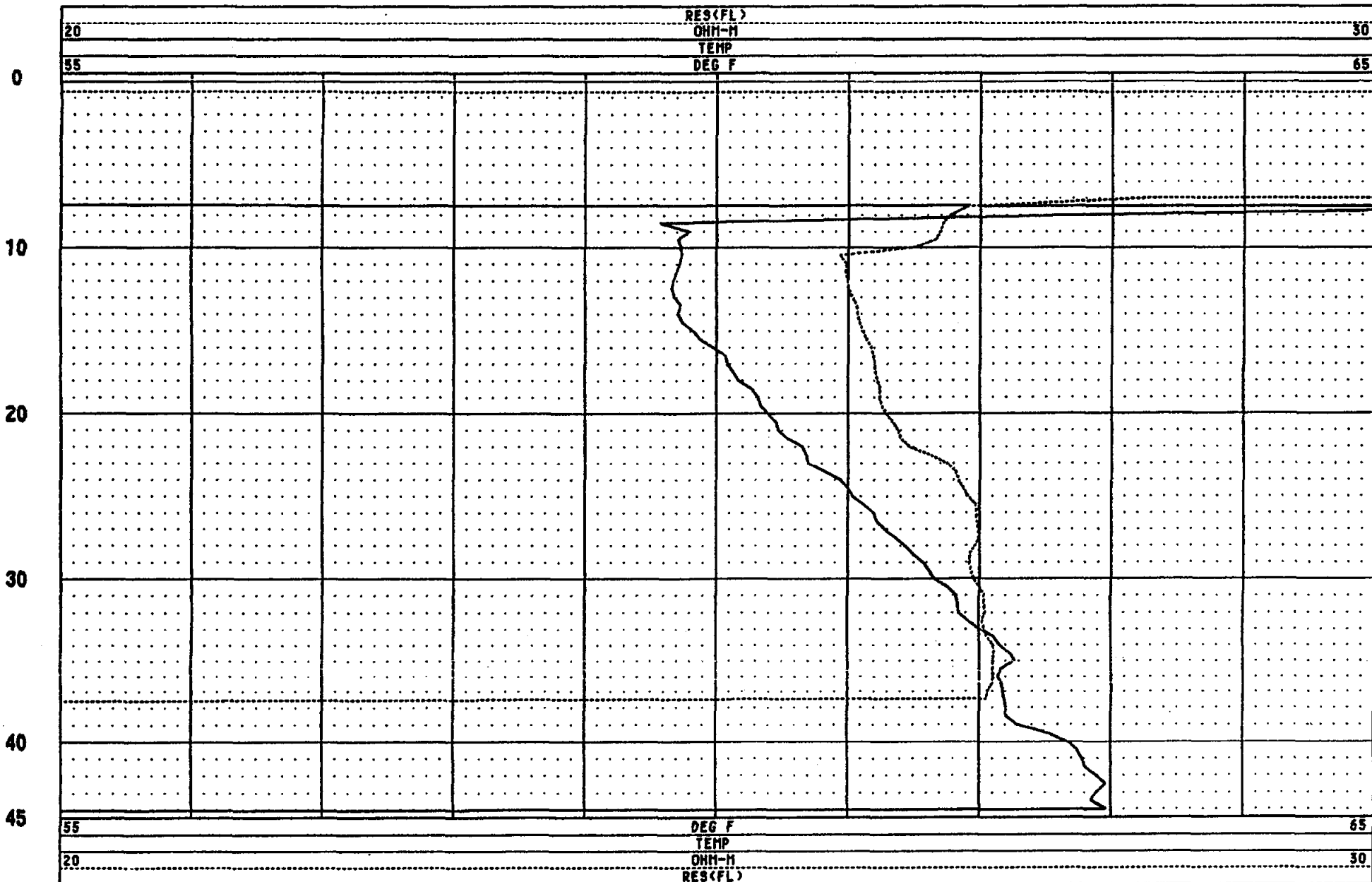
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 7
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-11

COMPANY : STEPAN
WELL : BRMW-11
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP : RANGE :

DATE : 05/14/92
DEPTH DRILLER : 47
LOG BOTTOM : 48.00
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 17
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

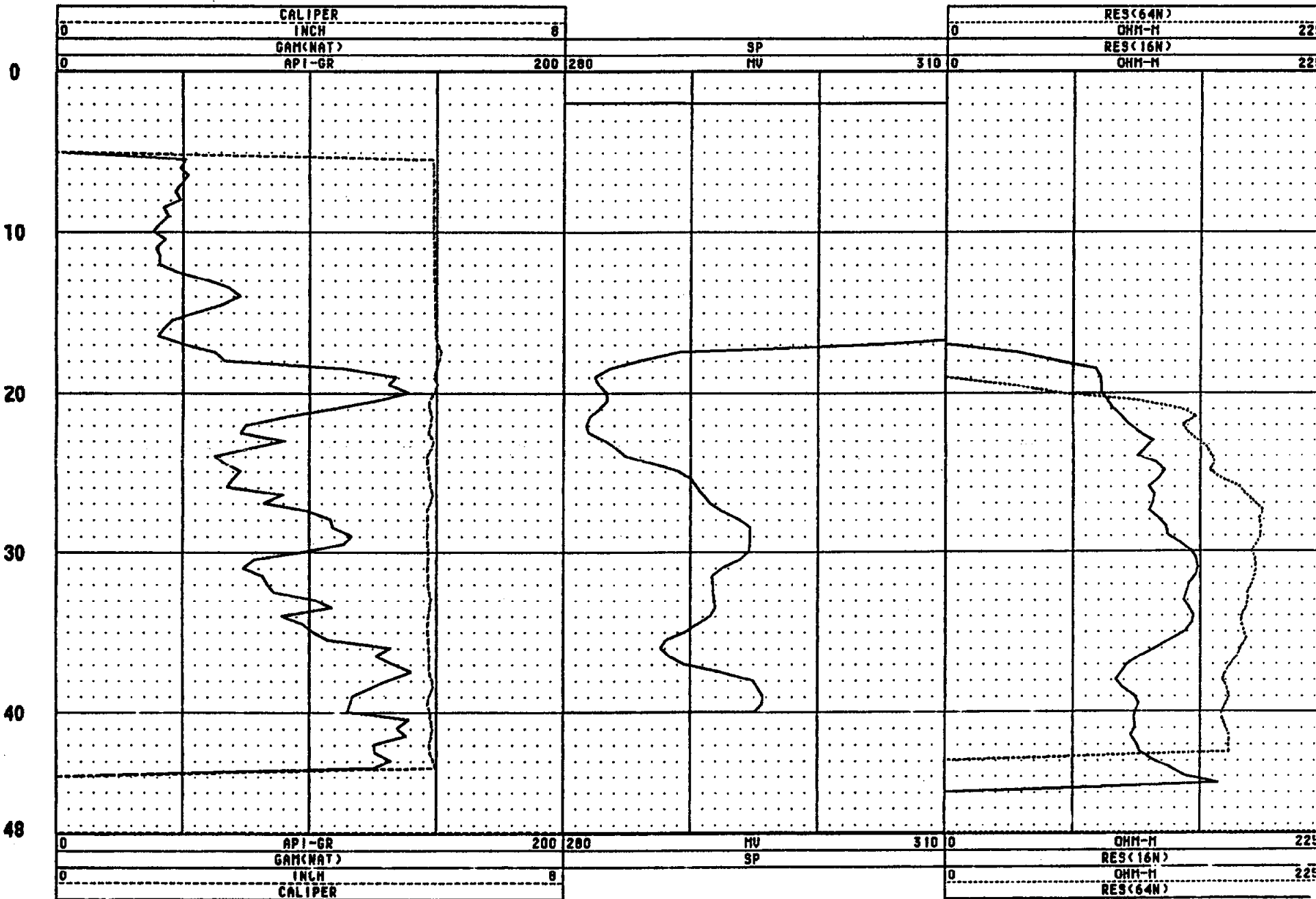
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 5
PLOT : STEPAN 1
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-11

COMPANY : STEPAN
WELL : BRMW-11
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP :

RANGE :

DATE : 05/14/92
DEPTH DRILLER : 47
LOG BOTTOM : 46.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 17
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

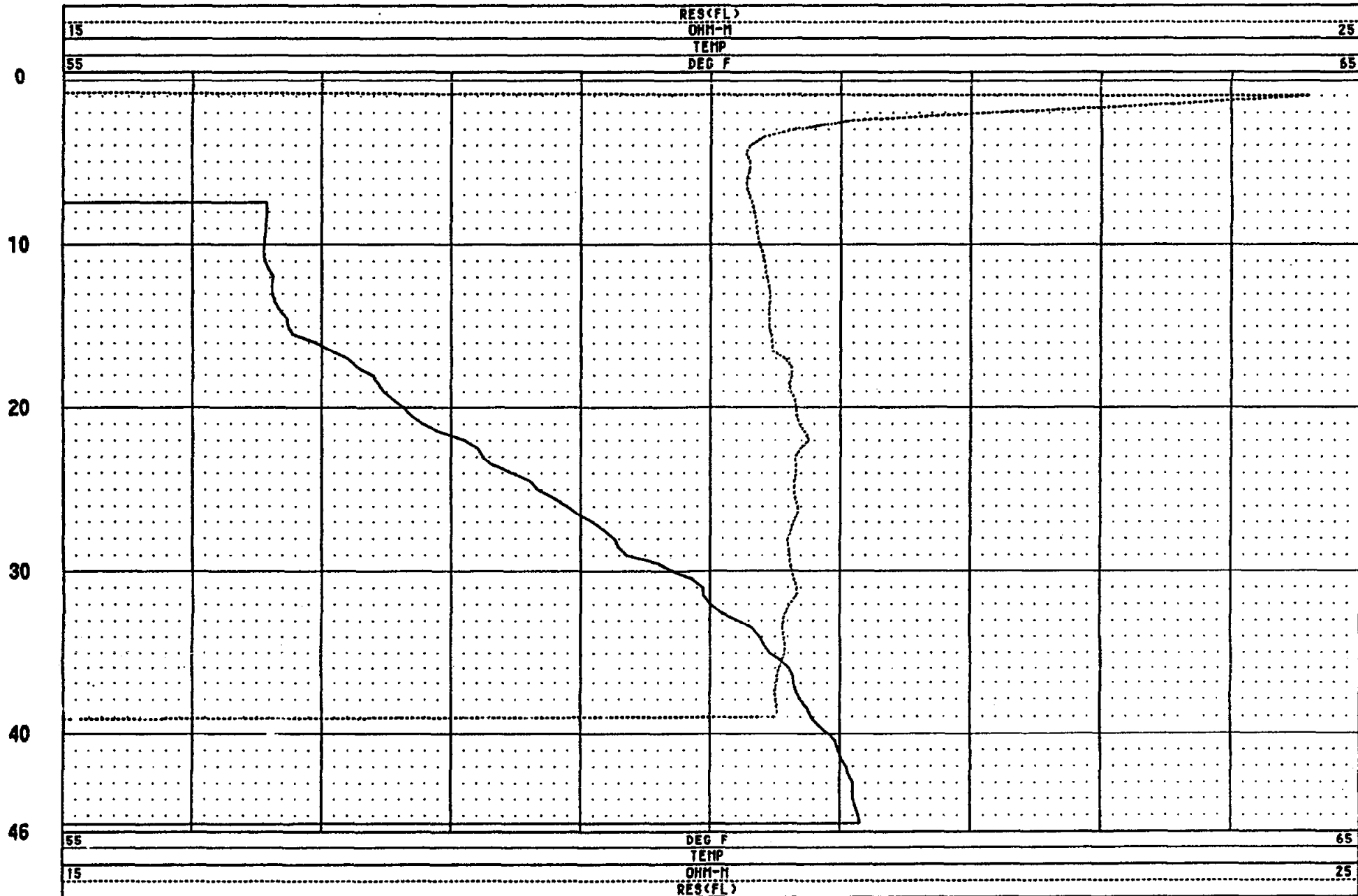
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 90400
LOG : 7
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-12

OTHER SERVICES:
TEMP
FLUIDRES

RANGE :

ELEVATIONS

KB	:
DF	:
GL	:

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

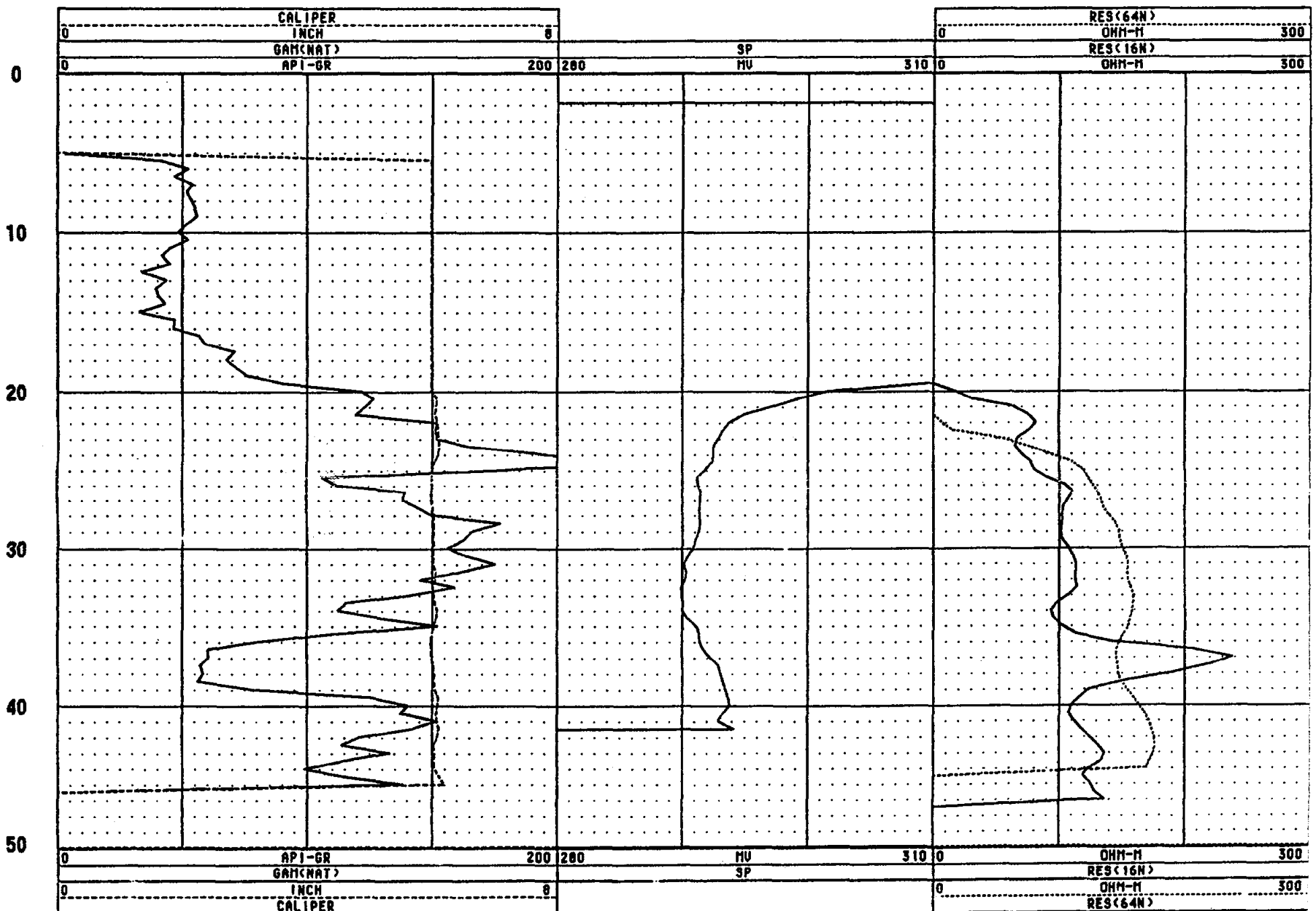
```

FILE  : PROCESSED
TYPE  : 90400
LOG   : 1
PLOT  : STEPAN 1
THRESH: 2500

```

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-12

COMPANY : STEPAN
WELL : BRMW-12
LOCATION/FIELD : MAYWOOD/FEDEX
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP :

RANGE :

DATE : 05/16/92
DEPTH DRILLER : 50
LOG BOTTOM : 48.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 20
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE

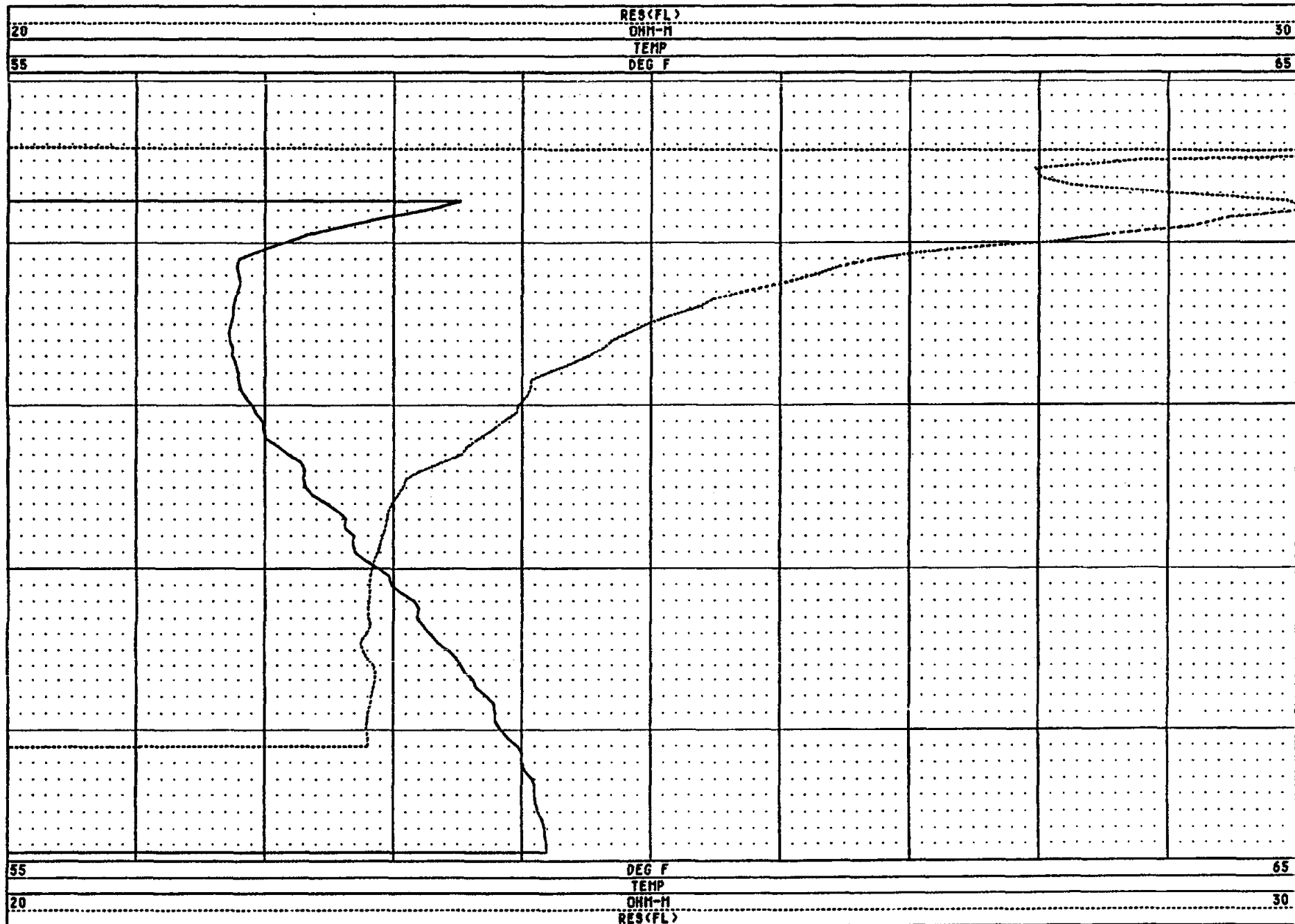
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 2
PLOT : STEPAN 2
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-13

COMPANY : STEPAN
WELL : BRMW-13
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP :

RANGE :

DATE : 05/12/92
DEPTH DRILLER : 51
LOG BOTTOM : 52.00
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 21
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

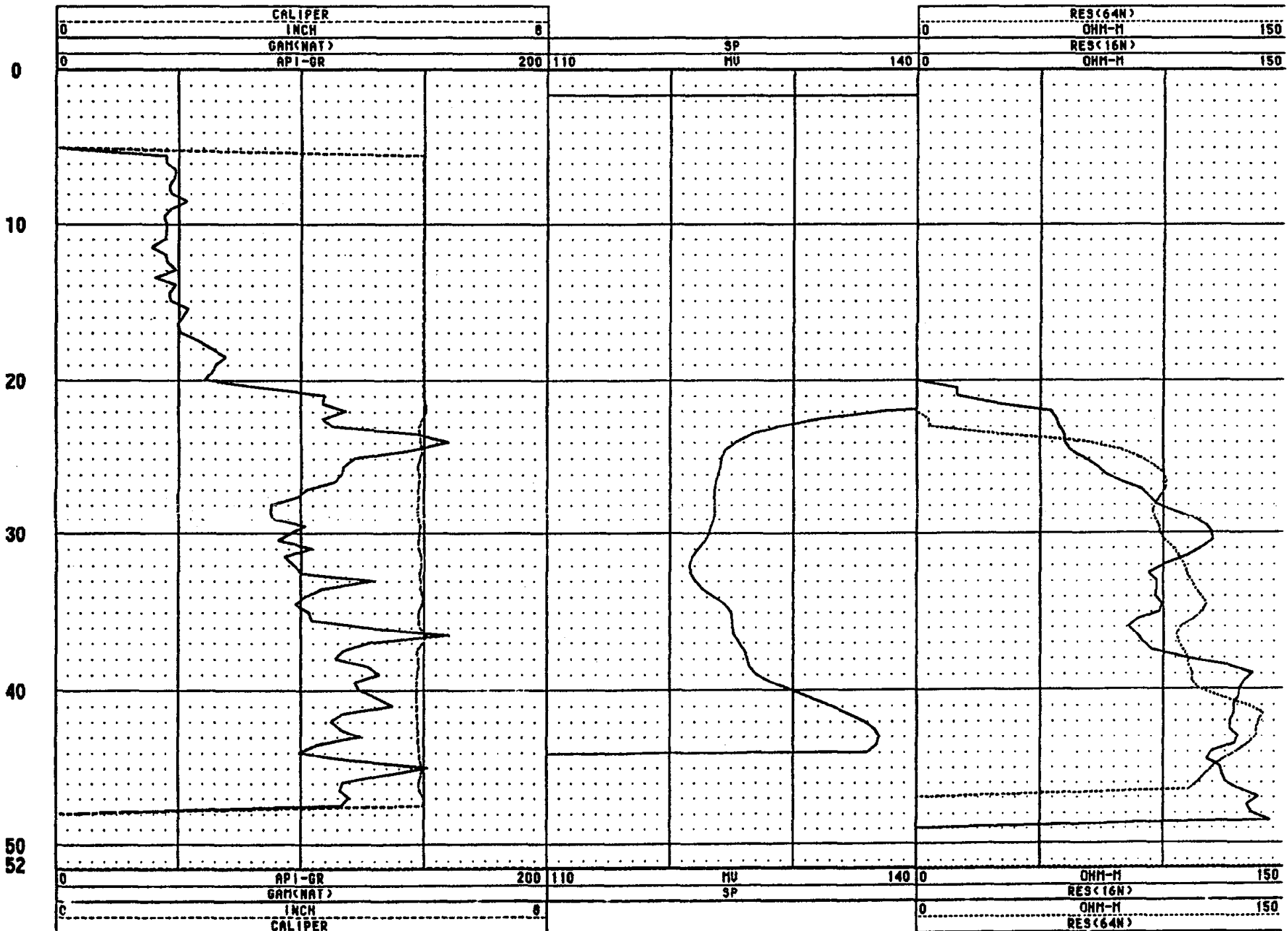
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 5
PLOT : STEPAN 1
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-13

COMPANY : STEPAN
WELL : BRMW-13
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/12/92
DEPTH DRILLER : 51
LOG BOTTOM : 50.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 21
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

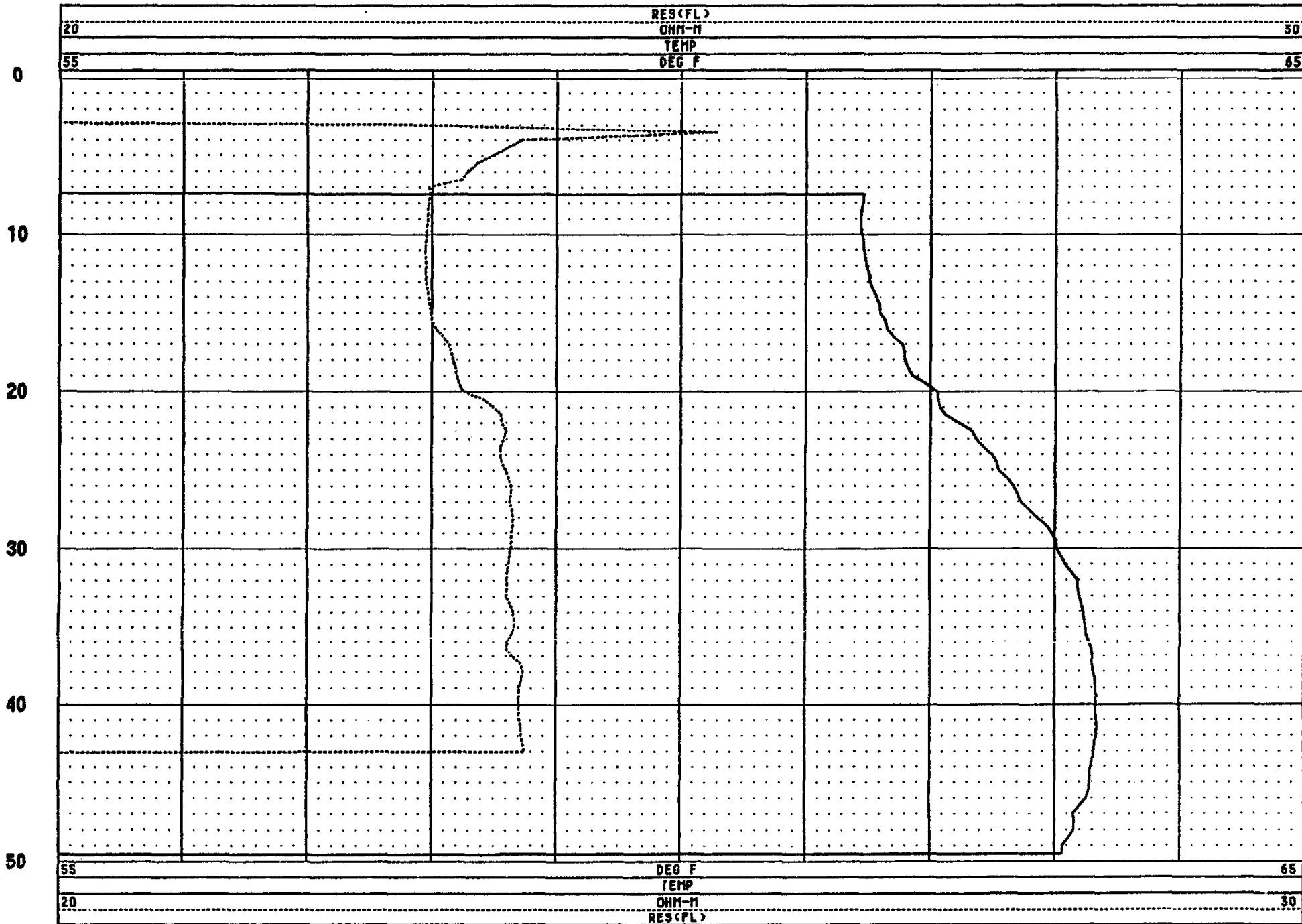
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 7
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-14

COMPANY : STEPAN
WELL : BRMW-14
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP :

RANGE :

DATE : 05/12/92
DEPTH DRILLER : 55
LOG BOTTOM : 56.00
LOG TOP : 1.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 25
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.8
NEUTRON MATRIX : BEDROCK

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

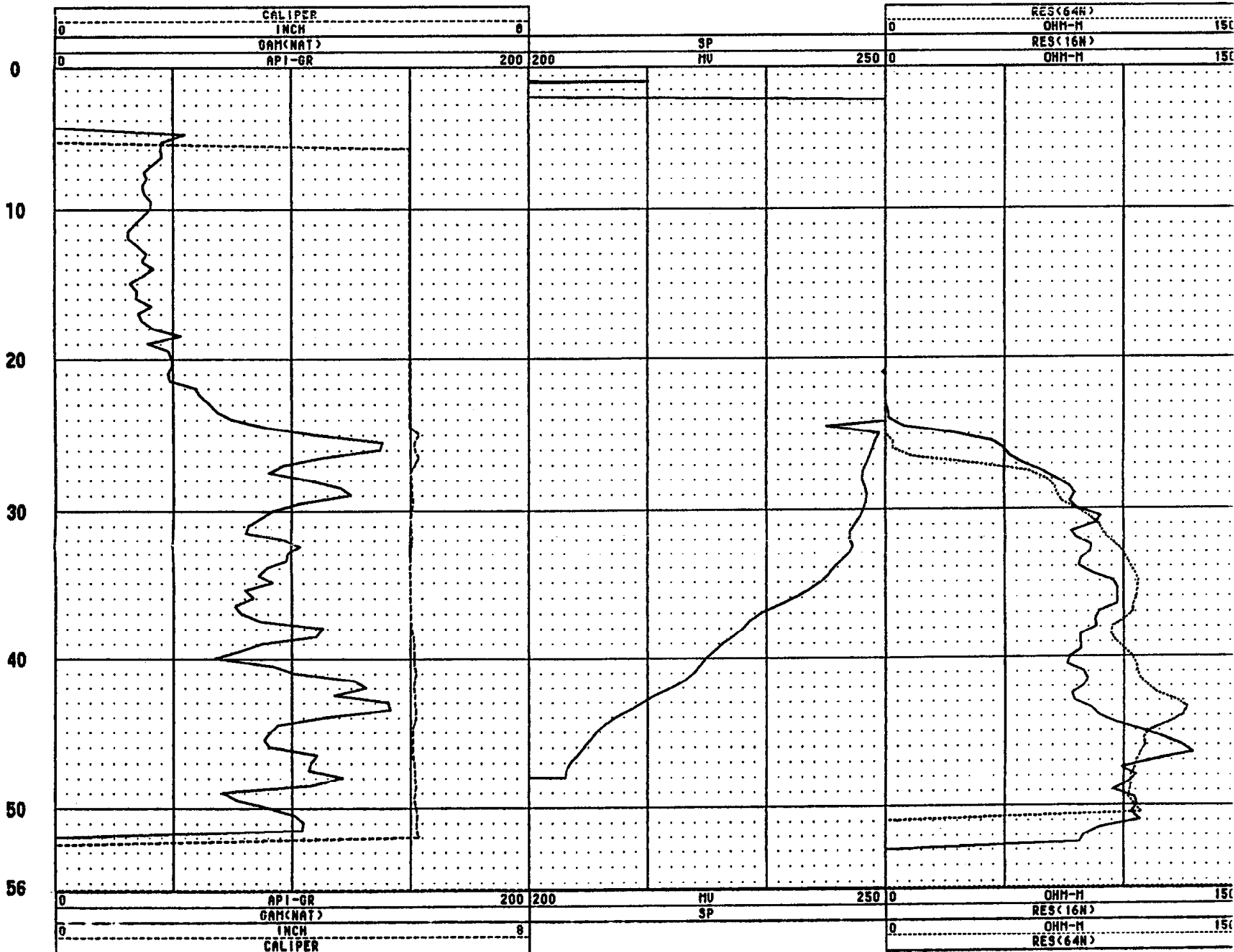
FILE : PROCESSED
TYPE : 9040A
LOG : 1
PLOT : STEPAN 1
THRESH: 2500

REMARKS :

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-14

COMPANY : STEPAN
WELL : BRMW-14
LOCATION/FIELD : MAYWOOD/SEARS
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP :

RANGE :

DATE : 05/12/92
DEPTH DRILLER : 55
LOG BOTTOM : 55.00
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 25
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

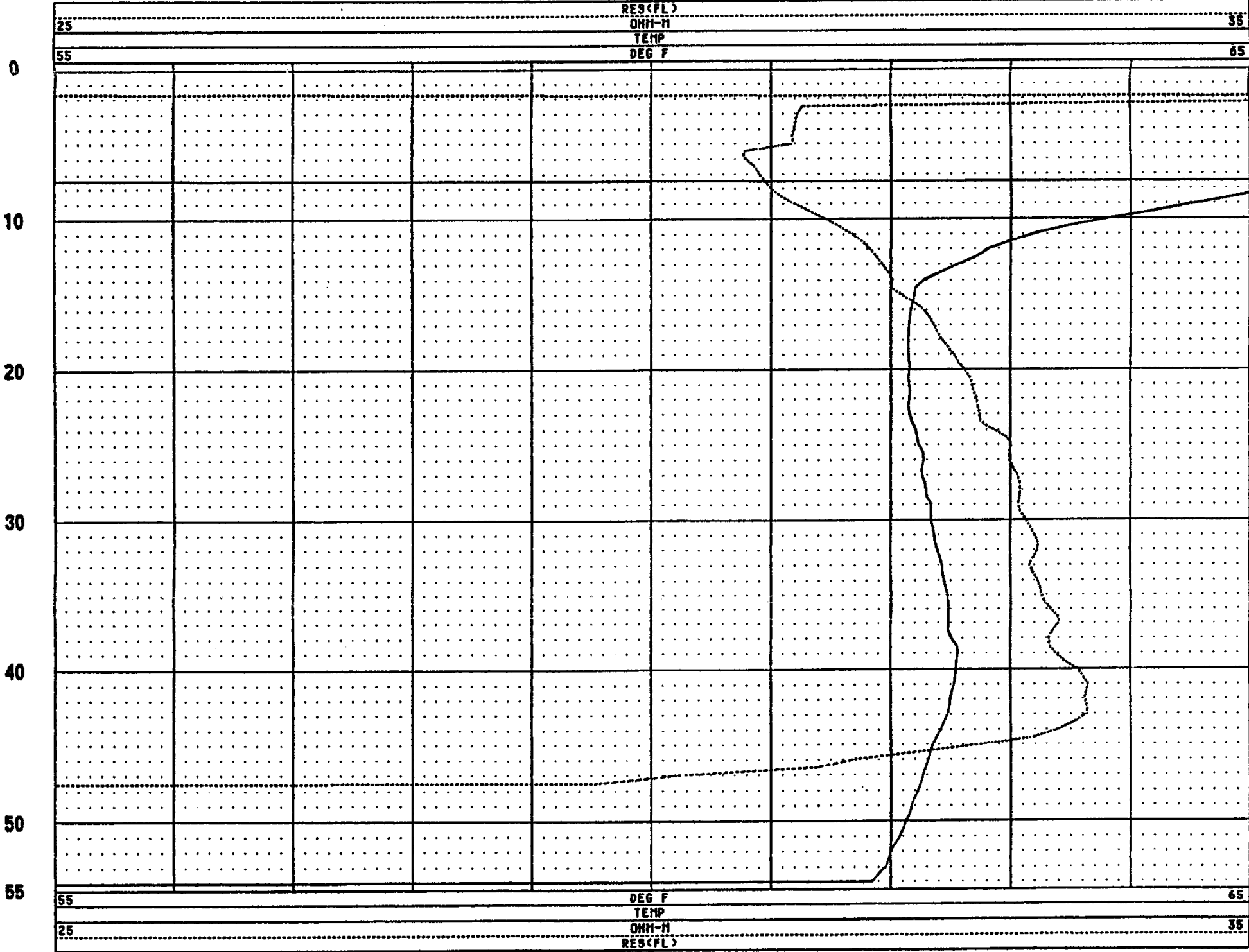
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.8
NEUTRON MATRIX : BEDROCK
REMARKS :

BOREHOLE FLUID : WATER
RM : 8
RM TEMPERATURE : 8
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 90400
LOG : 2
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. UGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-15

COMPANY : STEPAN
WELL : BRMW-15
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP :

RANGE :

DATE : 05/11/92
DEPTH DRILLER : 50
LOG BOTTOM : 49.00
LOG TOP : 1.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 18
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

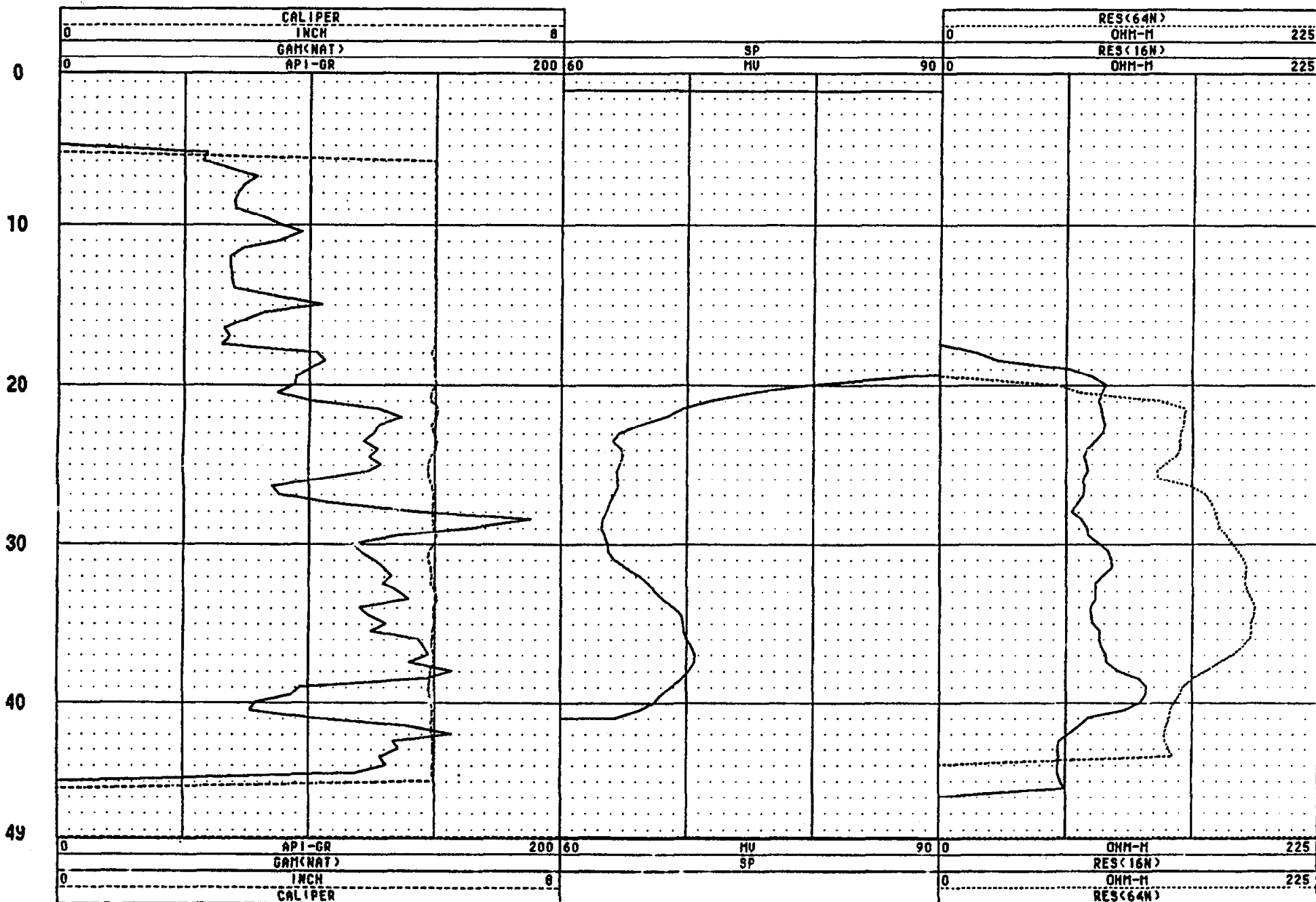
FILE : PROCESSED
TYPE : 90400
LOG : 1
PLOT : STEPAN 1
THRESH: 2500

REMARKS :

OBSERVER: L. UOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-15

COMPANY : STEPAN
WELL : BRMW-15
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/11/92
DEPTH DRILLER : 50
LOG BOTTOM : 47.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 18
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

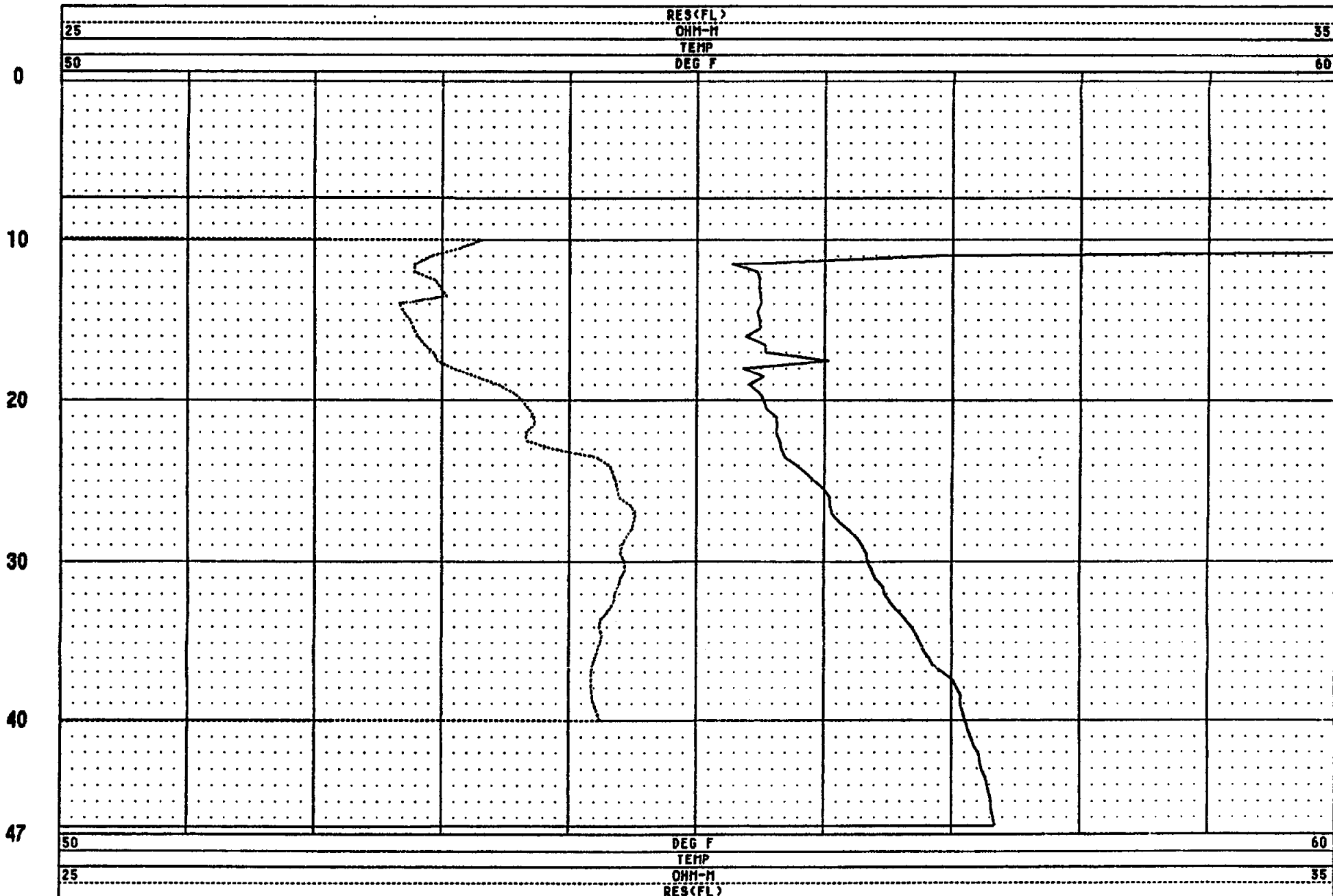
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 2
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-16

COMPANY : STEPAN
WELL : BRMW-16
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP :

RANGE :

DATE : 05/15/92
DEPTH DRILLER : 48
LOG BOTTOM : 48.00
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 18
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

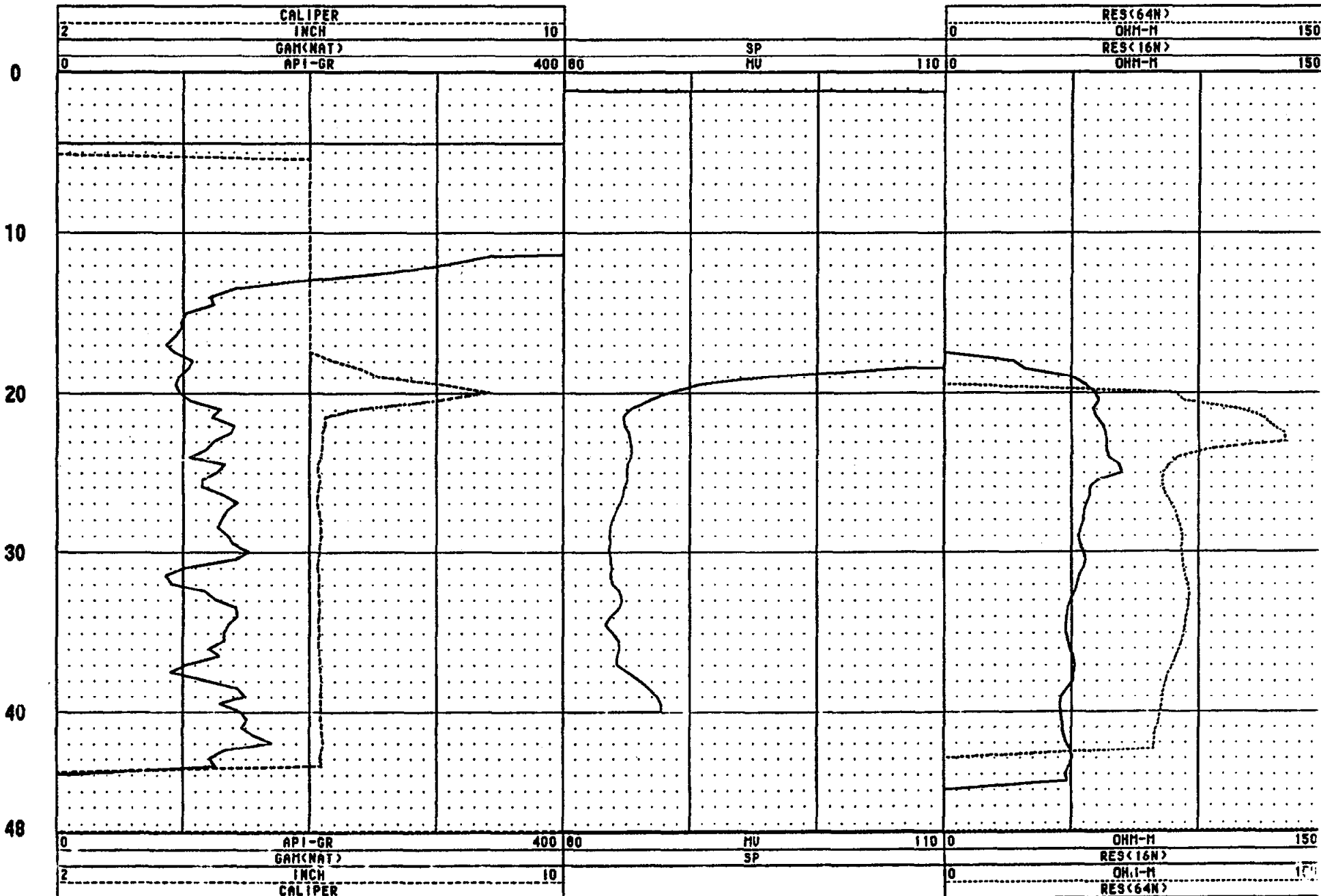
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 1
PLOT : STEPAN 1
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-16

COMPANY : STEPAN
WELL : BRMW-16
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP : RANGE :

DATE : 05/15/92
DEPTH DRILLER : 48
LOG BOTTOM : 47.00
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 18
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

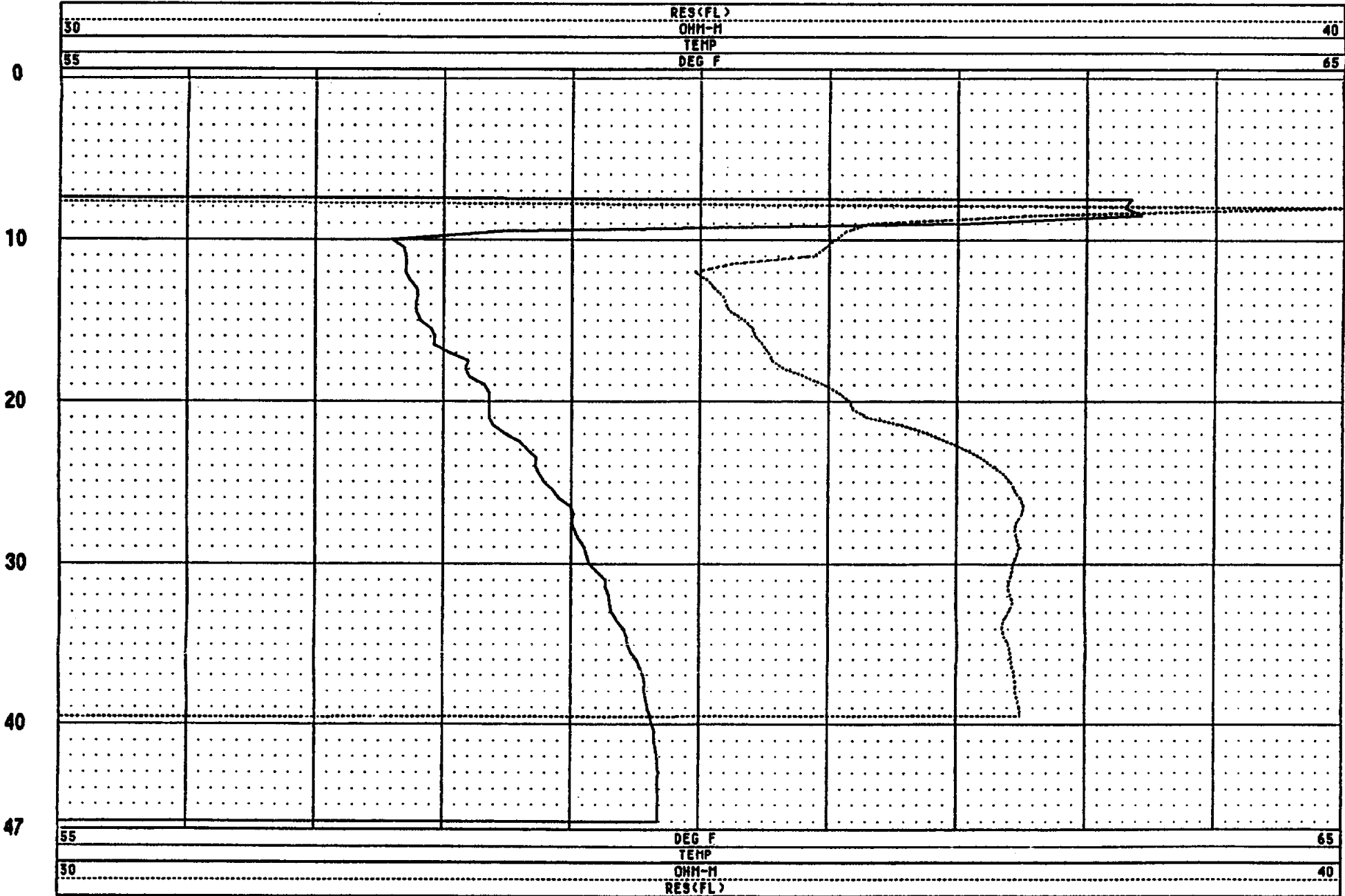
BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : LIMESTONE

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 2
PLOT : STEPAN 2
THRESH: 2500

REMARKS :
OBSERVER: L. VOGEL - CH2M HILL (PHL)
LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-17

COMPANY : STEPAN
WELL : BRMW-17
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
TEMP
FLUIDRES

TOWNSHIP :

RANGE :

DATE : 05/11/92
DEPTH DRILLER : 50
LOG BOTTOM : 50.50
LOG TOP : 0.50

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 20
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.60
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

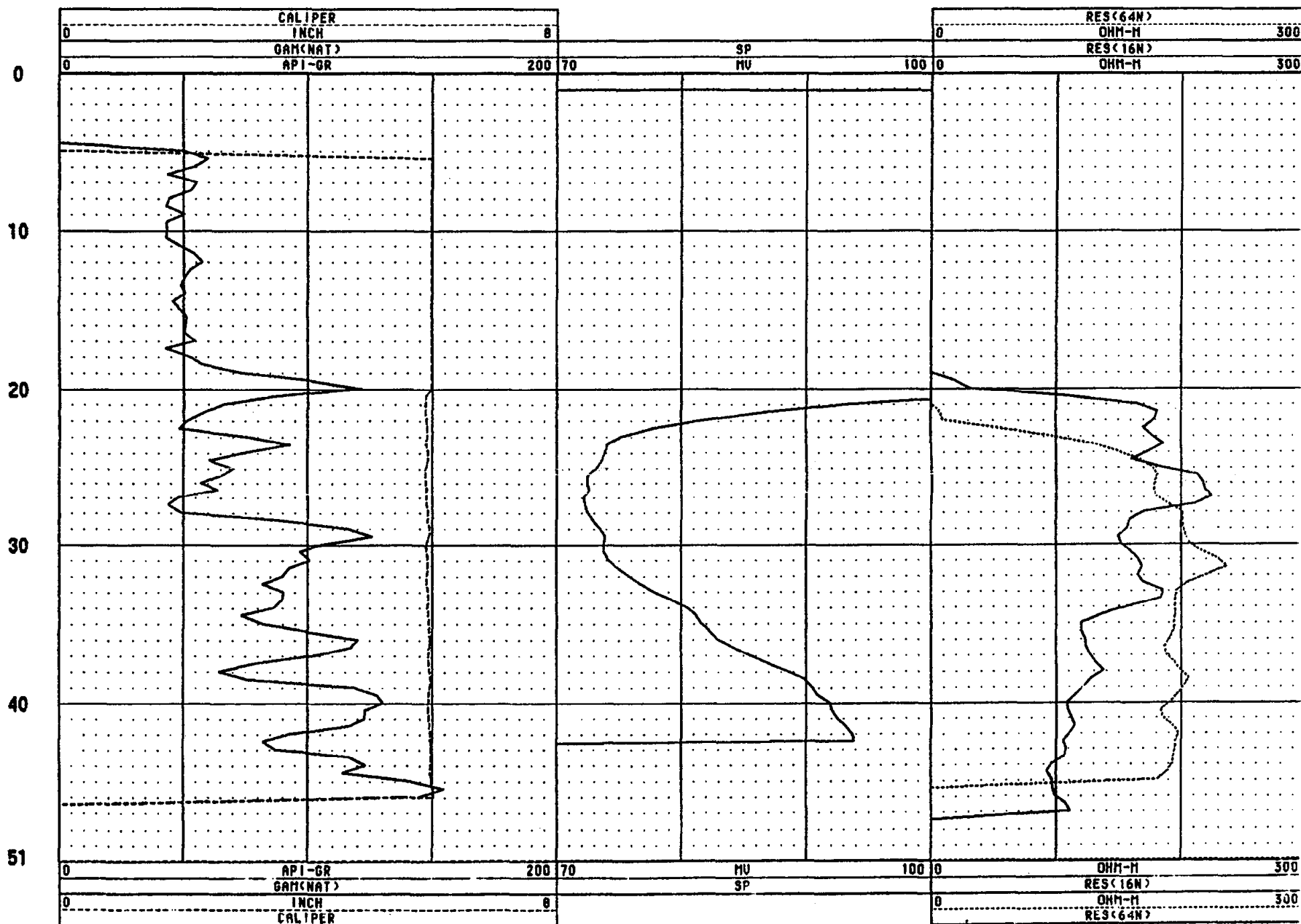
BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 8
PLOT : STEPAN 1
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



BRMW-17

COMPANY : STEPAN
WELL : BRMW-17
LOCATION/FIELD : MAYWOOD/STEPAN
COUNTY : BERGEN
STATE : NEW JERSEY
SECTION :

OTHER SERVICES:
CALIPER
LSN ELEC
GAMMA, SP

TOWNSHIP :

RANGE :

DATE : 05/11/92
DEPTH DRILLER : 50
LOG BOTTOM : 49.50
LOG TOP : 0.00

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

ELEVATIONS
KB :
DF :
GL :

CASING DRILLER : 20
CASING TYPE : STEEL
CASING THICKNESS: .25

LOGGING UNIT : 1
FIELD OFFICE : DFB
RECORDED BY : M. SCHILLING

BIT SIZE : 5.875
MAGNETIC DECL. : 7.5
MATRIX DENSITY : 2.68
FLUID DENSITY : 1.0
NEUTRON MATRIX : BEDROCK
REMARKS :

BOREHOLE FLUID : WATER
RM : 0
RM TEMPERATURE : 0
MATRIX DELTA T : 57
FLUID DELTA T : 210

FILE : PROCESSED
TYPE : 9040A
LOG : 6
PLOT : STEPAN 2
THRESH: 2500

OBSERVER: L. VOGEL - CH2M HILL (PHL)

LOGGED UNDER STATIC CONDITIONS ON BEDROCK MONITOR WELL

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

