STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES
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DIVISION OF GEOLOGY AND EARTH RESOURCES
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GEOPHYSICAL LOGS OF SELECTED WELLS IN EASTERN WASHINGTON

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Introduction

This open-file report consists of geophysical well logs compiled during studies of the geohydrology and low temperature geothermal resources of eastern Washington. The work was carried out by personnel of the Geological Engineering Section, Department of Civil and Environmental Engineering, Washington State University and the Division of Geology and Earth Resources, Department of Natural Resources, with funding provided by the U.S. Department of Energy.

The geophysical logs are divided into two groups. Part A consists of wells which were studied by Scott Widness, Washington State University, and are concentrated in the Moses Lake-Ritzville-Connell area. Results of the geohydrologic study are discussed in Widness (1983, 1984). Part B consists of wells outside of the Moses Lake-Ritzville-Connell study area.

A previous study of eastern Washington geohydrology by John Biggane, Washington State University, examined well logs for the Yakima area. Fluid temperature and other geophysical logs for these wells are presented and discussed in Biggane (1982a, 1982b, 1983).

Part A:

Geophysical Well Logs for portions of Adams, Franklin, Grant, southern Douglas, and southern Lincoln Counties. These logs were collected as part of a geohydrologic-geothermal study of the Moses Lake-Ritzville-Connell area (see figure 1). They are listed in table 2 and organized by ascending township, range, and section. For additional information about the study see Widness (1983 and 1984).

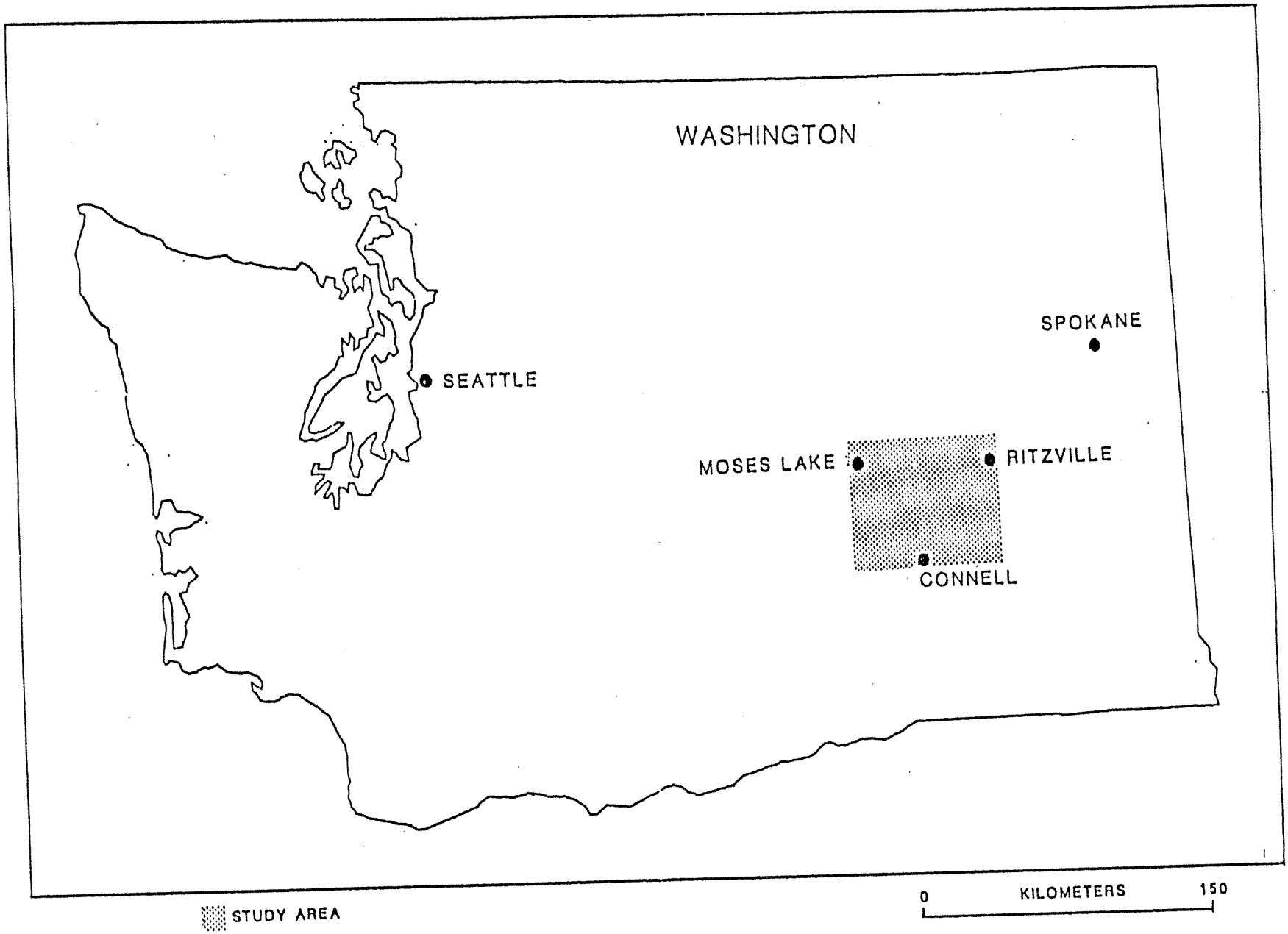

FIGURE 1 LOCATION OF THE STUDY AREA

Table 1. List of Wells with a full suite of geophysical logs for Part A, the Moses Lake-Ritzville-Connell Study area.

Location T./R.-Sec.	Well Name	Elevation (meters)	Depth[1/] (meters)	BHT[2/] (°C)
14N/31E-08M1	Rathbun, Corrin	347.5	758.0	43.1
14N/31E-09J1	Rathbun, Corrin, #3	342.9	332.2	22.2
14N/31E-15C1	Kummer Farms	339.9	413.3	20.3
14N/32E-30P1	Connell City #7	265.2	252.4	17.8
14N/33E-21N1	Heider, Walter	423.7	351.1	28.2
14N/36E-19N1	Vernon Gillis	412.1	265.2	-
15N/29E-03P1	Othello City #5	320.7	298.4	29.4
15N/29E-04A1	Othello City #6	321.6	367.3	24.7
15N/30E-12K1	Meldrin, Ted	382.5	408.7	17.8
15N/31E-05L1	McKay, Ed	379.5	404.4	26.8
15N/31E-19A1	Johnson, Arthur	378.6	341.7	27.6
15N/32E-20D1	Hatton City #2	365.8	214.9	18.2
15N/34E-27R1	Watson, Leroy	455.7	242.6	19.9
16N/31E-15Q1	Lyle, Rex (South)	429.2	409.9	27.5
16N/32E-15D1	Phillips, D. E., #17	455.7	439.5	34.0
16N/32E-25N1	Phillips, D. E., #16	402.3	381.9	31.4
16N/32E-34E1	Phillips, D. E., C-34	424.6	772.6	41.4
16N/33E-20A1	Phillips, J. Boyd	484.6	444.4	19.8
16N/35E-31Q1	Baumann Farms	484.6	599.5	22.4
17N/30E-10P1	Warden City #6	390.1	253.3	14.8
17N/31E-12D1	Phillips, D. E., C-12	384.0	591.9	27.5
17N/36E-07N1	Kautz, William B.	527.3	274.3	13.3
18N/29E-06Q1	American Potato #2	355.1	204.8	21.7
18N/31E-33D1	Phillips, D. E., C-33	432.8	727.5	30.2

1/ Depth logged.

2/ Bottom Hole Temperature, temperature at maximum depth logged, or highest measured temperature.

Table 1. (Cont'd)

Location T./R.-Sec.	Well Name	Elevation (meters)	Depth[1/] (meters)	BHT[2/] (°C)
18N/36E-04A1	Heinemann, Don	539.2	281.0	16.3
19N/28E-28K1	Moses Lake City #4	327.7	293.5	16.2
19N/29E-15A1	Masto Farms	416.1	288.6	21.1
19N/30E-15L1	Radach, Jerry	439.5	359.6	16.6
19N/32E-24N1	J & M Farms	510.2	694.9	32.5
19N/33E-08Q2	Hoefel, Paul, #2	556.3	745.2	42.3
19N/36E-09K1	Gering, Gale	566.9	229.2	21.1
19N/36E-15A1	Gering, Gale	580.6	380.4	19.7
20N/29E-07H1	Cole, E. B.	94.7	214.9	21.0
20N/29E-25C1	Reinke Farms	433.4	405.7	26.3
20N/30E-21G1	Claasen, Clint	475.5	469.7	28.7
20N/30E-32K1	Neibaur/West	445.0	382.5	21.1
20N/35E-27A1	Kagele, Richard	611.1	364.8	15.6
21N/31E-10M1	Basalt Explorer #1	490.7	1340.1	64.5
21N/31E-32D2	Kissler, Bob	509.0	365.7	18.9
21N/33E-09E1	Odessa City	490.7	201.2	14.5

1/ Depth logged.

2/ Bottom Hole Temperature, temperature at maximum depth logged, or highest measured temperature.

Part B:

Geophysical Well Logs for wells throughout the rest of eastern Washington (i.e., areas outside the study area of Part A). The wells are listed in table 2 and arranged by county and ascending township, range, and section.

Table 2. List of wells with a full suite of geophysical logs for Part B, (areas outside the Moses Lake-Ritzville-Connell study area).

County	Name	Location T./R.-Sec.	Bottom Hole Temperature	Total Depth Logged feet (meters)
Adams	FRED BLAUERT	15N/36E-34F1	25.3	699 (213.1)
	CONNELL	17N/37E-27D1	21.7	554 (168.9)
Asotin	WWP	11N/46E-32E1	24.1	1288 (392.6)
Benton	TOM POWERS	05N/26E-05D1	26.7	1002 (305.4)
	HORRIGAN FARMS	07N/24E-08D1	23.4	1108 (337.7)
	DR. PALMER #2	07N/25E-23F1	19.4	1249 (380.7)
	HORSE HEAVEN TEST	07N/27E-36A1	29.4	1209 (368.5)
	PROSSER EXPT. STN.	09N/25E-06B1	26.2	1202 (366.4)
	DNR-79-07	09N/27E-25M1	23.8	1057 (322.2)
Douglas	PIXLEE TEST WELL	23N/26E-20D1	17.9	1339 (408.1)
Franklin	H. NAKAMURA	11N/31E-21H1	24.8	1168 (356.0)
	LLOYD COCKRANE	13N/34E-30M1	33.3	1179 (359.4)
Grant	GEORGE TEST WELL	18N/25E-15E1	30.3	1604 (488.9)
	EPHRATA CITY #10	21N/26E-15H1	20.9	1856 (565.7)
	BUD KING	22N/30E-26G1	23.7	1565 (477.0)
	JERRY SCHAFER	23N/28E-27E1	22.5	643 (196.0)
Kittitas	LARSON FRUIT WELL	15N/19E-22P1	31.3	1289 (392.9)
	UMTANUM CREEK	16N/19E-28C1	28.6	1018 (310.3)
	ELLENSBURG CITY	18N/18E-35E1	20.9	899 (274.0)
Klickitat	LEROY VAN BELLE	04N/14E-21C1	15.9	957 (291.7)
	GOLDENDALE CITY #1	04N/16E-16Q1	24.6	889 (271.0)
	TOM POWERS	05N/23E-13J1	27.2	1083 (330.1)
	C. MCBRIDE	05N/23E-29D1	25.2	876 (267.0)
	ROBERT ANDREWS	06N/23E-22J1	22.3	1046 (318.8)

Table 2. (Cont'd)

County	Name	Location T./R.-Sec.	Bottom Hole Temperature	Total Depth Logged feet (meters)
Lincoln	W. WEISHAAR #1	23N/32E-04J1	16.1	697 (212.4)
	ALVIN SCHMIERER	24N/33E-23P1	27.0	1017 (310.0)
Spokane	CHENEY CITY #5	23N/41E-23B2	33.1	2135 (650.7)
Walla Walla	E. CHVATEL	06N/34E-06B1	36.0	1588 (484.0)
	WALLA WALLA WELL	06N/35E-18A1	28.7	1305 (397.8)
Whitman	PULLMAN TEST WELL	14N/45E-01F1	16.7	977 (297.8)

References

Biggane, John, 1982a, The low-temperature geothermal resource and stratigraphy of portions of Yakima County, Washington: Washington Division of Geology and Earth Resources Open-File Report 82-6, 136 p., 58 figures, 4 plates, 11 tables.

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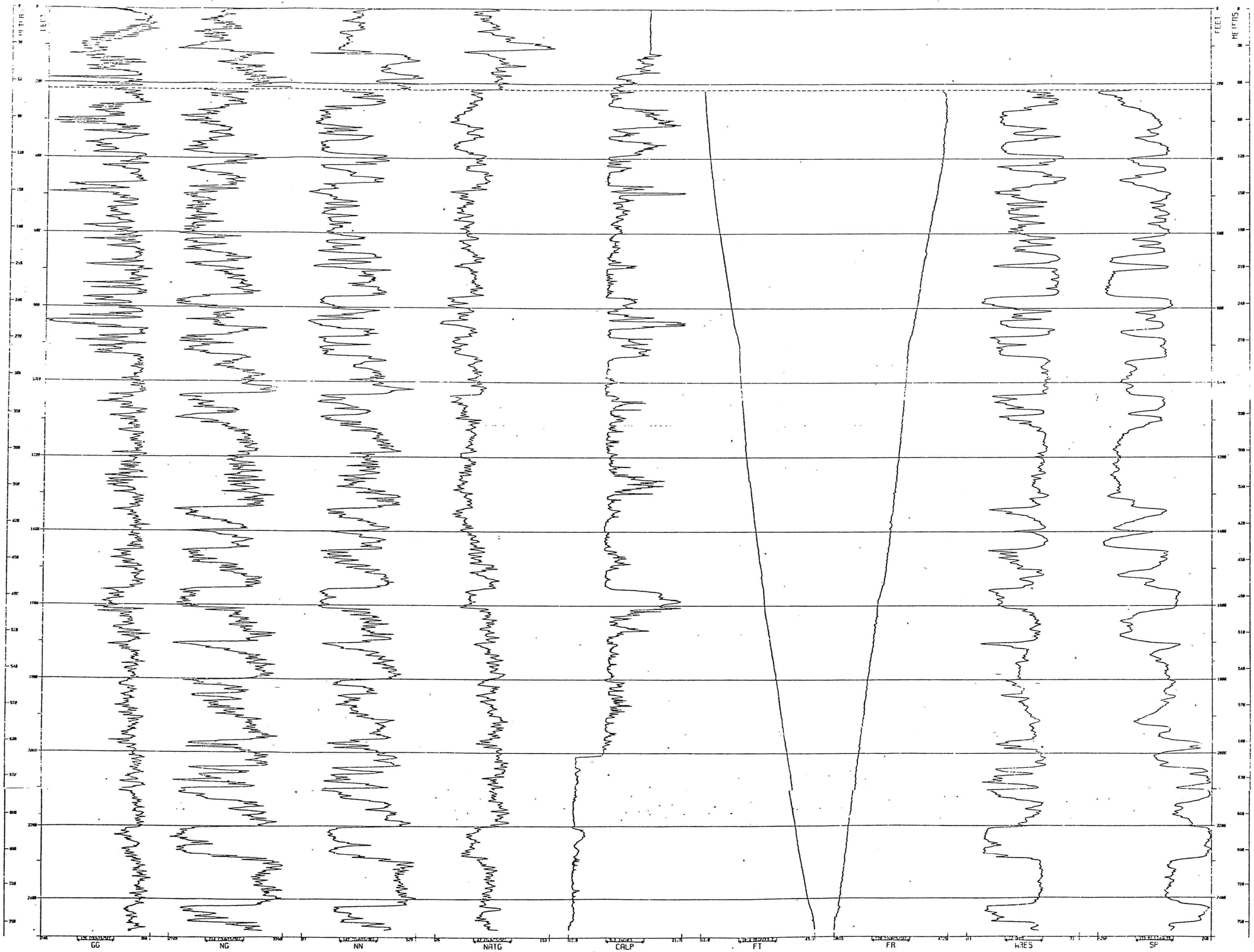


WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	CORRIN RATHBUN
DATE LOGGED	03/19/80
STATE	WASHINGTON
COUNTY	FRANKLIN
LOCATION	14N/31E-08M1
SURFACE ELEVATION	1140
TOTAL DEPTH LOGGED	2487
DEPTH TO WATER LEVEL	216
CASING & LINERS:	
0- 115=20	

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WALL RESISTIVITY
FMTR - - - FLOW METER, + = DOWN
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

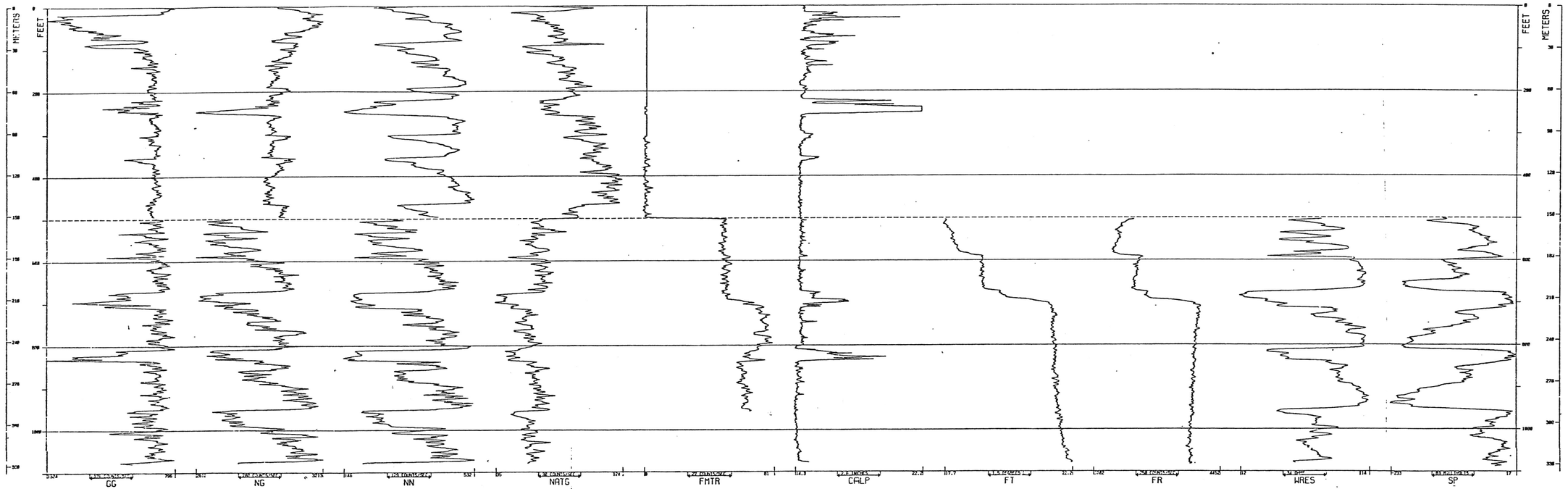
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

14N/31E-08M1

-10-

14N/31E-08M1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	RATHBUN #3
DATE LOGGED	07/11/79
STATE	WASHINGTON
COUNTY	FRANKLIN
LOCATION	14N/31E-09J1
SURFACE ELEVATION	1125
TOTAL DEPTH LOGGED	1258
DEPTH TO WATER LEVEL	520
CASING & LINERS:	
0- 19:16	

LEGEND

LOG TITLES

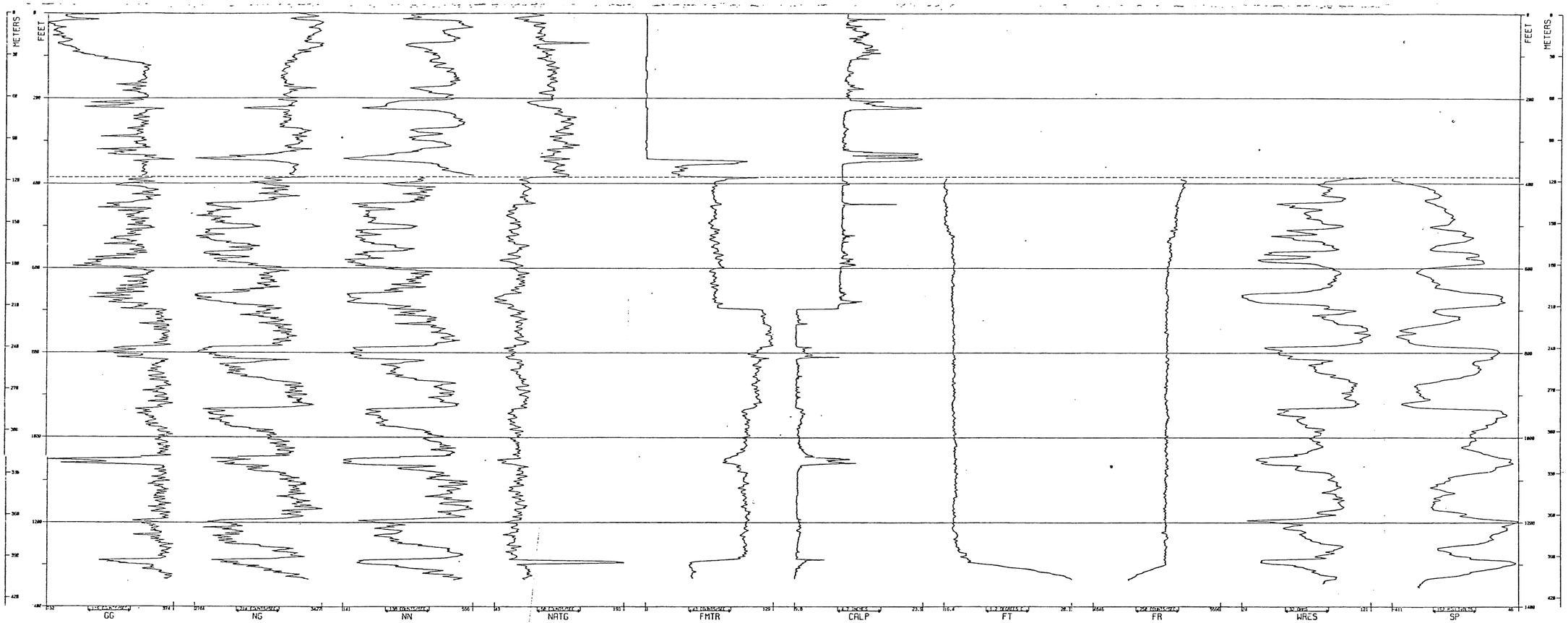
NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER
SONIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN LOG) INCREASES ←——
WATER LEVEL - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

03/18/83 SDJ

14N/31E-09J1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	KUMMER FARMS
DATE LOGGED	11/13/79
STATE	WASHINGTON
COUNTY	FRANKLIN
LOCATION	14N/31E-15C1
SURFACE ELEVATION	1115
TOTAL DEPTH LOGGED	1356
DEPTH TO WATER LEVEL	385
CASING & LINERS:	
0- 10:16	

LEGEND

LOG TITLES

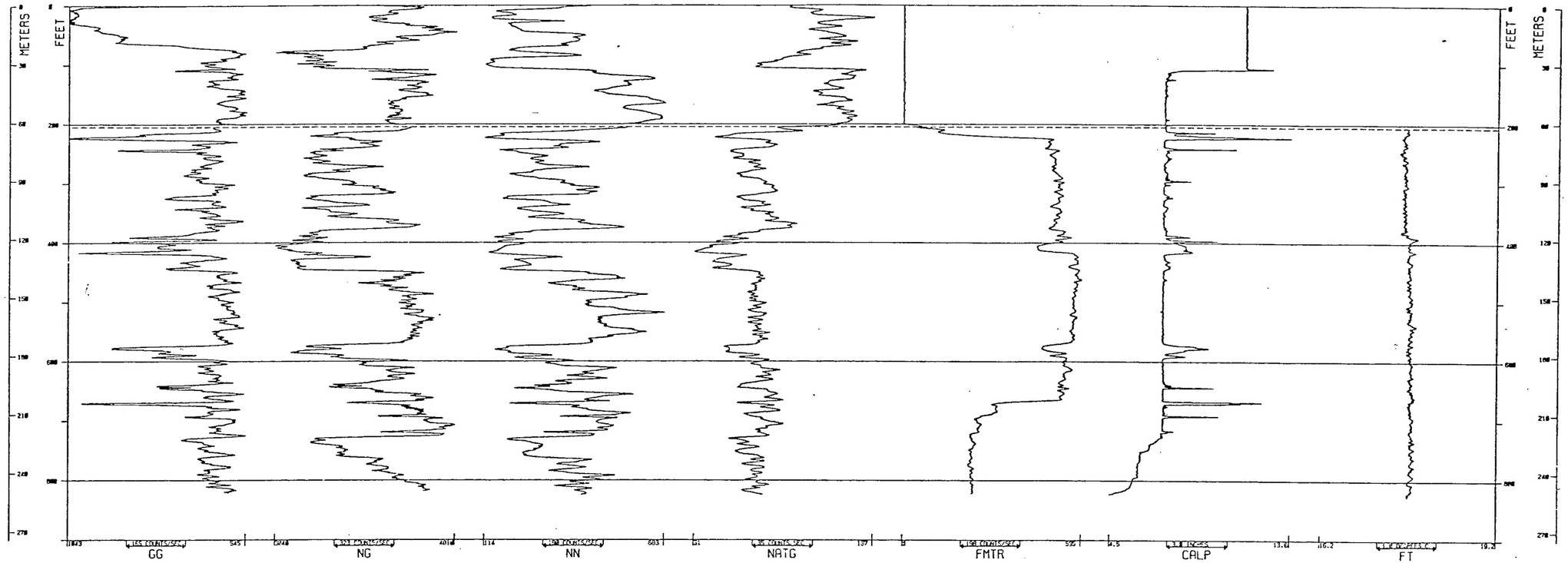
NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WALL RESISTIVITY
FMTR - - - FLOW METER, + = DOWN
SNTC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/22/83 SEW

14N/31E-15C1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	CONNELL CITY #7
DATE LOGGED	06/18/76
STATE	WASHINGTON
COUNTY	FRANKLIN
LOCATION	14N/32E-30P1
SURFACE ELEVATION	840
TOTAL DEPTH LOGGED	828
DEPTH TO WATER LEVEL	205
CASING & LINERS:	
0- 105=12	

LEGEND

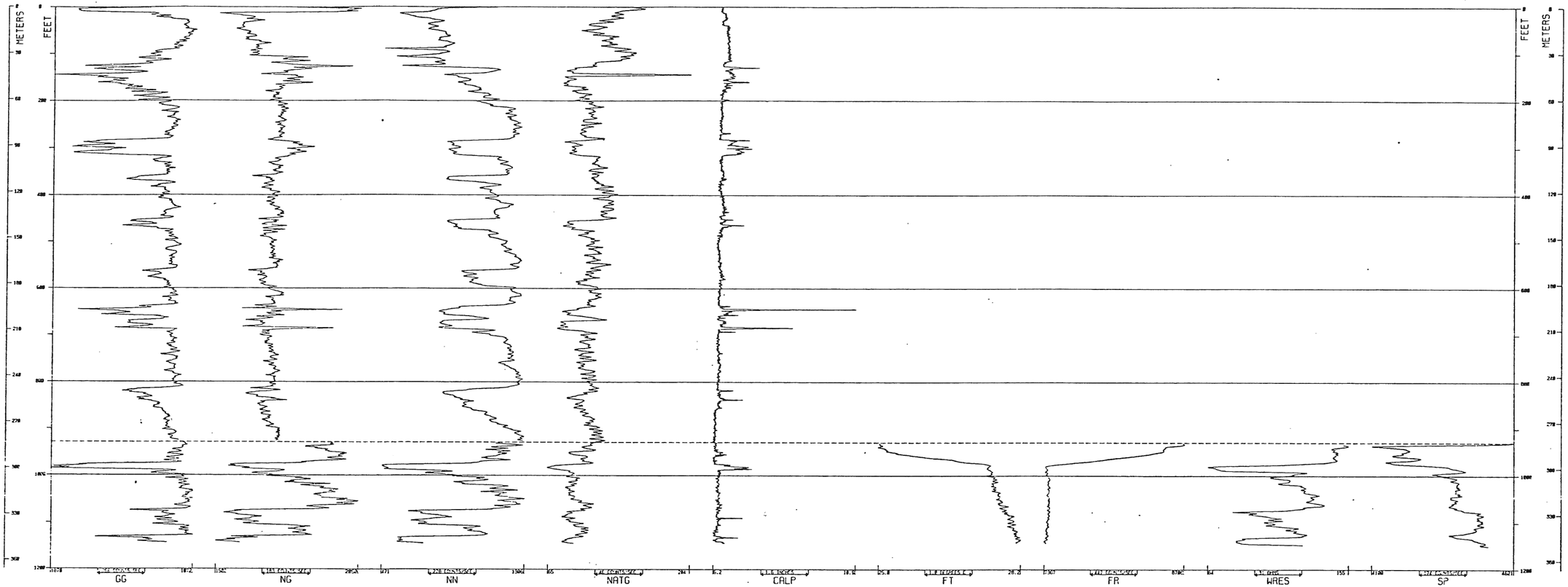
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

04/28/83 SEM



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	WALTER HEIDER
DATE LOGGED	02/15/75
STATE	WASHINGTON
COUNTY	FRANKLIN
LOCATION	14N/33E-21N1
SURFACE ELEVATION	1390
TOTAL DEPTH LOGGED	1152
DEPTH TO WATER LEVEL	929
CASING & LINERS*	
0- 130= 6	

LEGEND

LOG TITLES

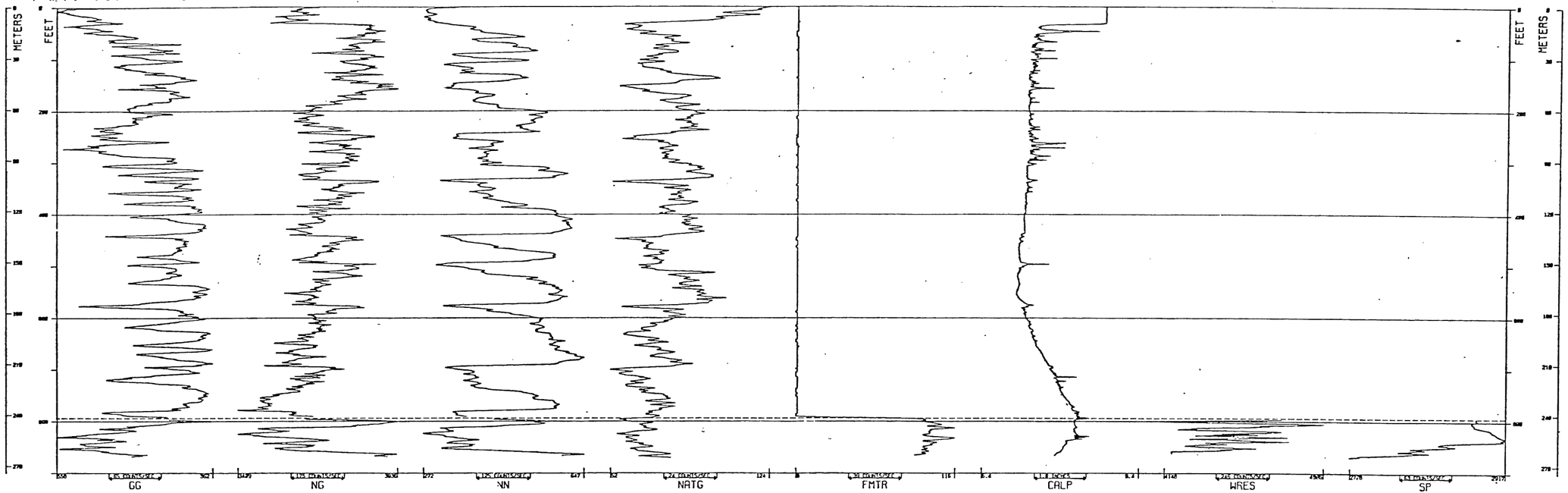
NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCRERSES ⟶
POROSITY (NN-LOG) INCRERSES ⟵
WATER LEVEL - - - -

NOTE* SCALE MAY CHANGE ABOVE WATER LEVEL

03/10/83 SCW

14N/33E-21N1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	VERNON GILLIS
DATE LOGGED	12/14/73
STATE	WASHINGTON
* COUNTY	FRANKLIN
LOCATION	14N/36E-19N1
SURFACE ELEVATION	1352
TOTAL DEPTH LOGGED	872
DEPTH TO WATER LEVEL	794
CASING & LINERS:	

LEGEND

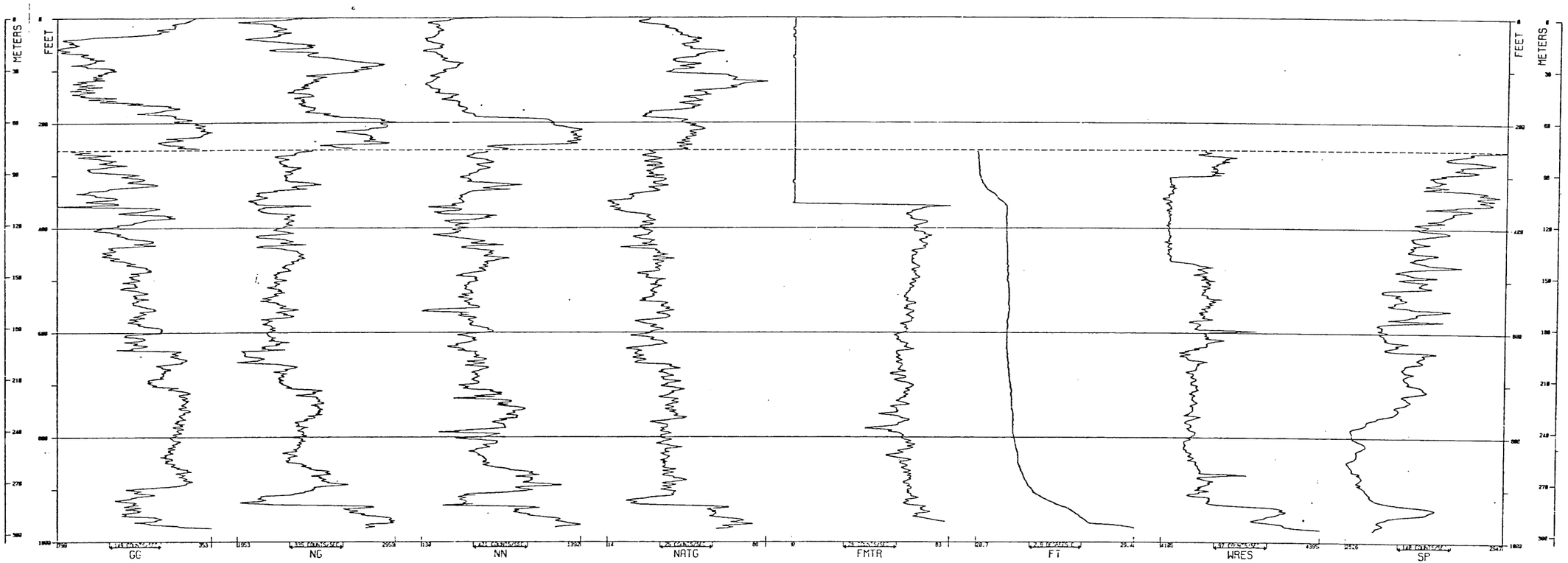
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER, * = DOWN
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/22/83 SGJ



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	OTHELLO CITY #5
DATE LOGGED	05/06/74
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	15N/29E-03P1
SURFACE ELEVATION	1258
TOTAL DEPTH LOGGED	979
DEPTH TO WATER LEVEL	252

CASING & LINERS:
0- 81=30 0- 192=24 0- 372=20
0- 666=16

LEGEND

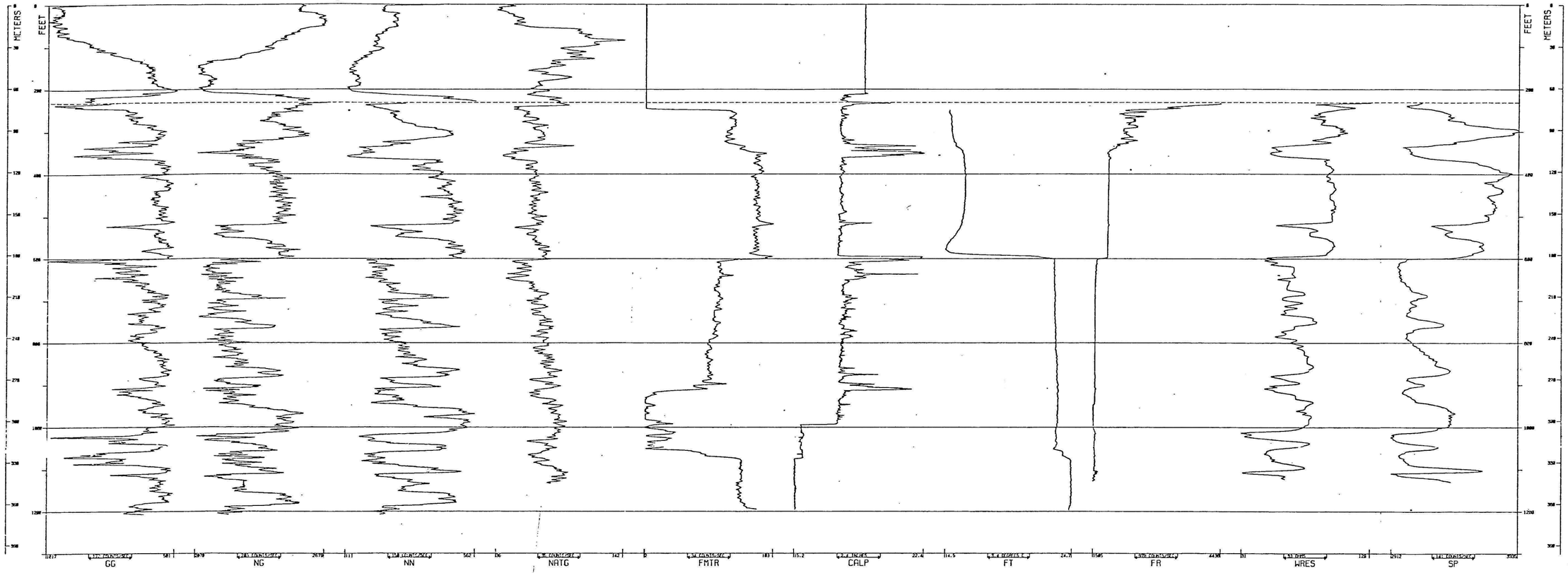
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
RW - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/29/82 SCW



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	OTHELLO CITY #6
DATE LOGGED	10/13/77
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	15N/29E-04A1
SURFACE ELEVATION	1055
TOTAL DEPTH LOGGED	1211
DEPTH TO WATER LEVEL	231
CASING & LINERS:	
0- 220+20	

CALP, FT, AND FMTR LOGGED 02/15/79
(SWL @ 247 FT).

LEGEND

LOG TITLES

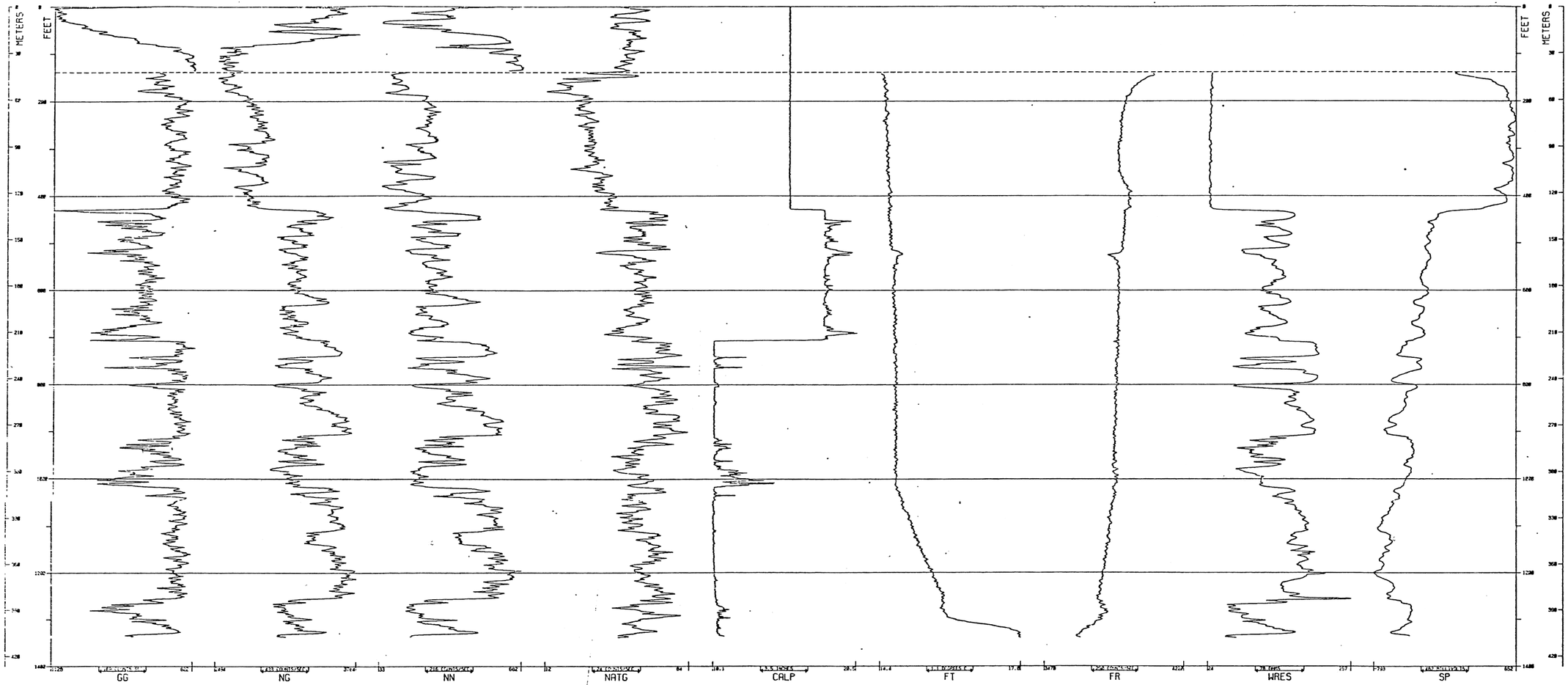
NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

22/29/83 SEW

15N/29E-04A1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	TED MELCRIN
DATE LOGGED	02/12/76
STATE	WASHINGTON
COUNTY	FORMS
LOCATION	15N/30E-12K1
SURFACE ELEVATION	1255
TOTAL DEPTH LOGGED	1341
DEPTH TO WATER LEVEL	139
CASING & LINERS:	
0- 425=16	

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
TMTR - - TEMP METER
SNIC - - SONIC
SN - - SONIC NORMAL
SN - - SHORT NORMAL

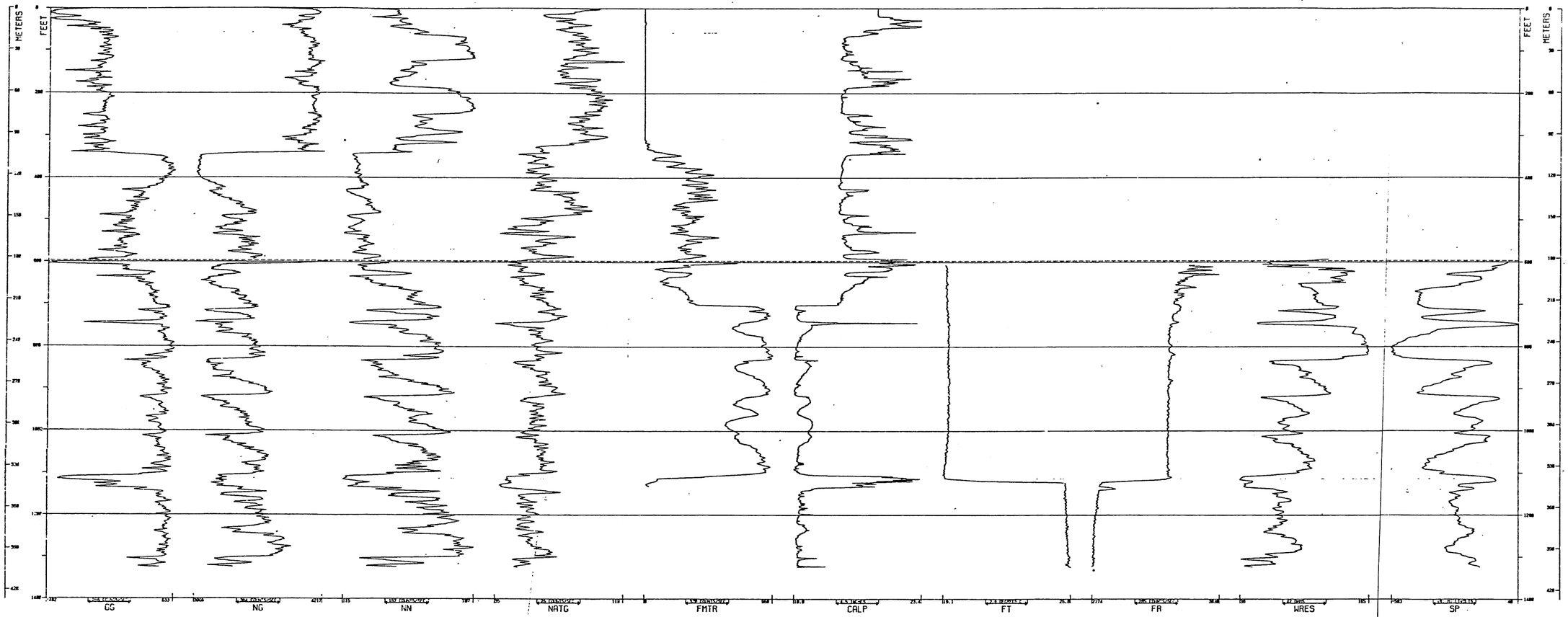
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/12/85 SDW

15N/30E-12K1

-18-



WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	ED MCKAY
DATE LOGGED	05/19/76
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	15N/31E-05L1
SURFACE ELEVATION	1245
TOTAL DEPTH LOGGED	1327
DEPTH TO WATER LEVEL	597
CASING & LINERS*	

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FROM METER - + DOWN
SNIC - - SONIC
EN - - - LONG NORMAL
SN - - - SHORT NORMAL

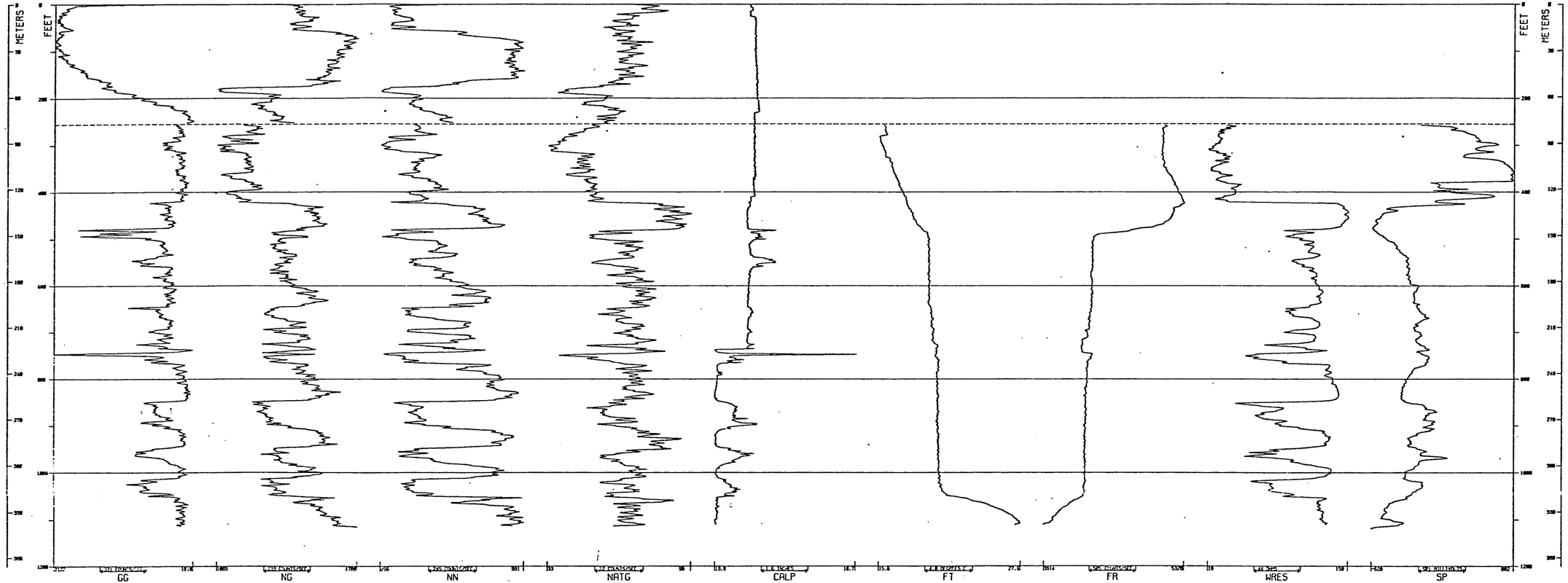
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/23/83 SDW

15N/31E-05L1

- 19 -



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	ARTHUR JOHNSON
DATE LOGGED	05/11/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	15N/31E-19A1
SURFACE ELEVATION	1242
TOTAL DEPTH LOGGED	1121
DEPTH TO WATER LEVEL	255
CASING & LINERS*	
	0- 57=19 0- 425=15

LEGEND

LOG TITLES

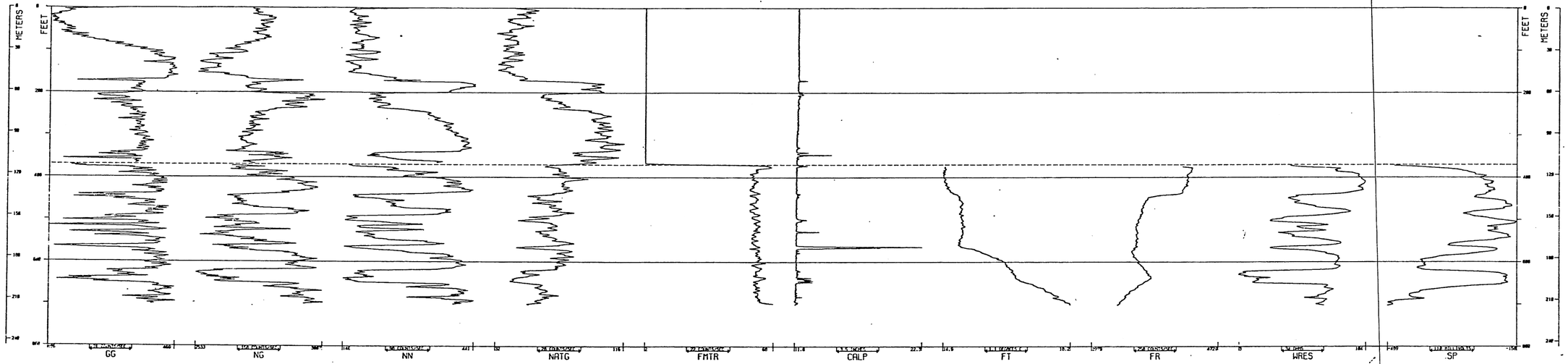
NGTC - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
SRES - - - WALL RESISTIVITY
FMTR - - - FLOW METER
SONIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/23/83 SCH

15N/31E-19A1



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	HATTON CITY #2
DATE LOGGED	04/03/79
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	15N/32E-20D1
SURFACE ELEVATION	1200
TOTAL DEPTH LOGGED	705
DEPTH TO WATER LEVEL	370
CASING & LINERS:	
0- 165-12	

LEGEND

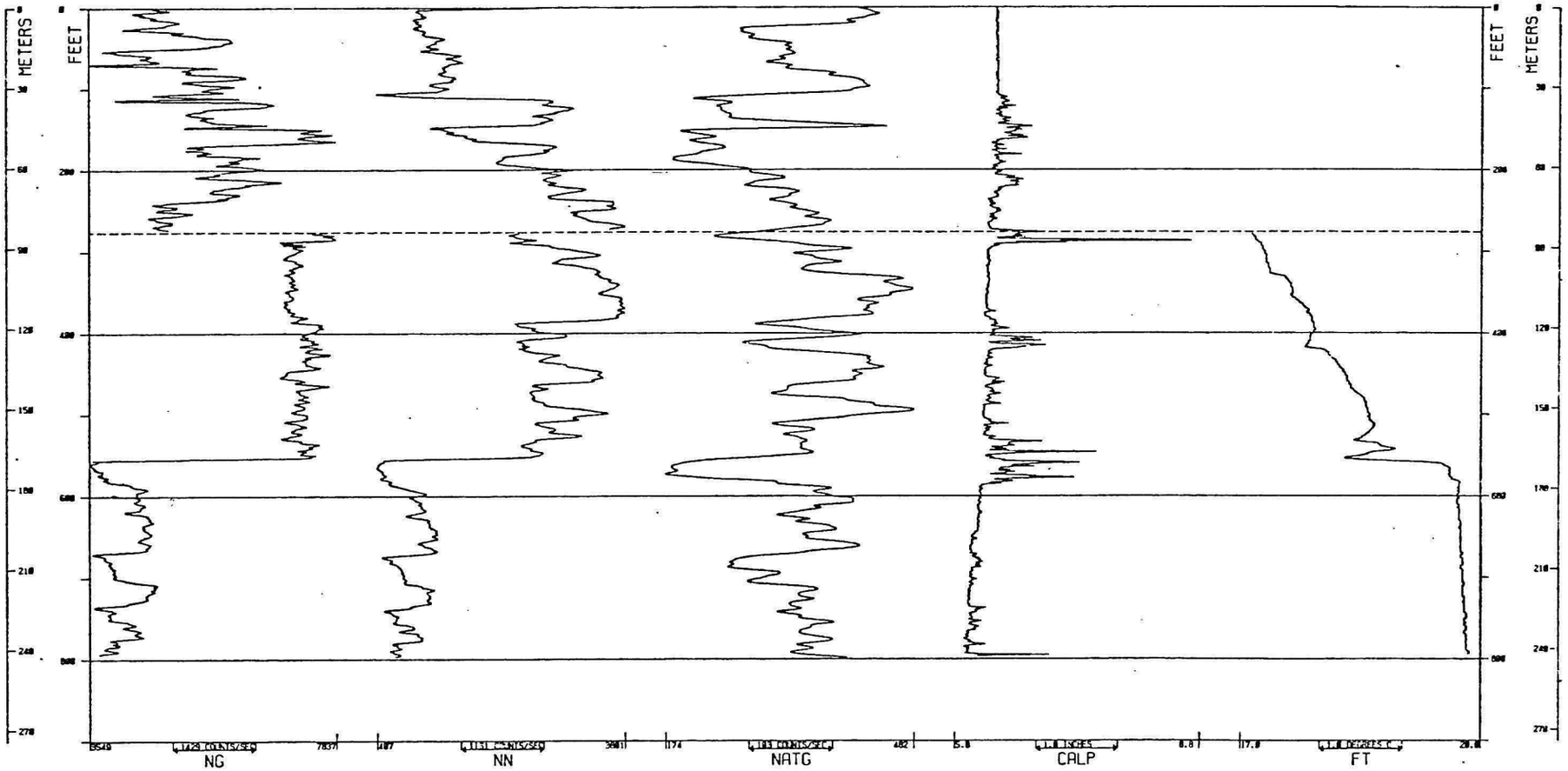
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL.

03/18/83 SDH



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	LEROY WATSON
DATE LOGGED	11/30/72
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	15N/34E-27R1
SURFACE ELEVATION	1495
TOTAL DEPTH LOGGED	809
DEPTH TO WATER LEVEL	276
CASING & LINERS*	

LEGEND

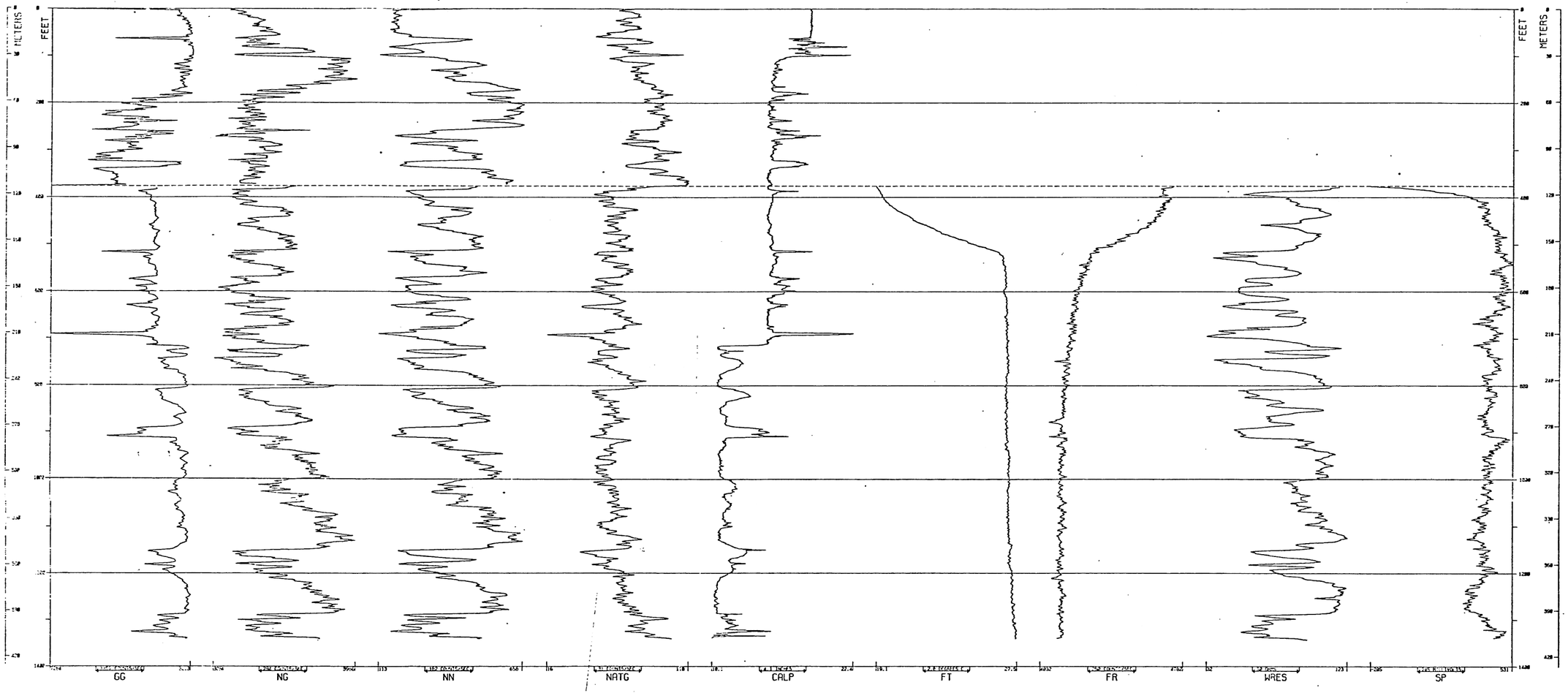
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER, + = DOWN
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/28/83 SEH



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	REX LYLE (SOUTH)
DATE LOGGED	07/09/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	16N/31E-15Q1
SURFACE ELEVATION	1408
TOTAL DEPTH LOGGED	1345
DEPTH TO WATER LEVEL	376
CASING & LINERS:	
0- 62=19	

LEGEND

LOG TITLES

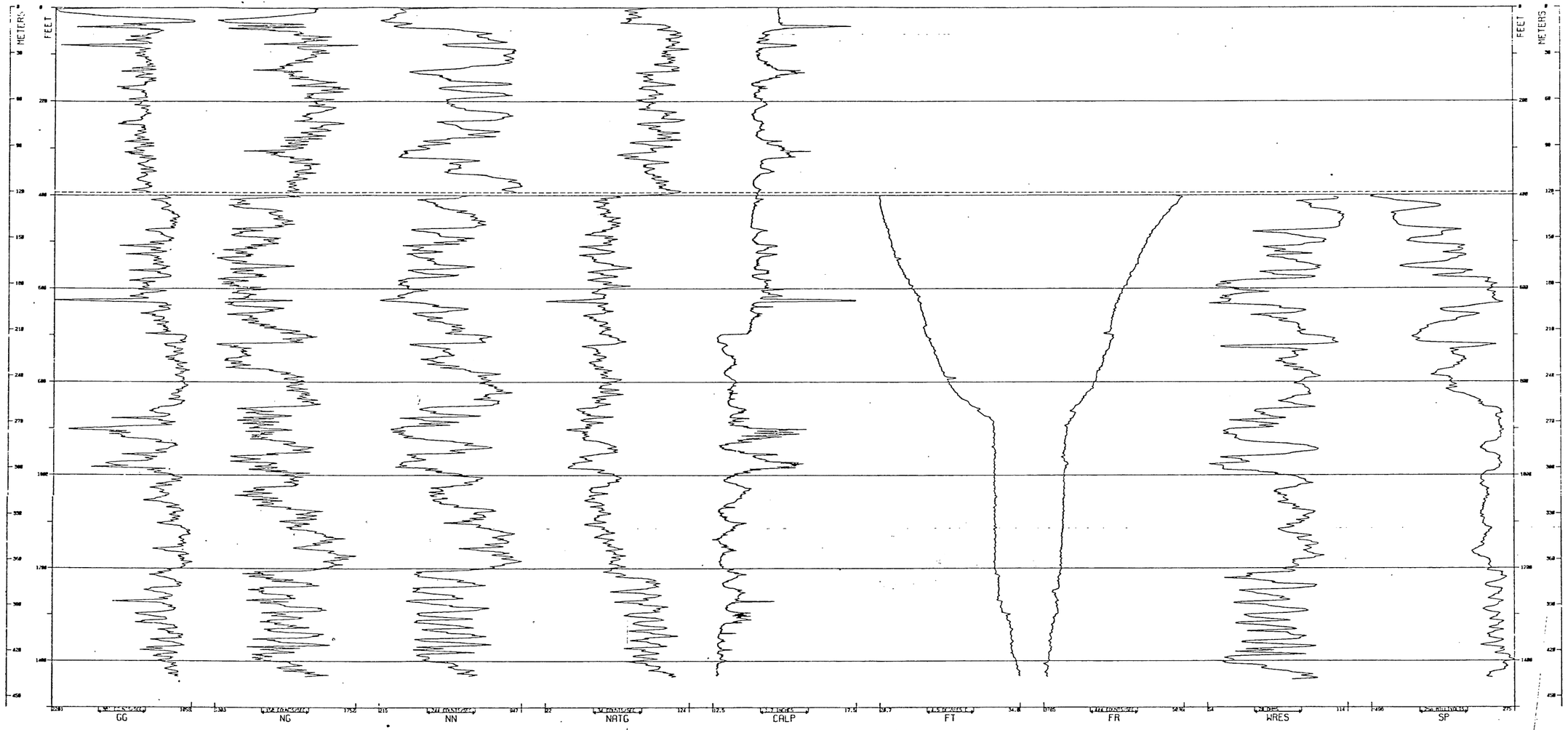
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FNTG - - FLOW METER
NNIC - - SONIC
LN - - LONG NORMAL
SN - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

16N/31E-15Q1

-23-



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	D.E. PHILLIPS #17
DATE LOGGED	03/10/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	16N/32E-15D1
SURFACE ELEVATION	1495
TOTAL DEPTH LOGGED	1442
DEPTH TO WATER LEVEL	394
CASING & LINERS:	
0- 36=20	

:LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FRTR - - FLOW METER, + = DOWN
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

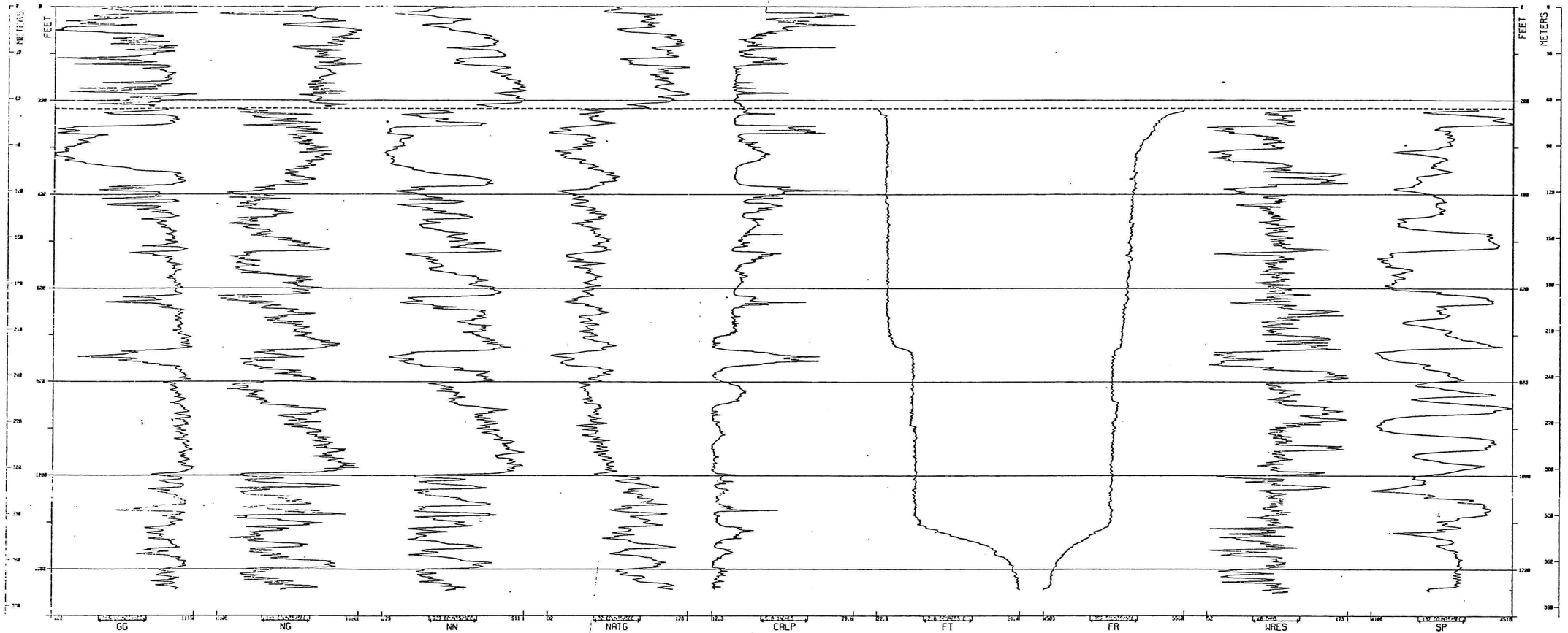
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/23/83 SDW

16N/32E-15D1

-24-



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	D.E. PHILLIPS #16
DATE LOGGED	03/08/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	16N/32E-2SN1
SURFACE ELEVATION	1320
TOTAL DEPTH LOGGED	1253
DEPTH TO WATER LEVEL	217
CASING & LINERS:	
0- 19:20	

LEGEND

LOG TITLES

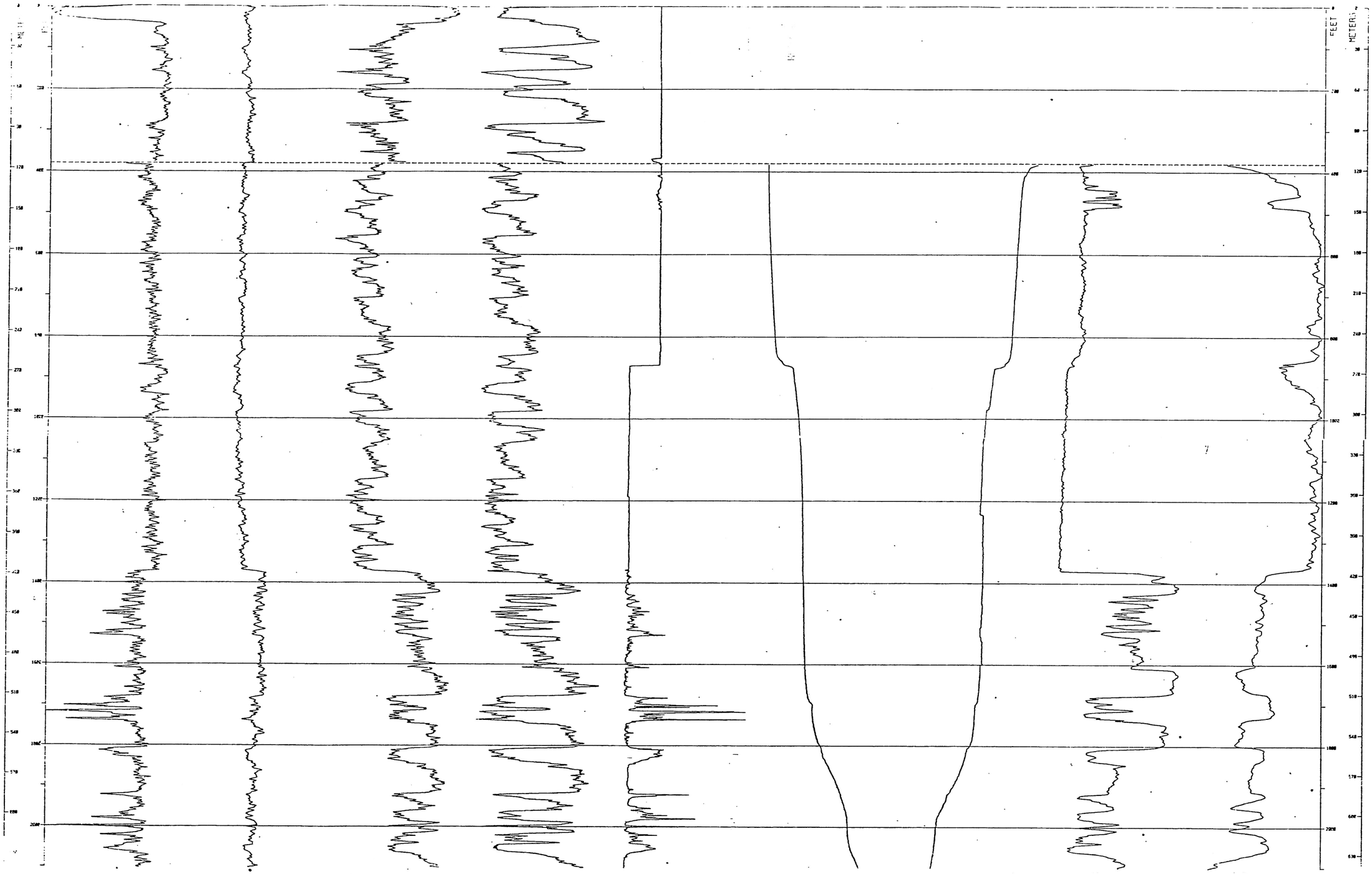
NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WATER RESISTIVITY
FR - - - FLUID METER
SNTC - - SONIC
SN - - - SONIC NORMAL
SP - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES →
POROSITY (NN-LOG) INCREASES ←
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/22/83 SEW

16N/32E-2SN1



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	PHILLIPS, C-34
DATE LOGGED	09/13/78
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	16N/32E-34E1
SURFACE ELEVATION	1393
TOTAL DEPTH LOGGED	2535
DEPTH TO WATER LEVEL	360
CASING & LINERS:	
0- 868=15 868-1368=13	

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
ASTS - - - ASTS RESISTIVITY
PAT - - - PLAN METER
INTC - - SONIC
EN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GO-LOG) INCREASES ⟶
POROSITY (NO-LOG) INCREASES ⟵
WATER LEVEL - - - -

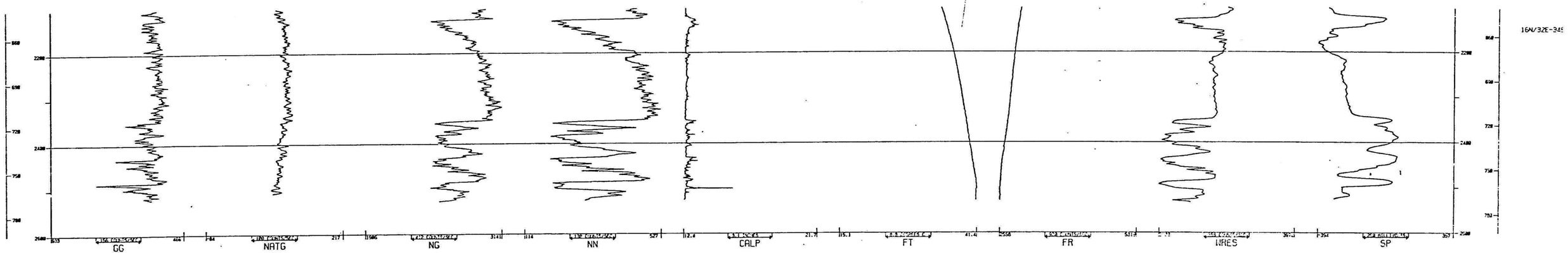
NOTE: SCALE HAS CHANGED ABOVE WATER LEVEL

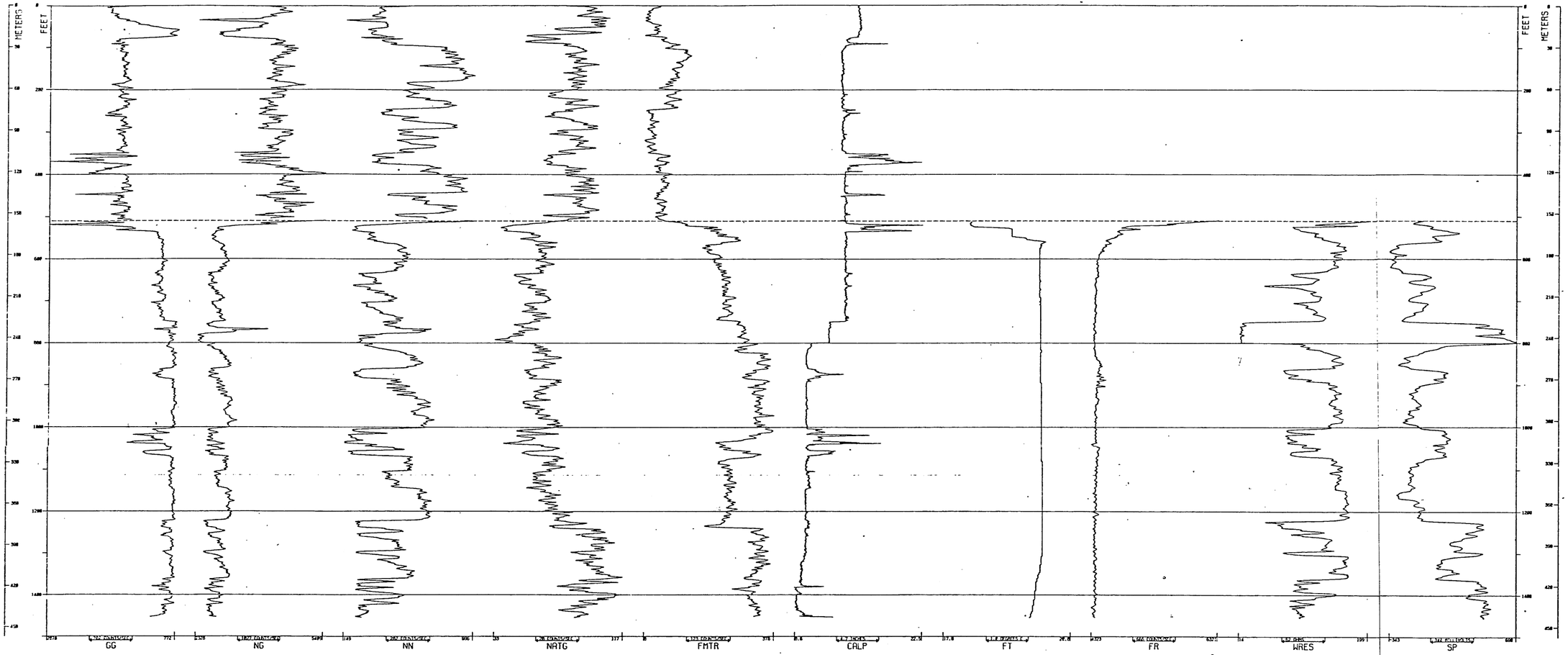
02/12/83 SEM

16N/32E-34E1

-26-

Phillips C-34





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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	BOYD PHILLIPS
DATE LOGGED	04/18/78
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	16N/33E-20A1
SURFACE ELEVATION	1590
TOTAL DEPTH LOGGED	1458
DEPTH TO WATER LEVEL	510
CASING & LINERS:	
0- 75=16	

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER - + = DOWN
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

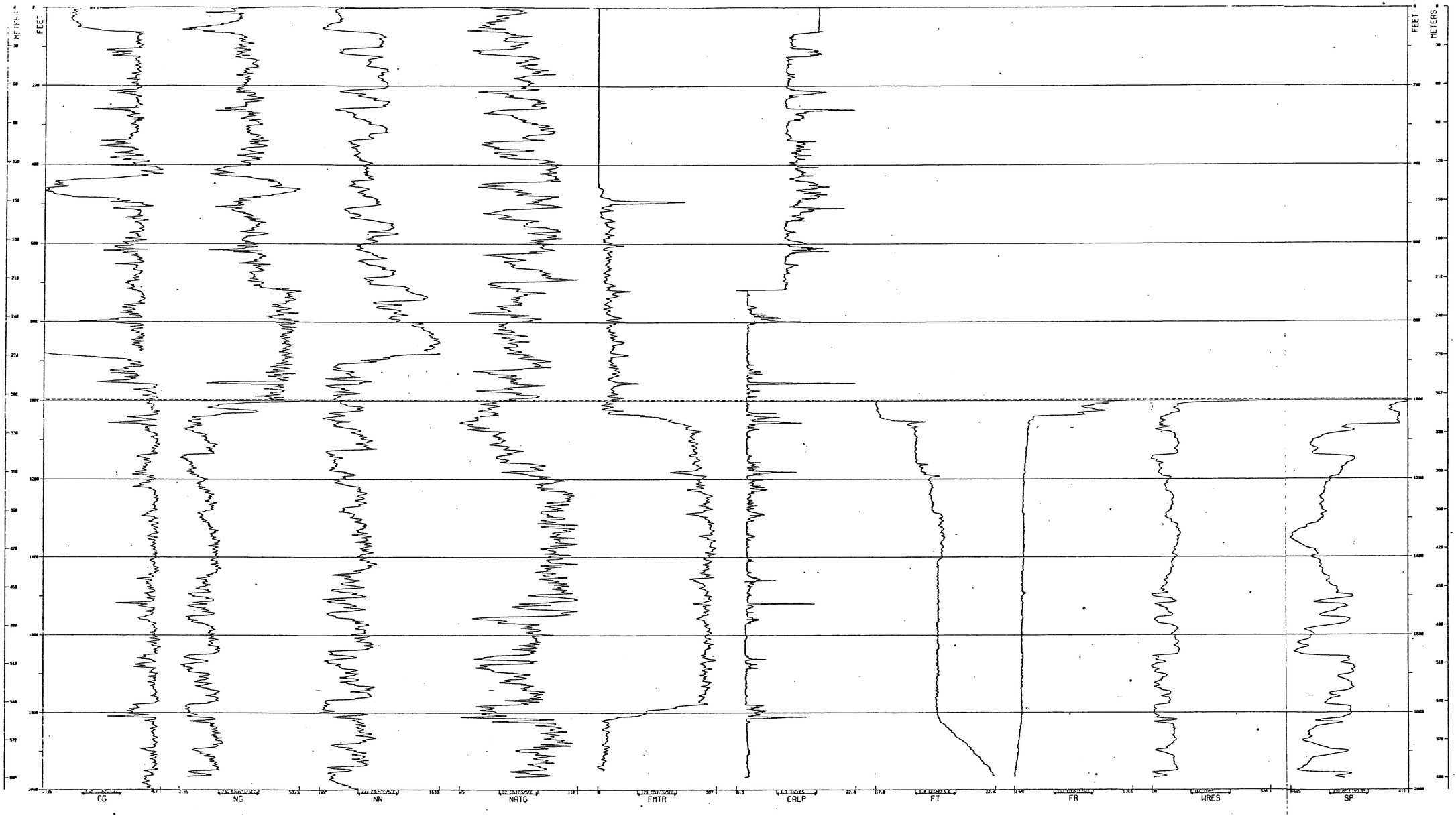
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/25/85 SEW

16N/33E-20A1

-28-



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	BAUMANN FARMS
DATE LOGGED	02/19/76
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	16N/35E-3101
SURFACE ELEVATION	1590
TOTAL DEPTH LOGGED	1971
DEPTH TO WATER LEVEL	997
CASING & LINERS:	
8- 63-2#	

NN AND GG LOGGED 08/21/75 (SAL 8 877 FT)

LEGEND

LOG TITLES

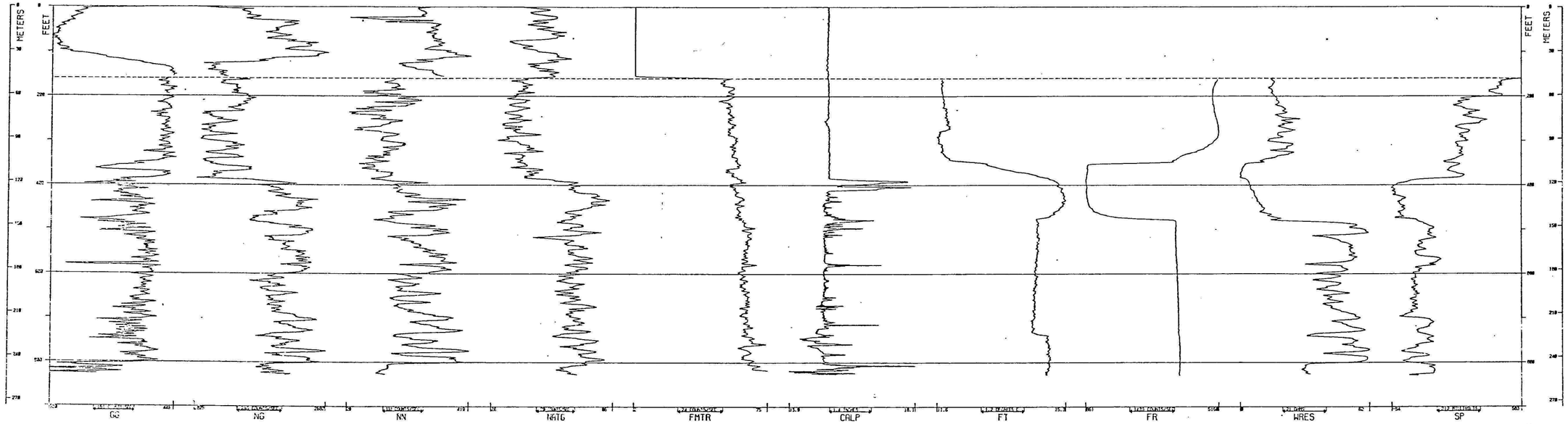
NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NG - - - NEUTRON NEUTRON
NN - - - NEUTRON NEUTRON
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - APPL. RES. SENSITIVITY
FMTR - - - FLOW METER
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

04/27/80 SDH

16N/35E-3101



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	WARDEN #6
DATE LOGGED	04/06/79
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	17N/30E-10P1
SURFACE ELEVATION	1280
TOTAL DEPTH LOGGED	831
DEPTH TO WATER LEVEL	180
CASING & LINERS:	
0- 97=19	0- 386=15

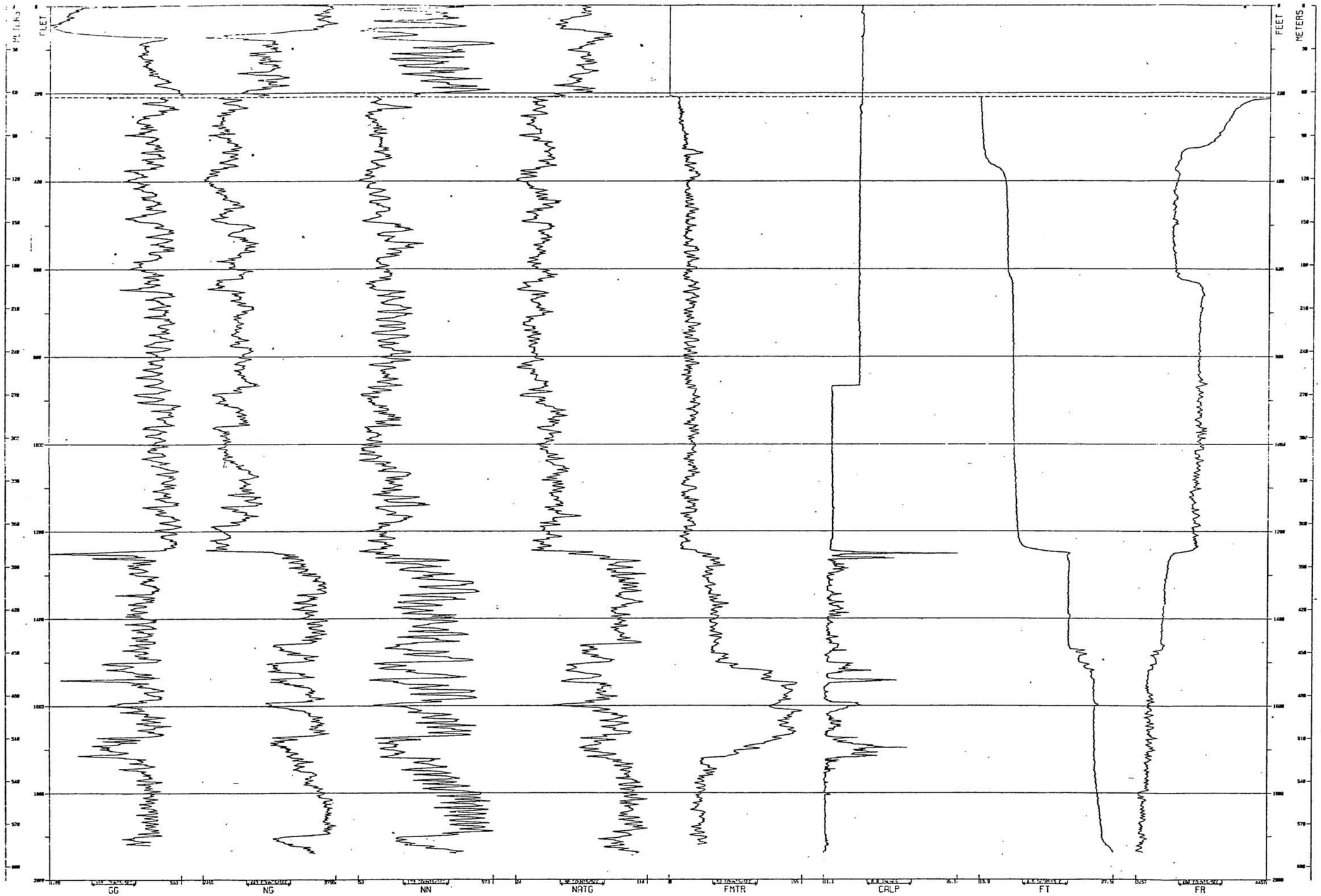
LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER, * = DOWN
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES →
POROSITY (NN-LOG) INCREASES ←
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL



WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	PHILLIPS. C-12
DATE LOGGED	06/25/76
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	17N/31E-12D1
SURFACE ELEVATION	1260
TOTAL DEPTH LOGGED	1942
DEPTH TO WATER LEVEL	209

CASING & LINERS:
0- 58:20 0- 969:16 869-1245:13

LEGEND

LOG TITLES

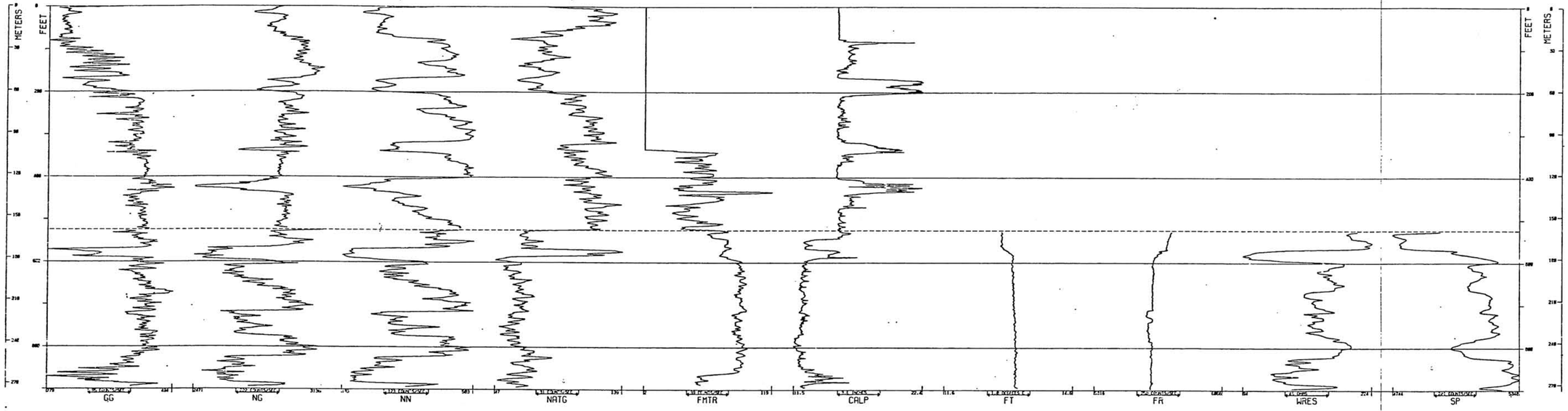
DENSITY (GG-LOG) INCREASES ——→
POROSITY (NG-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE BELOW WATER LEVEL

12/12/83 SDV

17N/31E-12D1

-31-



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	KAUTZ, WILLIAM B.
DATE LOGGED	09/19/78
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	17N/36E-07N1
SURFACE ELEVATION	1730
TOTAL DEPTH LOGGED	900
DEPTH TO WATER LEVEL	524
CASING & LINERS:	
0- 77-15	

LEGEND

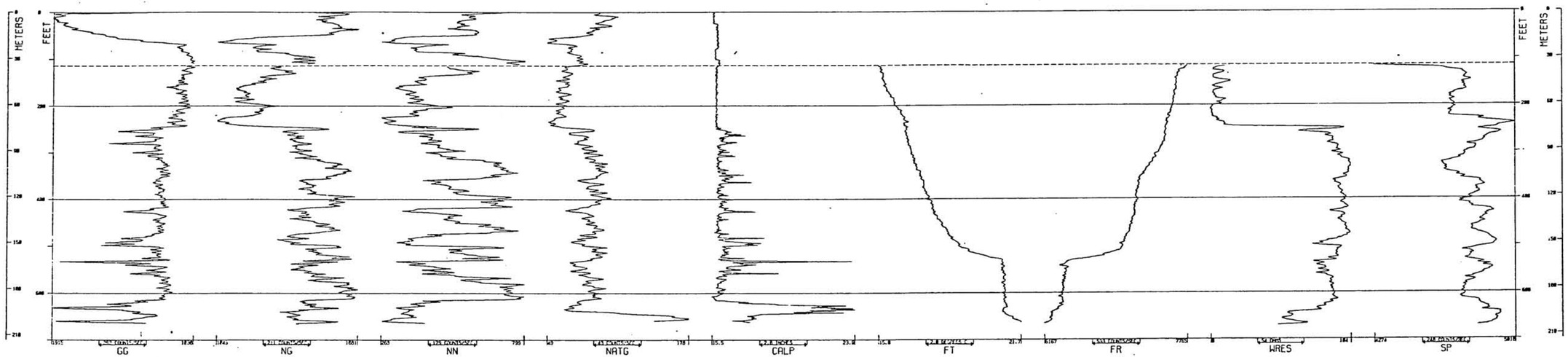
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LR - - - LONG NORMAL
SR - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/02/83 SDK



WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	AMERICAN POTATO #2
DATE LOGGED	01/23/75
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	18N/29E-06Q1
SURFACE ELEVATION	1165
TOTAL DEPTH LOGGED	672
DEPTH TO WATER LEVEL	114
CASING & LINERS:	
0- 250±15	

MUD BELOW 662 FT.

LEGEND

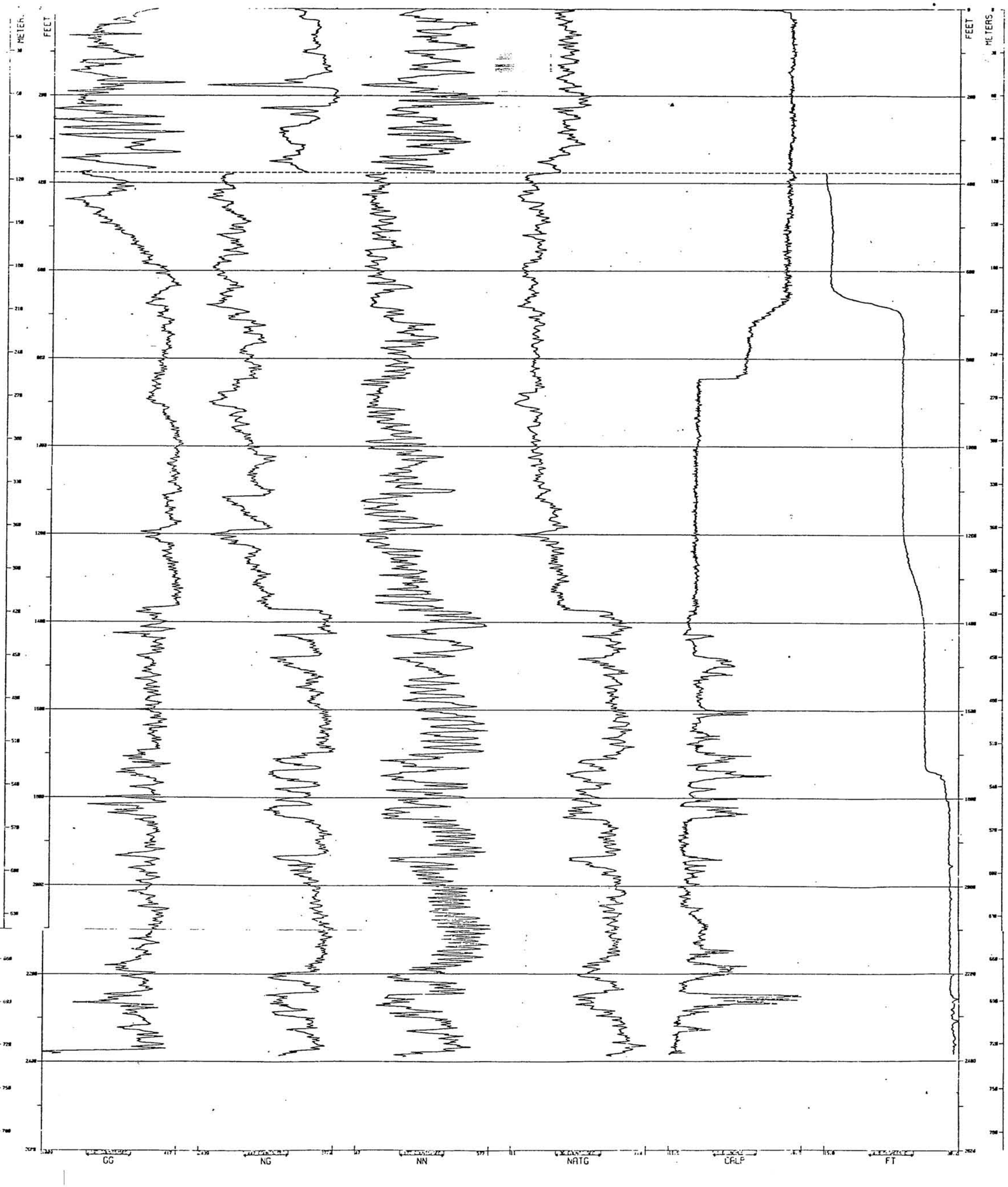
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FATR - - FLOW METER, + = DOWN
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/23/82 SEM



WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	PHILLIPS. C-33
DATE LOGGED	08/12/76
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	16N/31E-3301
SURFACE ELEVATION	1420
TOTAL DEPTH LOGGED	2534
DEPTH TO WATER LEVEL	376

CASING & LINERS:
0- 23=20 0- 845=16 845-1368=13

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

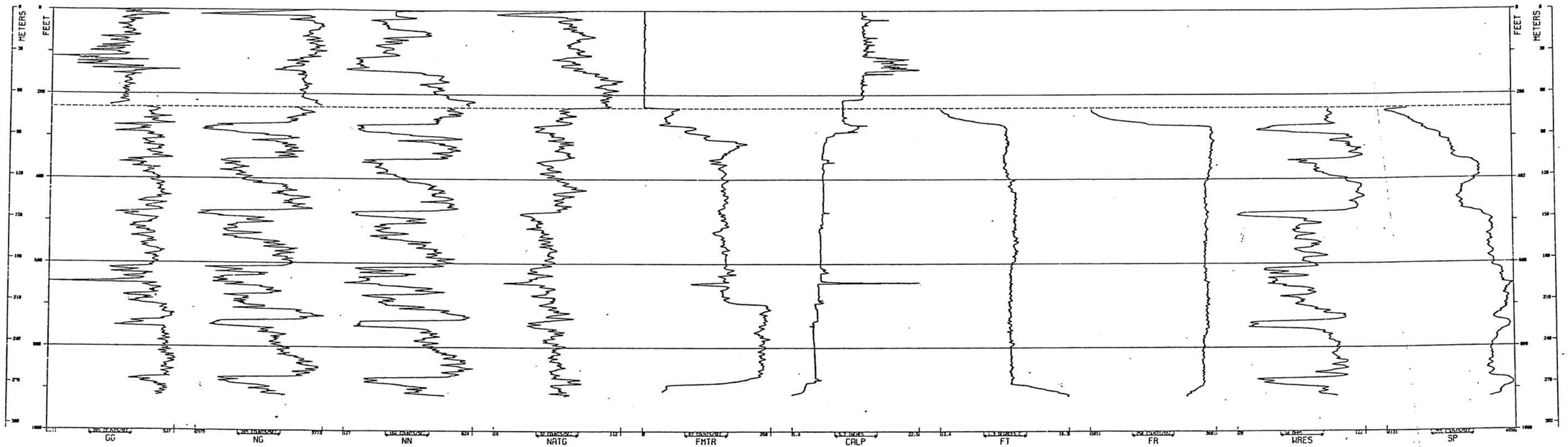
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/12/83 SDI

16N/31E-3301

16N/31E-3301



WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	DON HEINEMANN
DATE LOGGED	02/19/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	18N/36E-04A1
SURFACE ELEVATION	1769
TOTAL DEPTH LOGGED	922
DEPTH TO WATER LEVEL	231
CASING & LINERS:	
0- 10= 15	

LEGEND

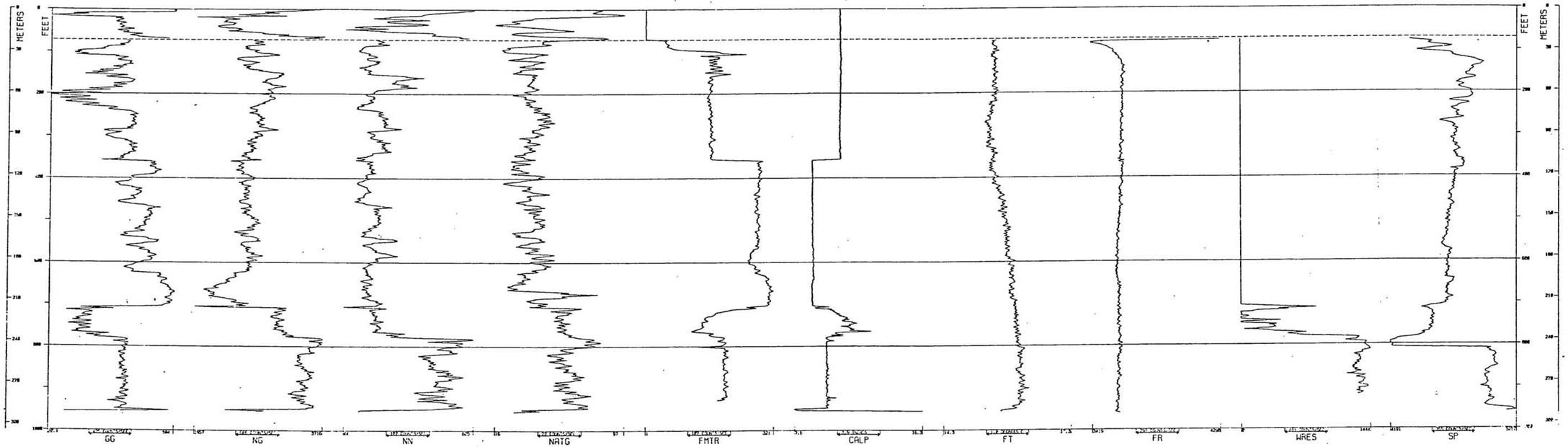
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/29/83 SEA



WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	MOSES LAKE #4
DATE LOGGED	09/26/74
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	19N/28E-20K1
SURFACE ELEVATION	1075
TOTAL DEPTH LOGGED	953
DEPTH TO WATER LEVEL	72

CASING & LINERS:
0- 395=12 362- 711= 8

LEGEND

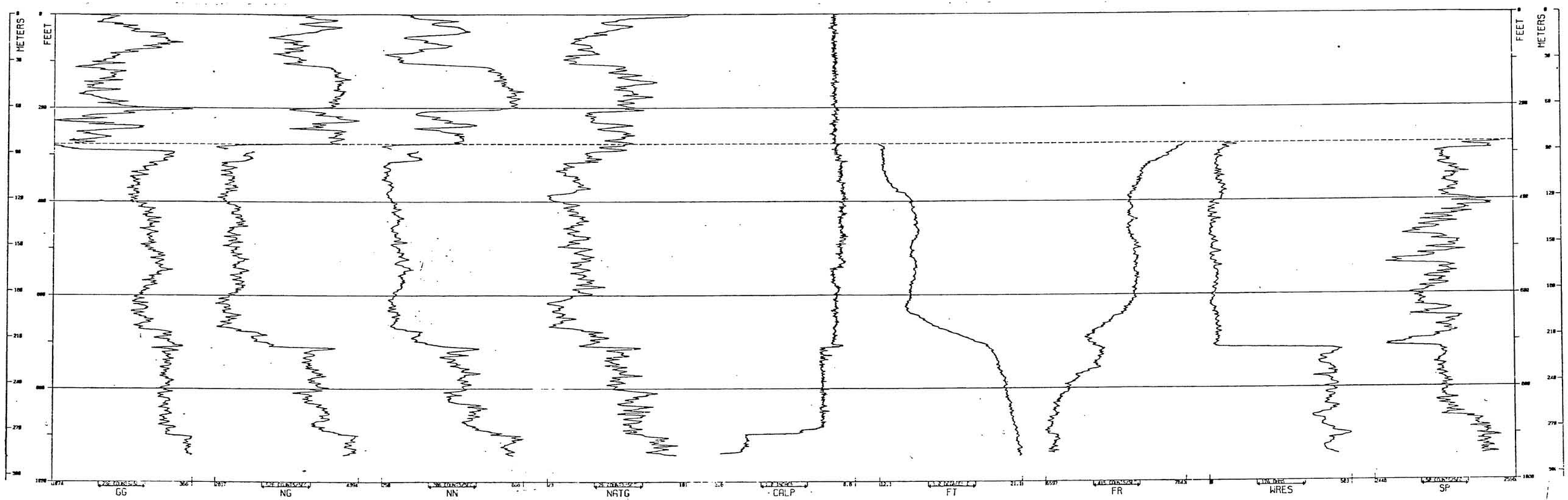
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER - - - DOWN
SNTC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

1/22/83 SEW



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	MASTO FARMS
DATE LOGGED	11/26/74
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	19N/29E-15A1
SURFACE ELEVATION	1365
TOTAL DEPTH LOGGED	947
DEPTH TO WATER LEVEL	277
CASING & LINERS:	
0- 705= 8	

LEGEND

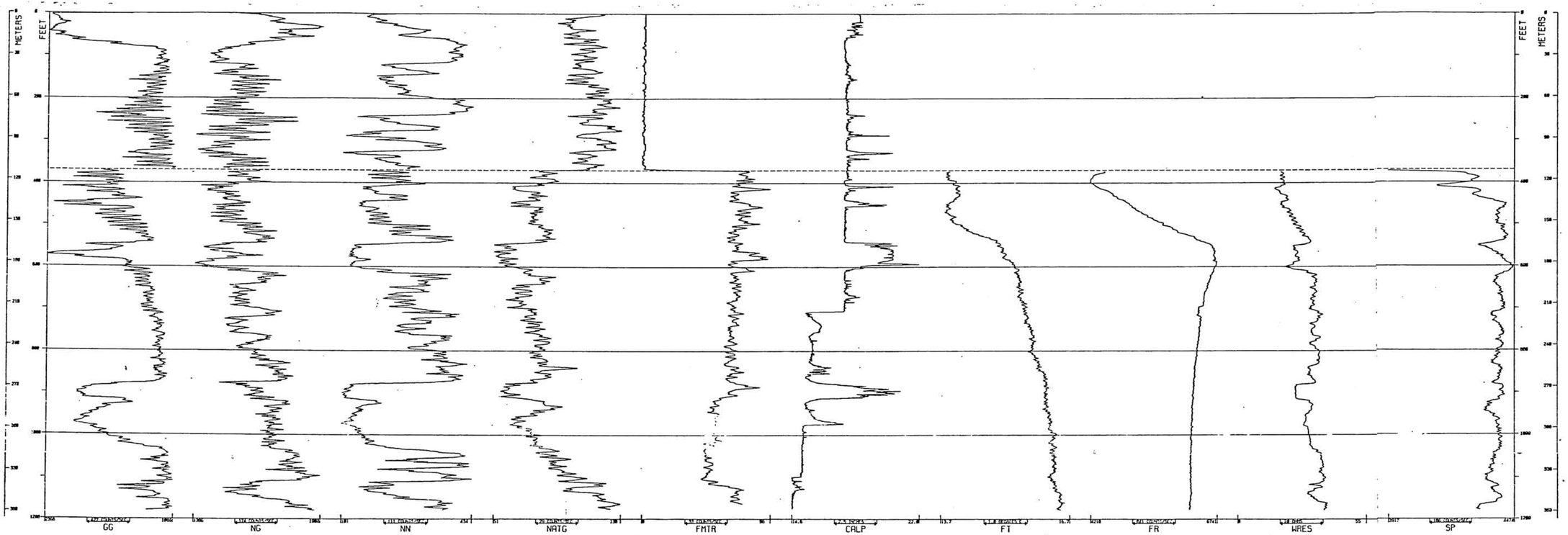
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER, + A DOWN
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/26/73 SDH



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	JERRY BRADCH
DATE LOGGED	12/28/74
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	19N/30E-15L1
SURFACE ELEVATION	1442
TOTAL DEPTH LOGGED	1198
DEPTH TO WATER LEVEL	378
CASING & LINERS:	
8- 26=19	

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA-GAMMA
NN - - - NEUTRON-NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER, + = DOWN
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/22/83 SDV

19N/30E-15L1

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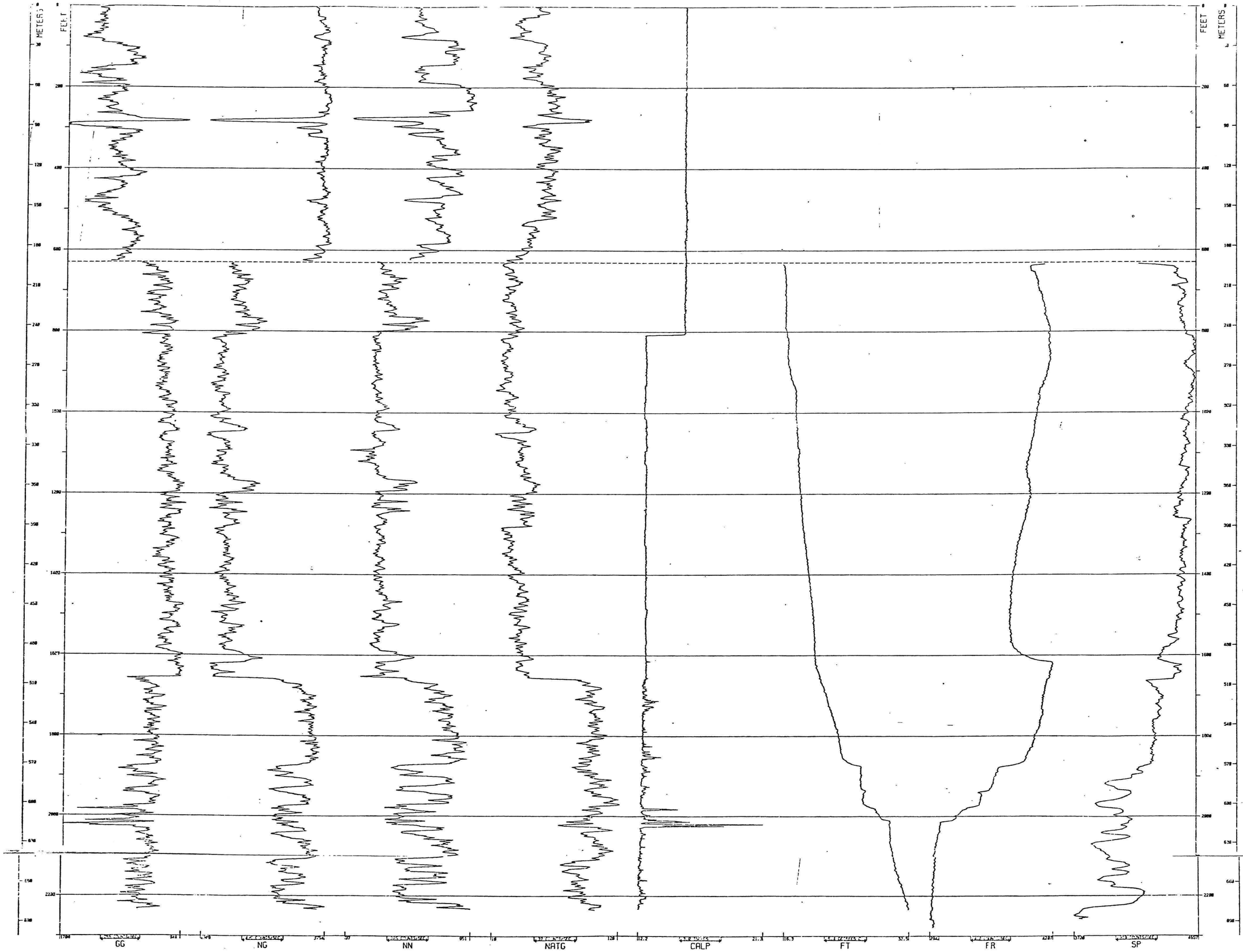

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COLLEGE OF ENGINEERING

ELECTRICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	J & M FARMS
DATE LOGGED	08/07/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	19N/32E-24N1
SURFACE ELEVATION	1674
TOTAL DEPTH LOGGED	2280
DEPTH TO WATER LEVEL	630

CASING & LINERS:
0- 80=20 0- 848=16 848-1648=13

LEGEND

LOG TITLES

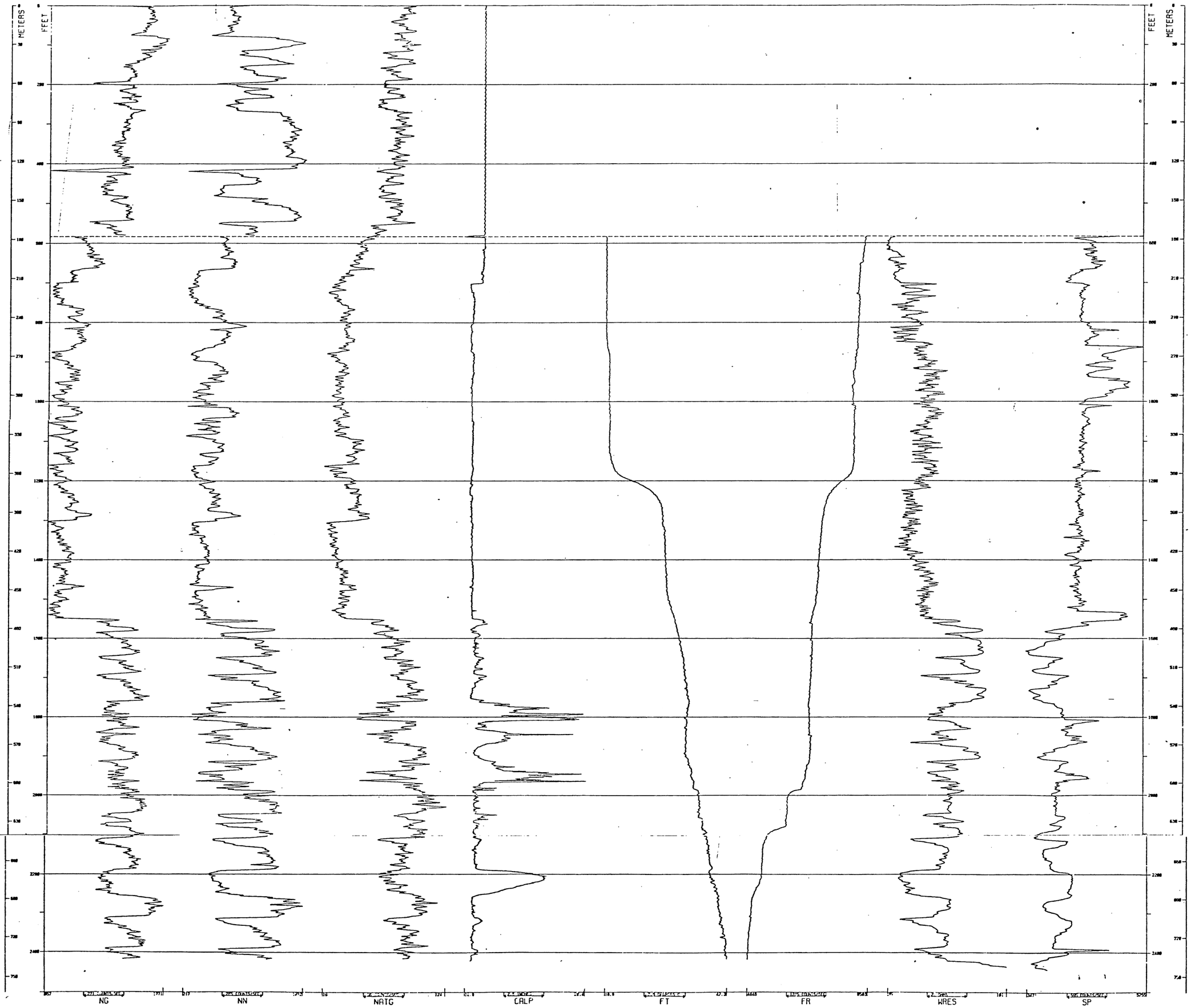
NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FWTR - - - FLOW METER
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES →
POROSITY (NN-LOG) INCREASES ←
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

19N/32E-24N1

19N/32E-24N1



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	HOEFEL #2
DATE LOGGED	01/18/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	19N/33E-08Q2
SURFACE ELEVATION	1825
*TOTAL DEPTH LOGGED	2445
DEPTH TO WATER LEVEL	583
CASING & LINERS*	

0- 78=19 0- 783=15 783-1552=13

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WALL RESISTIVITY
FMTR - - - FLOW METER
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

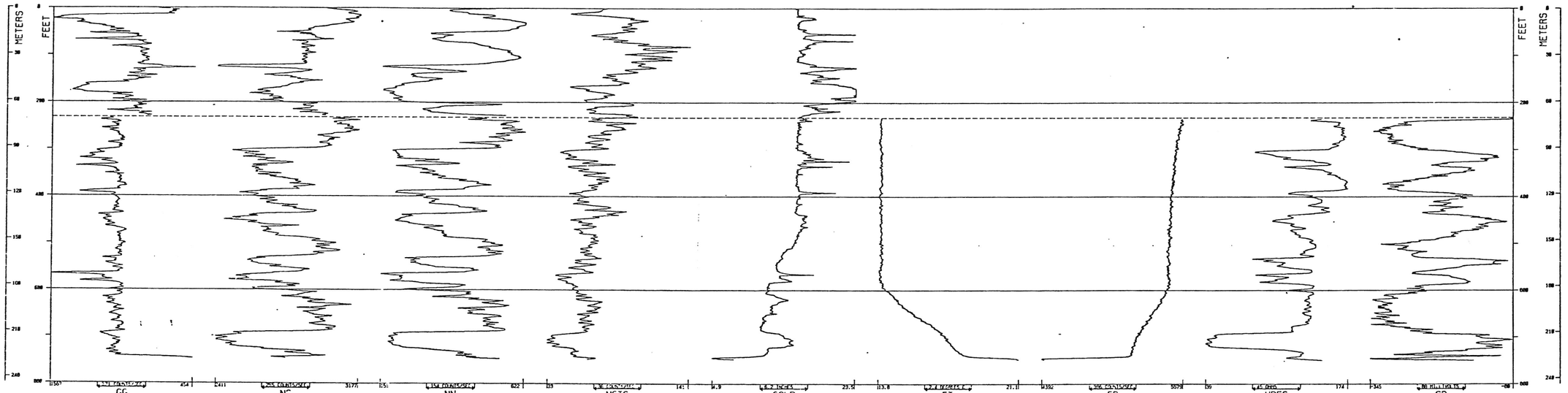
DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/20/83 SEN

19N/33E-08Q2

19N/33E-08Q2



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	GAYLE GERING
DATE LOGGED	03/20/78
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	19N/36E-29K1
SURFACE ELEVATION	1860
TOTAL DEPTH LOGGED	752
DEPTH TO WATER LEVEL	232

CASING & LINERS:
0- 15=15

CASCADING WATER FROM 202' TO 233'.

LEGEND

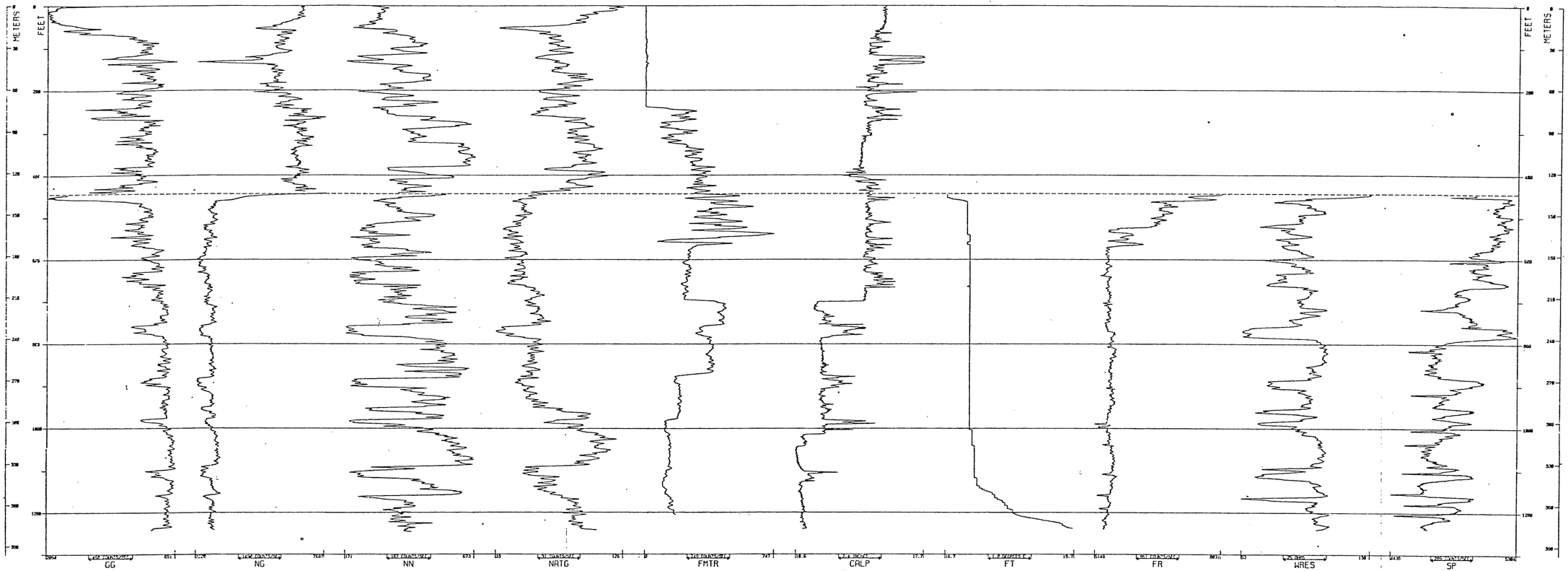
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WALL RESISTIVITY
FRTM - - - FLOW METER
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/23/83 SGM



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	GERING, GAYLE
DATE LOGGED	11/20/75
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	19N/36E-15A1
SURFACE ELEVATION	1905
TOTAL DEPTH LOGGED	1248
DEPTH TO WATER LEVEL	444
CASING & LINERS+	
0- 56=19	

LEGEND

LOG TITLES

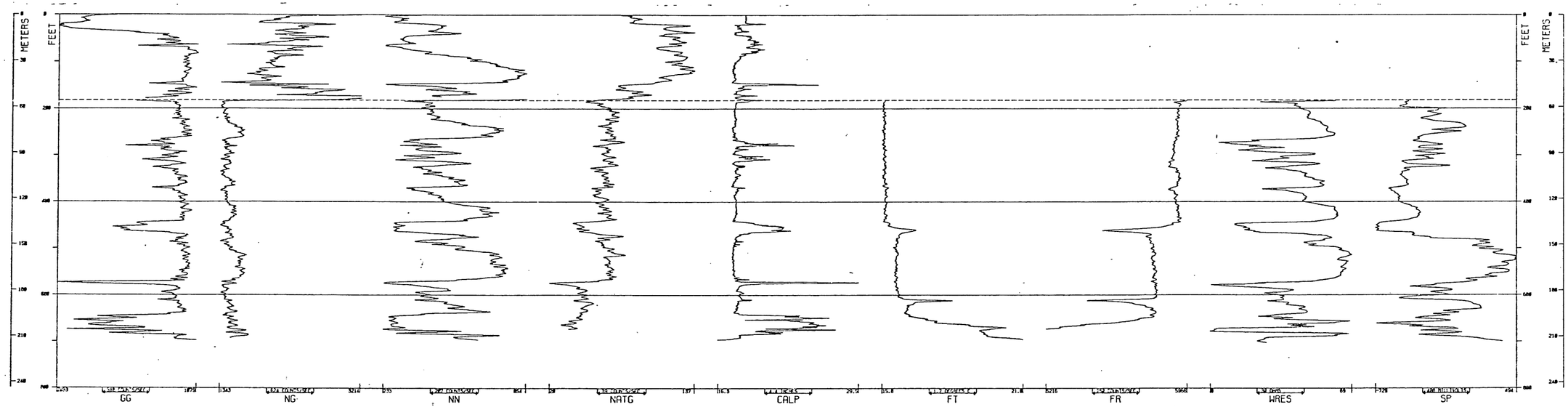
NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FR - - - FLUID PRESSURE
FT - - - FLUID TEMPERATURE
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER, + = DOWN
SNIC - - SONIC
SN - - - SHORT NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/23/83 SGV

19N/36E-15A1



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	E.B. COLE
DATE LOGGED	05/13/75
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	22N/29E-07H1
SURFACE ELEVATION	1295
TOTAL DEPTH LOGGED	705
DEPTH TO WATER LEVEL	182
CASING & LINERS:	
0- 28:19	

NOT LOGGED TO TOTAL DEPTH.
REPORTED DEPTH 1225 FT.

LEGEND

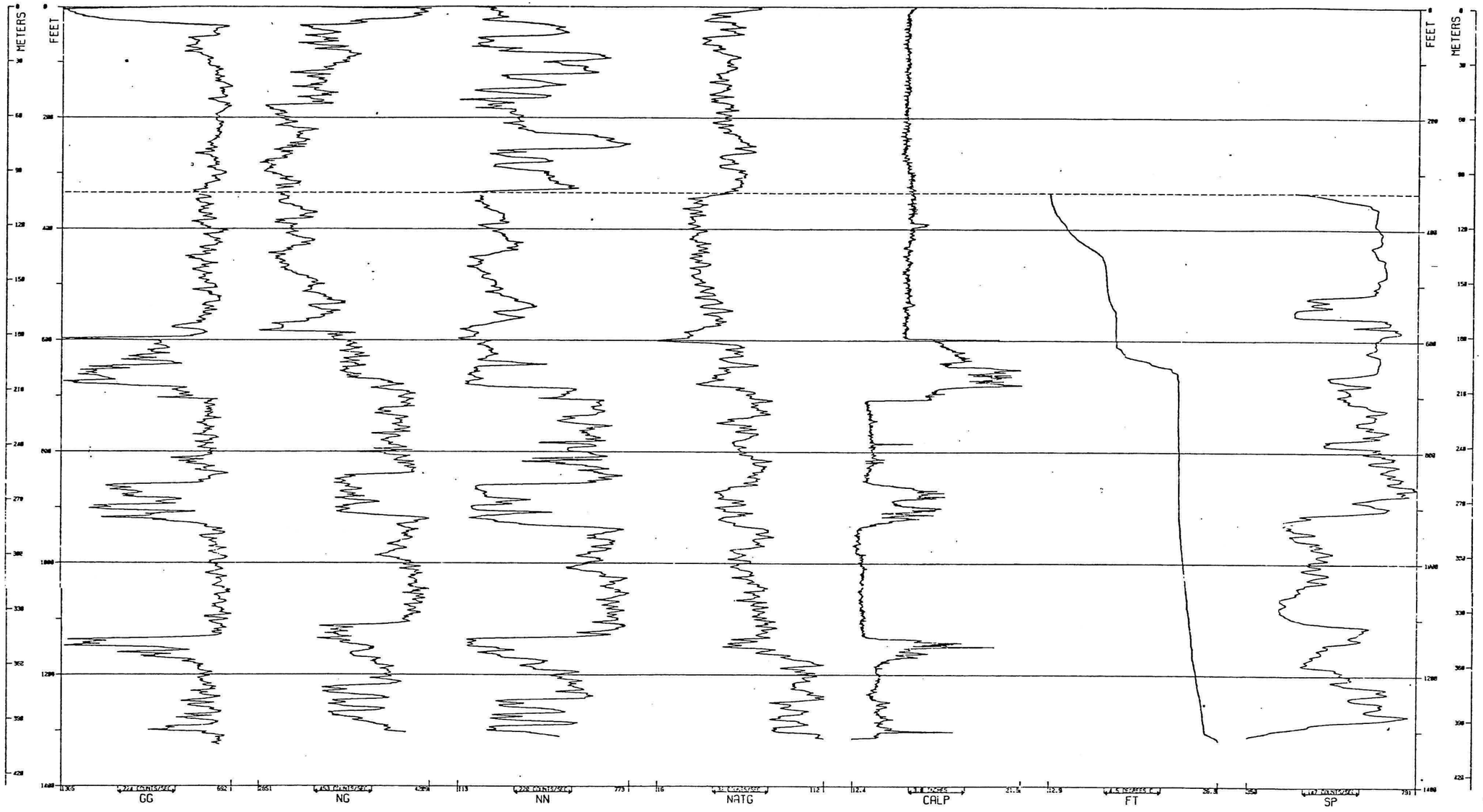
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WALL RESISTIVITY
FMTR - - - FLOW METER, " = DOWN
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/22/83 SCW



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	REINKE FARM CO.
DATE LOGGED	01/21/76
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	20N/29E-25C1
SURFACE ELEVATION	1422
TOTAL DEPTH LOGGED	1331
DEPTH TO WATER LEVEL	335
CASING & LINERS:	
0- 598=16	

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WAES - - WALL ALTERNATIVITY
FMTR - - FLOW METER, * = DOWN
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES →
POROSITY (NN-LOG) INCREASES ←
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE FOR WATER LEVEL

11/22/83 SEW

20N/29E-25C1

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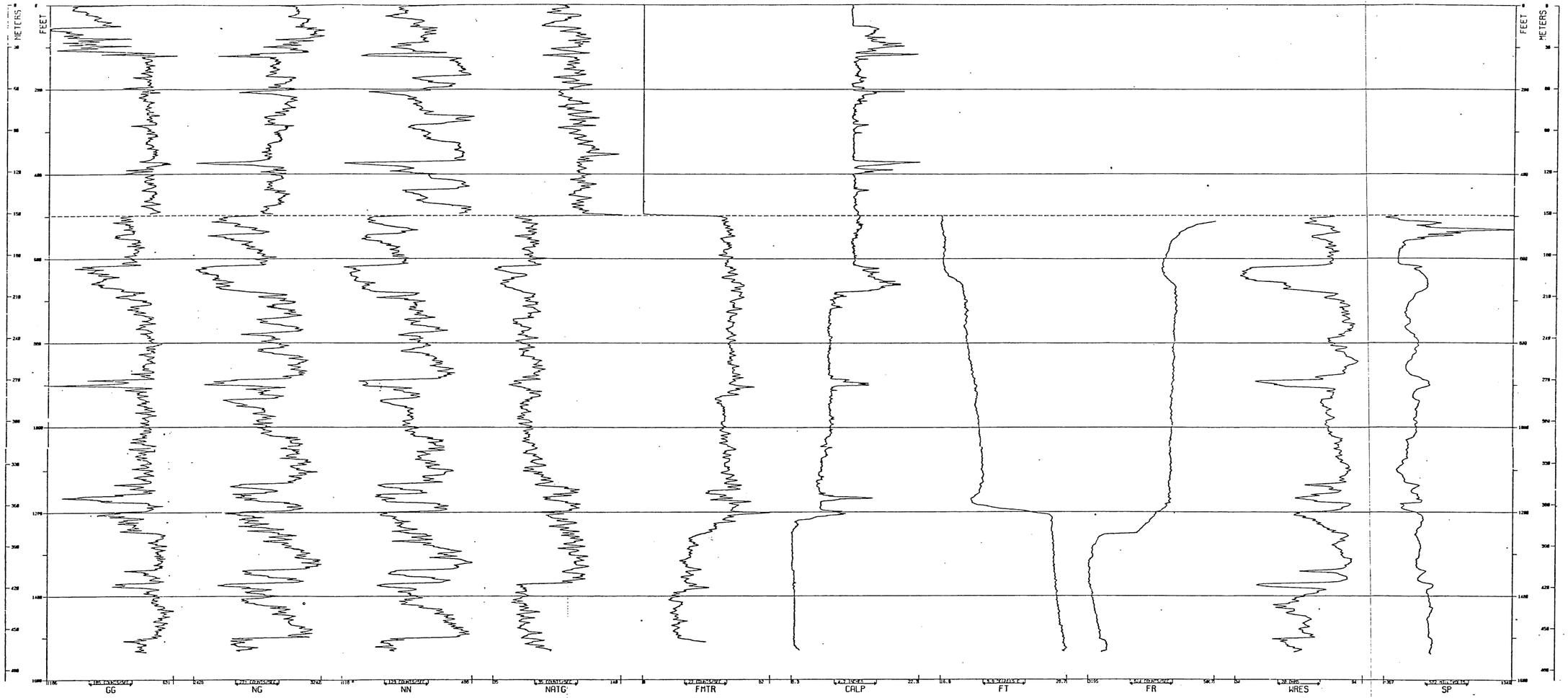

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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	CLINT CLARSSEN
DATE LOGGED	12/28/77
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	20N/30E-21G1
SURFACE ELEVATION	1560
TOTAL DEPTH LOGGED	1541
DEPTH TO WATER LEVEL	498
CASING & LINERS:	
0- 49=15	

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

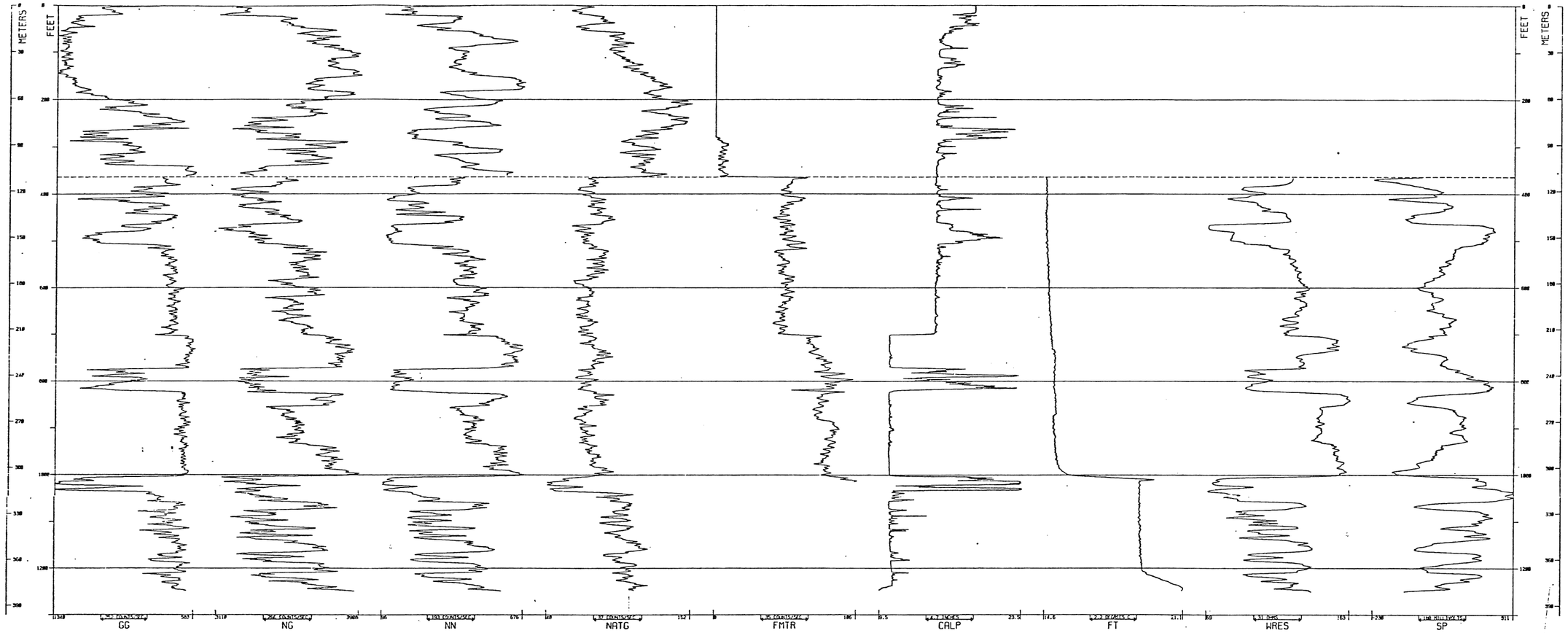
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

04/25/83 SCH

20N/30E-21G1

-45-



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	NEIBAUR/WEST
DATE LOGGED	02/13/76
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	20N/30E-32K1
SURFACE ELEVATION	1460
TOTAL DEPTH LOGGED	1255
DEPTH TO WATER LEVEL	364
CASING & LINERS:	
0- 20=20	

LEGEND

LOG TITLES

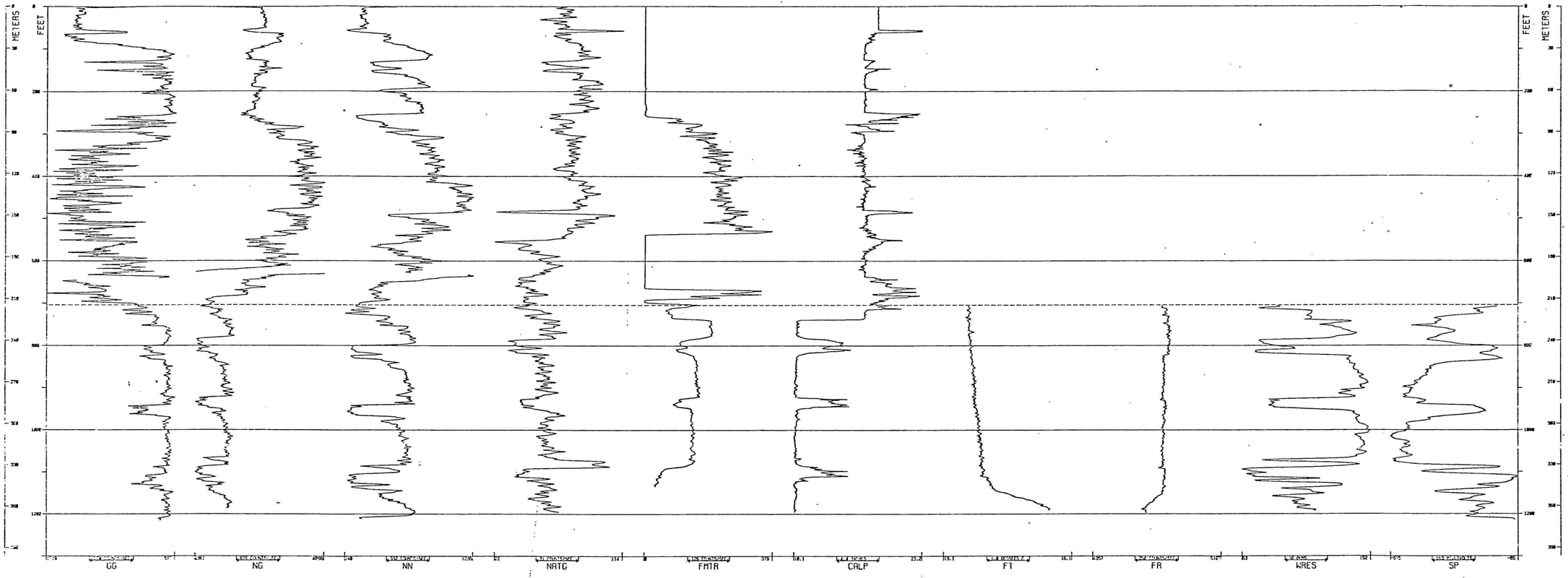
NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNTC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

04/25/83 SEW

20N/30E-32K1



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	R. KAGELE
DATE LOGGED	01/07/77
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	20N/35E-27A1
SURFACE ELEVATION	2205
TOTAL DEPTH LOGGED	1217
DEPTH TO WATER LEVEL	704
CASING & LINERS:	
0- 56=19	

CASCADING WATER FROM 624 FT.

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNTC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

02/03/83 SEW

20N/35E-27A1

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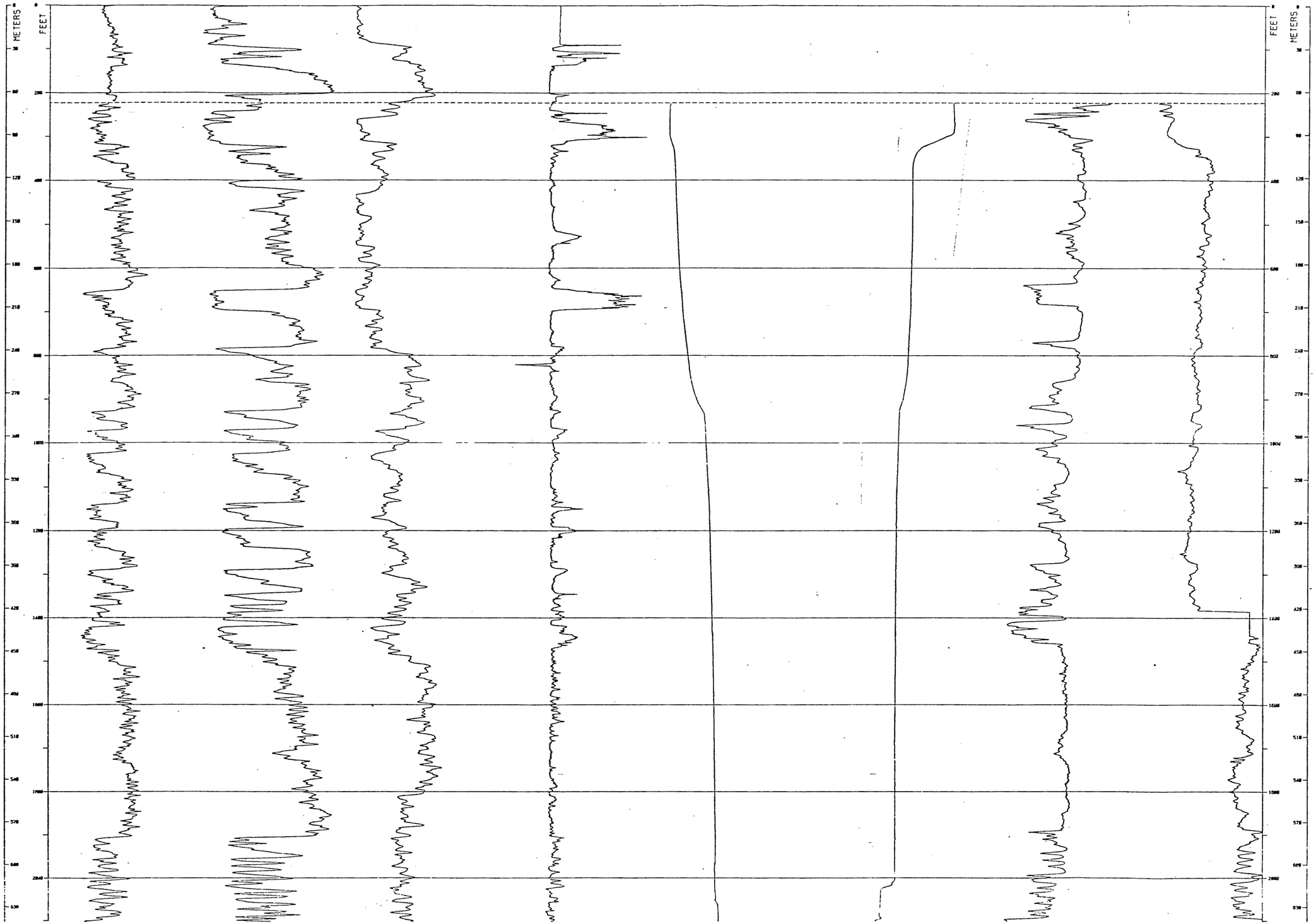

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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	BASALT EXPLORER
DATE LOGGED	06/14/72
STATE	WASHINGTON
COUNTY	LINCOLN
LOCATION	21N/31E-10M1
SURFACE ELEVATION	1610
TOTAL DEPTH LOGGED	4404
DEPTH TO WATER LEVEL	223
CASING & LINERS+	
0- 108=10	

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMR - - - FLOW METER, + = DOWN
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (CO-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

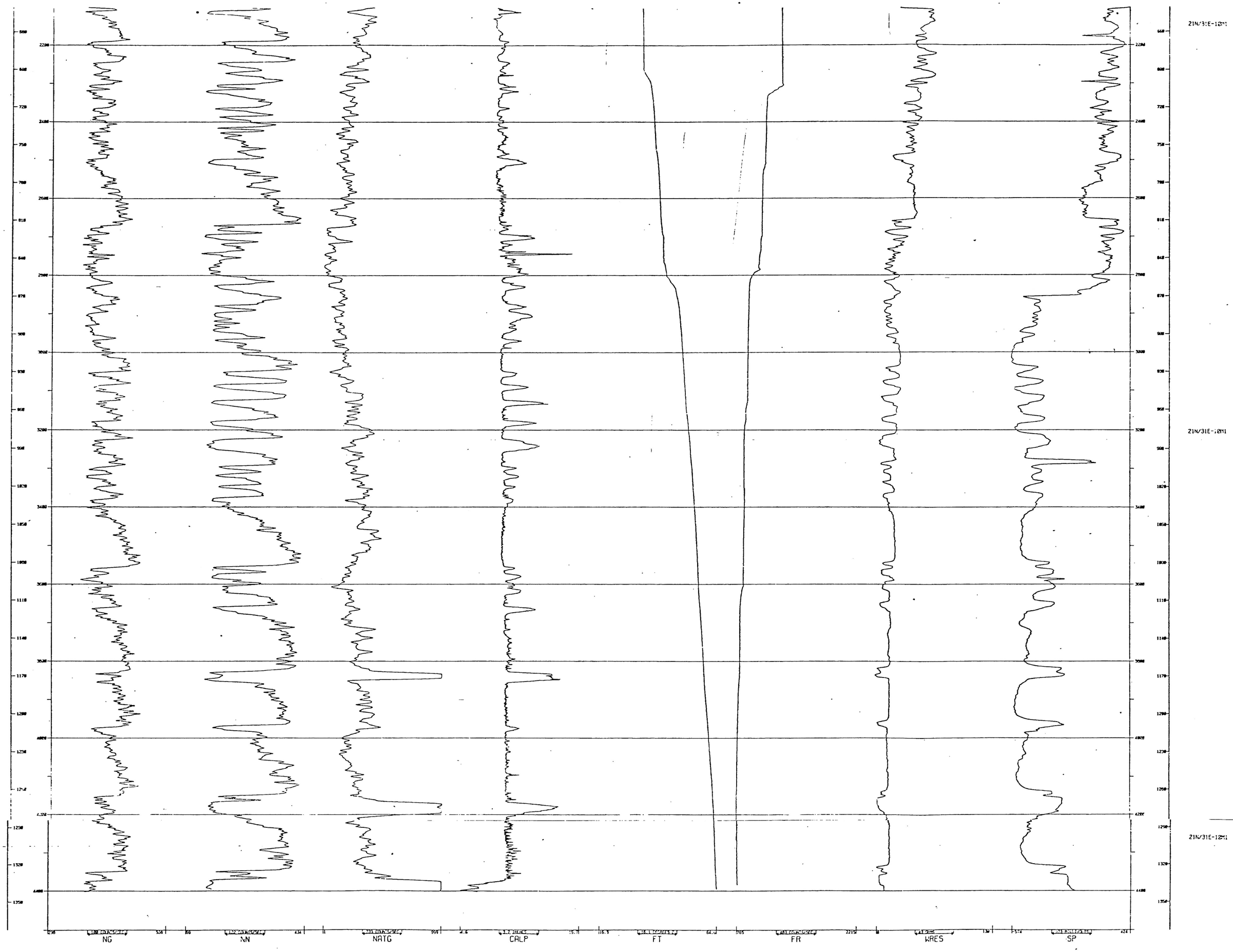
NOTE+ SCALE MAY CHANGE ABOVE WATER LEVEL.

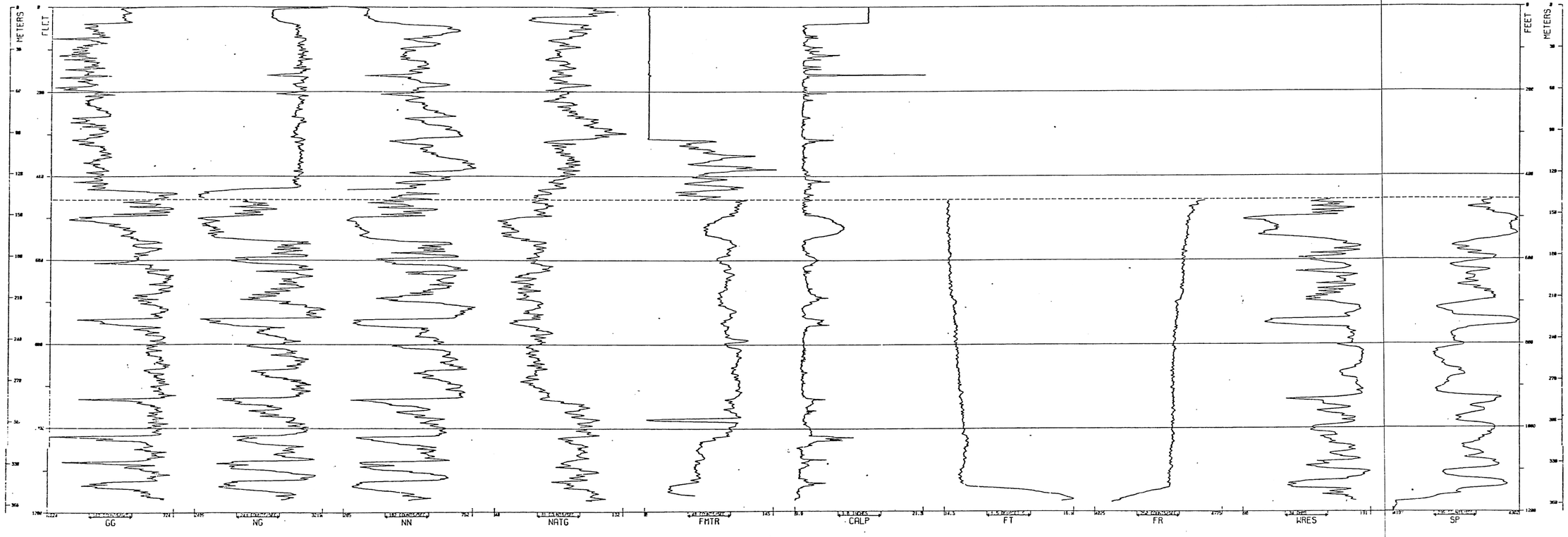
11/23/82 SGW

21N/31E-10M1

Continued next sheet

Basalt Explorer
Continued from previous sheet





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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	BOB KISSLER
DATE LOGGED	04/03/77
STATE	WASHINGTON
COUNTY	LINCOLN
LOCATION	21N/31E-3202
SURFACE ELEVATION	1670
TOTAL DEPTH LOGGED	1200
DEPTH TO WATER LEVEL	456
CASING & LINERS:	
0- 42=16	

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WALL RESISTIVITY
FMTR - - - FLOW METER - - DOWN
SNIC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

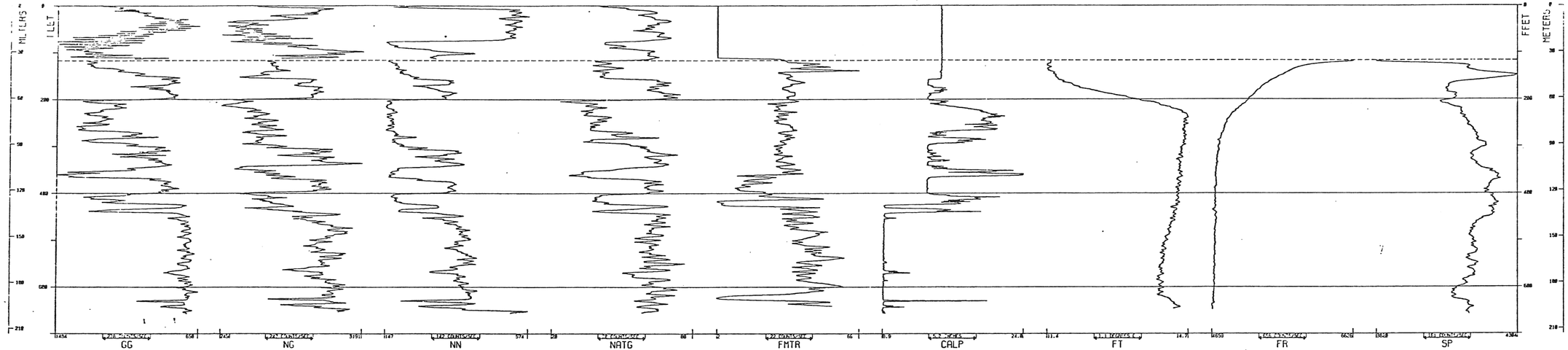
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/23/83 SEW

21N/31E-3202

-50-



WASHINGTON STATE UNIVERSITY

COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	ODESSA CITY
DATE LOGGED	11/22/77
STATE	WASHINGTON
COUNTY	LINCOLN
LOCATION	21N/33E-09E1
SURFACE ELEVATION	1610
TOTAL DEPTH LOGGED	680
DEPTH TO WATER LEVEL	117
CASING & LINERS:	
@- 168-15	

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WALL RESISTIVITY
FMTR - - - FLOW METER
SATC - - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

04/27/83 SEN

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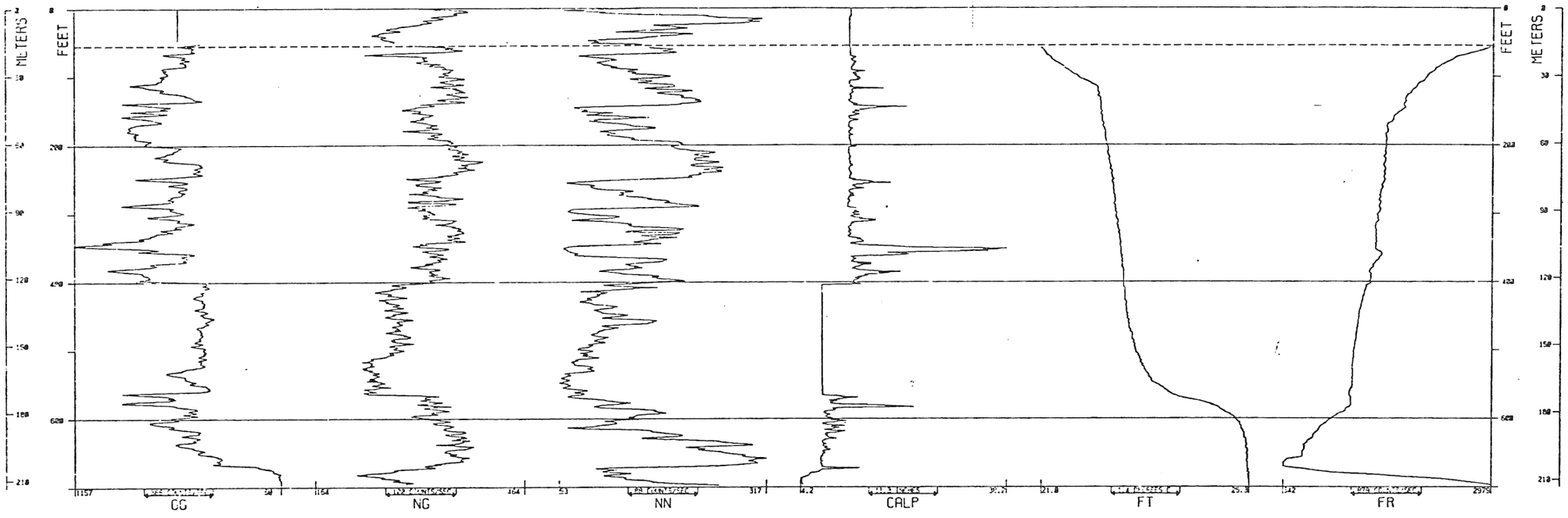

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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	FRED BLAUERT
DATE LOGGED	03/23/72
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	15N/38E-34F1
SURFACE ELEVATION	1250
TOTAL DEPTH LOGGED	609
DEPTH TO WATER LEVEL	55
CASING & LINERS:	
0- 77=11 402- 585= 8	

LEGEND

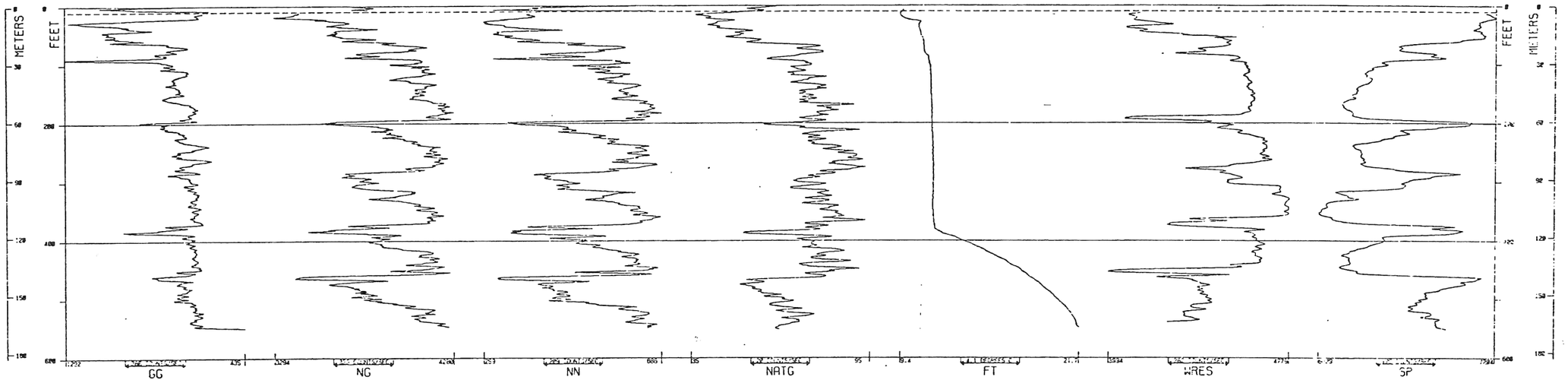
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER, + = DOWN
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL.

03/04/83 ISW



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	CONNELL
DATE LOGGED	03/27/74
STATE	WASHINGTON
COUNTY	ADAMS
LOCATION	17N/37E-27D1
SURFACE ELEVATION	1585
TOTAL DEPTH LOGGED	354
DEPTH TO WATER LEVEL	10
CASING & LINERS:	

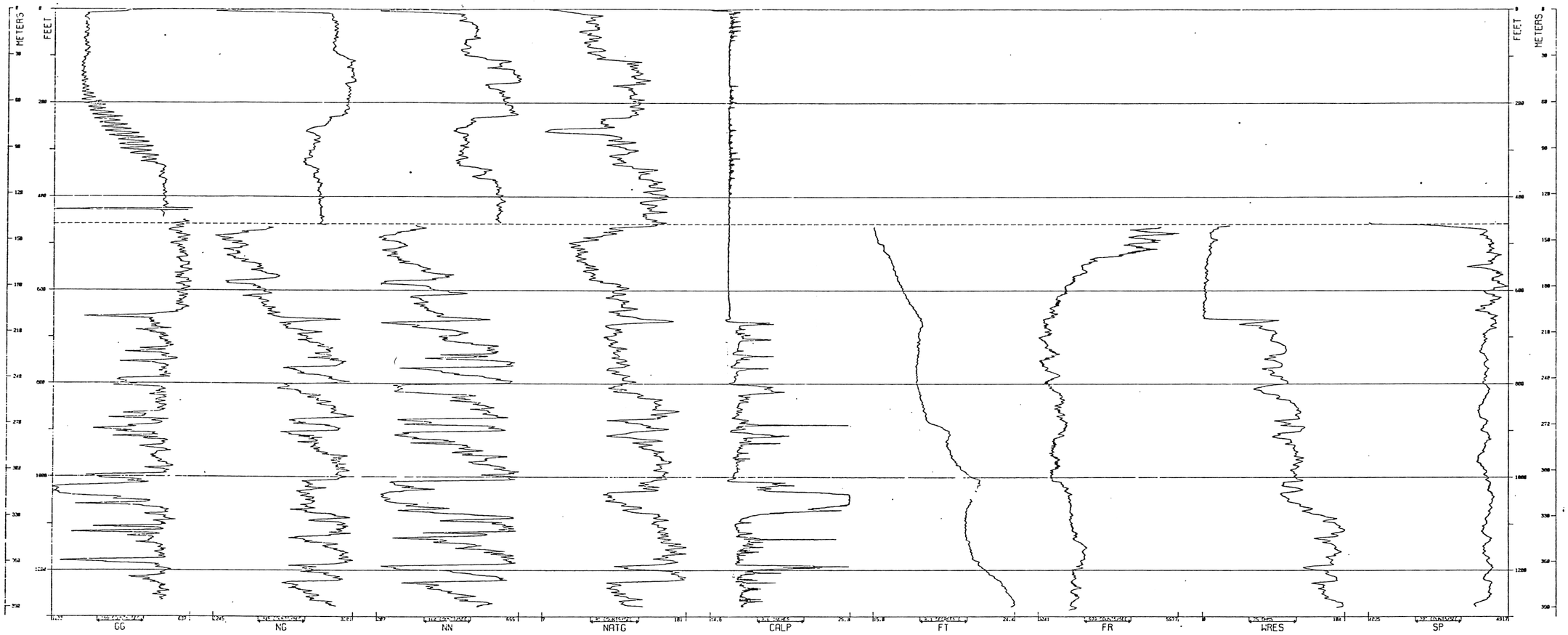
LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FH - - FLUID RESISTIVITY
SCAP - - SPACING
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FWTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	W. W. P.
DATE LOGGED	01/27/77
STATE	WASHINGTON
COUNTY	ADDIN
LOCATION	11N/46E-32E1
SURFACE ELEVATION	1170
TOTAL DEPTH LOGGED	1288
DEPTH TO WATER LEVEL	456
CASING & LINERS:	
2- 251=24	0- 201=20 2- 662=16

CLARKSTON #7

LEGEND

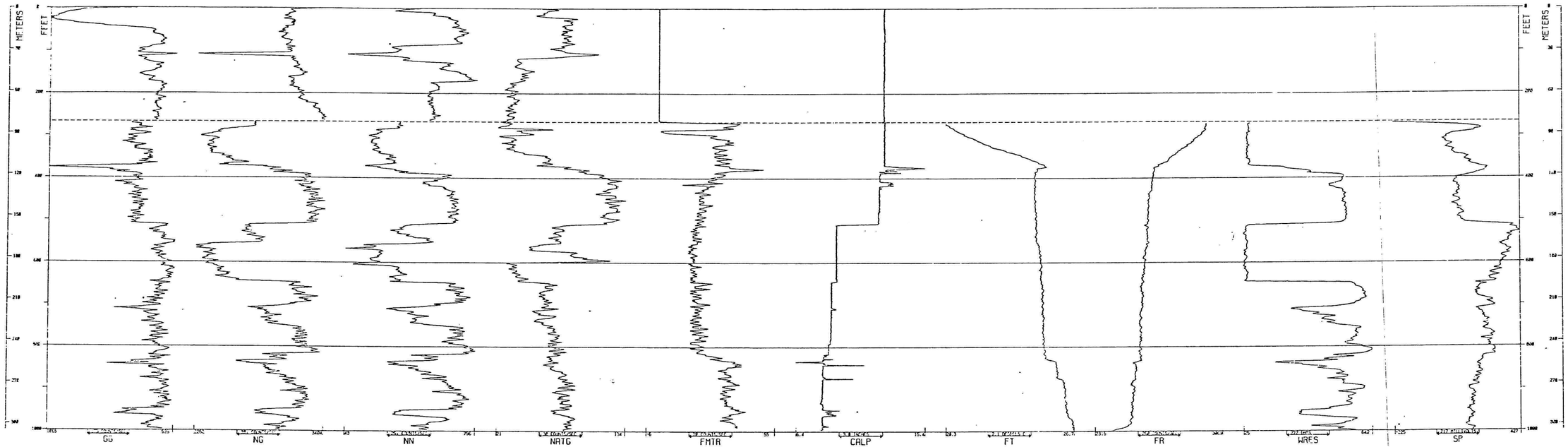
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11N/45E-32E1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	TOM POWERS
DATE LOGGED	02/22/77
STATE	WASHINGTON
COUNTY	BENTON
LOCATION	25N-25E-05D1
SURFACE ELEVATION	615
TOTAL DEPTH LOGGED	1002
DEPTH TO WATER LEVEL	267
CASING & LINERS:	
0- 370=12 528- 645= 9	

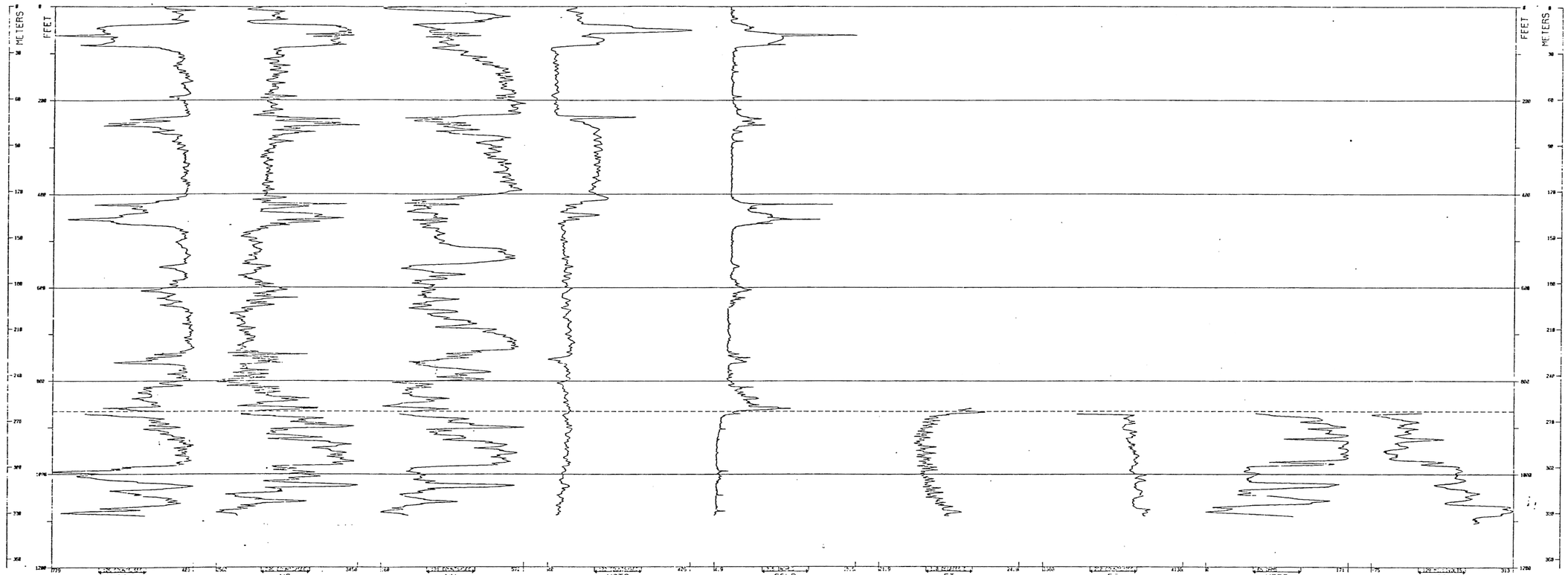
LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (CO-LOG) INCREASES
POROSITY (NN-LOG) INCREASES
WATER LEVEL

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	HORRIGAN FARMS
DATE LOGGED	01/19/78
STATE	WASHINGTON
COUNTY	BENTON
LOCATION	07N/24E-08D1
SURFACE ELEVATION	1450
TOTAL DEPTH LOGGED	1108
DEPTH TO WATER LEVEL	865
CASING & LINERS:	

WELL DEEPENED FROM 600+ FT. TO PRESENT DEPTH IN SUMMER OF 1977.

LEGEND

LOG TITLES

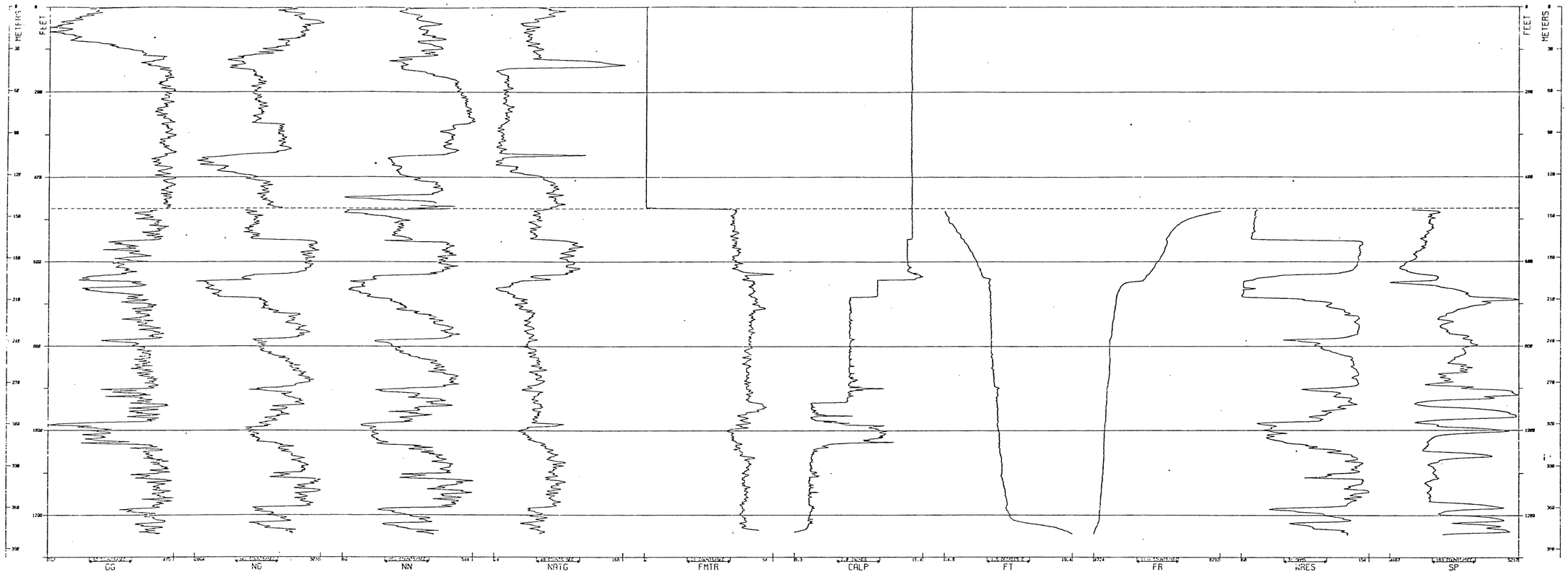
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FATM - - FLOW METER
SNIC - - SONIC

DENSITY (DG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

07N/24E-08D1

-56-



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	DR. PALMER #2
DATE LOGGED	10/16/78
STATE	WASHINGTON
COUNTY	BENTON
LOCATION	07N/25E-23F1
SURFACE ELEVATION	840
TOTAL DEPTH LOGGED	1249
DEPTH TO WATER LEVEL	474
CASING & LINERS:	
0- 605=15 643- 683=13	

LEGEND

LOG TITLES

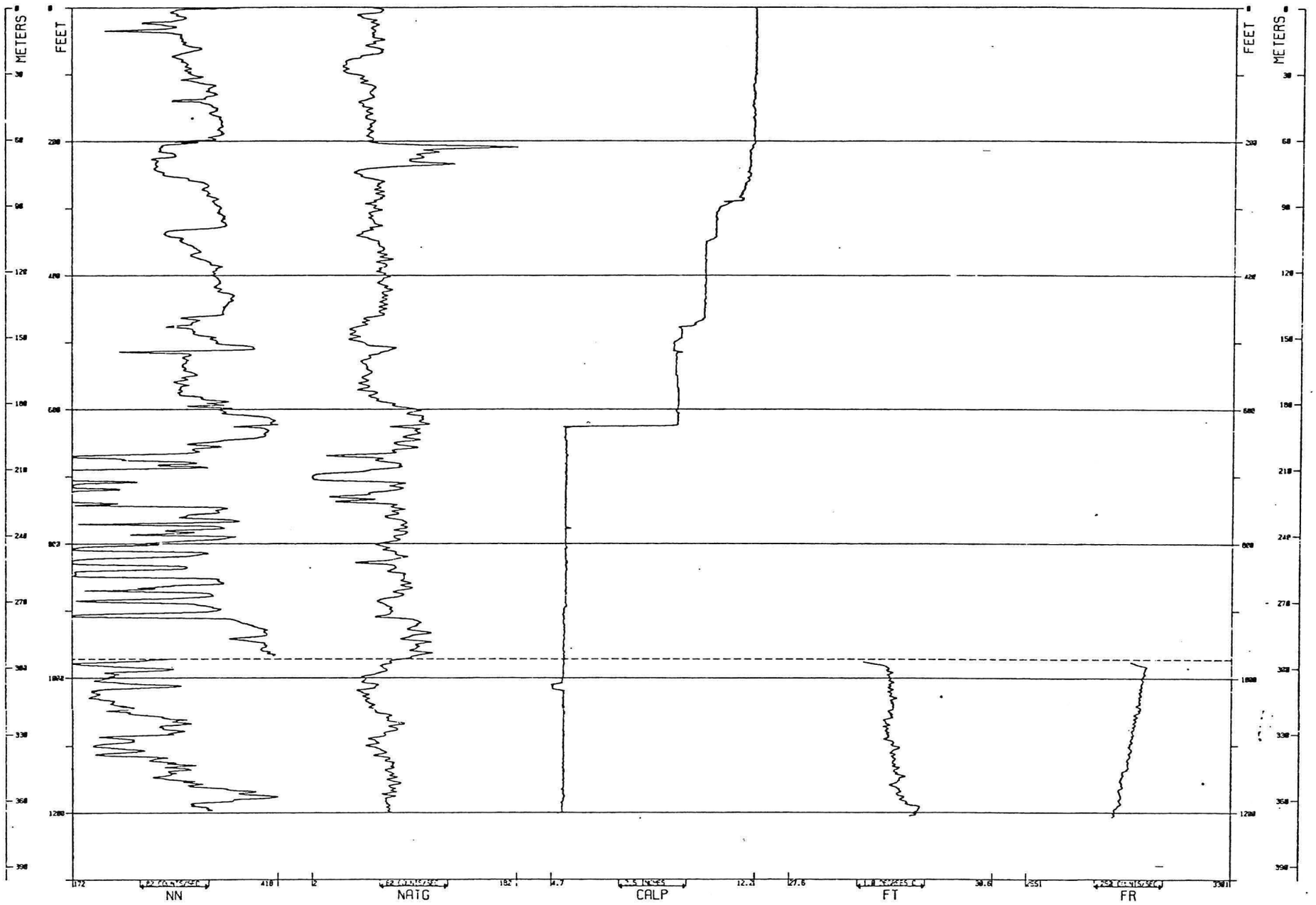
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (DG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

07N/25E-23F1

-57-



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	HORSE HEAVEN TEST
DATE LOGGED	11/16/79
STATE	WASHINGTON
COUNTY	BENTON
LOCATION	07N/27E-36A1
SURFACE ELEVATION	1325
TOTAL DEPTH LOGGED	1229
DEPTH TO WATER LEVEL	972
CASING & LINERS:	

0- 100=16 0- 525=12 441- 620=10

DRILL RCD IN HOLE FROM 67[illegible] TO 941[illegible].

LEGEND

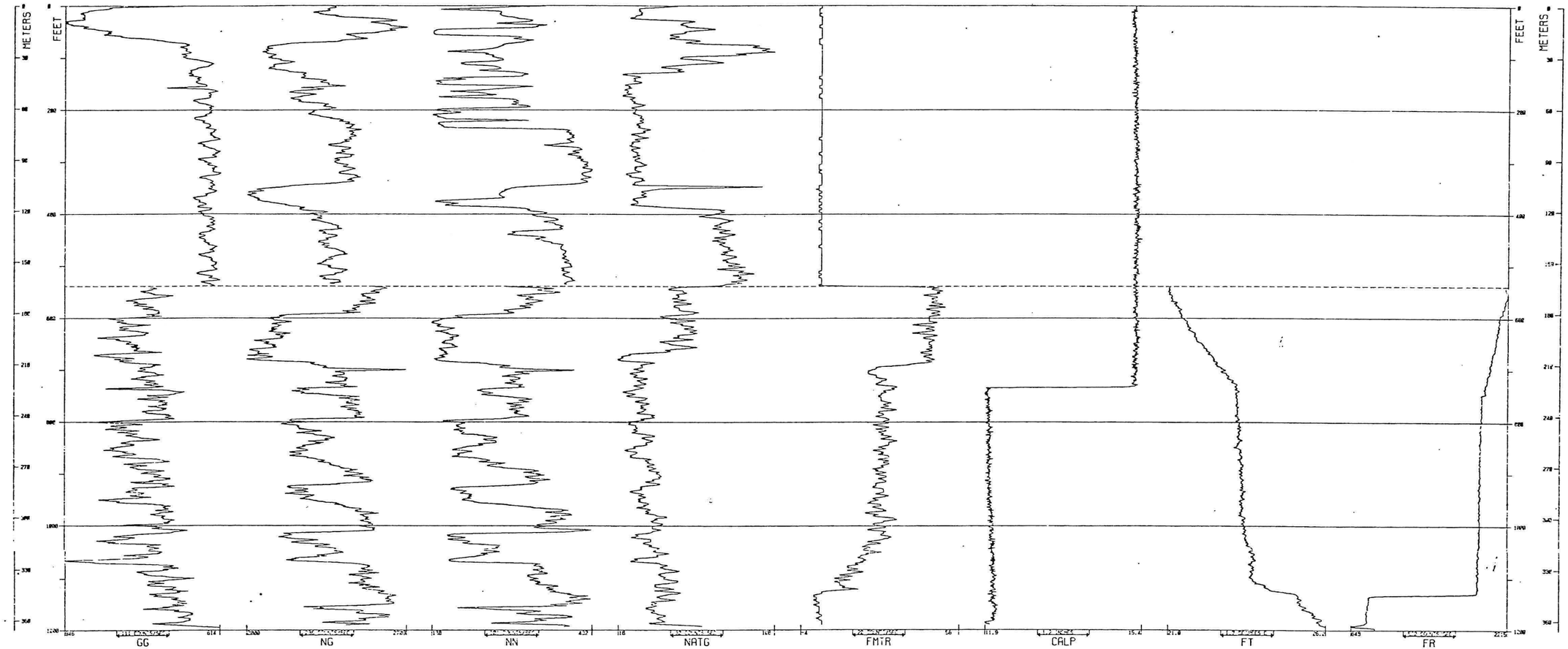
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WAFS - - WAFS RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

07N/27E-36A1



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GEOLOGICAL ENGINEERING SEC
WELL LOG PROCESSING SYST

NAME OF WELL	PROSSER EXPT.
DATE LOGGED	07/28/77
STATE	WASHINGTON
COUNTY	BENTON
LOCATION	09N/25E-06B1
SURFACE ELEVATION	1270
TOTAL DEPTH LOGGED	1202
DEPTH TO WATER LEVEL	539

CASING & LINERS:
0- 730=16 730-1213=12

NO SP/R SINCE THE HOLE WAS CASED TO T
FMTR -- NO MEASURABLE FLOW DETECTED.

LEGEND

LOG TITLES

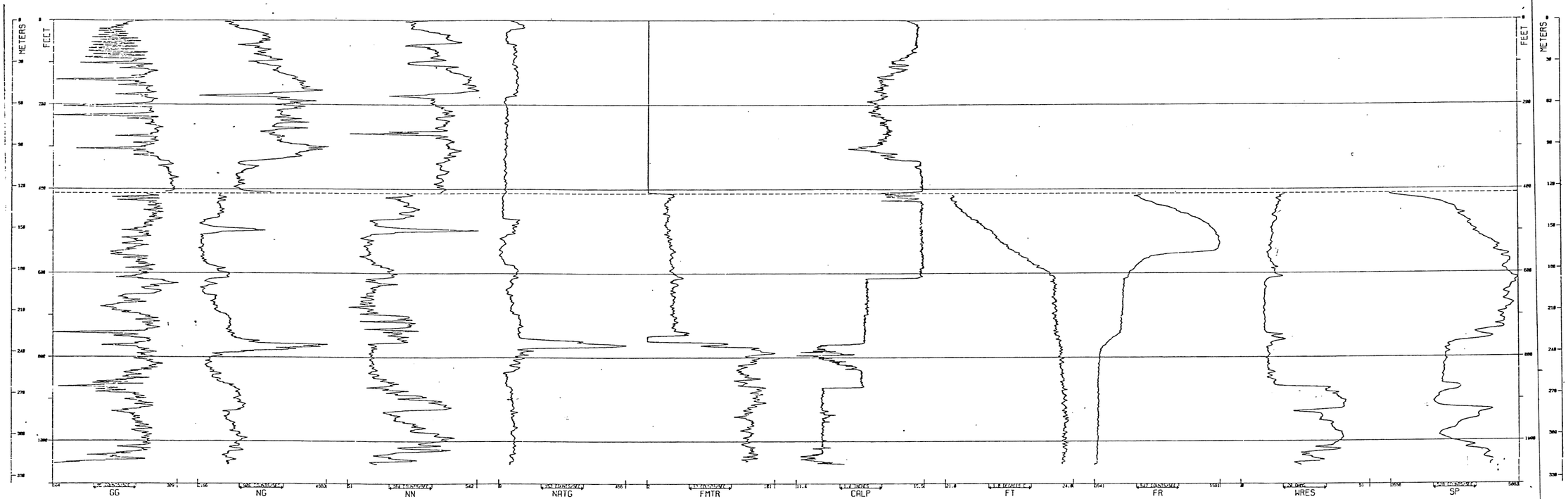
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPAN NODE'S POTENTIAL
QRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

09N/25E-06B1

-59-



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GEOLOGICAL ENGINEERING SECT
WELL LOG PROCESSING SYSTE

NAME OF WELL	UNR 79-07
DATE LOGGED	89/14.62
STATE	WASHINGTON
COUNTY	BENTON
LOCATION	89N/27E-25M1
SURFACE ELEVATION	852
TOTAL DEPTH LOGGED	1457
DEPTH TO WATER LEVEL	412
CASING & LINERS*	

FMTR LOG -- PROPELLER STOPPAGE BETWEE
745 FT. AND 788 FT.

LEGEND

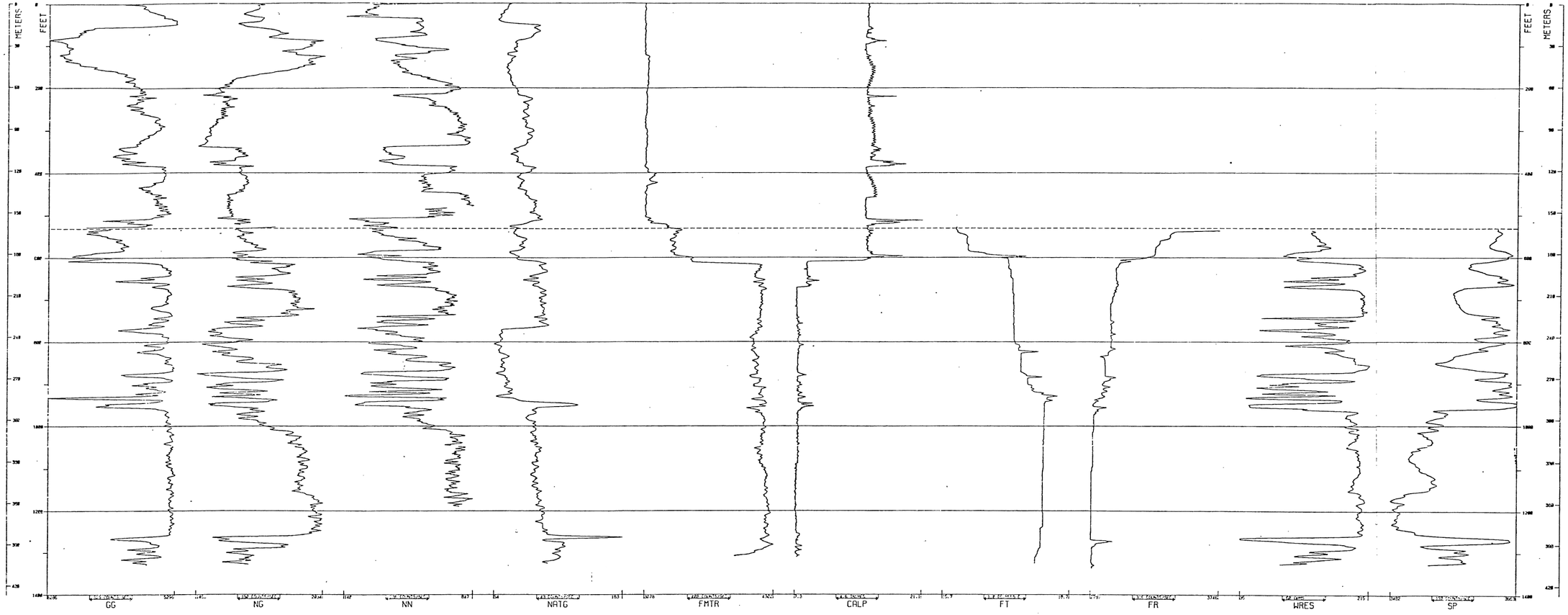
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NG - - - NEUTRON NEUTRON
NN - - - NEUTRON NEUTRON
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER
SNTC - - - SONIC

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

89N/27E-25M1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	PIXLEE TEST WELL
DATE LOGGED	10/20/77
STATE	WASHINGTON
COUNTY	DOUGLAS
LOCATION	23N/26E-2D01
SURFACE ELEVATION	1920
TOTAL DEPTH LOGGED	1335
DEPTH TO WATER LEVEL	531
CASING & LINERS:	
@-	50:16

SP AND CALP ARE HAND DIGITIZED. NN IS FROM A PREVIOUS LOGGING -- 10/31/75.

LEGEND

LOG TITLES

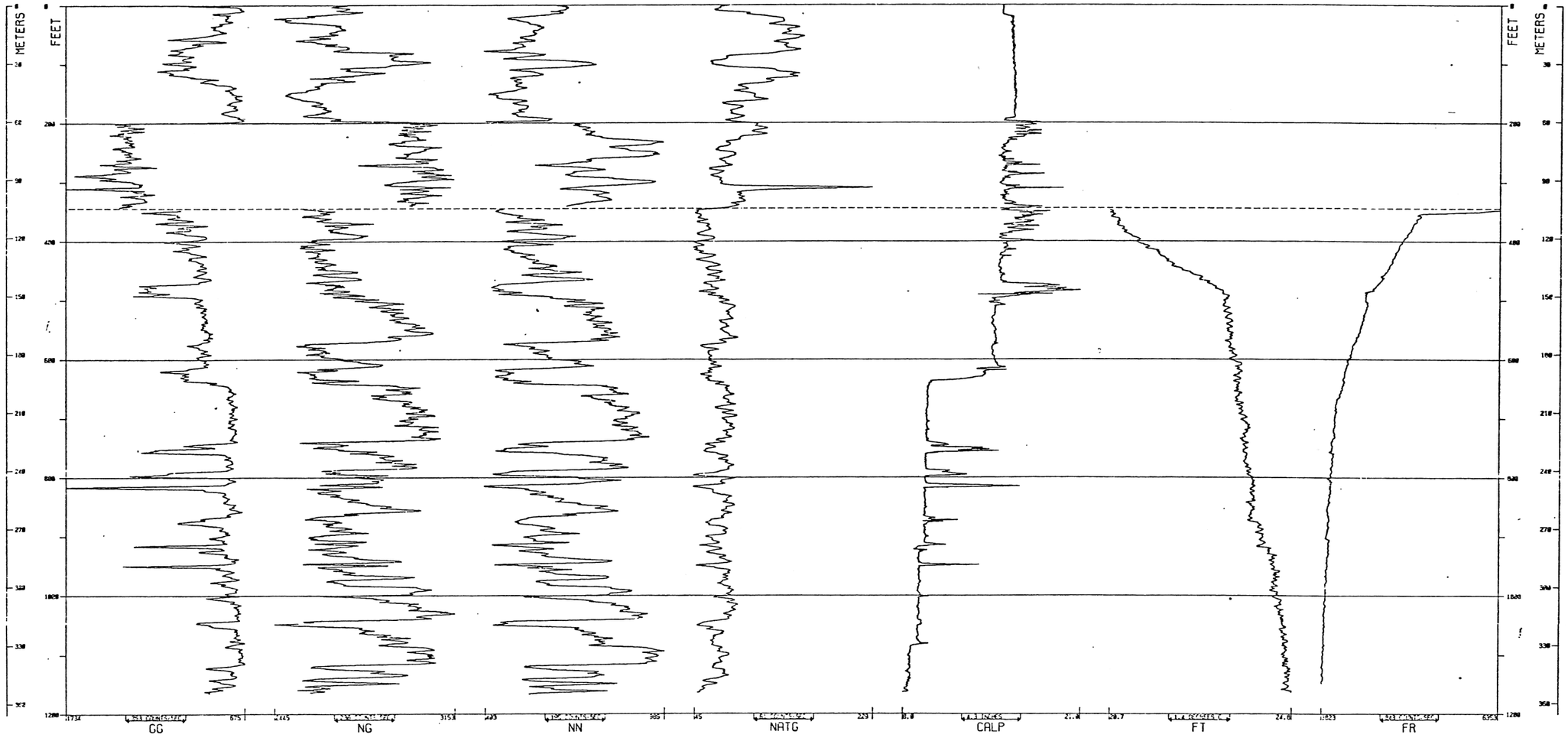
NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NG - - - NEUTRON NEUTRON
NN - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOWMETER
SNGL - - - SINGLE

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

23N/26E-2D01

-61-



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	H. NAKAMURA
DATE LOGGED	01/18/79
STATE	WASHINGTON
COUNTY	FRANKLIN
LOCATION	11N/31E-21H1
SURFACE ELEVATION	780
TOTAL DEPTH LOGGED	1168
DEPTH TO WATER LEVEL	344
CASING & LINERS*	
0- 220=16	

LEGEND

LOG TITLES

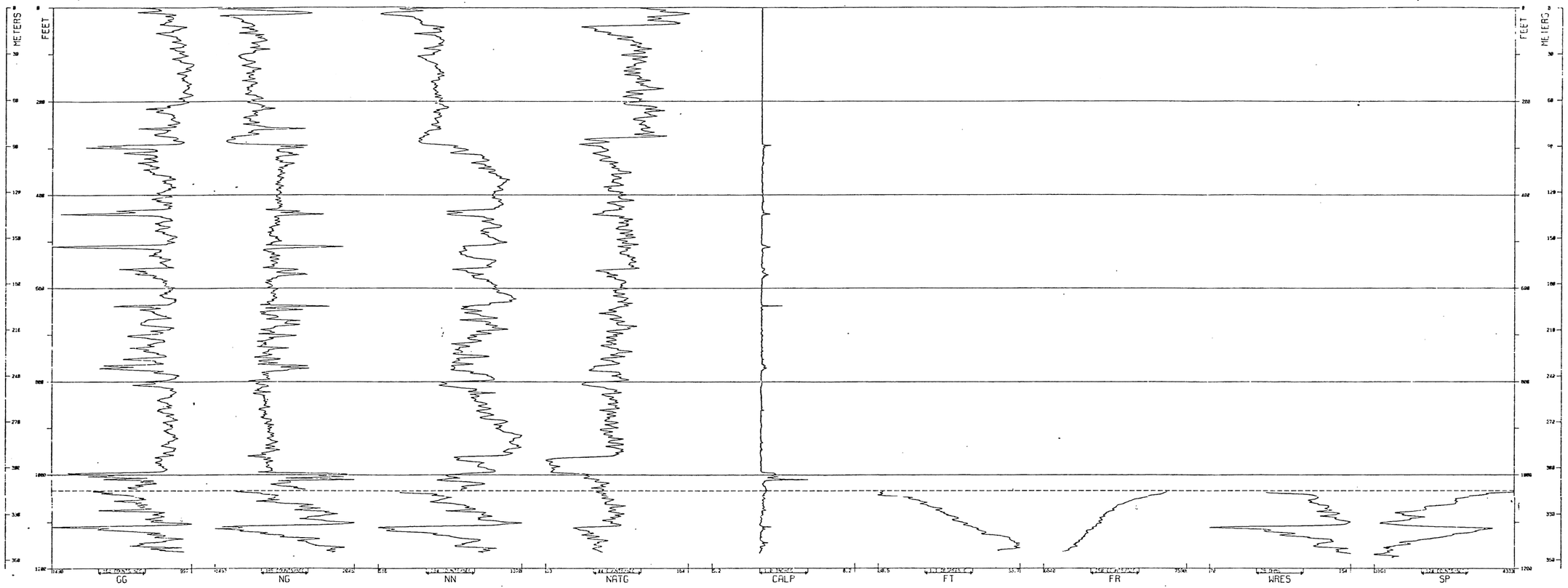
NATG - - NATURAL GAMMA
GG - - GAMMA-GAMMA
NN - - NEUTRON-NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPON. POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE NOT CHANGE ABOVE WATER LEVEL

11N/31E-21H1

-62-



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GEOLOGICAL ENGINEERING SECTI
WELL LOG PROCESSING SYSTEM

NAME OF WELL	LLOYD COCKRANE
DATE LOGGED	02/16/75
STATE	WASHINGTON
COUNTY	FRANKLIN
LOCATION	13N/34E-30M1
SURFACE ELEVATION	1520
TOTAL DEPTH LOGGED	1179
DEPTH TO WATER LEVEL	1234
CASING & LINERS:	
0- 285: 6	

LEGEND

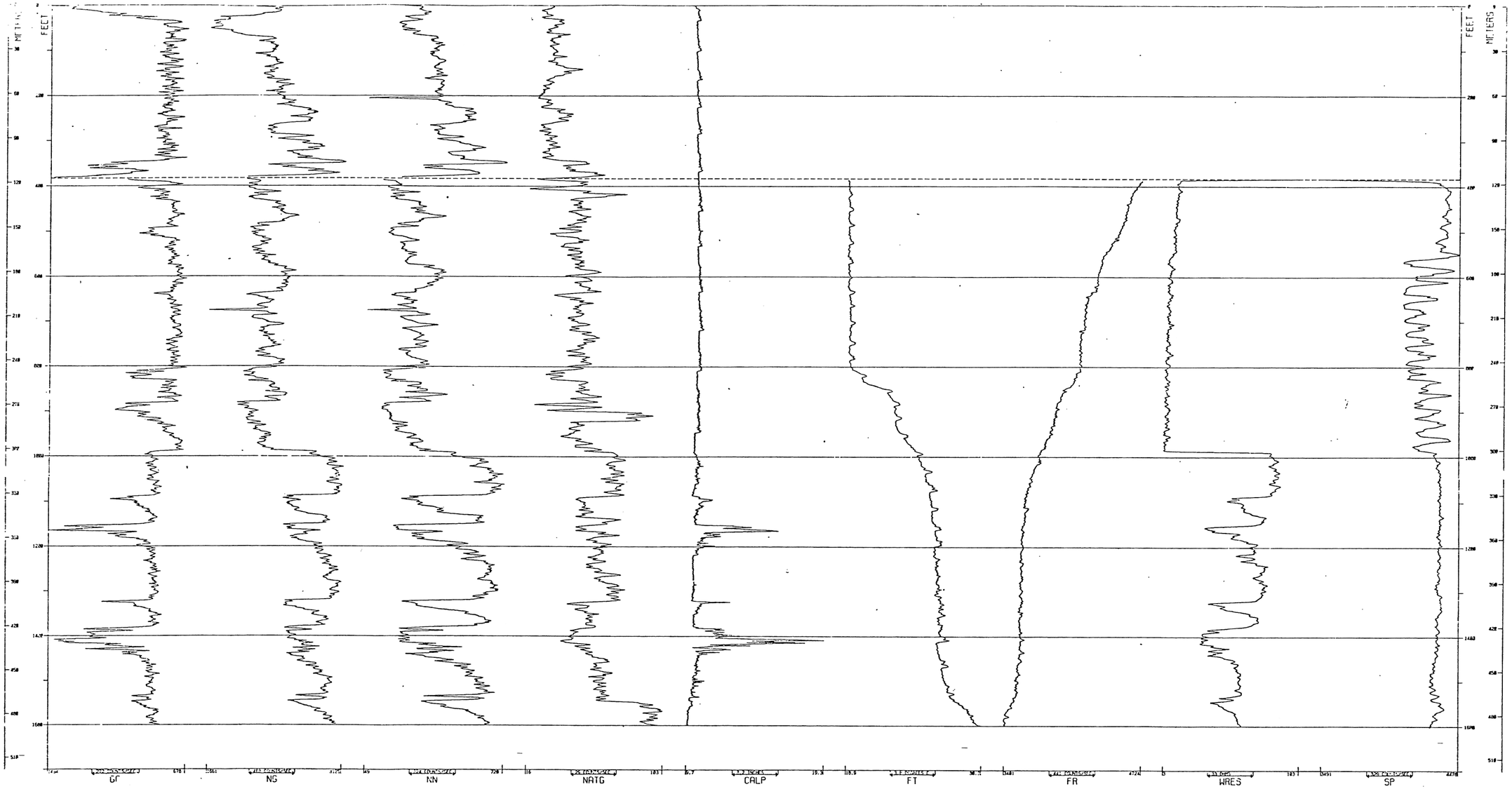
LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - - WELL RESISTIVITY
FMTR - - - FLOW METER
SNIC - - - SONIC

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE BELOW WATER LEVEL

13N/34E-30M1



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COLLEGE OF ENGINEERIN

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	GEORGE TEST WELL
DATE LOGGED	03/07/79
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	18N/25E-15E1
SURFACE ELEVATION	1155
TOTAL DEPTH LOGGED	1624
DEPTH TO WATER LEVEL	383
CASING & LINERS:	
0- 990=10	

SECOND LOGGING

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GC - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FRTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

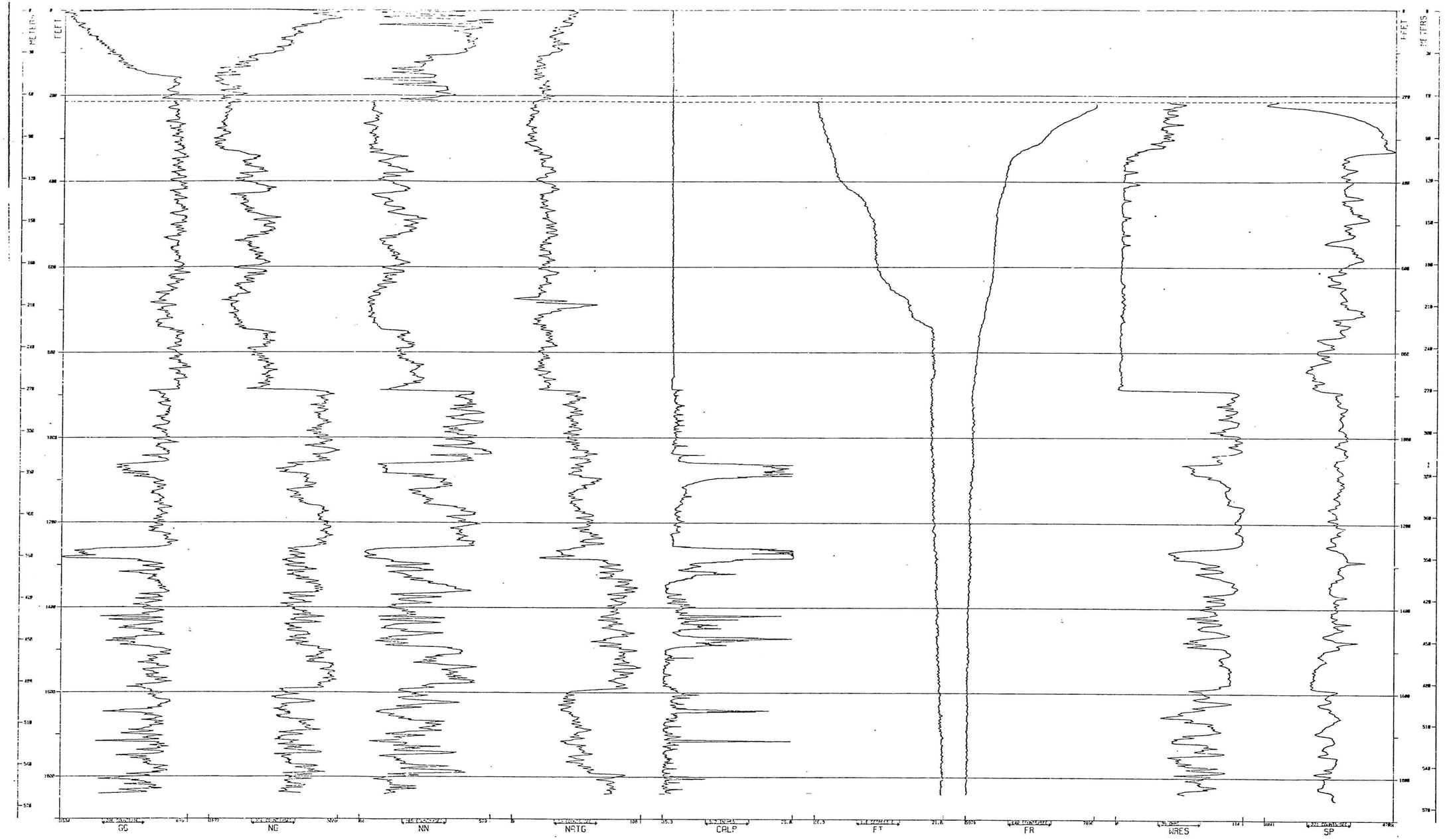
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

04/28/83 TSW

18N/25E-15E1

-64-



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GEOLOGICAL ENGINEERING SECTIO
WELL LOG PROCESSING SYSTEM

NAME OF WELL	EPHRATA CITY #18
DATE LOGGED	09/18/77
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	21N/26E-15H1
SURFACE ELEVATION	1320
TOTAL DEPTH LOGGED	1956
DEPTH TO WATER LEVEL	214
CASING & LINERS:	
0- 890=16	

LEGEND

LOG TITLES

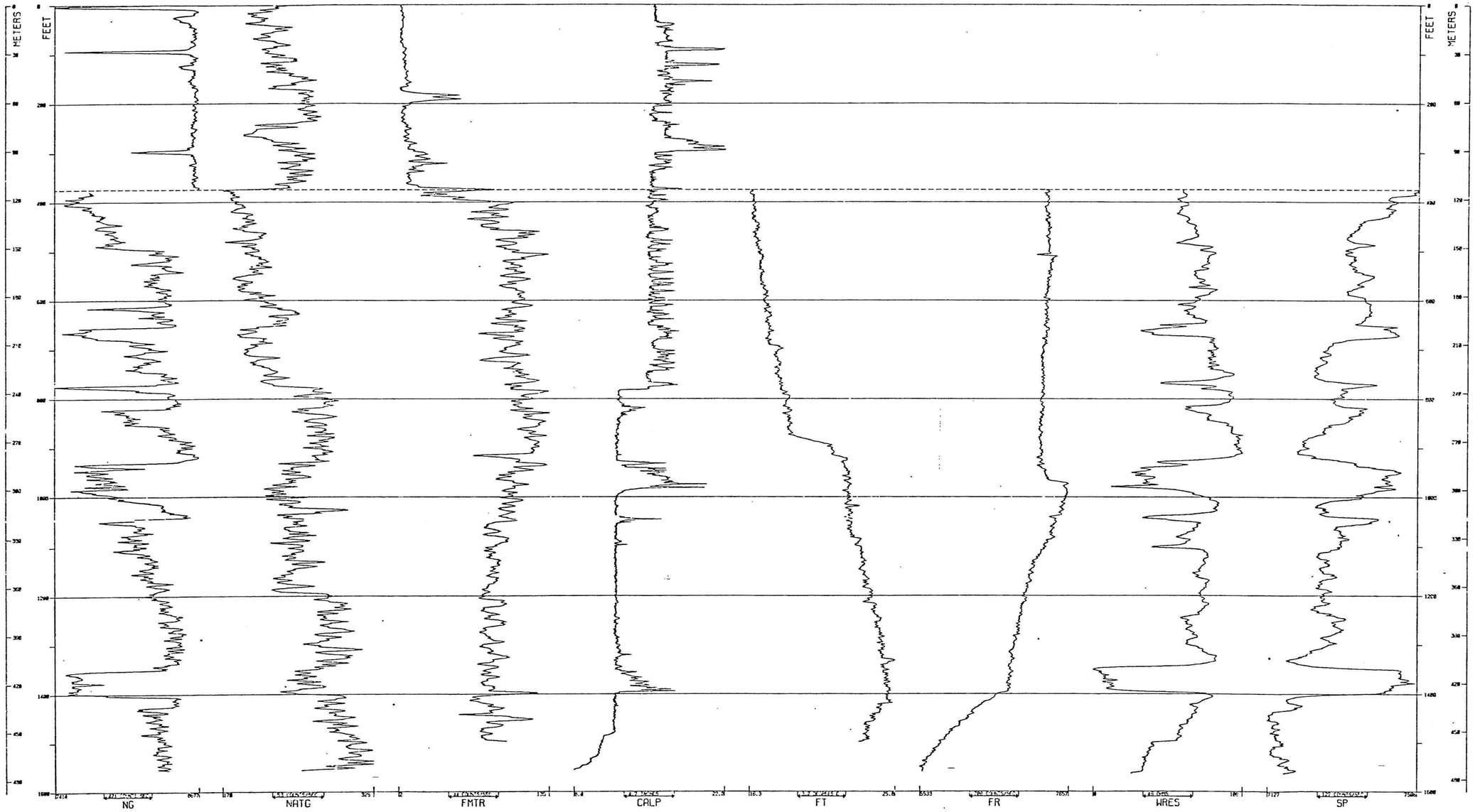
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FRTN - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

21N/26E-15H1

-65



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	BUD KING
DATE LOGGED	26/28/74
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	22N/30E-26G1
SURFACE ELEVATION	1673
TOTAL DEPTH LOGGED	1565
DEPTH TO WATER LEVEL	375
CASING & LINERS:	
0- 42=16	

WRES -- HAND DIGITIZED .

LEGEND

LOG TITLES

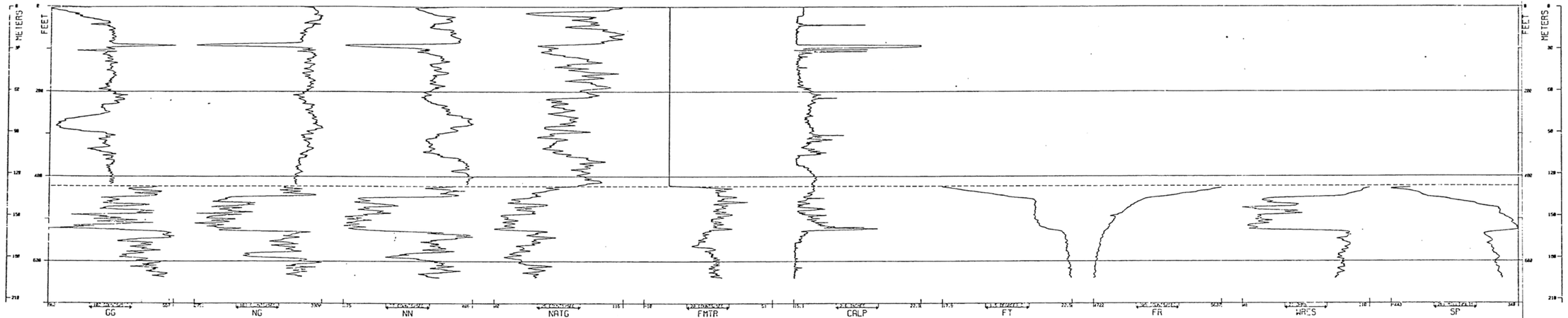
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON GAMMA
NL - - NEUTRON GAMMA
FT - - FLUID THERMOMETRE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLUID METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

22N/30E-26G1

-66-



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	LEROY SCHAFER
DATE LOGGED	04/25/76
STATE	WASHINGTON
COUNTY	GRANT
LOCATION	23N/26E-27E1
SURFACE ELEVATION	1702
TOTAL DEPTH LOGGED	643
DEPTH TO WATER LEVEL	423
CASING & LINERS:	
0- 22:15	

FMTR -- NO MEASUREABLE FLOW DETECTED.

LEGEND

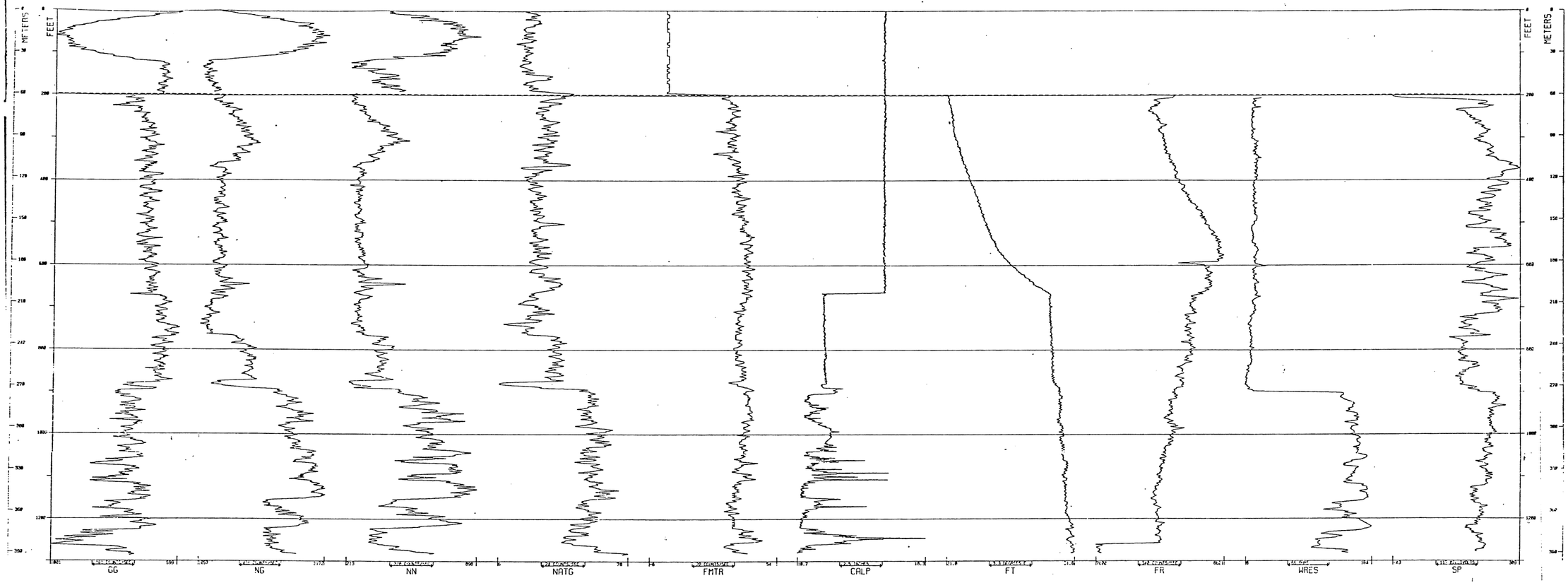
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: STALE MAY CHANGE AND S WATER LEVEL

11/02/76 15



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COLLEGE OF ENGINEERIN

GEOLOGICAL ENGINEERING SECTIO
WELL LOG PROCESSING SYSTEM

NAME OF WELL	LARSON FRUIT WELL
DATE LOGGED	07/15/82
STATE	WASHINGTON
COUNTY	KITTITAS
LOCATION	15N/19E-22P1
SURFACE ELEVATION	1442
TOTAL DEPTH LOGGED	1289
DEPTH TO WATER LEVEL	198
CASING & LINERS:	

0- 760=16 665- 910=12

SP/R IS FROM PREVIOUS LOGGING -- 6/10/80
FMTR -- NO MEASUREABLE FLOW DETECTED.

LEGEND

LOG TITLES

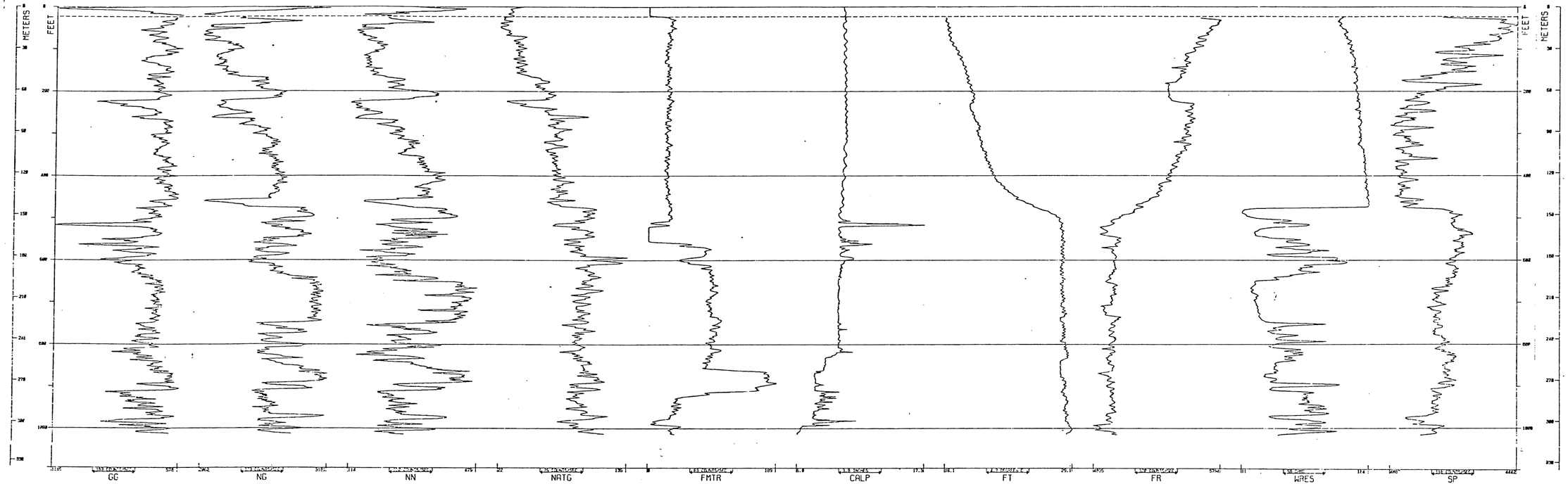
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (GS-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

15N/19E-22P1

-68-



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COLLEGE OF ENGINEERI

GEOLOGICAL ENGINEERING SECTI
WELL LOG PROCESSING SYSTEM

NAME OF WELL	UMTANUM CREEK
DATE LOGGED	02/26/78
STATE	WASHINGTON
COUNTY	KITTITAS
LOCATION	16N/19E-28C1
SURFACE ELEVATION	1422
TOTAL DEPTH LOGGED	1018
DEPTH TO WATER LEVEL	23
CASING & LINERS:	
0- 476.10	

UPHOLE FLOW IN THE WELL, 30 FPM AT 535 AND 75 FPM AT 580'.

LEGEND

LOG TITLES

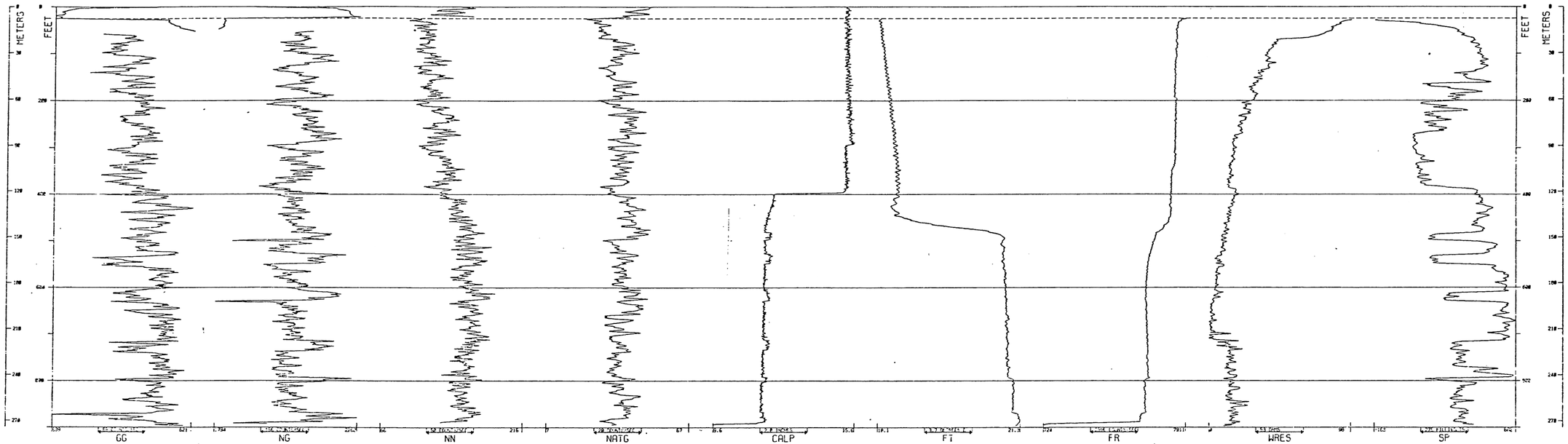
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES →
POROSITY (NN LOG) INCREASES ←
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

16N/19E-28C1

-69-



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	ELLENSBURG CITY
DATE LOGGED	01/17/78
STATE	WASHINGTON
COUNTY	KITTITAS
LOCATION	18N/18E-35E1
SURFACE ELEVATION	1565
TOTAL DEPTH LOGGED	293
DEPTH TO WATER LEVEL	25
CASING & LINERS:	
0- 393±15	

LEGEND

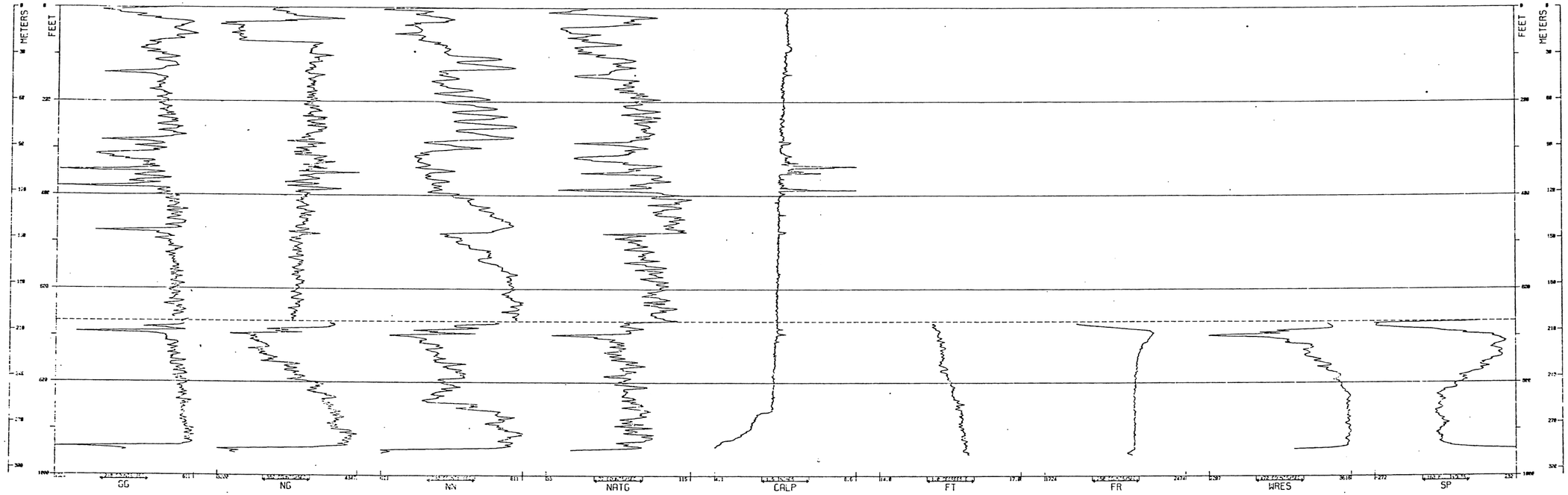
LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WALL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/02/78 1SM



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	LEROY VAN BELLE
DATE LOGGED	29/10/76
STATE	WASHINGTON
COUNTY	KLICKITAT
LOCATION	2N/14E-21C1
SURFACE ELEVATION	1352
TOTAL DEPTH LOGGED	957
DEPTH TO WATER LEVEL	[illegible]
CASING & LINERS:	

LEGEND

LOG TITLES

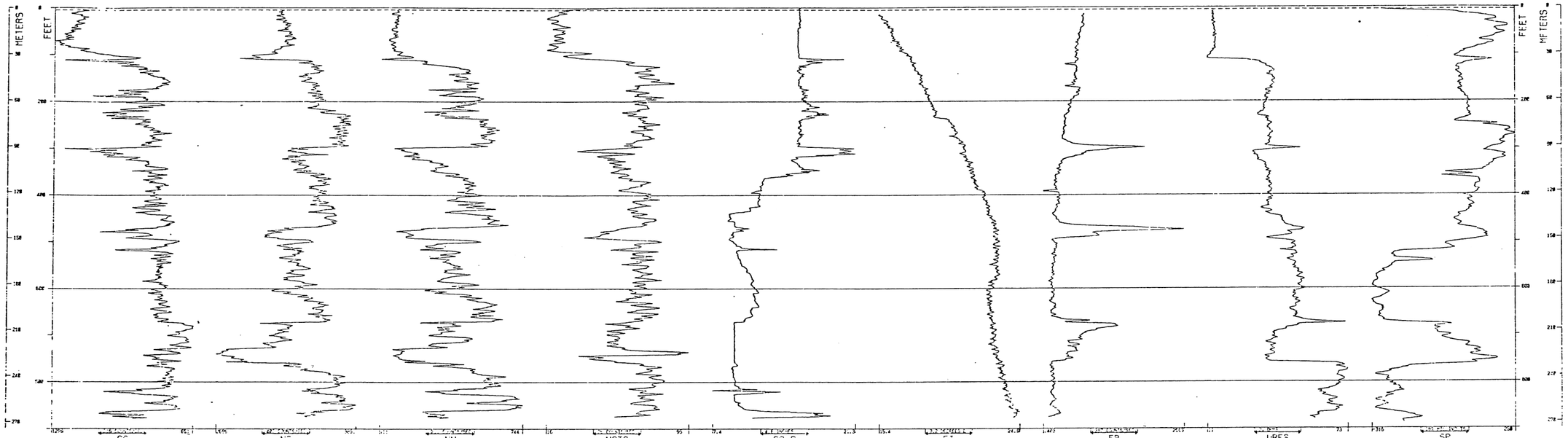
[illegible]

DENSITY (GG-LOG) [illegible]
POROSITY (NN-LOG) [illegible]
WATER LEVEL

NOTE: SCALE MAY CHANGE [illegible] WATER LEVEL

11/15/82 15

-71-



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	GOLDENDALE CITY #1
DATE LOGGED	09/29/76
STATE	WASHINGTON
COUNTY	KLICKITAT
LOCATION	04N/16E-16Q1
SURFACE ELEVATION	1640
TOTAL DEPTH LOGGED	889
DEPTH TO WATER LEVEL	5
CASING & LINERS:	

FT, FR, AND RADIATION LOGS ARE FROM PREVIOUS LOGGING — 12/4/75.

LEGEND

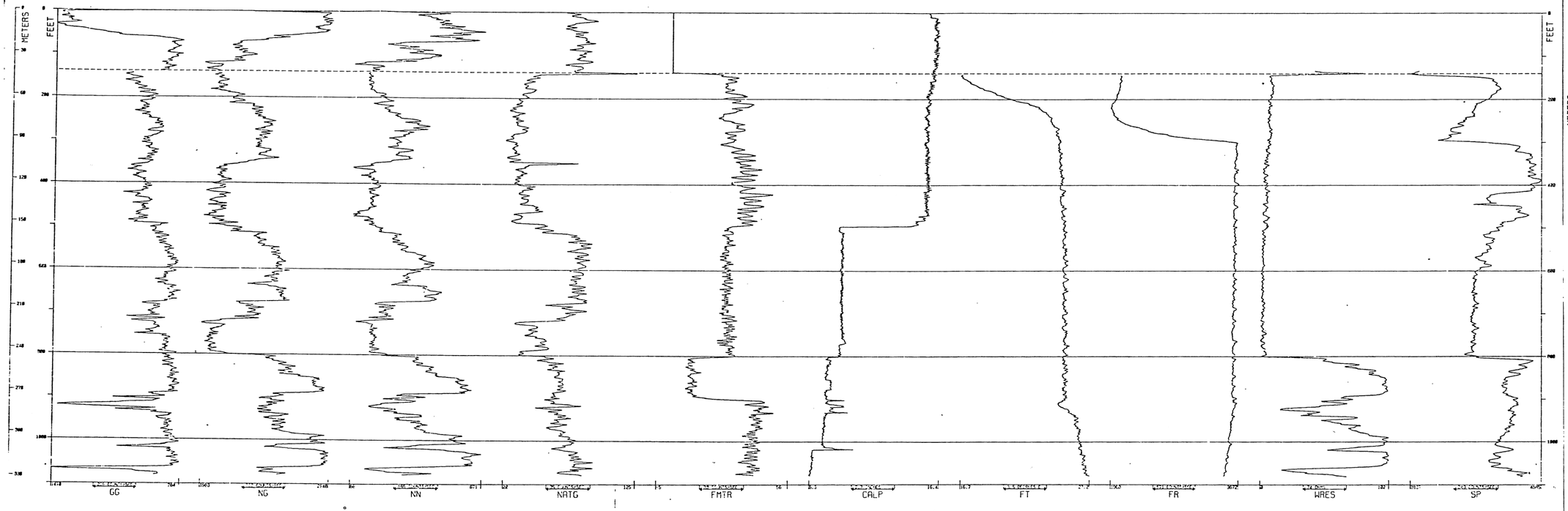
LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NG - - - NEUTRON GAMMA
NN - - - NEUTRON NEUTRON
NC - - - NEUTRON CAPTURE
FI - - - FLUID PROPERTIES
FR - - - FLUID PROPERTIES
CALF - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INTERVALS ⟶
POROSITY (NN-LOG) INTERVALS ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE UNDER WATER LEVEL

11/15/82 TSA



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GEOLOGICAL ENGINEERING SECTI
WELL LOG PROCESSING SYSTEM

NAME OF WELL	TOM POWERS
DATE LOGGED	2[illegible]-78
STATE	WASHINGTON
COUNTY	KLICKITAT
LOCATION	2[illegible]-23E-13J1
SURFACE ELEVATION	575
TOTAL DEPTH LOGGED	1[illegible]
DEPTH TO WATER LEVEL	1[illegible]
CASING & LINERS:	
Ø: 455-16	455- 824-12

UPHOLE FLOW FROM 822' 822' IS 25 FPM.
UPHOLE FLOW FROM 822' 822' IS [illegible] FPM.

LEGEND

LOG TITLES

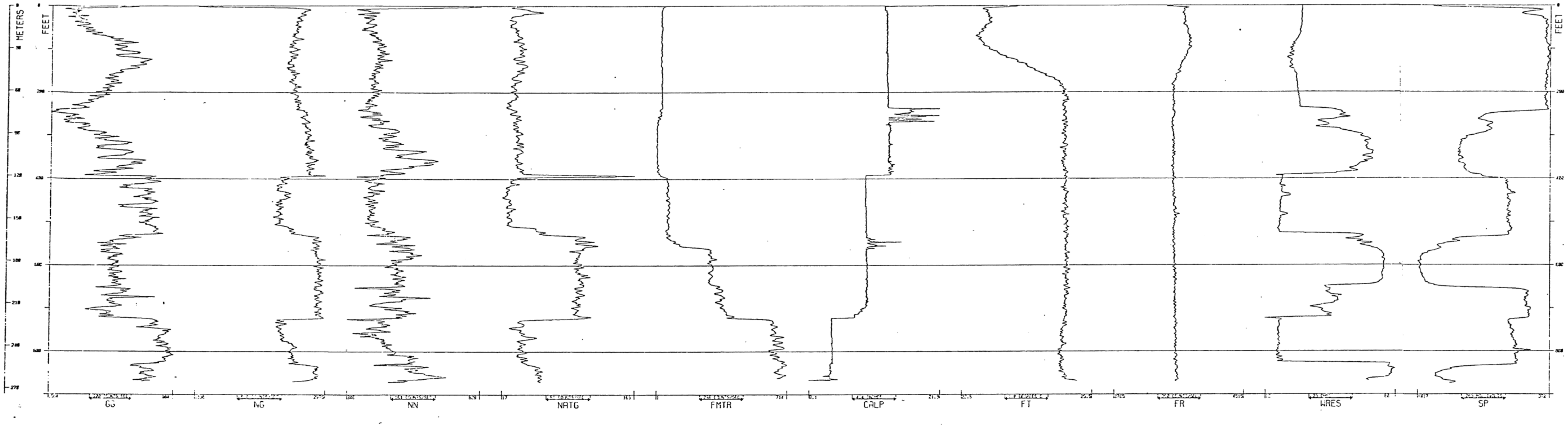
NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
FMTR - - FLOW METER
SP - - SPONTANEOUS POTENTIAL
WRES - - WRES RESISTIVITY
FMTR - - FLOW METER
SN - - SONIC
SP - - SPONTANEOUS
SN - - SPONTANEOUS

DENSITY (CG-LOG) INCREASES →
POROSITY (NN-LOG) INCREASES ←
WATER LEVEL - - - -

METER SCALE MAY CHANGE ABOVE WATER LEVEL

11/10/82 15M

ØSN/23C-13J1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL [illegible]
DATE LOGGED 23/05/77
STATE [illegible]
COUNTY [illegible]
LOCATION [illegible]
SURFACE ELEVATION [illegible]
TOTAL DEPTH LOGGED 876
DEPTH TO WATER LEVEL 0
CASING & LINERS:
0- 236=16 330- 524=14 722- 825=12

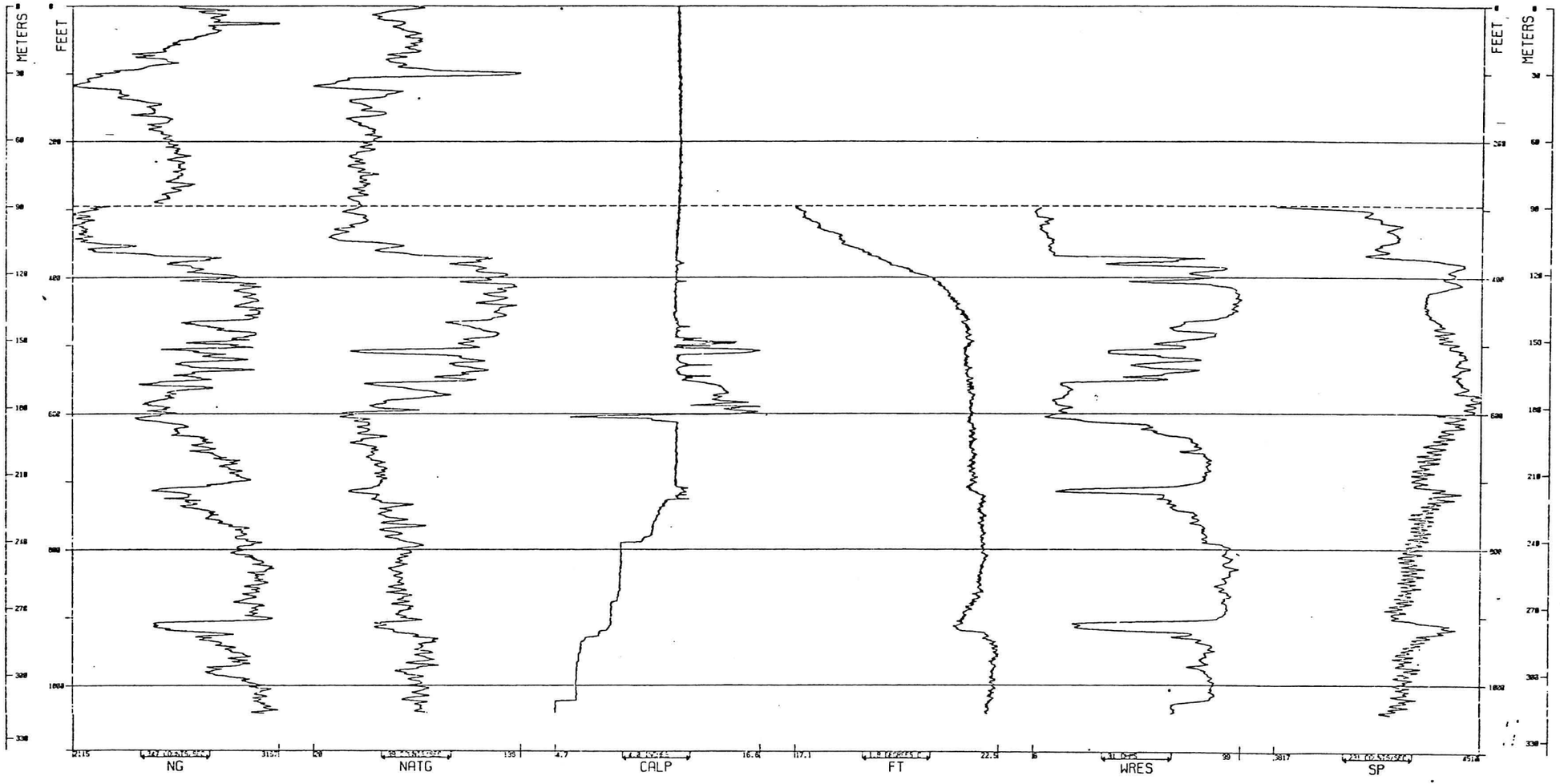
LEGEND

LOG TITLES
NATG
GG
NN?
NG?
FT
FR
CALP
SP
WRES
FMTR
SNIC
LN
SN

DENSITY [illegible] INCREASES →
POROSITY [illegible] INCREASES ←
WATER LEVEL - - - -

NOTE: SCALE [illegible] WATER LEVEL

11/12/8? 15



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	ROBERT ANDREWS
DATE LOGGED	22/07/78
STATE	WASHINGTON
COUNTY	KLICKITAT
LOCATION	25N/23E-22J1
SURFACE ELEVATION	982
TOTAL DEPTH LOGGED	1246
DEPTH TO WATER LEVEL	295
CASING & LINERS:	

LEGEND

LOG TITLES

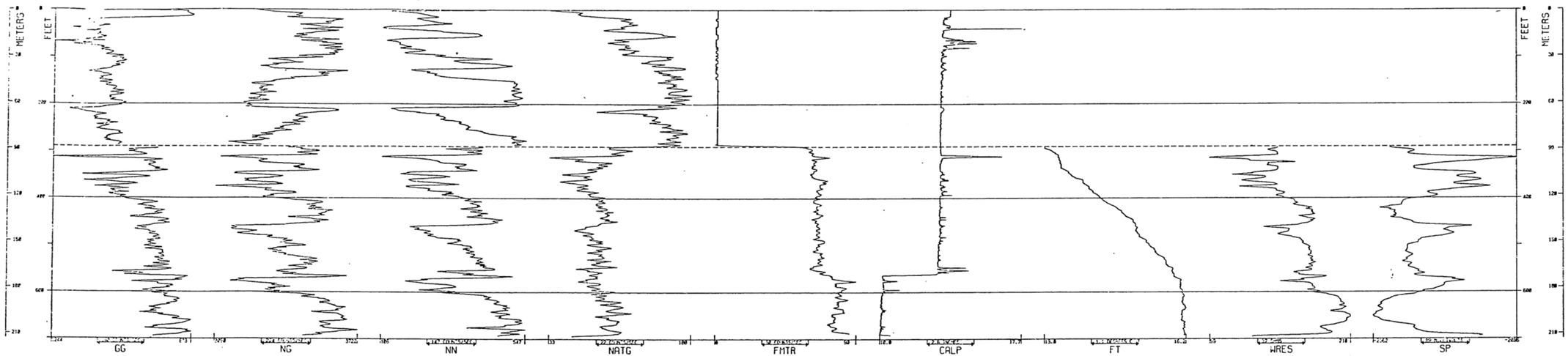
NATG - - NATURAL GAMMA
SG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPON. SPOTS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (CG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

11/11/82 ISW

25N/23E-22J1



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	W. WEISHAAR #1
DATE LOGGED	12/25/73
STATE	WASHINGTON
COUNTY	LINCOLN
LOCATION	[illegible]
SURFACE ELEVATION	1695
TOTAL DEPTH LOGGED	697
DEPTH TO WATER LEVEL	250
CASING & LINERS:	
0- 20=14	

NO MEASURABLE FLOW.

LEGEND

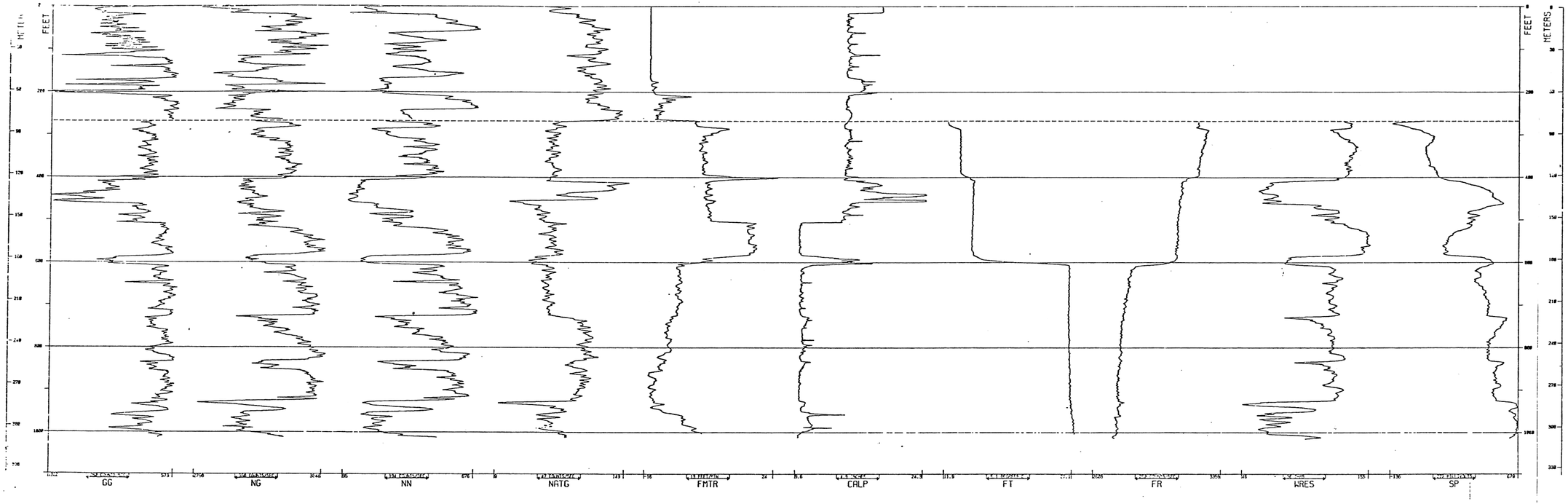
LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER, + = DOWN
SNIC - - SONIC
LN - - LONG NORMAL
SN - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

[illegible]



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GEOLOGICAL ENGINEERING SECTIO
WELL LOG PROCESSING SYSTEM

NAME OF WELL	ALVIN SCHMIEHER
DATE LOGGED	03/17/78
STATE	WASHINGTON
COUNTY	LINCOLN
LOCATION	24N/33E-23P1
SURFACE ELEVATION	2930
TOTAL DEPTH LOGGED	1017
DEPTH TO WATER LEVEL	268
CASING & LINERS:	
0- 18=19	

LEGEND

LOG TITLES

NATG - - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLUID METER, + = DOWN
SNTC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

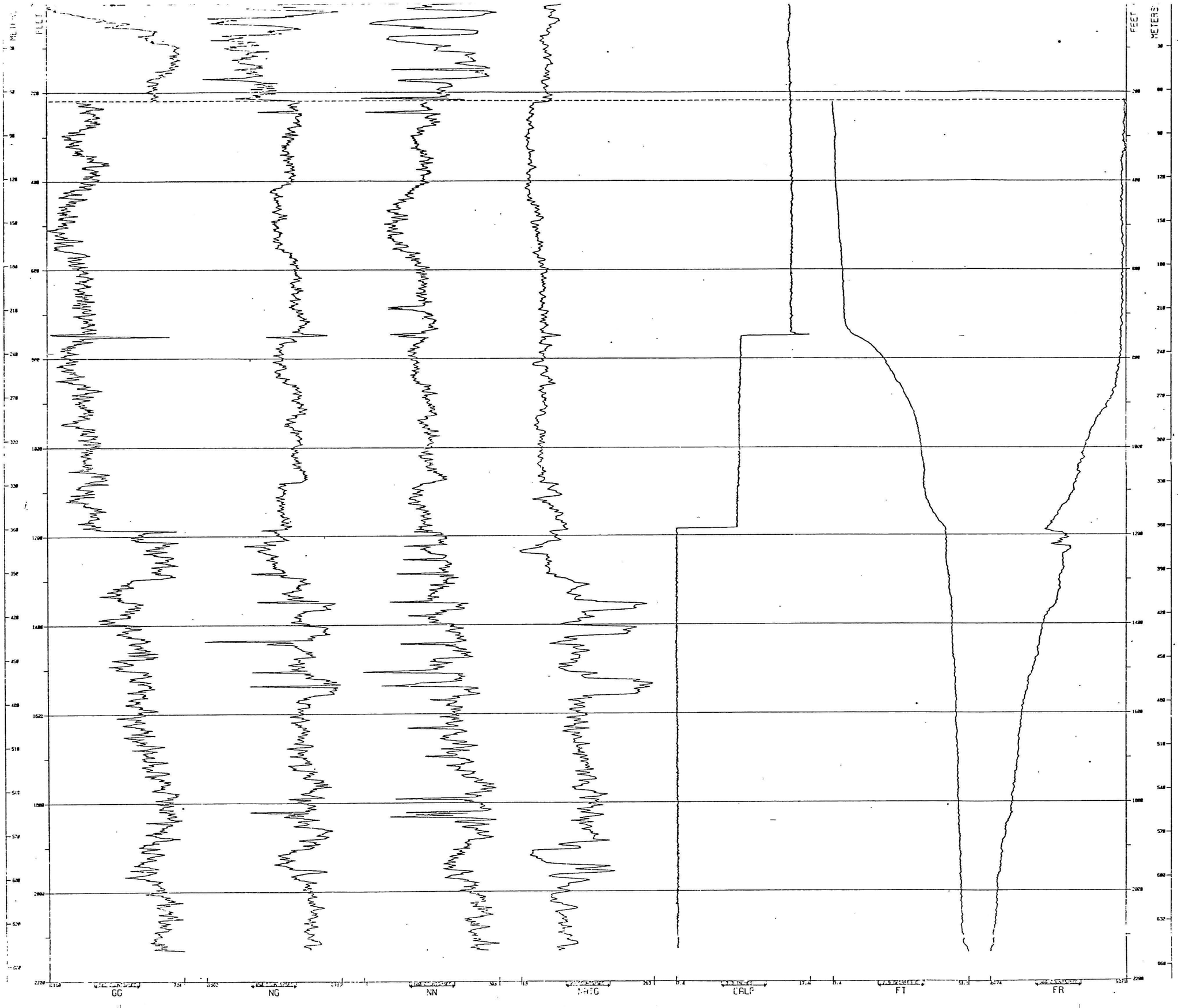
DENSITY (GG-LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

05/16/82 15

24N/33E-23P1

-77-



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GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	CHENEY CITY #5
DATE LOGGED	11/16/77
STATE	WASHINGTON
COUNTY	SPOKANE
LOCATION	23N/41E-23B2
SURFACE ELEVATION	2372
TOTAL DEPTH LOGGED	2135
DEPTH TO WATER LEVEL	219
CASING & LINERS:	

0- 740=16 740-1180=12 1180-2135= 8

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
RES - - WALL RESISTIVITY
CHTG - - FLOW METER
CNTG - - CONTG
LN - - LONG NORMAL
SN - - SHORT NORMAL

DENSITY (LOG) INCREASES ⟶
POROSITY (NN-LOG) INCREASES ⟵
WATER LEVEL - - - -

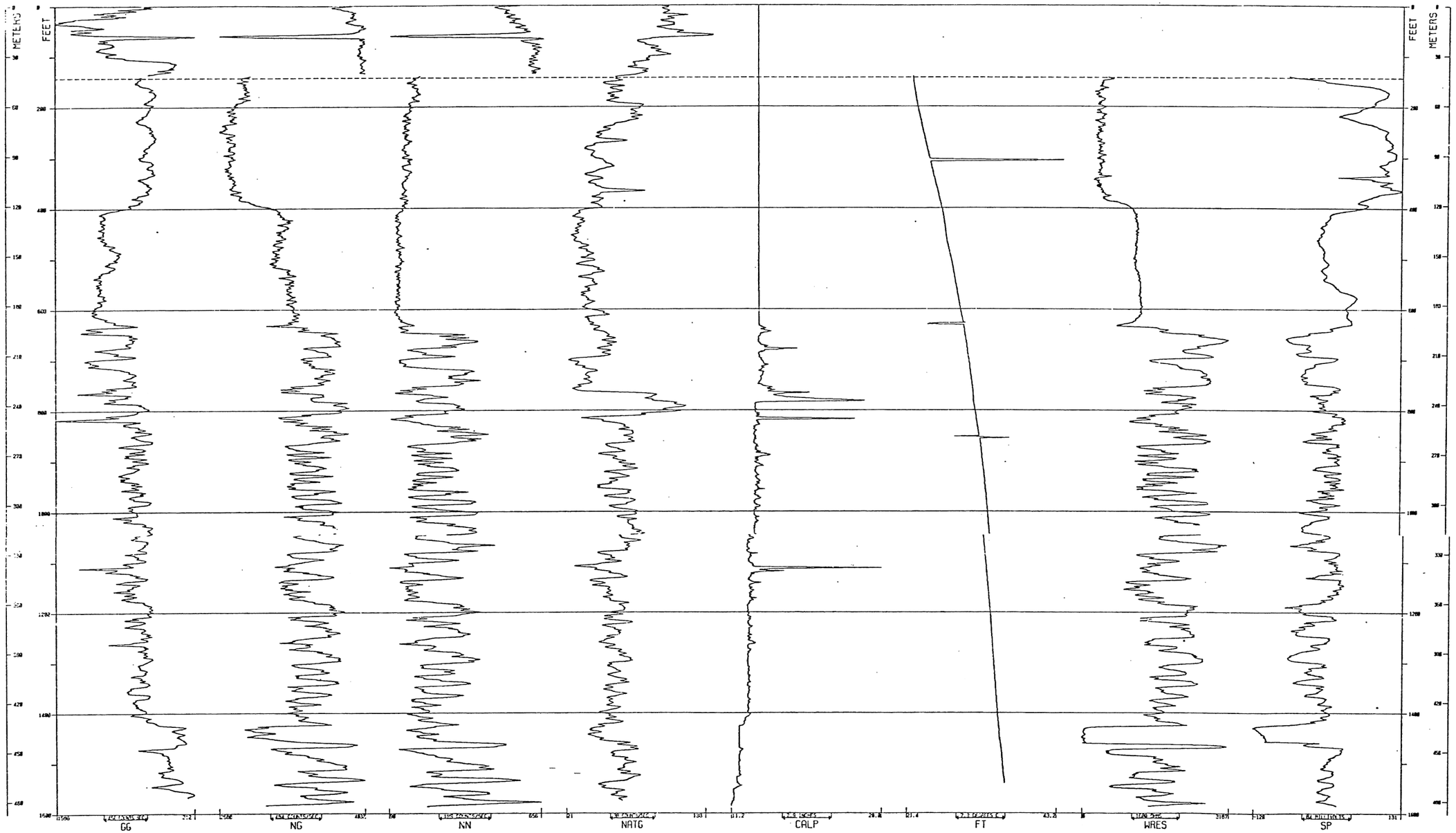
NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

04/25/83 ISN

23N/41E-23B2

-78-

23N/41E-23B2



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COLLEGE OF ENGINEERING

GEOLOGICAL ENGINEERING SECTION
WELL LOG PROCESSING SYSTEM

NAME OF WELL	ED CHVATEL
DATE LOGGED	03/01/74
STATE	WASHINGTON
COUNTY	WALLA
LOCATION	06N/34E-06B1
SURFACE ELEVATION	550
TOTAL DEPTH LOGGED	1588
DEPTH TO WATER LEVEL	143

CASING & LINERS:
0- 628=12 1442-1458=11

FT SPIKES CAUSED BY GAS IN THE WELL.

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA-GAMMA
NN - - NEUTRON-NEUTRON
NG - - NEUTRON-GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WRES - - WELL RESISTIVITY
FMTR - - FLOW METER, + = DOWN
SNIC - - SONIC
LN - - LONG NORMAL
SN - - SHORT NORMAL

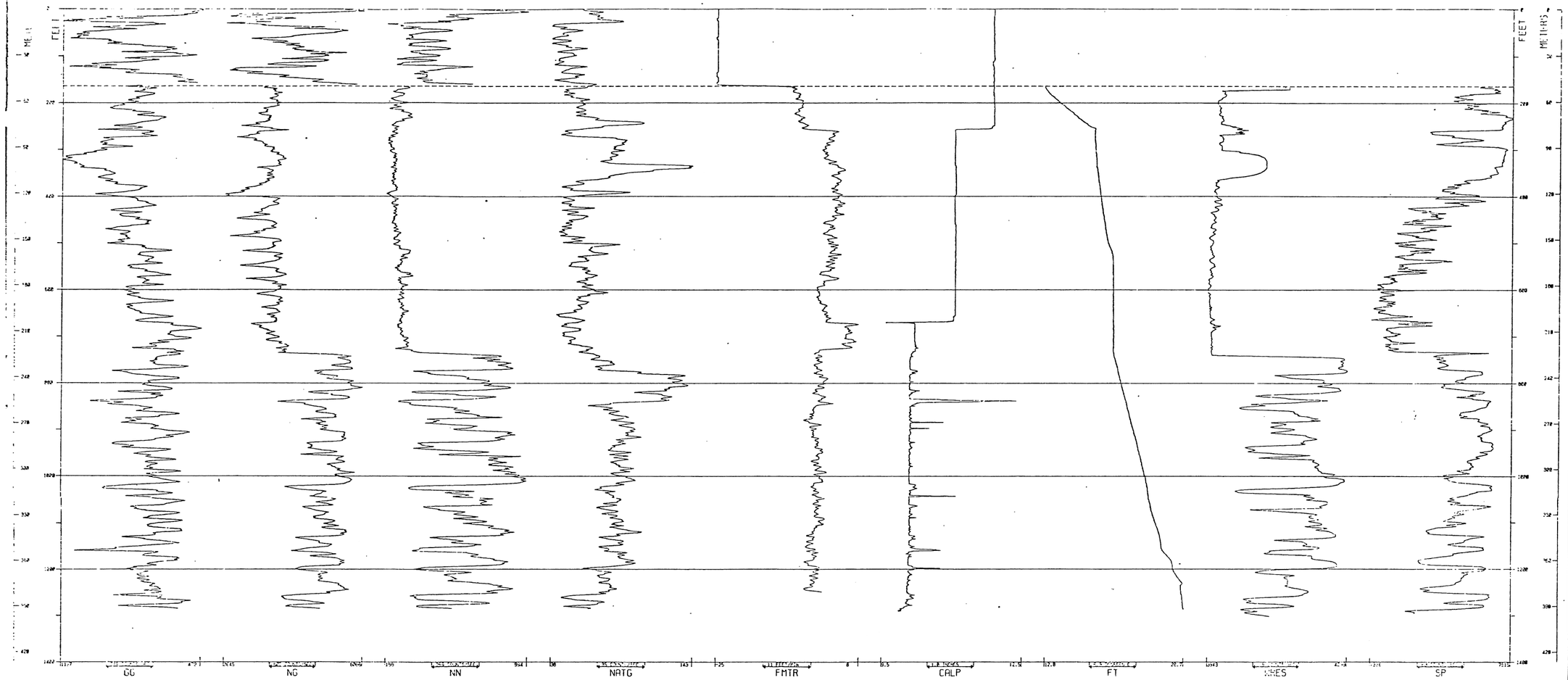
DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

05/16/83 TSN

06N/34E-06B1

- 79 -



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GEOLOGICAL ENGINEERING SECTI
WELL LOG PROCESSING SYSTEM

NAME OF WELL	WALLA WALLA TES
DATE LOGGED	06/25/73
STATE	WASHINGTON
COUNTY	WALLA WALLA
LOCATION	26N/35E-18A1
SURFACE ELEVATION	533
TOTAL DEPTH LOGGED	1325
DEPTH TO WATER LEVEL	164
CASING & LINERS:	
	0- 273=12 252- 652=10 672- 733= 8

LEGEND

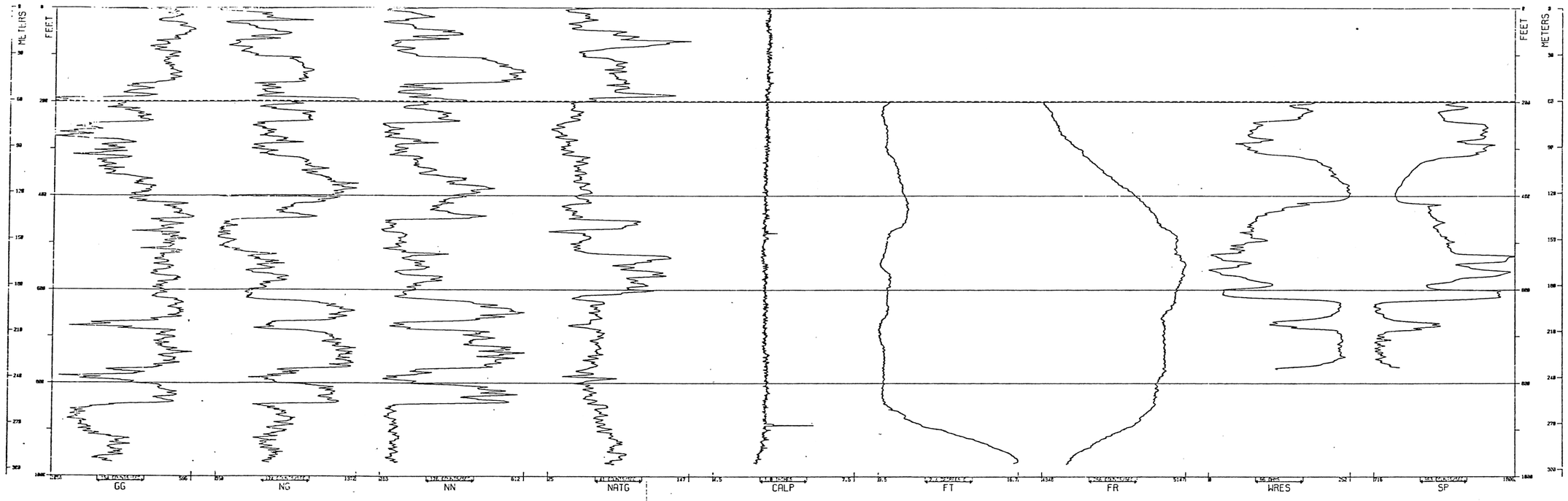
LOG TITLES

NATG - - NATURAL GAMMA
GG - - GAMMA GAMMA
NN - - NEUTRON NEUTRON
NG - - NEUTRON GAMMA
FT - - FLUID TEMPERATURE
FR - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - SPONTANEOUS POTENTIAL
WHES - - WALL RESISTIVITY
FMTR - - FORMATION FACTOR
SNIC - - SONIC
LN - - LOGGING NORMAL
SN - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES
POROSITY (NN-LOG) INCREASES
WATER LEVEL

NOTE: SCALE MAY CHANGE ABOVE WATER LEVEL

26N/35E-18A1



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GEOLOGICAL ENGINEERING SECTIO
WELL LOG PROCESSING SYSTEM

NAME OF WELL	PULLMAN TEST WELL
DATE LOGGED	07/32/75
STATE	WASHINGTON
COUNTY	WHITMAN
LOCATION	14N/45E-01F1
SURFACE ELEVATION	2475
TOTAL DEPTH LOGGED	977
DEPTH TO WATER LEVEL	198
CASING & LINERS:	
0- 980= 6	

SP/R WERE HAND DIGITIZED FROM 12/3/74.

LEGEND

LOG TITLES

NATG - - NATURAL GAMMA
GG - - - GAMMA GAMMA
NN - - - NEUTRON NEUTRON
NG - - - NEUTRON GAMMA
FT - - - FLUID TEMPERATURE
FR - - - FLUID RESISTIVITY
CALP - - CALIPER
SP - - - SPONTANEOUS POTENTIAL
WRES - - WATER RESISTIVITY
FMIR - - FLOW METER
SNIC - - SONIC
LN - - - LONG NORMAL
SN - - - SHORT NORMAL

DENSITY (GG-LOG) INCREASES ——→
POROSITY (NN-LOG) INCREASES ←——
WATER LEVEL - - - -

NOTE: SCALE MAY CONTAIN ABOVE WATER LEVEL

05/18/83 ISW