BOOK I
00618 PR 84(3)A
Quintette

618

PR-QUINTETTE 84(3)A

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 618

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : VERTICAL DEVIATION HOLE ID : QHR-84012

LOCATION : HERMANN NORTH DATE OF LOG : 08-04-84

DATA FROM : V8L2*A PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
5.00	4.99	-.12	-.04	.13	201.0	1.5	201.0
10.00	9.99	-.22	-.10	.24	206.2	1.2	212.3
15.00	14.99	-.34	-.19	.39	209.0	1.7	213.5
20.00	19.99	-.48	-.26	.54	208.4	1.7	206.7
25.00	24.98	-.61	-.31	.69	207.0	1.6	201.9
30.00	29.98	-.76	-.36	.85	205.7	1.8	199.9
35.00	34.98	-.92	-.43	1.01	205.3	1.9	203.0
40.00	39.97	-1.08	-.52	1.20	206.1	2.1	210.6
45.00	44.97	-1.23	-.62	1.38	206.7	2.0	210.4
50.00	49.97	-1.39	-.73	1.57	207.8	2.2	216.0
55.00	54.96	-1.54	-.89	1.78	209.9	2.4	225.4
60.00	59.96	-1.71	-1.06	2.01	211.8	2.7	225.8
65.00	64.95	-1.92	-1.22	2.28	212.5	3.0	218.0
70.00	69.94	-2.10	-1.41	2.53	214.0	2.9	226.9
75.00	74.93	-2.31	-1.65	2.84	215.5	3.6	228.0
80.00	79.92	-2.57	-1.85	3.17	215.8	3.8	217.8
85.00	84.90	-2.87	-2.11	3.57	216.3	4.5	220.7
90.00	89.89	-3.17	-2.36	3.96	216.7	4.4	220.2
95.00	94.87	-3.35	-2.70	4.31	218.9	4.4	241.7
100.00	99.85	-3.64	-2.96	4.69	219.1	4.4	221.5
107.00	104.84	-3.91	-3.26	5.09	219.9	4.6	228.7
TD 109.50	109.32	-4.18	-3.54	5.48	220.2	4.9	225.3

618

618

COMPU-LOG V8L2 PLOT 08-04-84

QHR-84012
GAMMA DENSITY -DETAIL
HERMANN NORTH

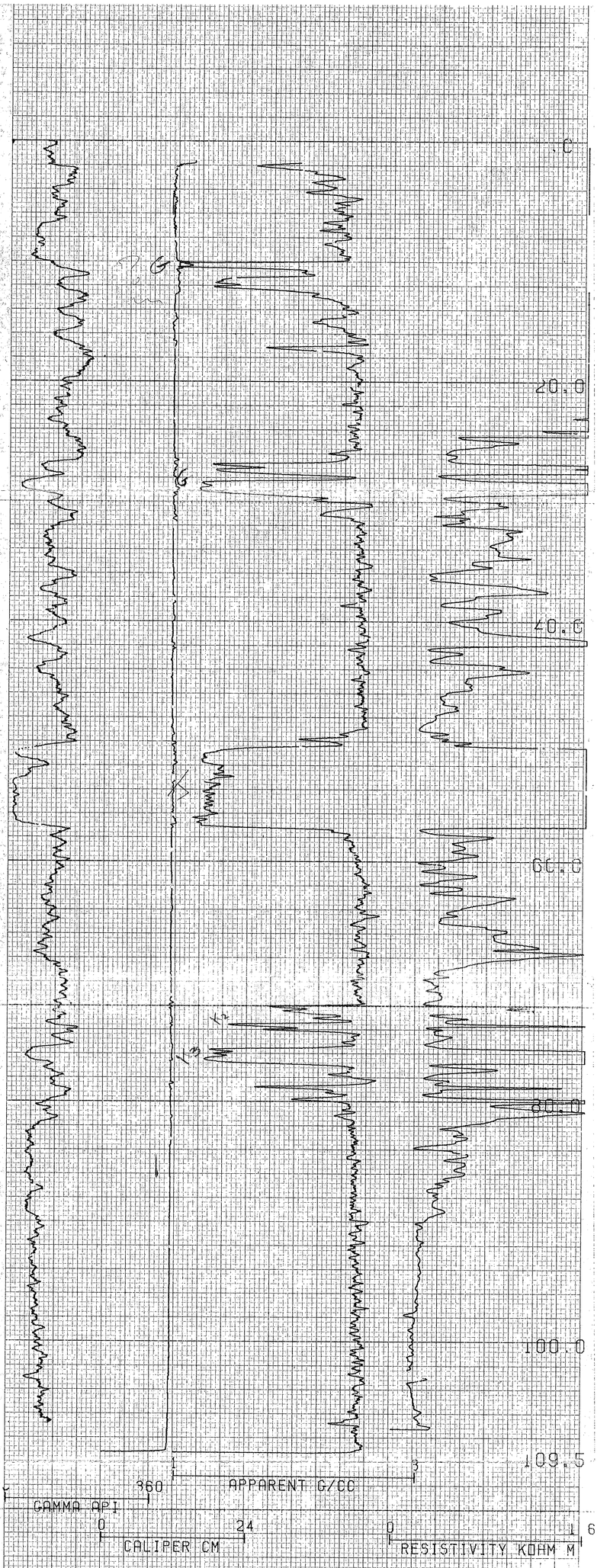
HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#1708L1

PR-Quintette 84(3)A

SEAM PICKS

CENTURY GEOPHYSICAL CORP.

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



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COMPU-LOG V8L2 PLOT 08-04-84

QHR-84012

GAMMA DENSITY

HERMANN NORTH

HOLE DIAMETER : 13.0

PROBE # 9030A1- 403

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = 98

DATA V8L2*A TRUCK # L365

R. ZEMENCHIK APPL.#30 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

PR - Quinette 84(8)A

VERTICAL DEVIATION

618

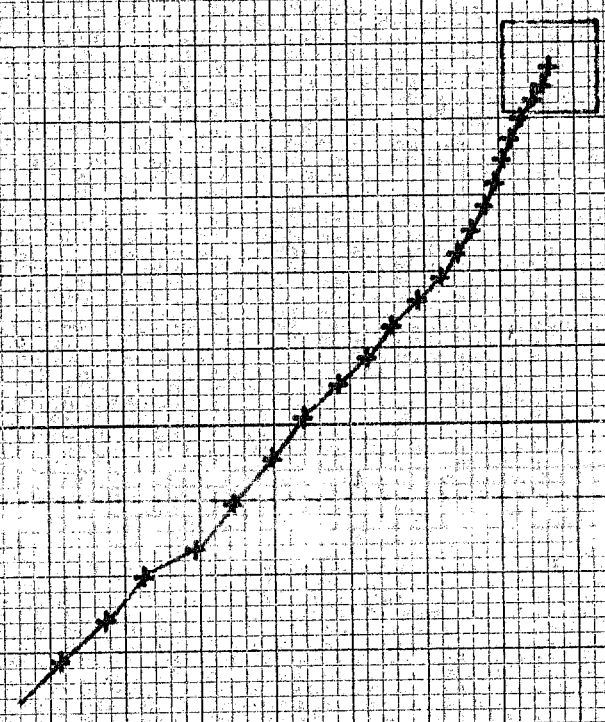
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : VERTICAL DEVIATION
LOCATION : HERMANN NORTH
HOLE ID : QHR-84012
DATE OF LOG : 08-04-84
PROBE : 9055A 0079

SCALE: .50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 109.3 M
AZIMUTH: 220.2
DISTANCE: 5.48 M

+ = 5.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



PR - Quintette 84(3)A

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * * VERTICAL DEVIATION * * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : VERTICAL DEVIATION

HOLE ID : QHR-84013

LOCATION : HERMANN NORTH

DATE OF LOG : 08-04-84

DATA FROM : V8L2*A

PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	5.00	4.99	-.13	-.03	.14	193.2	1.6	193.2
	10.00	9.99	-.32	-.06	.32	191.3	2.1	189.8
	15.00	14.98	-.54	-.12	.55	192.8	2.6	195.0
	20.00	19.98	-.76	-.18	.78	193.7	2.6	195.7
	25.00	24.97	-1.03	-.23	1.06	192.7	3.1	190.0
	30.00	29.96	-1.31	-.29	1.34	192.6	3.2	192.0
	35.00	34.95	-1.60	-.40	1.65	194.1	3.5	200.5
	40.00	39.94	-1.91	-.47	1.96	193.8	3.6	192.5
	45.00	44.93	-2.24	-.57	2.31	194.3	3.9	196.7
	50.00	49.92	-2.56	-.65	2.64	194.3	3.7	194.5
	55.00	54.90	-2.90	-.78	3.01	195.1	4.2	200.5
	60.00	59.89	-3.23	-.97	3.38	196.9	4.3	211.0
	65.00	64.87	-3.60	-1.16	3.78	197.9	4.6	206.4
	70.00	69.85	-3.98	-1.39	4.22	199.3	5.1	211.4
	75.00	74.83	-4.37	-1.61	4.66	200.3	5.1	209.6
	80.00	79.81	-4.70	-1.88	5.07	201.9	4.9	219.2
	85.00	84.79	-5.05	-2.18	5.50	203.4	5.2	220.1
	90.00	89.76	-5.45	-2.44	5.97	204.2	5.4	213.3
TD	91.50	91.26	-5.59	-2.50	6.13	204.1	5.9	201.6

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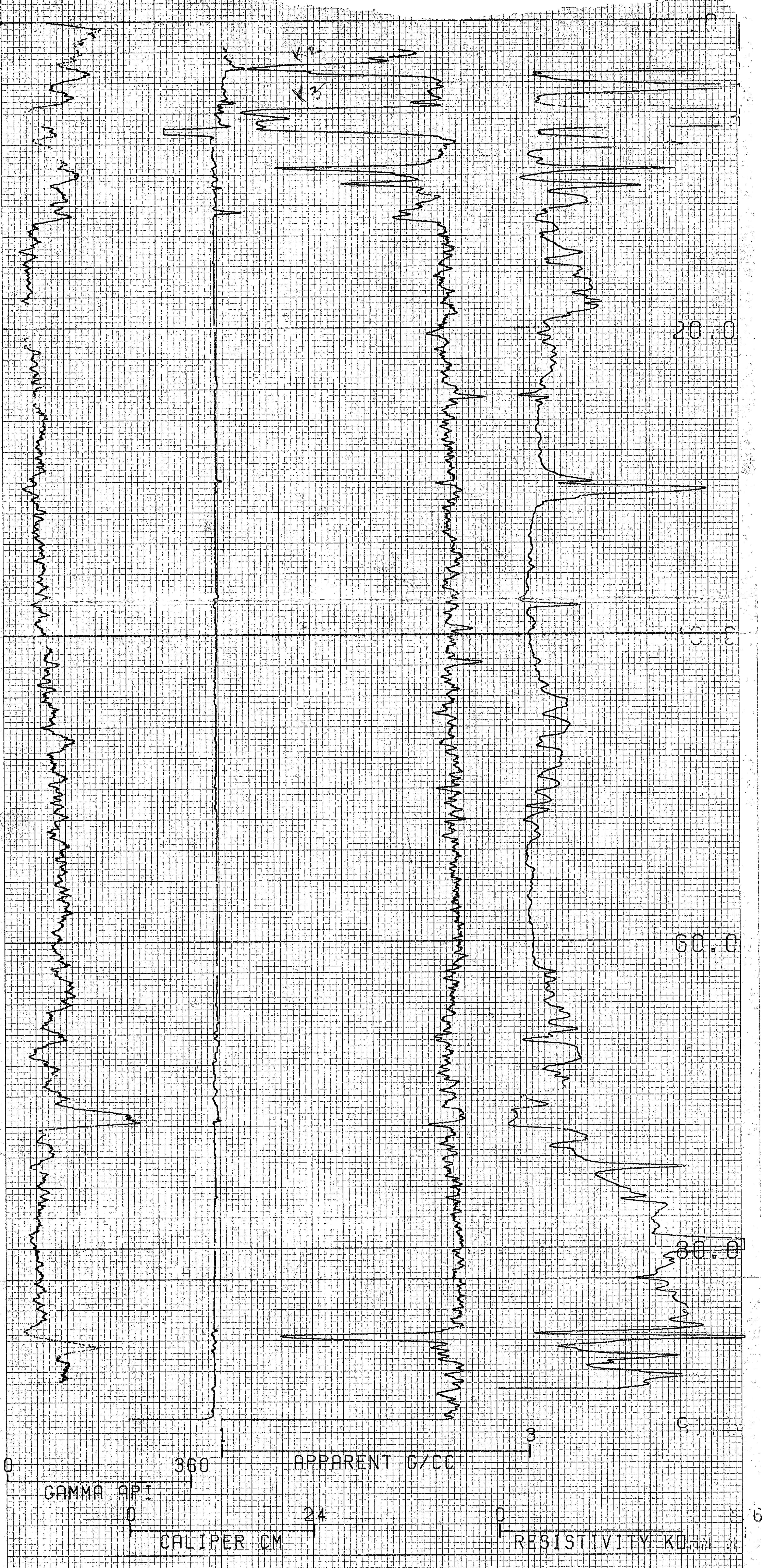


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

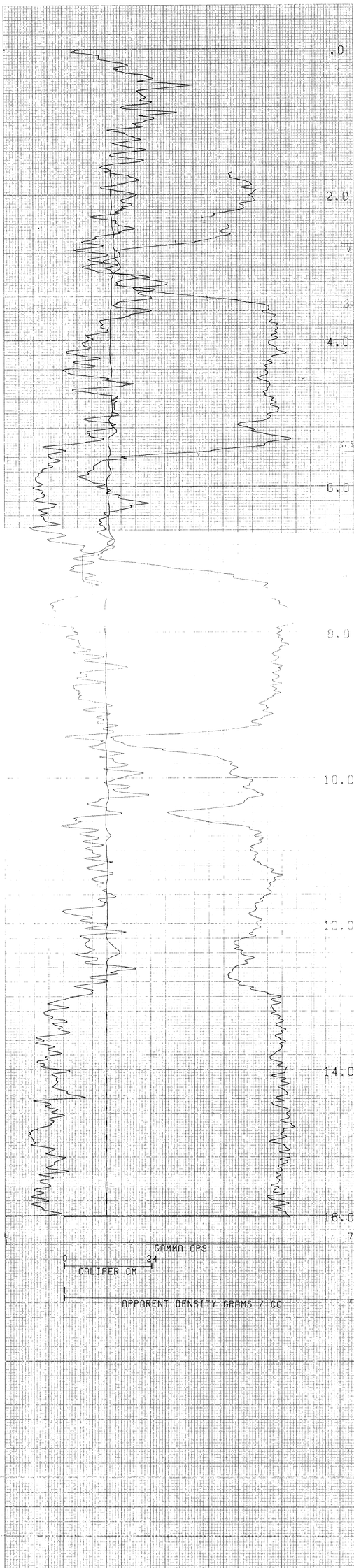
COMPU-LOG V8L2 PLOT 08-04-84

618

HR-84013
GAMMA DENSITY
HERMANN NORTH

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6508
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL AS = 98
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#30 L1

PR-Quintette 84(3)A



COMPU-LOG V8L2 PLOT 08-04-84

618

QHR-84013

GAMMA DENSITY -DETAIL

HERMANN NORTH

HOLE DIAMETER : 13.0

PROBE # 9030A1- 403

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = 98

DATA V8L2#A TRUCK # L365

R. ZEMENCHIK APPL.#1700L1

ART NO. 786-0040 CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

P.R. Quintela 8/13/8 CENTURY GEOPHYSICAL CORP. PART

VERTICAL DEVIATION

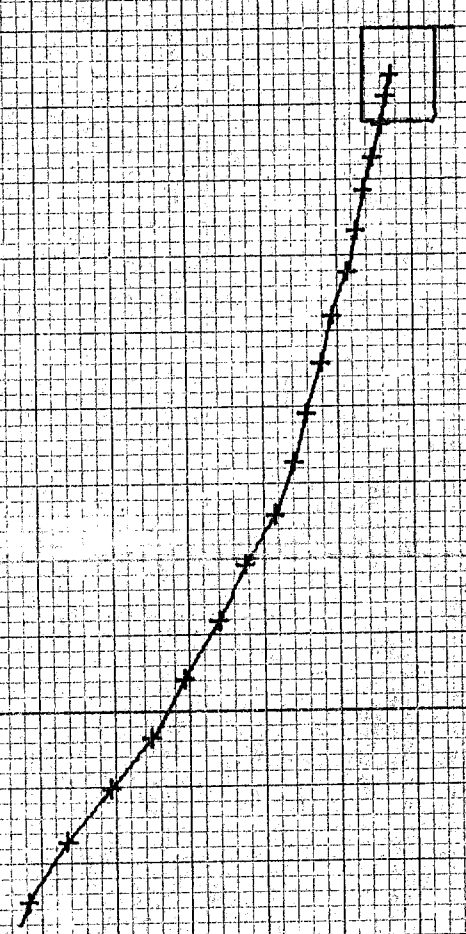
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : VERTICAL DEVIATION
LOCATION : HERMANN NORTH
HOLE ID : QHR-84013
DATE OF LOG : 08-04-84
PROBE : 9055A 0079

SCALE: .50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 91.3 M
AZIMUTH: 204.1
DISTANCE: 6.13 M

+ = 5.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



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NO. 786-0040
PR - Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : VERTICAL DEVIATION

HOLE ID : OHR-84014

LOCATION : HERMANN NORTH

DATE OF LOG : 08-06-84

DATA FROM : V8L2*A

PROBE : 9855A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	5.00	4.99	.09	-.05	.11	328.0	1.2	327.9
	10.00	9.99	.14	-.12	.19	319.9	.9	308.8
	15.00	14.99	.21	-.22	.31	314.3	1.3	305.3
	20.00	19.99	.29	-.31	.42	312.7	1.3	308.5
	25.00	24.99	.39	-.41	.57	313.5	1.6	316.0
	30.00	29.98	.48	-.54	.73	312.1	1.8	306.9
	35.00	34.98	.57	-.67	.89	310.4	1.8	302.8
	40.00	39.98	.67	-.81	1.05	309.4	1.8	304.2
	45.00	44.98	.77	-.94	1.22	309.2	1.8	308.0
	50.00	49.97	.86	-1.09	1.39	308.5	2.0	303.2
	55.00	54.97	.96	-1.23	1.57	308.0	1.9	304.5
	60.00	59.97	1.08	-1.34	1.72	308.7	1.8	315.0
	65.00	64.96	1.19	-1.48	1.90	308.8	2.0	309.7
	70.00	69.96	1.32	-1.63	2.10	308.9	2.2	310.2
	75.00	74.96	1.46	-1.78	2.31	309.3	2.4	313.4
	80.00	79.95	1.60	-1.94	2.52	309.5	2.4	311.2
	85.00	84.94	1.75	-2.14	2.76	309.3	2.8	307.2
	90.00	89.94	1.88	-2.34	3.00	308.7	2.7	302.3
	95.00	94.93	2.00	-2.58	3.26	307.8	3.0	297.1
TD	97.50	97.43	2.04	-2.70	3.39	307.1	3.0	288.9

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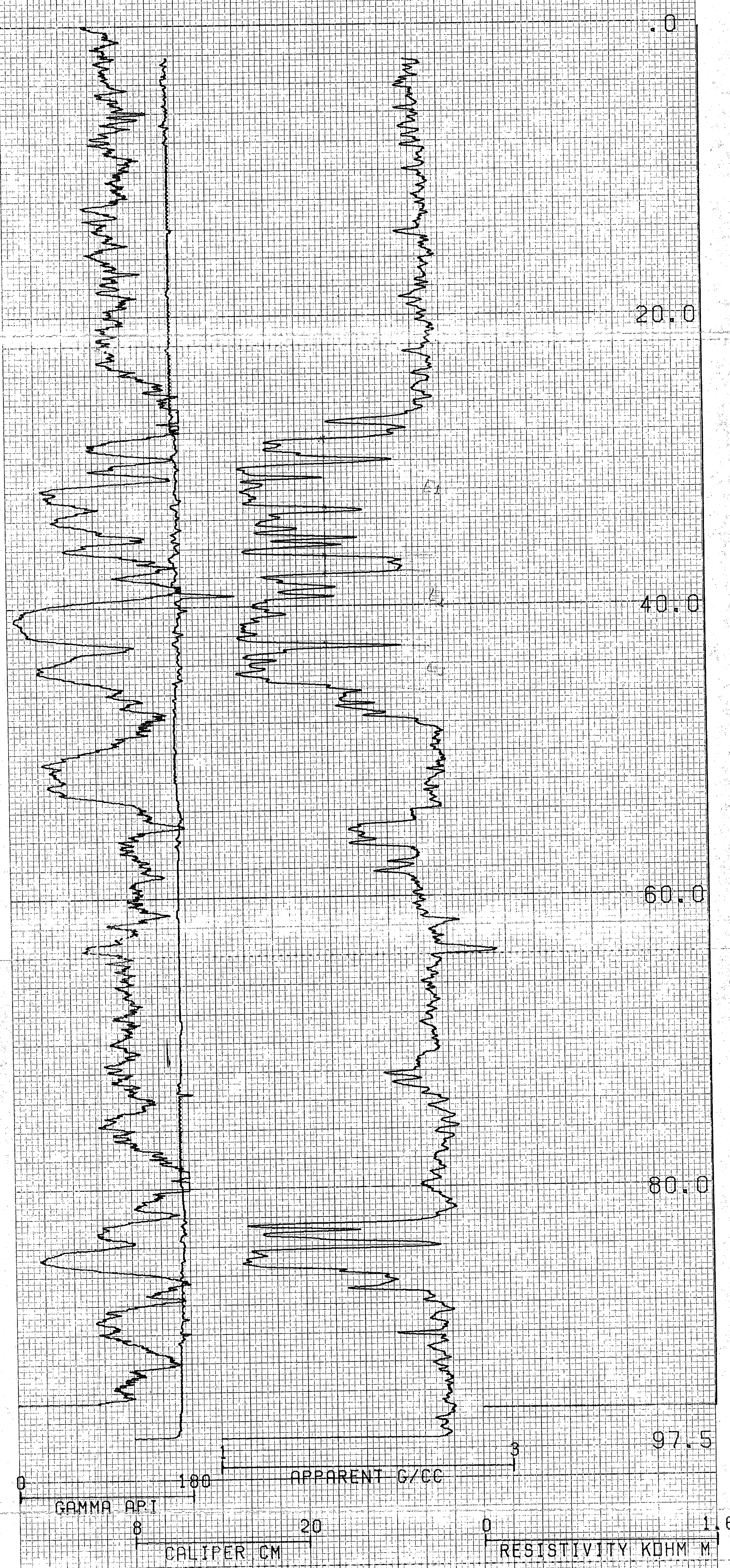


COMPU-LOG V8L2 PLOT 08-06-84

618

QHR-84014
GAMMA DENSITY
HERMANN NORTH

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#30 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

PR-Quintette 84(3)A

618

VERTICAL DEVIATION

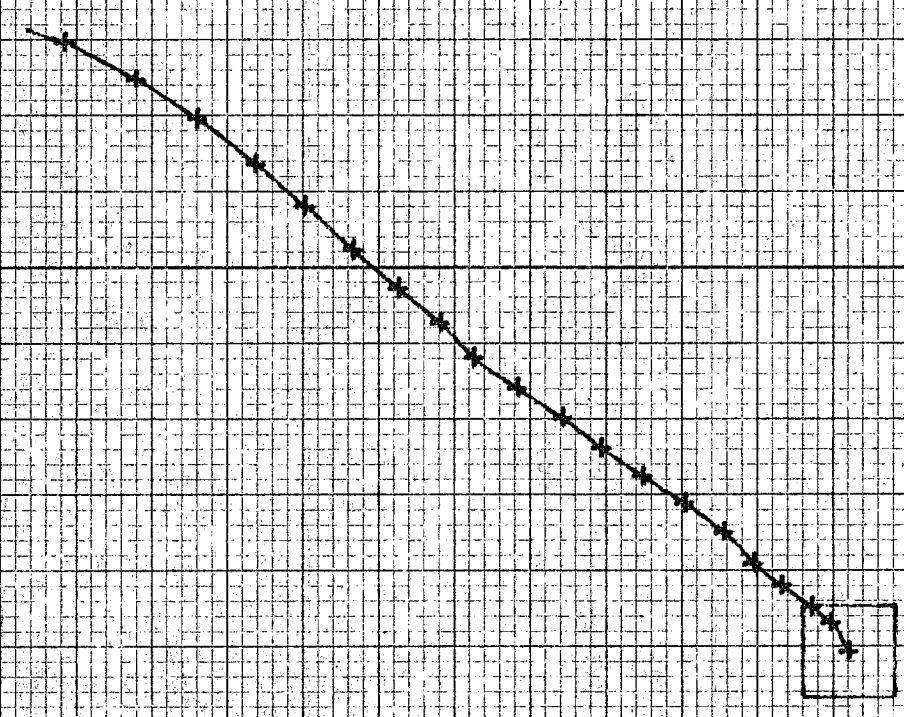
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

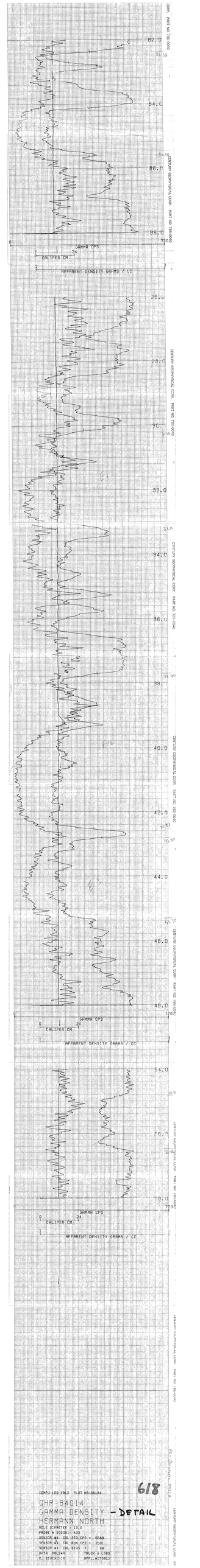
CLIENT : VERTICAL DEVIATION
LOCATION : HERMANN NORTH
HOLE ID : QHR-84014
DATE OF LOG : 08-06-84
PROBE : 9055A 0079

SCALE: .25 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 97.4 M
AZIMUTH: 307.0
DISTANCE: 3.39 M

+ = 5.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑




CENTURY GEOPHYSICAL CORP. PART NO. 795-0040
82.0
84.0
86.0
88.0
GAMMA CPS
CALIPER CM
APPARENT DENSITY GRAMS / CC
90.0
92.0
94.0
96.0
98.0
100.0
102.0
104.0
106.0
108.0
110.0
112.0
114.0
116.0
118.0
120.0
122.0
124.0
126.0
128.0
130.0
132.0
134.0
136.0
138.0
140.0
142.0
144.0
146.0
148.0
150.0
152.0
154.0
156.0
158.0
160.0
COMPU-LOG V8L2 PLOT 08-DE-84
QHR-84014
GAMMA DENSITY - DETAIL
HERMANN NORTH
HOLE DIAMETER : 13.0
PROBE # 1035011-403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 89
DATA YALE#4 TRUCK & LIMS
DENSIMETER APPL:METRIC
618

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : VERTICAL DEVIATION

HOLE ID : QHR-84015

LOCATION : HERMANN NORTH

DATE OF LOG : 08-06-84

DATA FROM : V8L2*A

PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
2.00	1.99	-.04	-.04	.06	221.6	1.7	221.5
4.00	3.99	-.09	-.08	.12	222.2	1.7	222.7
6.00	5.99	-.12	-.14	.18	229.8	1.9	243.6
8.00	7.99	-.17	-.20	.26	230.2	2.3	231.1
10.00	9.99	-.22	-.27	.35	230.9	2.5	233.1
12.00	11.99	-.26	-.34	.43	232.7	2.1	241.1
14.00	13.99	-.27	-.41	.49	236.1	2.0	257.0
16.00	15.98	-.30	-.48	.57	237.5	2.2	246.2
18.00	17.98	-.34	-.55	.65	237.8	2.2	239.5
20.00	19.98	-.38	-.63	.74	238.5	2.5	244.1
22.00	21.98	-.41	-.73	.84	240.2	2.9	252.3
24.00	23.97	-.46	-.83	.95	240.7	3.1	244.1
26.00	25.97	-.50	-.93	1.06	241.8	3.1	251.4
28.00	27.97	-.54	-1.03	1.17	242.1	3.2	245.7
30.00	29.96	-.58	-1.14	1.28	242.8	3.2	250.2
32.00	31.96	-.61	-1.25	1.40	243.8	3.4	253.7
34.00	33.96	-.67	-1.36	1.51	243.7	3.3	242.9
36.00	35.95	-.72	-1.47	1.64	244.0	3.6	247.5
38.00	37.95	-.77	-1.58	1.76	244.0	3.4	244.0
40.00	39.94	-.82	-1.71	1.90	244.3	4.1	248.3
42.00	41.94	-.88	-1.86	2.05	244.7	4.3	249.0
44.00	43.93	-.94	-1.98	2.20	244.6	4.0	243.5
46.00	45.93	-1.00	-2.10	2.33	244.4	3.9	241.4
48.00	47.92	-1.06	-2.26	2.50	244.8	4.6	250.5
50.00	49.91	-1.12	-2.42	2.67	245.1	5.0	249.0
52.00	51.91	-1.19	-2.58	2.84	245.2	4.8	246.3
54.00	53.90	-1.25	-2.74	3.01	245.4	4.8	248.8
56.00	55.89	-1.31	-2.89	3.18	245.5	4.8	247.6
58.00	57.89	-1.38	-3.04	3.34	245.5	4.7	246.2
60.00	59.88	-1.46	-3.19	3.51	245.4	4.8	241.9
TD 60.90	60.77	-1.49	-3.26	3.59	245.5	4.9	249.4

618

618

PR-Quintette 84(3)A

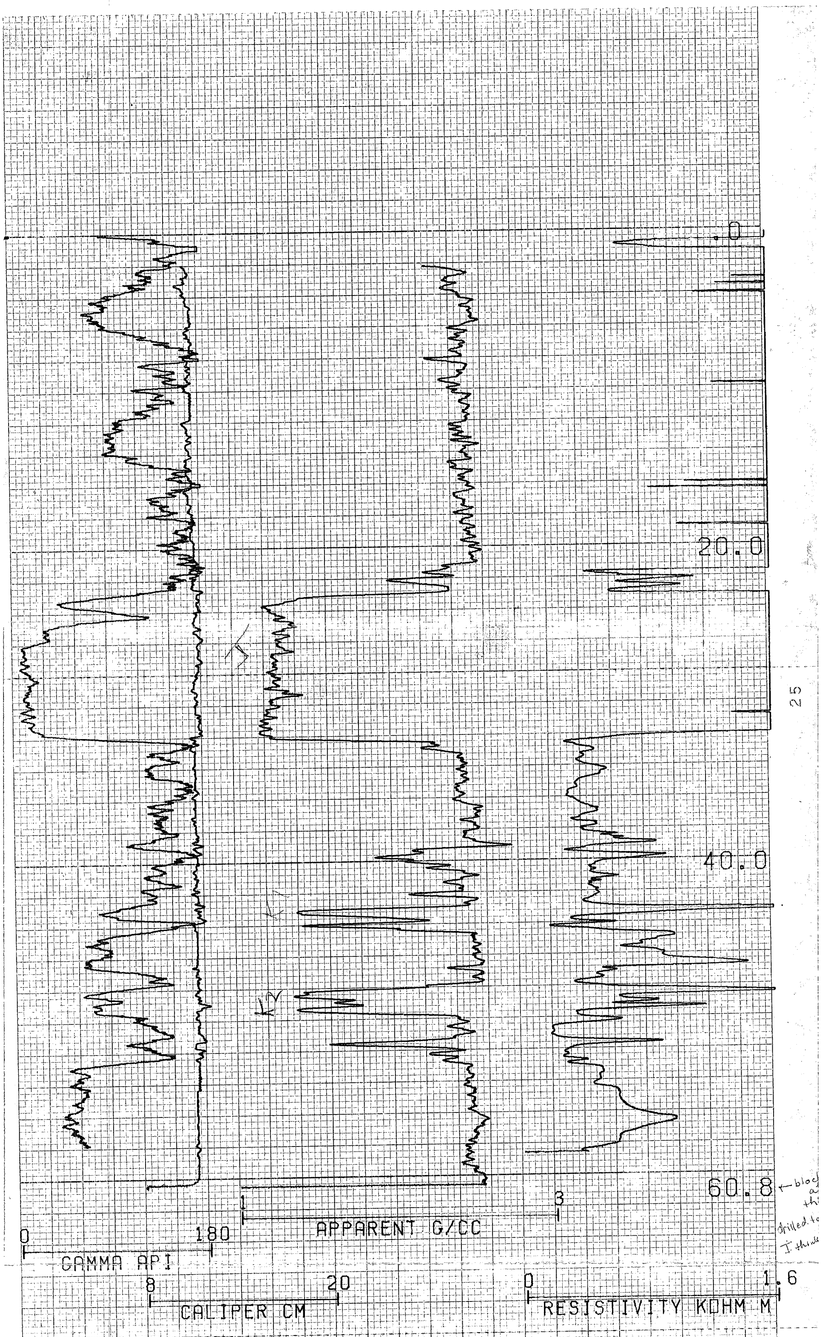
COMPU-LOG V8L2 PLOT 08-06-84

QHR-84015
GAMMA DENSITY
HERMANN NORTH

DETAIL

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#1708L1

CENTURY GEOPHYSICAL CORP. PART NO.



COMPU-LOG V8L2 PLOT 08-06-84

618

QHR-84015
GAMMA DENSITY
HERMANN NORTH

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#30 L1

PR-Quadette 84(2)A

VERTICAL DEVIATION

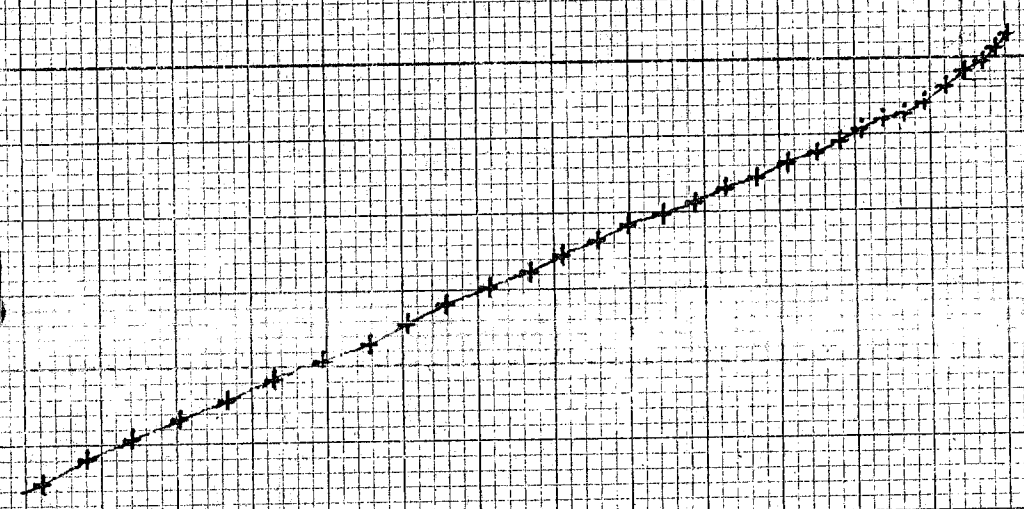
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : VERTICAL DEVIATION
LOCATION : HERMANN NORTH
HOLE ID : QHR-84015
DATE OF LOG : 08-06-84
PROBE : 9055A 0079

SCALE: .25 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 60.8 M
AZIMUTH: 245.5
DISTANCE: 3.59 M

+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

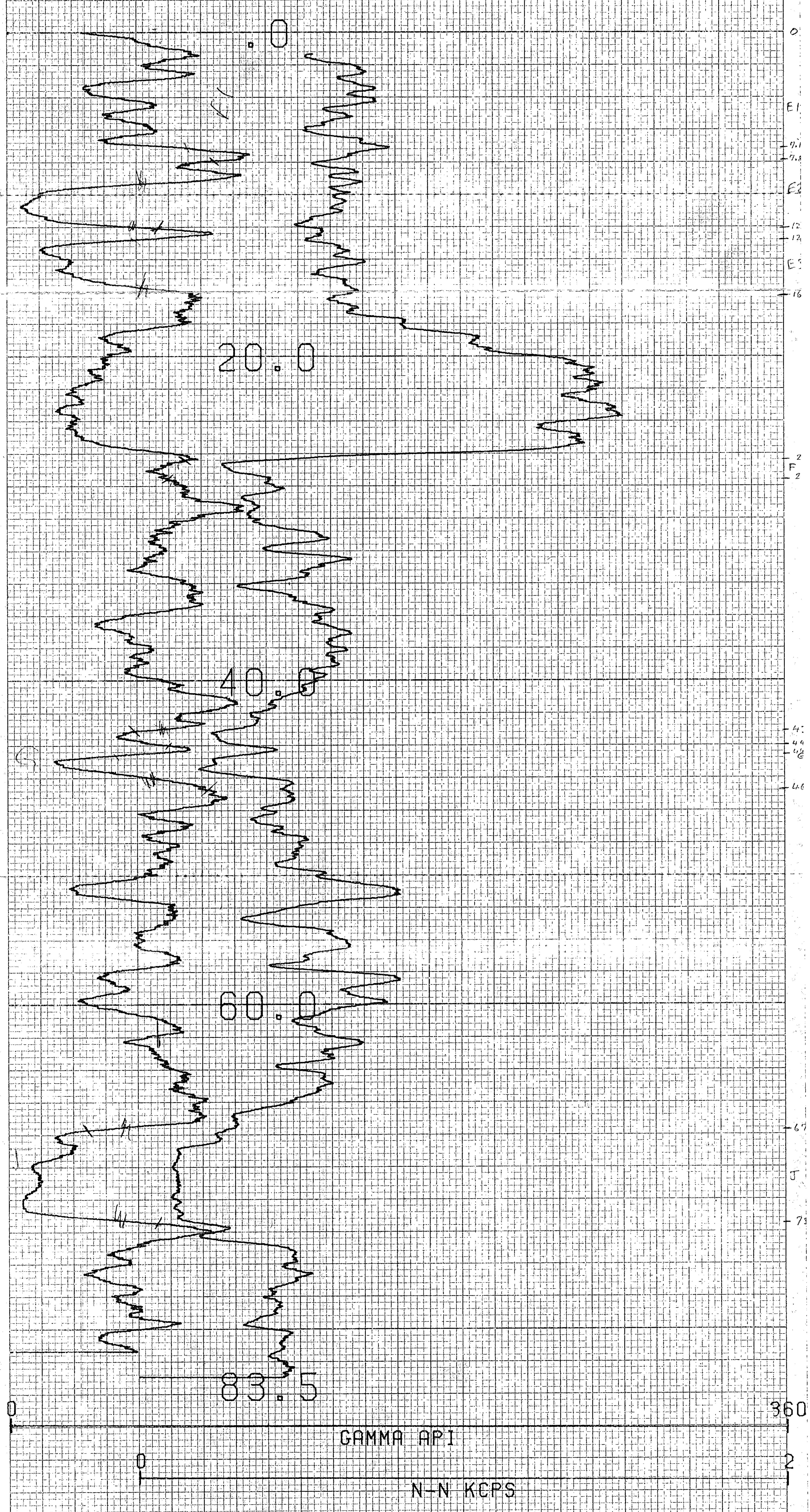


PR - Quintette 84(3) 19

618

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 08-05-84

618

QHR-84016
GAMMA NEUTRON (RODS)
HERMANN NORTH

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#1007L1

GEOPHYSICAL CORP. PART NO. 786-0040

PR-Quintette 84(3) A

COMPU-LOG V8L2 PLOT 08-05-84

QHR-84016

GAMMA NEUTRON (RODS)

HERMANN NORTH

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#1007L1

618

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * * VERTICAL DEVIATION * * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : DEVIATION

HOLE ID : QHR-84025

LOCATION : HERANN(NORTH)

DATE OF LOG : 08-10-84

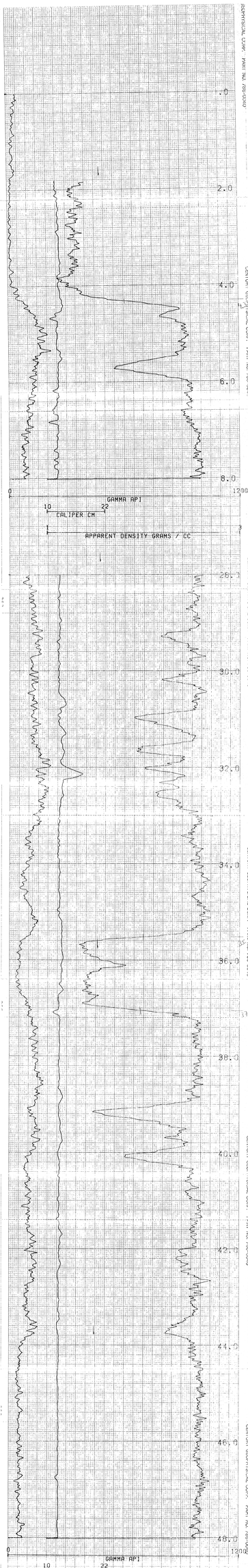
DATA FROM : V8L2*A

PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	5.00	4.99	-.00	-.06	.06	268.3	.7	268.2
	9.99	9.99	-.07	-.01	.07	190.2	.9	146.1
	15.00	14.99	-.19	.03	.19	169.6	1.4	157.6
	20.00	19.99	-.34	.08	.35	165.9	1.8	161.3
	25.00	24.98	-.54	.04	.55	175.5	2.4	191.5
	30.00	29.98	-.79	-.06	.79	184.7	3.1	203.8
	35.00	34.96	-1.11	-.24	1.14	192.5	4.2	209.6
	40.00	39.94	-1.41	-.53	1.51	200.9	4.7	224.5
	45.00	44.92	-1.79	-.80	1.96	204.1	5.3	214.7
	50.00	49.89	-2.24	-1.05	2.47	205.3	5.8	209.8
	55.00	54.86	-2.70	-1.33	3.01	206.2	6.1	210.1
	60.00	59.83	-3.19	-1.65	3.59	207.3	6.7	213.4
	65.00	64.79	-3.72	-1.96	4.21	207.8	7.1	210.5
TD	67.00	66.77	-3.94	-2.11	4.47	208.2	7.5	214.0

618



-U-LOG V8L2 PLOT 08-10-84

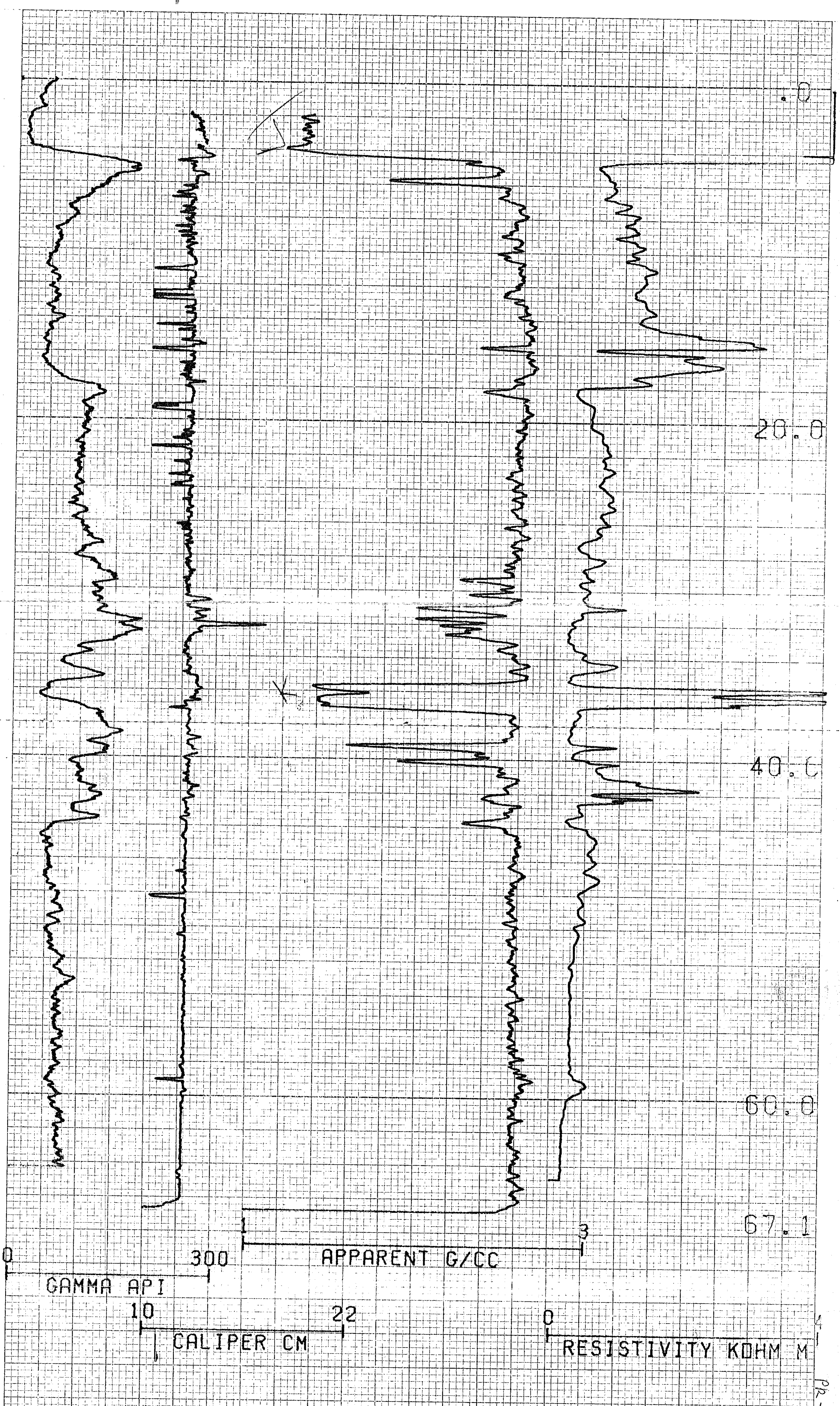
618

QHR-84025
GAMMA-DENS-CAL-RES
HERMANN(NORTH)

DETAIL

HOLE DIAMETER : 13.0
PROBE # 9030A1- 420
SENSOR #4 CAL STD CPS = 6580
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA : V8L2WR TRUCK # 365
R.THOMSON APPL.#708 L1

CENTURY GEOPHYSICAL CORP.



COMPU-LOG V8L2 PLOT 08-10-84

QHR-84025
GAMMA-DENS-CAL-RES
HERMANN(NORTH)

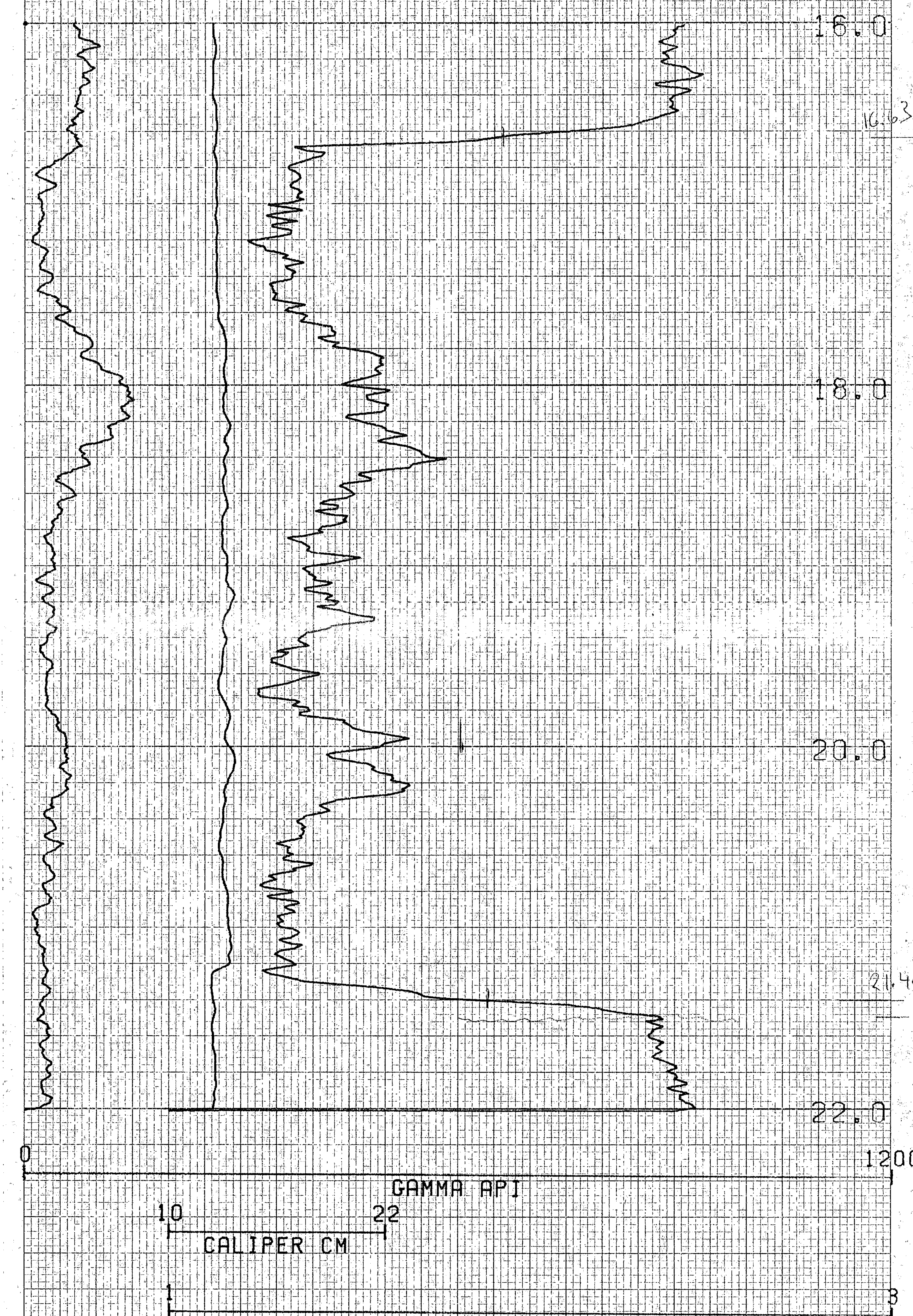
HOLE DIAMETER : 13.0
PROBE # 9030A1- 420
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA V8L2*A TRUCK # 365
R.THOMSON APPL.#30 L1

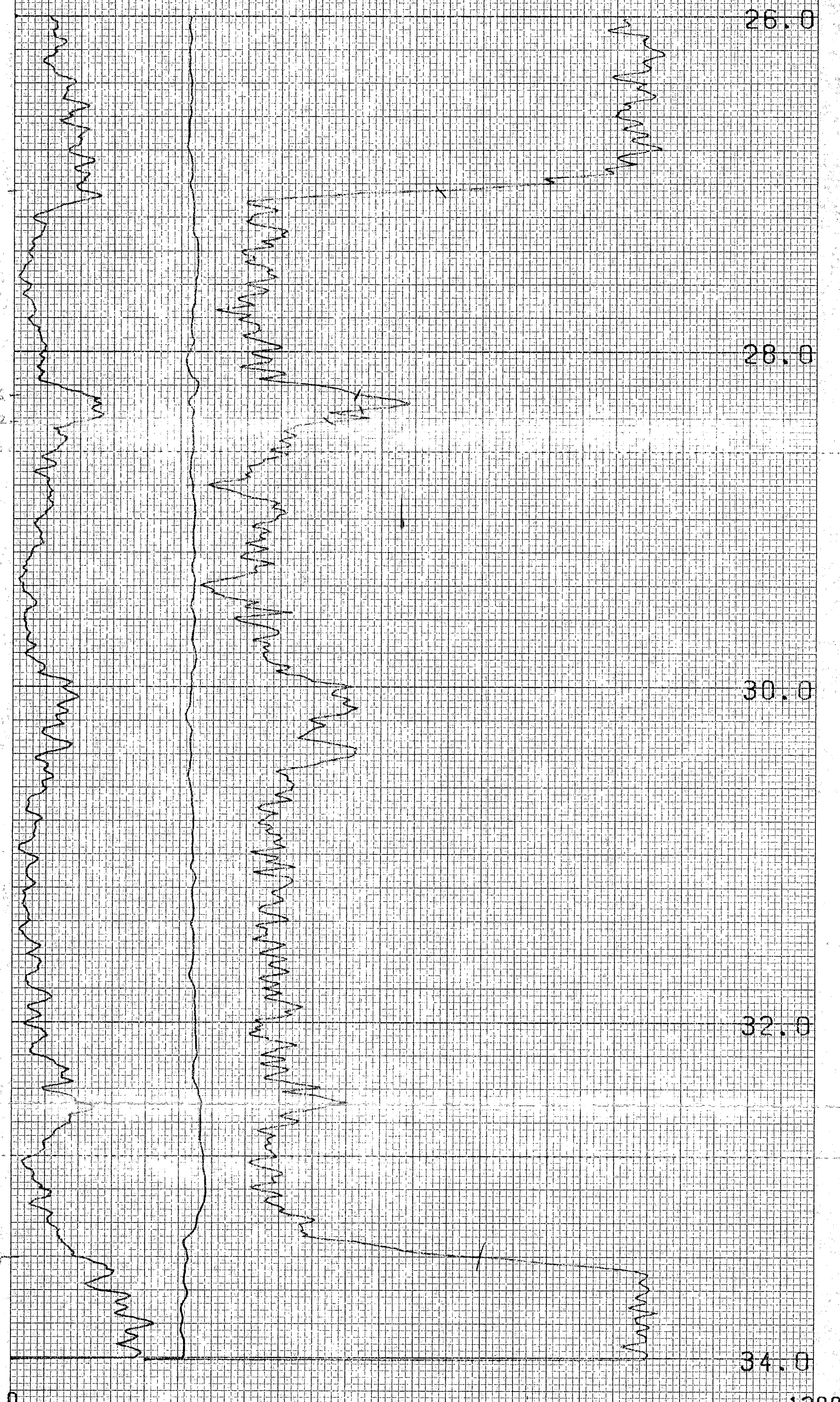
618

Pr-Quintette 84(3)A

SEAM TD

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040





618

COMPU-LOG V8L2 PLOT 08-08-84

QHR-84019

GAMMA-DENS-CAL-RES-DETAIL

HERMANN ~~(NORTH)~~ GETHING

HOLE DIAMETER : 13.0
PROBE # 9030A1- 420
SENSOR #4 CAL STD CPS = 6586
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA V8L2*A TRUCK # 365
R.THOMSEN APPL.#1708L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : DEVIATION
LOCATION : HERANN(NORTH)
HOLE ID : QHR-84025
DATE OF LOG : 08-10-84
PROBE : 9055A 0079

618

SCALE: .25 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 66.8 M
AZIMUTH: 208.2
DISTANCE: 4.47 M

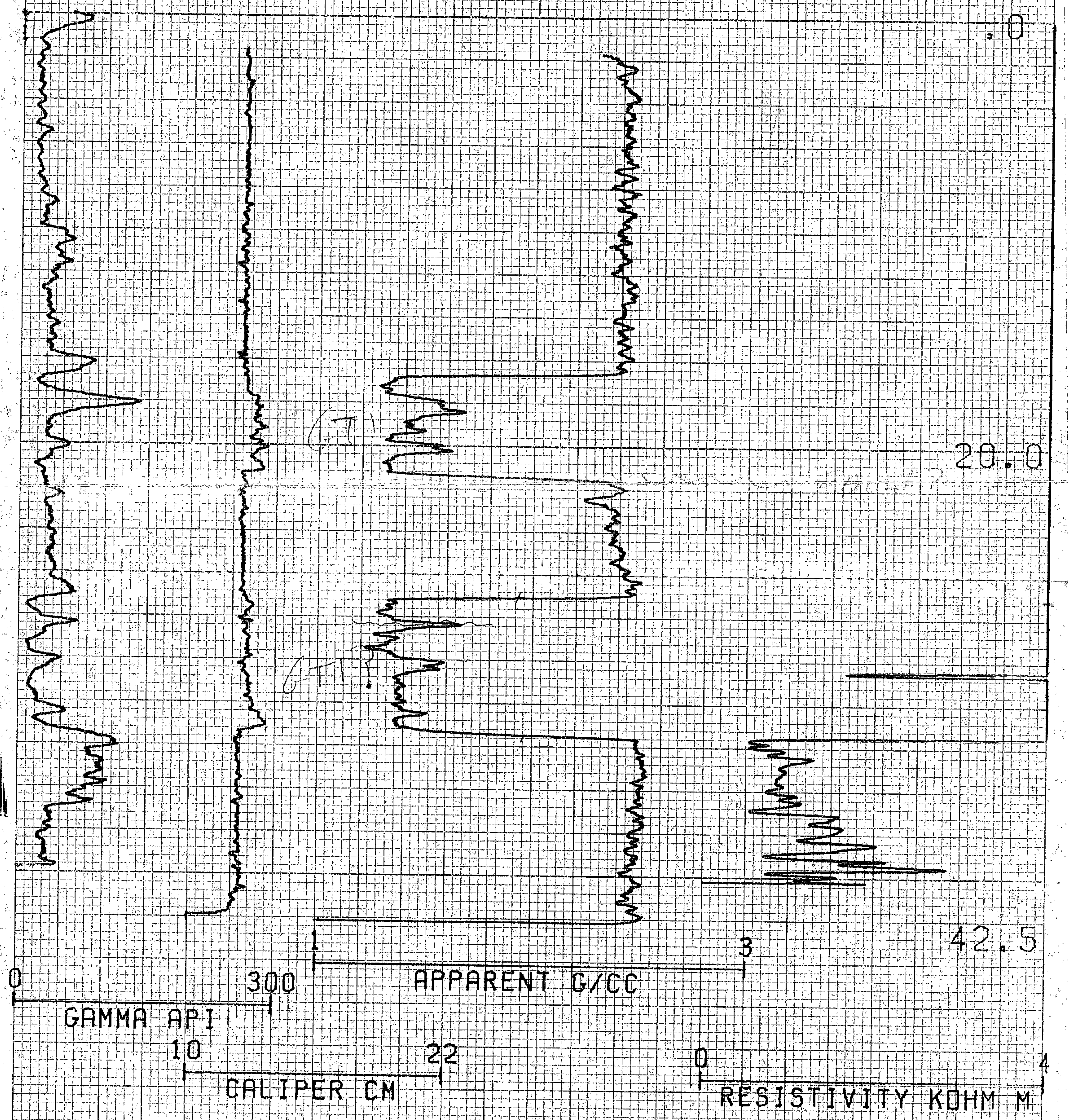
+ = 5.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

PR- Quintette 84(3) A

CENTURY GEOPHYSICAL CORP.
PART NO. 786-0040

310



447

COMPU-LOG V8L2 PLOT 08-08-84

618

QHR-84019
GAMMA-DENS-CAL-RES
HERMANN ~~(NORTH)~~ GETHING

HOLE DIAMETER : 13.0
PROBE # 9030A1- 420
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA V8L2*A TRUCK # 365
R.THOMSON APPL.#30 L1

PR-Quintette 84(3)A

618

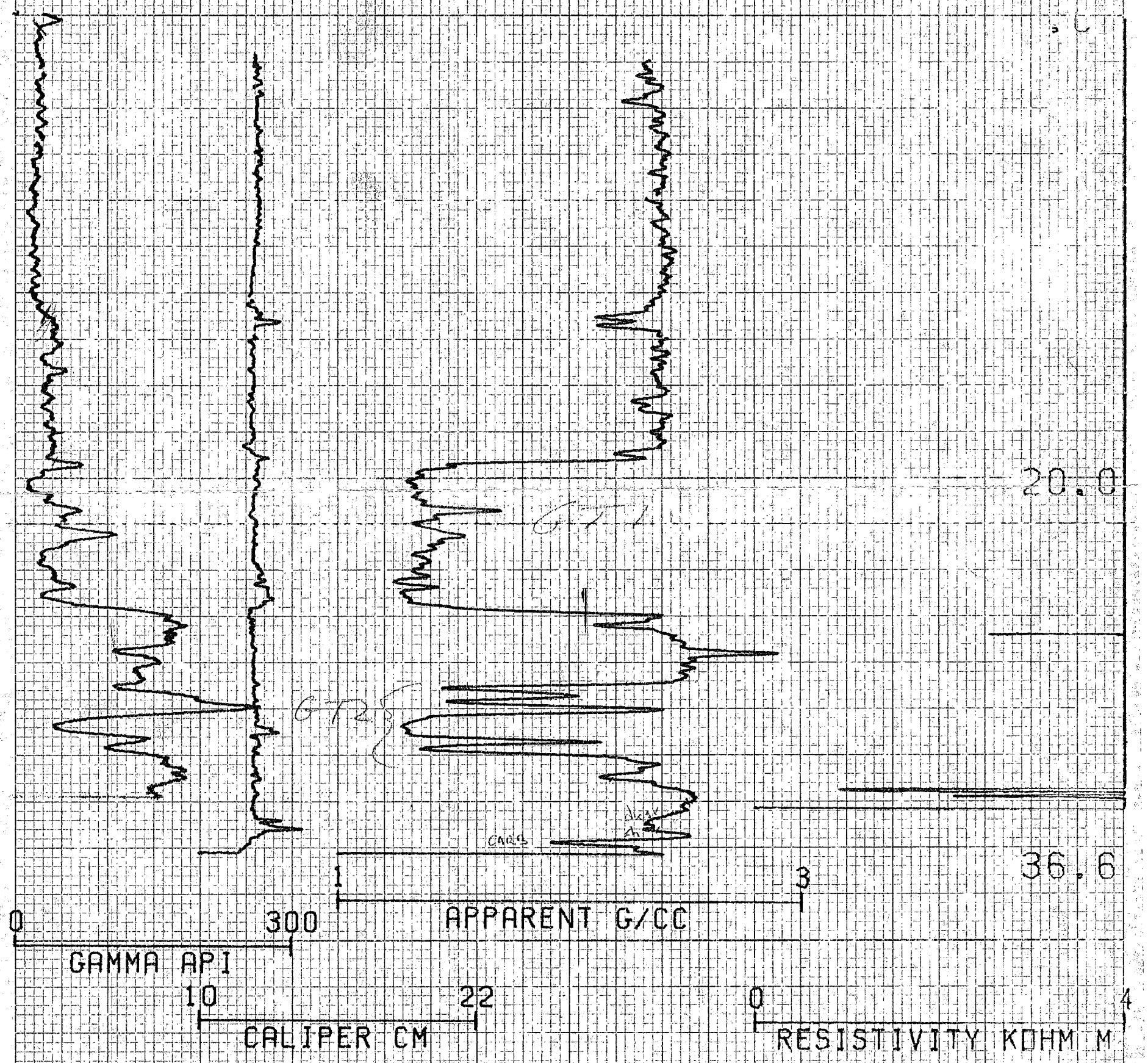
COMPU-LOG V8L2 PLOT 08-08-84

QHR-84020
GAMMA-DENS-CAL-RES-DETAIL
HERMANN([redacted]) GETHING

HOLE DIAMETER : 13.0
PROBE # 9030A1- 420
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA V8L2*A TRUCK # 365
R.THOMSON APPL.#708 L1

PR-Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



COMPU-LOG V8L2 PLOT 08-08-84

618

QHR-84020

GAMMA-DENS-CAL-RES

HERMANN([redacted]) GETHING

HOLE DIAMETER : 13.0

PROBE # 9030A1- 420

SENSOR #4 CAL STD CPS = 6588

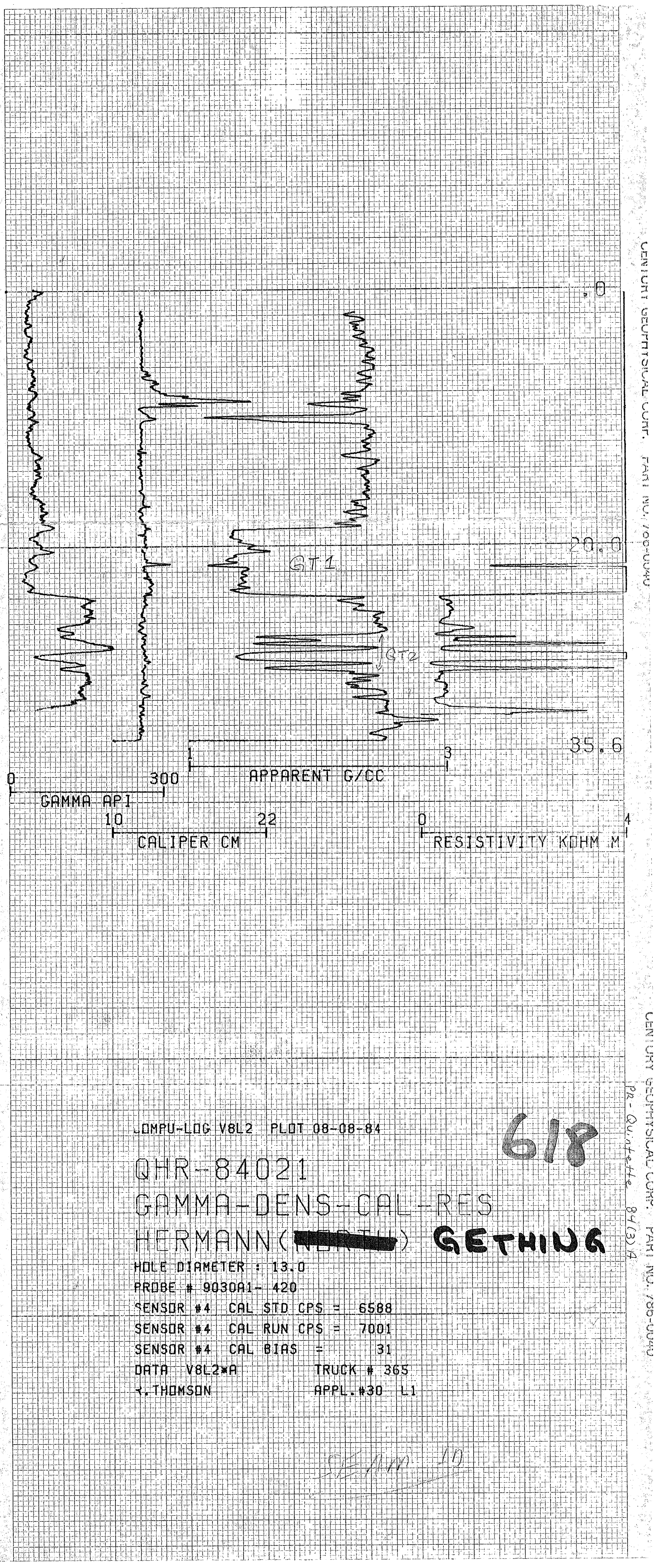
SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = 31

DATA V8L2*A TRUCK # 365

R.THOMSON APPL.#30 L1

PR - Quintette 84(3) A



JOMPU-LOG V8L2 PLOT 08-08-84

6/8

QHR-84021

GAMMA-DENS-CAL-RES

HERMANN([redacted]) GETHING

HOLE DIAMETER : 13.0

PROBE # 9030A1- 420

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = 31

DATA V8L2*A TRUCK # 365

R.THOMSON APPL.#30 L1

Run 10

CENTURY GEOPHYSICAL CORP. PART NO. 780-0040

PR - Quintette 84(3) A

618

COMPU-LOG V8L2 PLOT 08-08-84

QHR-84021

GAMMA-DENS-CAL-RES-DETAIL

HERMANN([redacted]) GETHING

HOLE DIAMETER : 13.0

PROBE # 9030A1- 420

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = 31

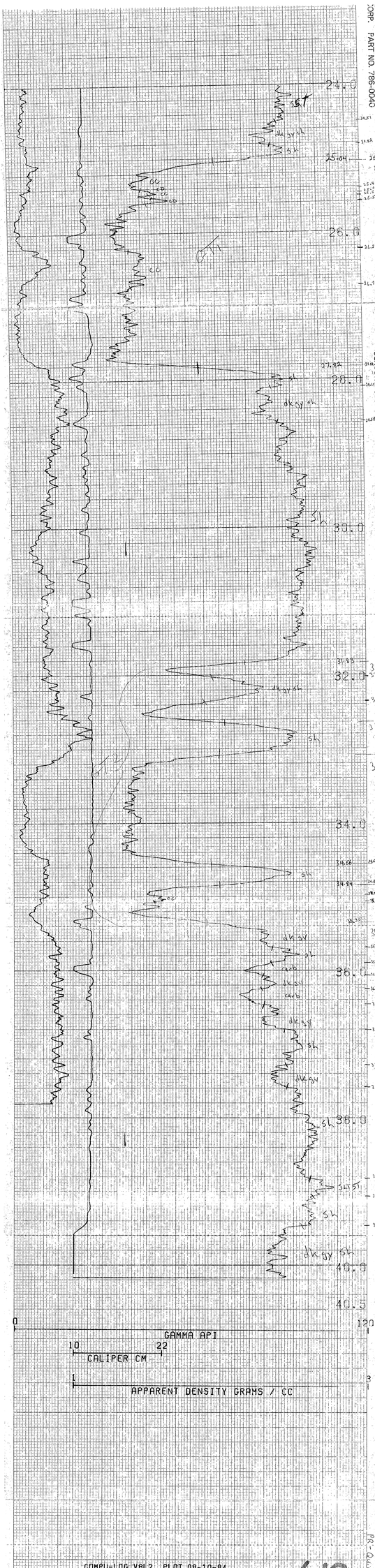
DATA V8L2*A TRUCK # 365

R. THOMSON APPL.#1708L1

SEAM PICKS

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

PR-Quintette 84(3)A



COMPU-LOG V8L2 PLOT 08-10-84

618

QHR-84022

GAMMA-DENS-CAL-RES-DETAIL

HERMANN(GETHING)

HOLE DIAMETER : 13.0

PROBE # 903091- 420

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

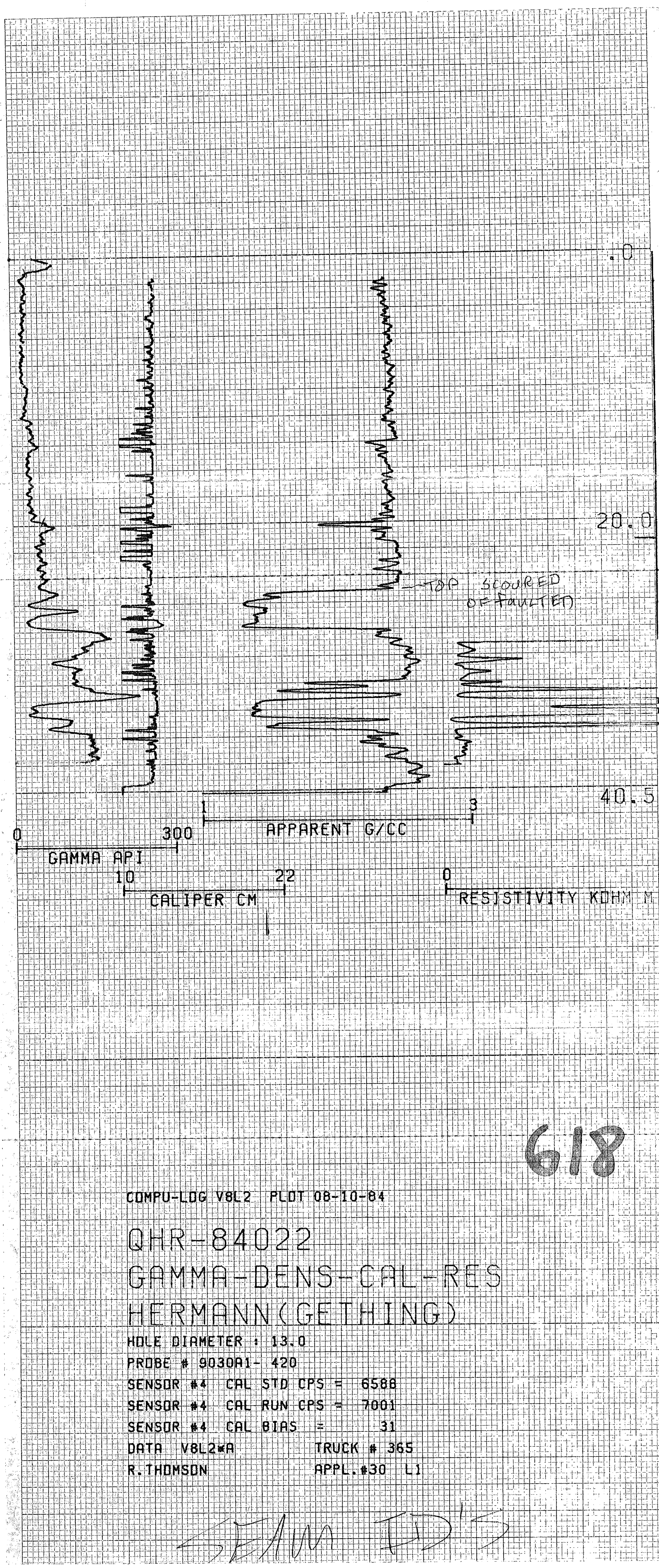
SENSOR #4 CAL BIAS - 31

DATA V8L2*R TRUCK # 365

R.THOMSON APPL.#1708L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

PR - Quintette 84(3) A

618

COMPU-LOG V8L2 PLOT 08-10-84

QHR-84022

GAMMA-DENS-CAL-RES

HERMANN(GETHING)

HOLE DIAMETER : 13.0

PROBE # 9030A1- 420

SENSOR #4 CAL STD CPS = 6588

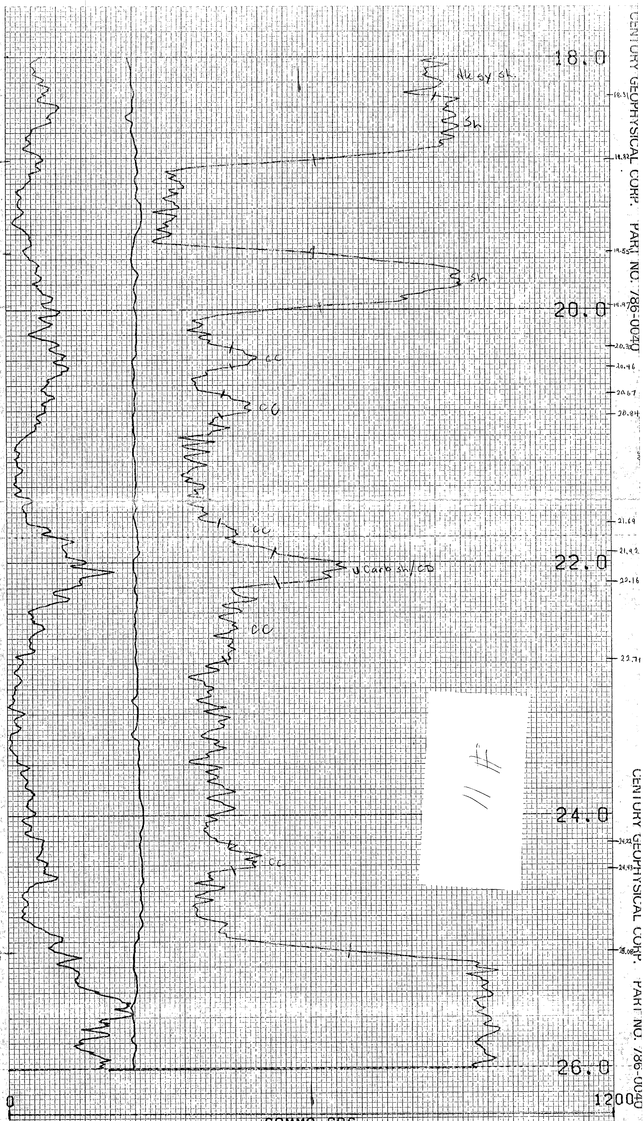
SENSOR #4 CAL RUN CPS = 7001

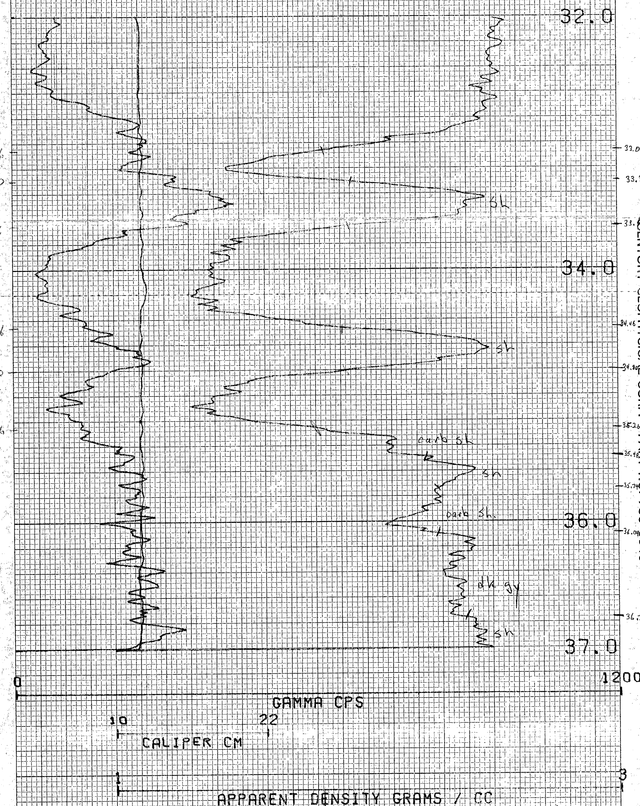
SENSOR #4 CAL BIAS = 31

DATA V8L2*A TRUCK # 365

R.THOMSON APPL.#30 L1

FINAL





618

COMPU-LOG V8L2 PLOT 08-08-84

QHR-84023

GAMMA-DENS-CAL-RES-DETAIL

HERMANN ~~(NORTH)~~ GETHING

HOLE DIAMETER : 13.0

PROBE # 9030A1- 420

SENSOR #4 CAL STD CPS = 6508

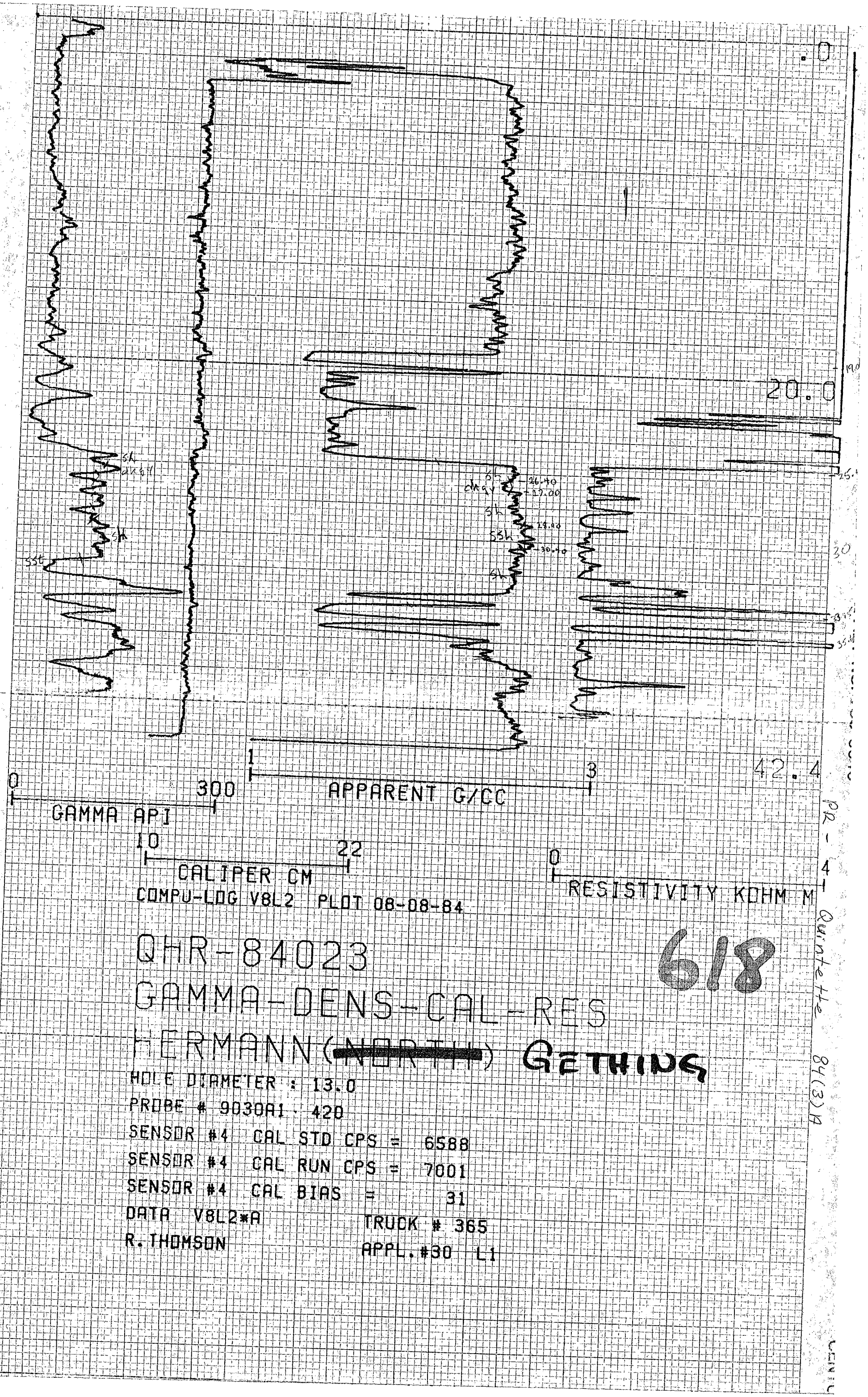
SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = 31

DATA V8L2WA TRUCK # 365

R.THOMSON APPL.#1708L1

CENTURY GEOPHYSICAL CORP. PART N


0
300
GAMMA API
1
3
APPARENT G/CC
10
22
CALIPER CM
0
RESISTIVITY KOHM M
20.0
42.4
COMPU-LOG V8L2 PLOT 08-08-84
QHR-84023
GAMMA-DENS-CAL-RES
HERMANN(NORTH)
GETHING
HOLE DIAMETER : 13.0
PROBE # 9030A1 - 420
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA V8L2*A
TRUCK # 365
R.THOMSON
APPL.#30 L1
618

421

CENTURY GEOPHYSICAL CORPORATION
* * * * * * * * VERTICAL DEVIATION * * * * * * * *
COMPU-LOG V8L1 DEVIATION

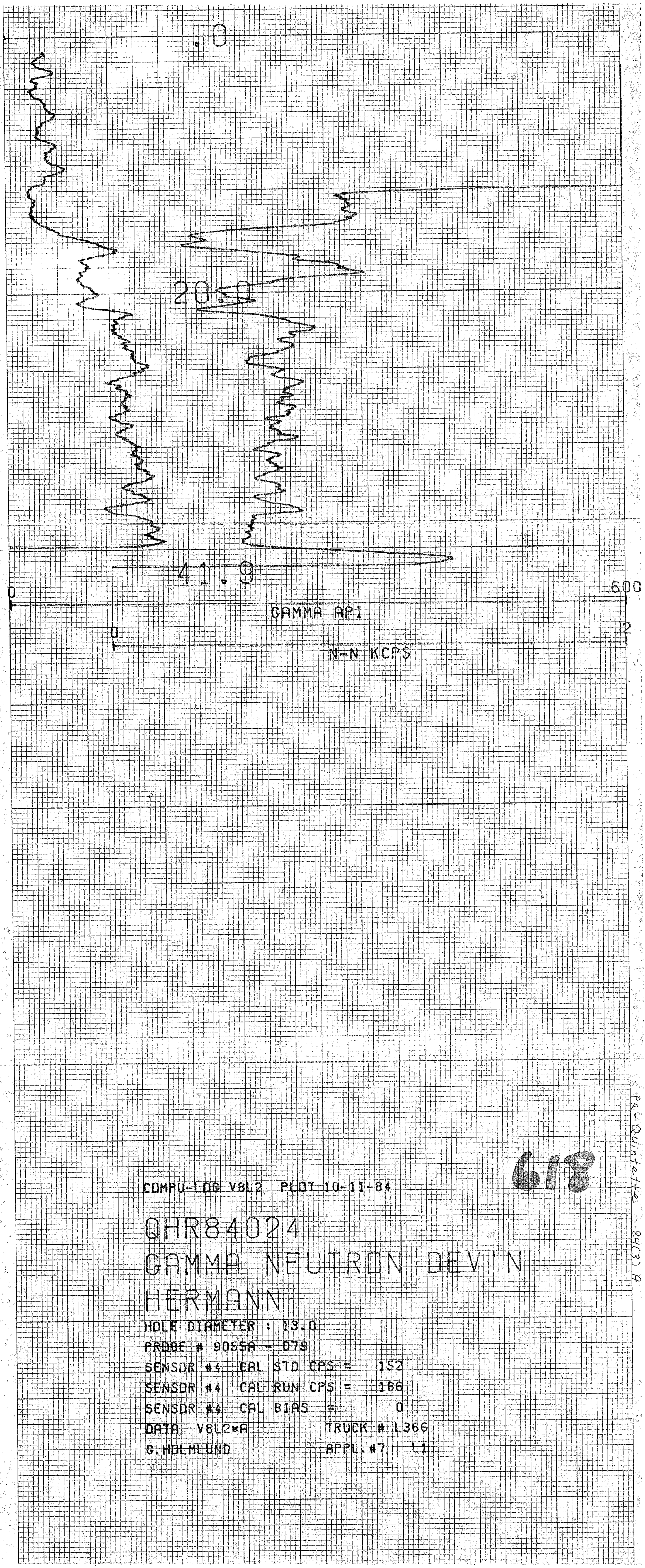
CLIENT : GAMMA NEUTRON DEV'N
LOCATION : HERMANN
DATA FROM : V8L2*A

HOLE ID : GHR84024
DATE OF LOG : 10-11-84
PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	2.00	1.99	-.04	-.00	.04	190.7	1.3	190.6
	4.00	3.99	-.08	-.01	.09	187.9	1.2	185.0
	6.00	5.99	-.14	-.00	.14	182.6	1.4	173.2
	8.00	7.99	-.19	.00	.19	177.5	1.7	165.5
	10.00	9.99	-.24	.03	.24	172.5	1.3	151.2
	12.00	11.99	-.28	.06	.29	167.8	1.5	145.8
	14.00	13.99	-.33	.10	.35	162.0	1.9	136.2
	16.00	15.99	-.39	.12	.41	162.4	1.7	164.9
	18.00	17.99	-.45	.12	.47	164.1	1.7	175.4
	20.00	19.99	-.50	.16	.52	162.3	1.7	148.2
	22.00	21.98	-.55	.18	.58	161.6	1.5	154.6
	24.00	23.98	-.60	.20	.63	161.3	1.5	157.8
	26.00	25.98	-.65	.23	.69	160.3	1.6	149.1
	28.00	27.98	-.68	.26	.73	158.9	1.2	135.5
	30.00	29.98	-.71	.28	.76	158.1	1.0	142.3
	32.00	31.98	-.75	.30	.81	158.1	1.2	158.0
	34.00	33.98	-.79	.32	.85	158.0	1.2	156.5
	36.00	35.98	-.83	.33	.89	158.3	1.2	163.3
	38.00	37.98	-.87	.33	.93	158.8	1.0	171.3
	40.00	39.98	-.90	.33	.96	159.7	1.0	182.3
TD	41.80	41.78	-.94	.33	.99	160.3	1.0	180.0

618



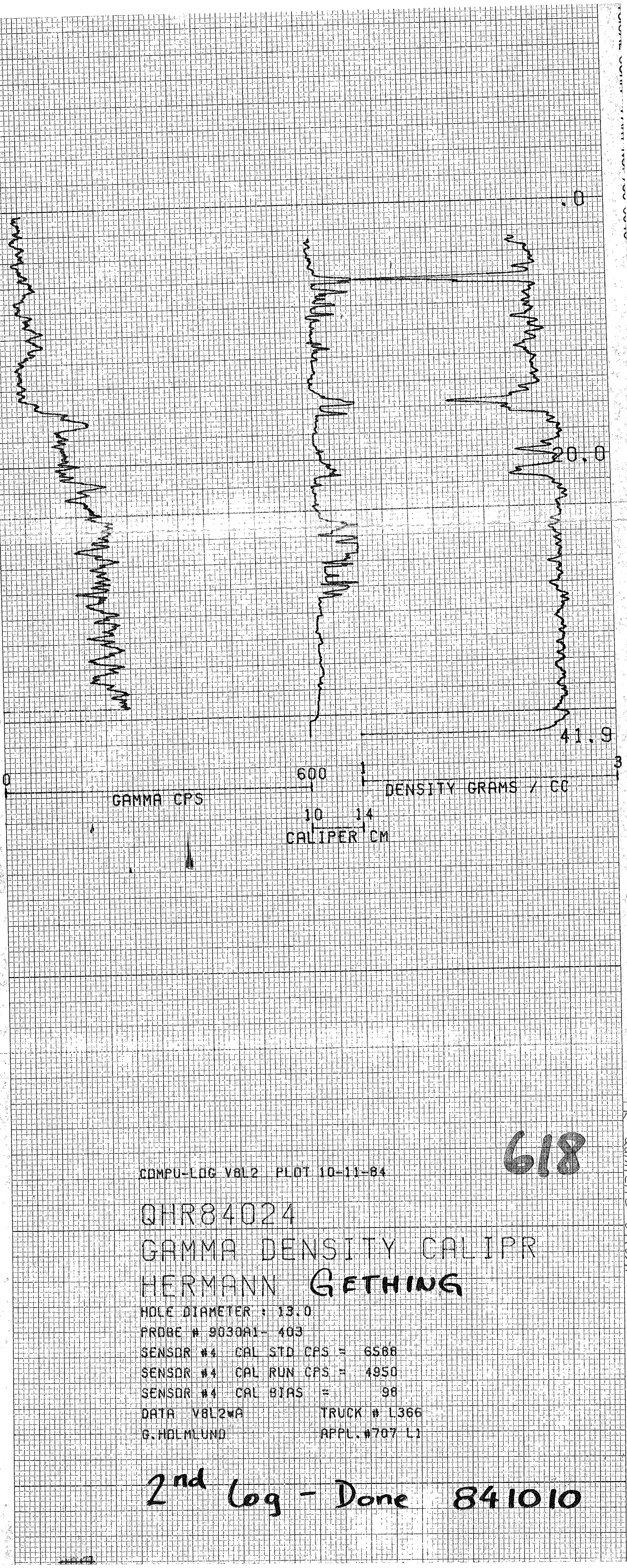
COMPU-LOG V8L2 PLOT 10-11-84

QHR84024
GAMMA NEUTRON DEV'N
HERMANN

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L366
G.HOLMLUND APPL.#7 L1

618

PR - Quintette 84(3) A



618

COMPU-LOG V8L2 PLOT 10-11-84

QHR84024

GAMMA DENSITY CALIPR

HERMANN GETHING

HOLE DIAMETER : 13.0

PROBE # 9030A1- 403

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 4950

SENSOR #4 CAL BIAS = 98

DATA V8L2*A TRUCK # L366

G.HOLMLUND APPL.#707 L1

2nd Log - Done 841010

PR - Quintette 84(3)A

VERTICAL DEVIATION

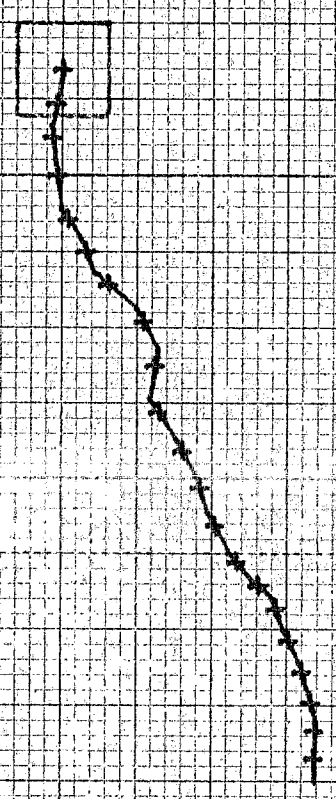
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON DEV'N
LOCATION : HERMANN
HOLE ID : QHR84024
DATE OF LOG : 10-11-84
PROBE : 9055A 0079

SCALE: .10 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 41.8 M
AZIMUTH: 160.3
DISTANCE: .99 M

+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

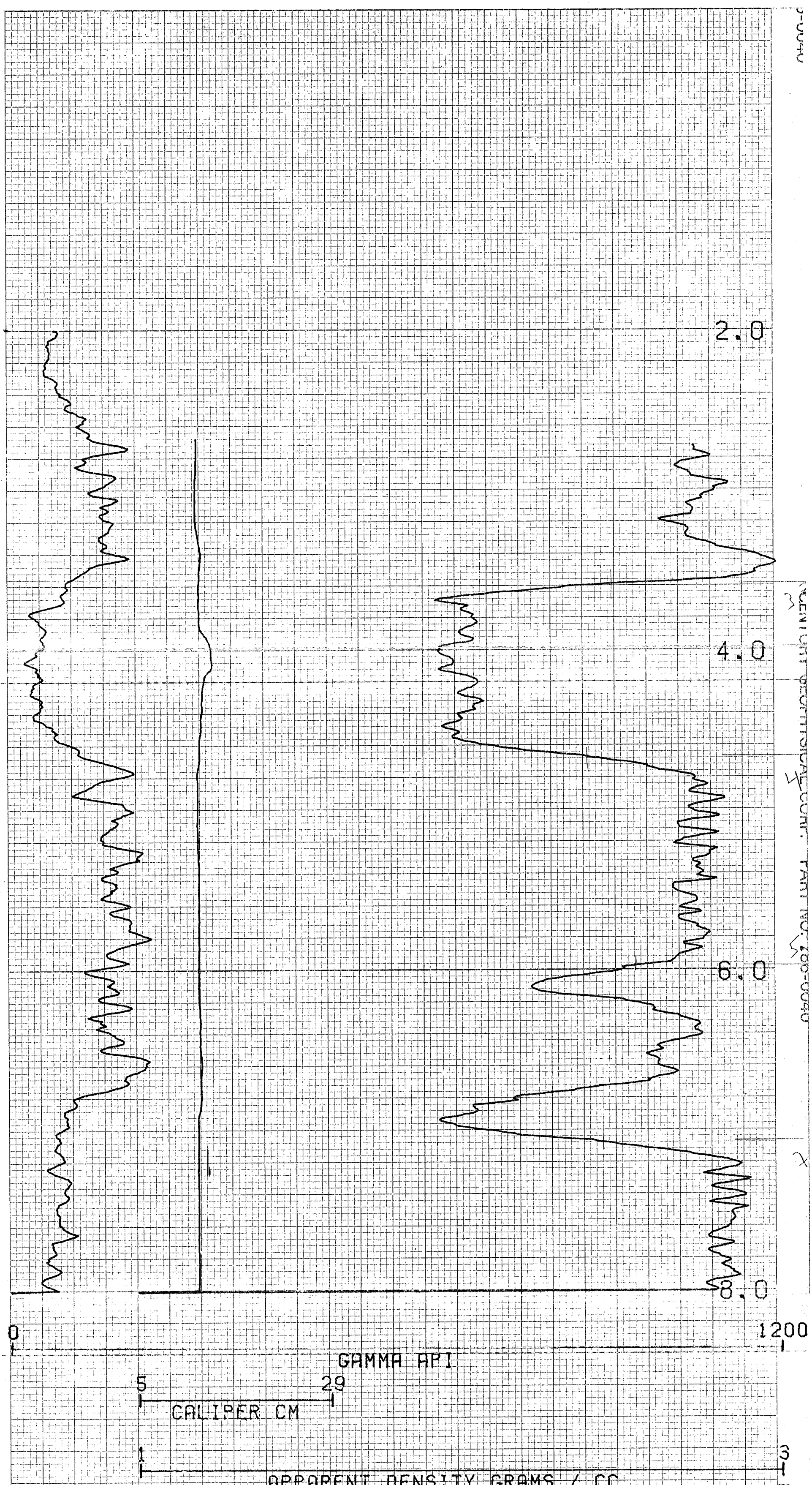
TRUE NORTH ↑



618

PR-Quintette 84(3) A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



DG V8L2 PLOT 07-26-84

618

QHR-84002

GAMMA DENSITY

HERMANN (SKI SHACKS)

DETAIL

Syncline

HOLE DIAMETER : 13.0

PROBE # 903GA1- 418

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

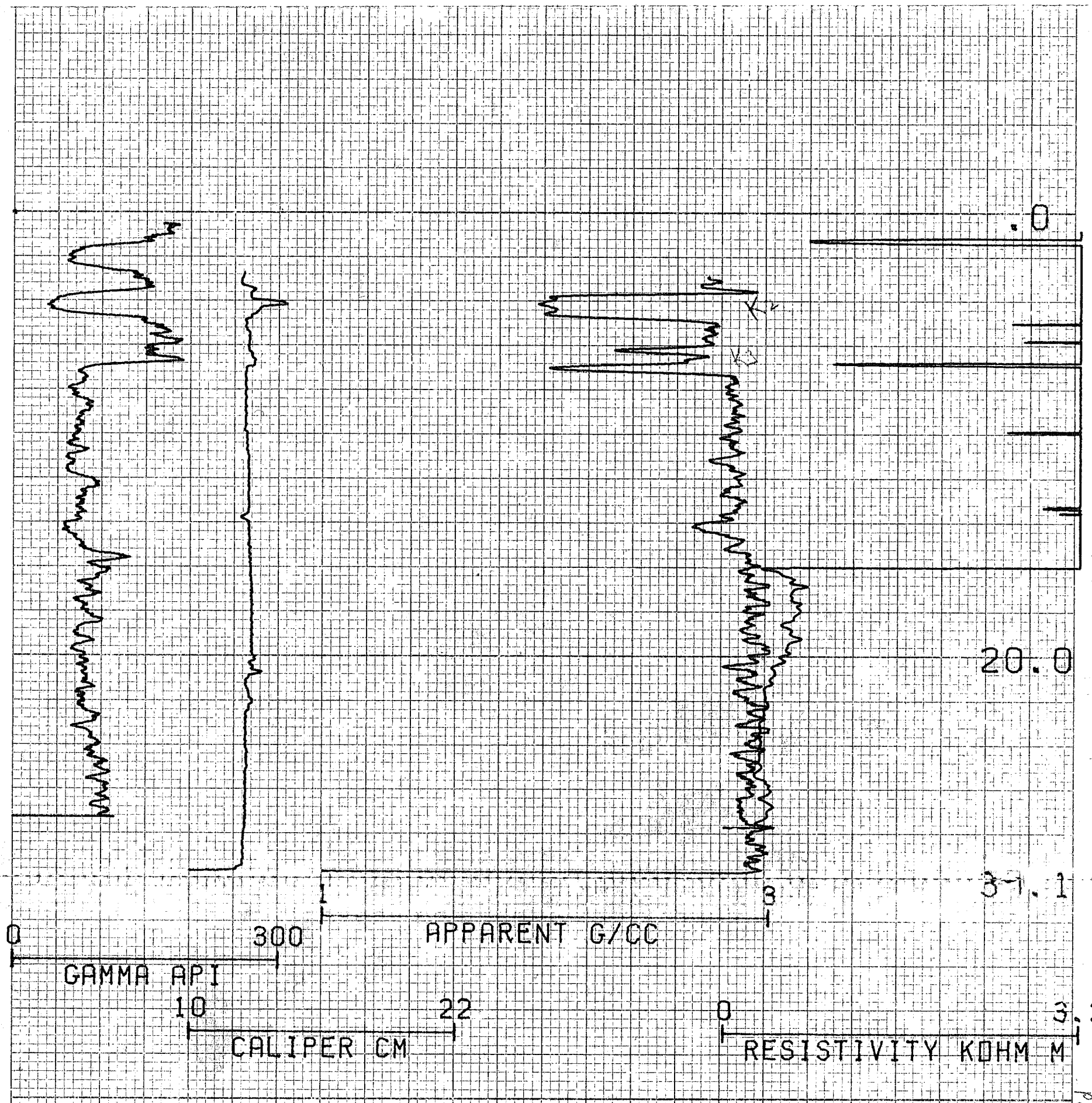
SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1708L1

PR-Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 780-0040



COMPU-LOG V8L2 PLOT 07-26-84

618

QHR-84002
GAMMA DENSITY
HERMANN (SKI SHACKS)

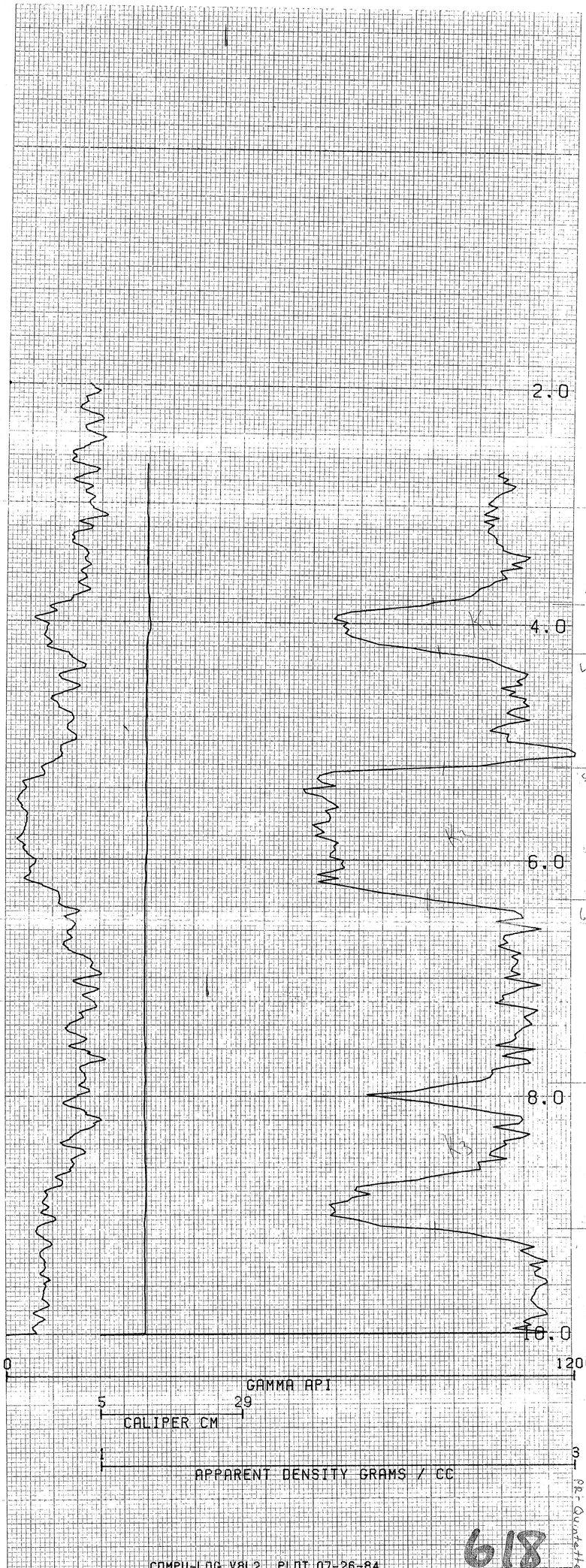
Syncline

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2*A TRUCK # L366
R. ZEMENCHIK APPL.#1030L1

PR- Quintette 84(3) A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

BOOK II
00618 PR 84(3)A
QUINTETTE.



L CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

618

COMPU-LOG V8L2 PLOT 07-26-84

QHR-84003

GAMMA DENSITY - DETAIL

HERMANN (SKI SHACKS)

SYNCLINE

HOLE DIAMETER : 13.0

PROBE # 9030A1- 418

SENSOR #4 CAL STD CPS = 6588

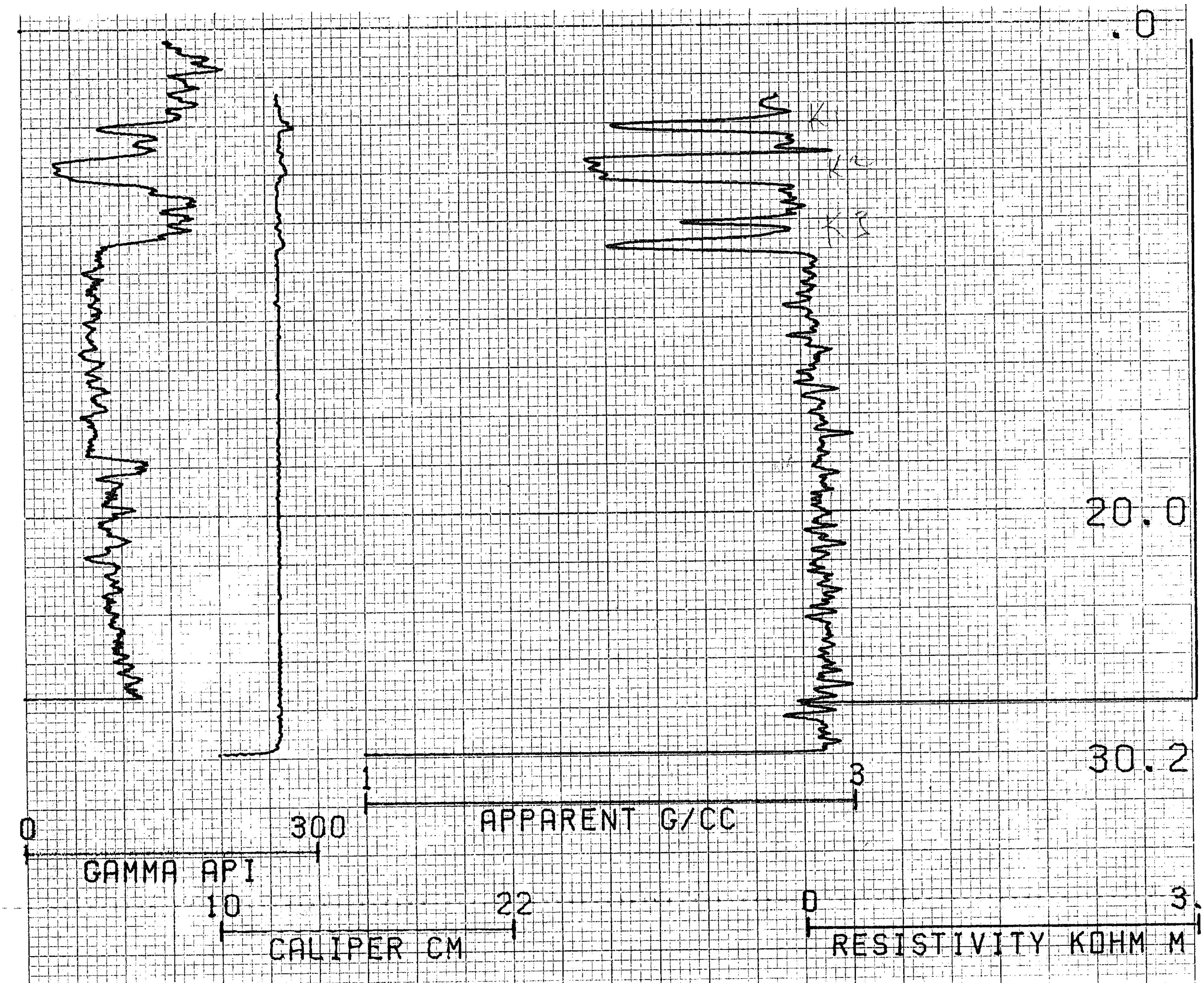
SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1708L1

QR-Quintette 84(3) 19



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

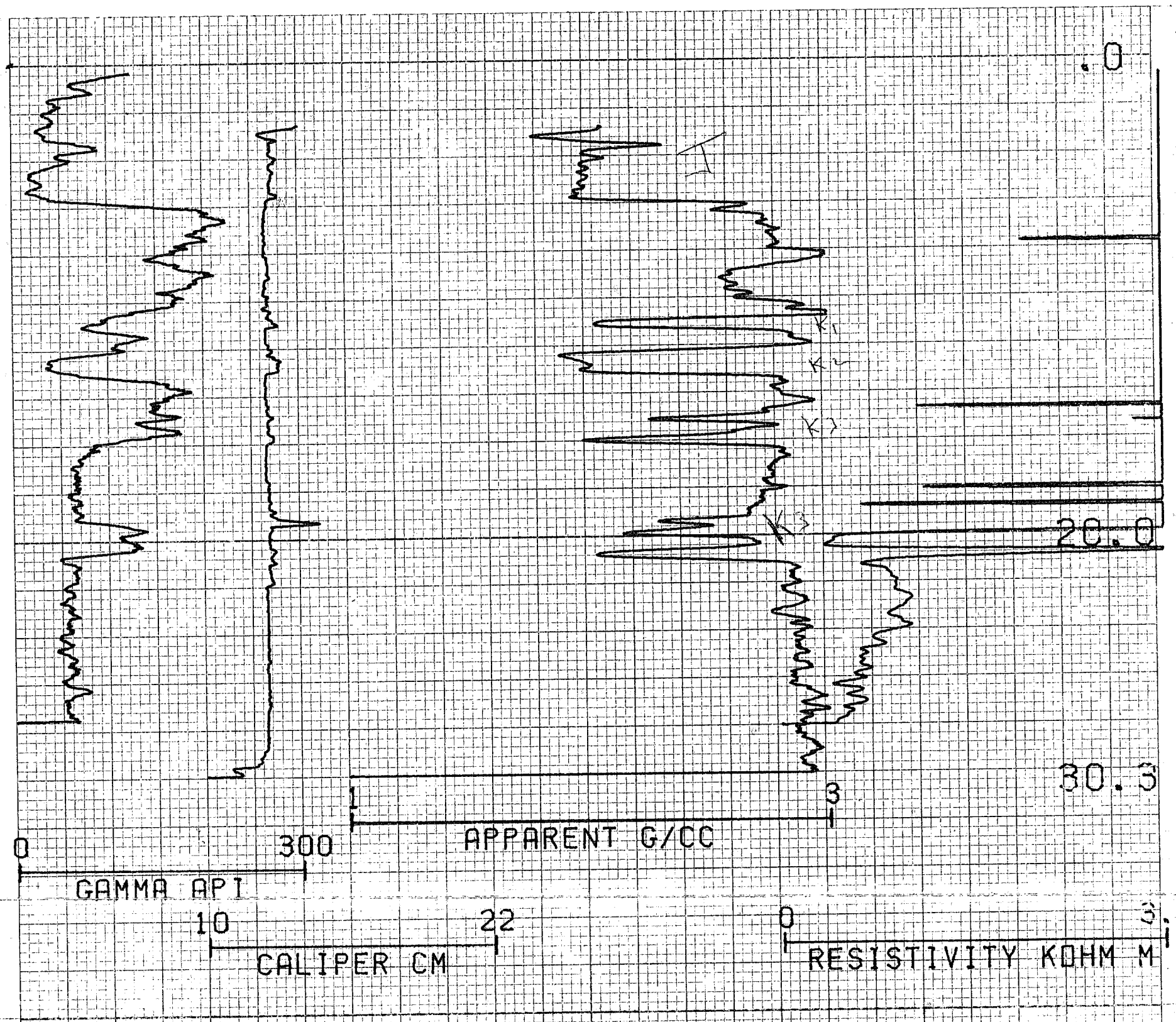
PR- Quintette 84(3)A

618

COMPU-LOG V8L2 PLOT 07-26-84

QHR-84003
GAMMA DENSITY
HERMANN (SKI SHACKS) SYNCLINE

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2*A TRUCK # L366
R. ZEMENCHIK APPL.#1030L1



COMPU-LOG V8L2 PLOT 07-26-84

618

QHR-84004

GAMMA DENSITY

HERMANN (SKI SHACKS)

Syncline

HOLE DIAMETER : 13.0

PROBE # 9030A1- 418

SENSOR #4 CAL STD CPS = 6588

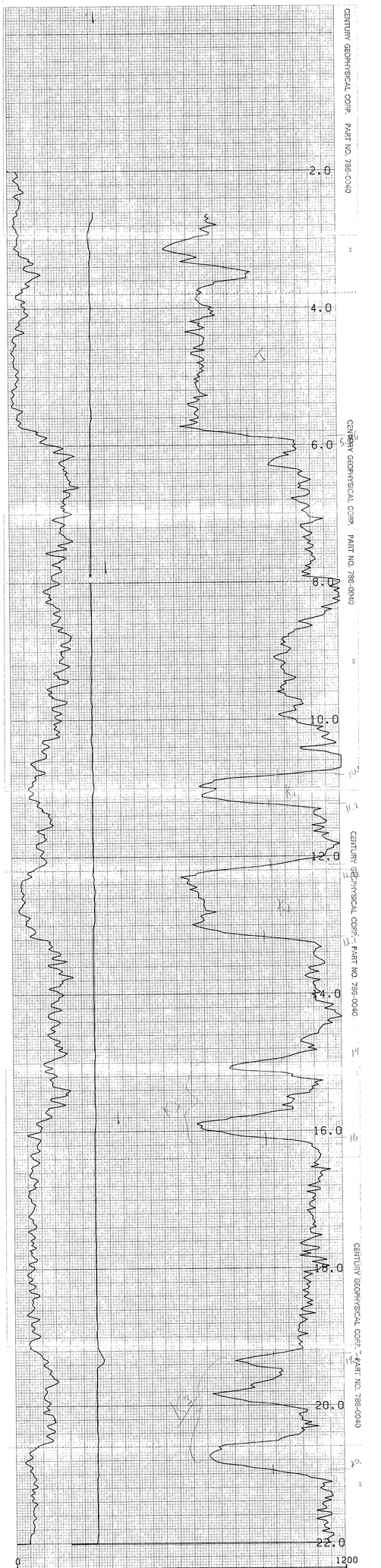
SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1030L1

PR- Quintette 84(3)A



618

COMPU-LOG V8L2 PLOT 07-26-84

QHR-84004

GAMMA DENSITY - DETAIL

HERMANN (SKI SHACKS)

SYNCLINE

HOLE DIAMETER : 13.0

PROBE # 9050A1- 418

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = -24

DATA V8L2#A TRUCK # L366

R. ZEMENCHIK APPL.#1708L1

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : GAMMA NEUTRON

HOLE ID : QHR-84006

LOCATION : HERMANN (SKI SHACKS)

DATE OF LOG : 07-26-84

DATA FROM : V8L2*A

PROBE : 9055A.0039

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	2.00	1.99	.00	.01	.01	79.9	.4	79.7
	4.00	3.99	.00	.03	.03	79.8	.4	79.7
	6.00	5.99	.01	.04	.04	73.6	.4	60.5
	8.00	7.99	.03	.05	.05	59.0	.5	23.7
	10.00	9.99	.04	.06	.08	58.0	.6	55.3
	12.00	11.99	.05	.08	.10	55.9	.5	47.2
	14.00	13.99	.07	.08	.11	47.9	.5	356.0
	16.00	15.99	.07	.07	.10	45.6	.1	269.5
	18.00	17.99	.07	.07	.10	44.9	.0	254.9
	20.00	19.99	.08	.08	.11	45.3	.3	48.7
	22.00	21.94	.10	.07	.12	35.4	.7	339.9
	24.00	23.93	.11	.06	.13	28.2	.4	314.9
	26.00	25.99	.09	.04	.10	25.2	.6	221.3
	28.00	27.99	.09	.02	.09	16.7	.5	249.1
	30.00	29.99	.09	.02	.10	14.0	.1	333.3
	32.00	31.99	.10	.01	.11	10.3	.3	339.4
	34.00	33.99	.11	.00	.11	2.9	.4	302.6
	36.00	35.99	.12	-.01	.12	353.6	.5	278.1
	38.00	37.99	.11	-.03	.11	342.0	.7	251.1
	40.00	39.99	.10	-.04	.11	336.1	.3	237.0
	42.00	41.99	.10	-.05	.11	333.8	.1	251.2
	44.00	43.99	.10	-.04	.11	335.3	.0	58.7
	46.00	46.03	.10	-.05	.11	333.0	.1	231.4
	48.00	48.07	.10	-.07	.13	326.9	.5	285.9
	50.00	49.99	.11	-.09	.15	319.9	.8	283.9
TD	50.40	50.39	.11	-.10	.15	318.0	1.1	274.8

618

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * * VERTICAL DEVIATION * * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : GAMMA NEUTRON

HOLE ID : QHR-84007

LOCATION : HERMANN (SKI SHACKS)

DATE OF LOG : 07-26-84

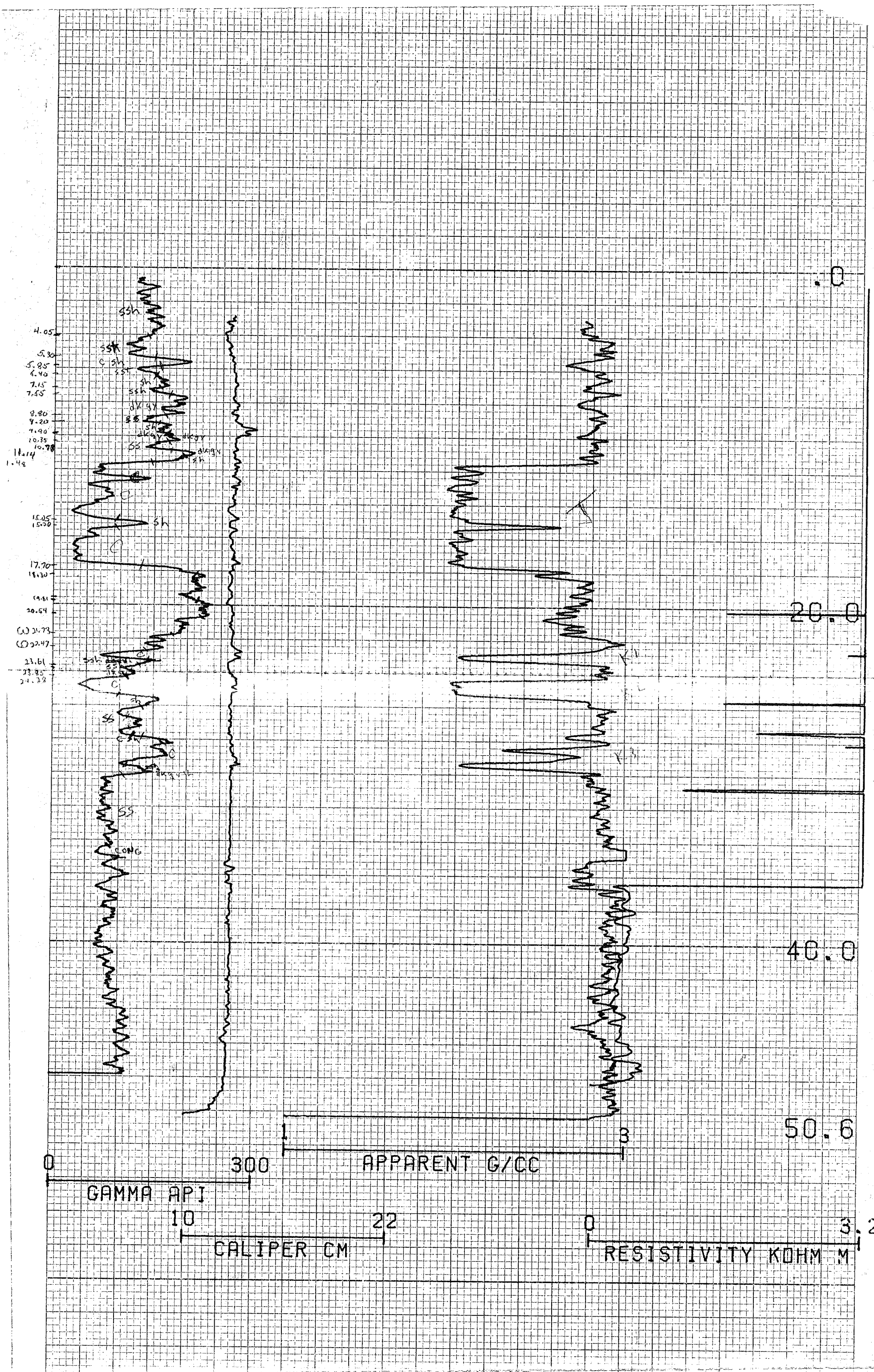
DATA FROM : V8L2*A

PROBE : 9055A 0039

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	2.00	1.99	-.01	-.02	.03	236.6	.8	236.5
	4.00	3.99	-.03	-.04	.05	235.0	.6	232.9
	6.00	5.99	-.03	-.04	.05	228.7	.1	137.0
	8.00	7.99	-.03	-.01	.03	202.6	.7	88.4
	10.00	9.99	-.03	.01	.03	156.1	.8	89.8
	12.00	11.99	-.04	.03	.05	140.4	.5	107.2
	14.00	13.99	-.04	.04	.06	133.0	.3	99.4
	16.00	15.99	-.06	.06	.08	134.4	.6	138.2
	18.00	17.99	-.08	.07	.11	137.7	.8	147.8
	20.00	19.99	-.11	.08	.14	141.9	.8	157.5
	22.00	21.99	-.13	.10	.16	143.1	.7	149.5
	24.00	23.99	-.15	.11	.18	143.7	.4	150.0
	26.00	25.99	-.18	.12	.22	146.2	1.0	159.0
	28.00	27.99	-.21	.14	.26	147.1	1.1	152.1
	30.00	29.99	-.25	.15	.29	149.2	1.0	163.6
	32.00	31.99	-.29	.15	.33	151.6	1.1	170.4
	34.00	33.99	-.32	.15	.36	154.2	1.0	179.7
	36.00	35.99	-.36	.16	.39	155.6	1.0	170.6
	38.00	37.99	-.39	.17	.42	155.7	.6	157.4
	40.00	39.99	-.41	.17	.44	157.2	.8	179.7
	42.00	41.99	-.44	.17	.47	158.6	.9	179.5
	44.00	43.99	-.47	.17	.50	160.2	1.0	181.5
	46.00	45.99	-.51	.17	.54	160.9	.9	171.4
	48.00	47.99	-.55	.17	.57	162.2	1.1	181.2
	50.00	49.99	-.59	.17	.61	163.6	1.2	182.7
	52.00	51.99	-.64	.17	.66	164.5	1.3	175.7
	54.00	53.99	-.69	.18	.72	164.9	1.5	170.4
	56.00	55.99	-.75	.19	.77	165.7	1.6	175.3
	58.00	57.99	-.80	.19	.83	166.2	1.5	173.7
TD	59.60	59.58	-.85	.20	.88	166.8	1.8	175.6

618



COMPU-LOG V8L2 PLOT 07-26-84

QHR-84006

GAMMA DENSITY

HERMANN (SKI SHACKS)

HOLE DIAMETER : 13.0

PROBE # 9030A1- 418

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1030L1

618

Syncline

PR-Quintette 84(3)A

CENTURY GEOPHY

618

COMPU-LOG V8L2 PLOT 07-26-84

QHR-84006
GAMMA DENSITY - DETAIL
HERMANN (SKI SHACKS)
Syncline

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2*A TRUCK # L366
R. ZEMENCHIK APPL.#1708L1

SEAM PICK

PR- Quintette 84(3)A

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * * VERTICAL DEVIATION * * * * * * * * *

COMPU-LOG VSLI DEVIATION

CLIENT : GAMMA NEUTRON

HOLE ID : OHR-84009

LOCATION : HERMANN (SKI SHACKS)

DATE OF LOG : 07-26-84

DATA FROM : VSL2*A

PROBE : 9055A 0039

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	2.00	1.99	.01	-.01	.01	322.8	.5	322.8
	4.00	3.99	.02	-.02	.03	324.1	.5	325.3
	6.00	5.99	.05	-.02	.06	339.0	.8	358.9
	8.00	7.99	.09	-.03	.10	339.7	1.1	340.7
	10.00	9.99	.14	-.05	.15	337.5	1.4	332.9
	12.00	11.99	.16	-.07	.18	337.0	.8	334.2
	14.00	13.99	.20	-.07	.21	339.0	1.0	349.7
	16.00	15.99	.24	-.07	.25	342.3	1.2	358.6
	18.00	17.99	.30	-.07	.30	346.4	1.6	5.7
	20.00	19.99	.34	-.06	.35	349.2	1.3	7.0
	22.00	21.99	.39	-.06	.39	351.6	1.2	8.1
	24.00	23.99	.44	-.05	.44	352.8	1.4	5.0
	26.00	25.99	.49	-.05	.49	353.9	1.3	2.4
	28.00	27.99	.53	-.05	.54	354.3	1.3	.1
	30.00	29.99	.58	-.05	.59	355.1	1.4	3.6
	32.00	31.99	.63	-.03	.63	356.5	1.4	13.3
	34.00	33.99	.68	-.02	.68	358.3	1.4	20.4
	36.00	35.99	.73	-.01	.73	359.2	1.4	18.7
	38.00	37.99	.79	.00	.79	.2	1.6	14.5
	40.00	39.98	.84	.02	.84	1.5	1.7	17.7
	42.00	41.98	.90	.05	.90	3.3	1.7	29.9
	44.00	44.02	.96	.08	.96	5.3	2.0	30.7
	46.00	46.07	1.03	.13	1.04	7.3	2.3	31.4
TD	47.50	47.48	1.08	.16	1.10	8.8	2.6	34.4

618

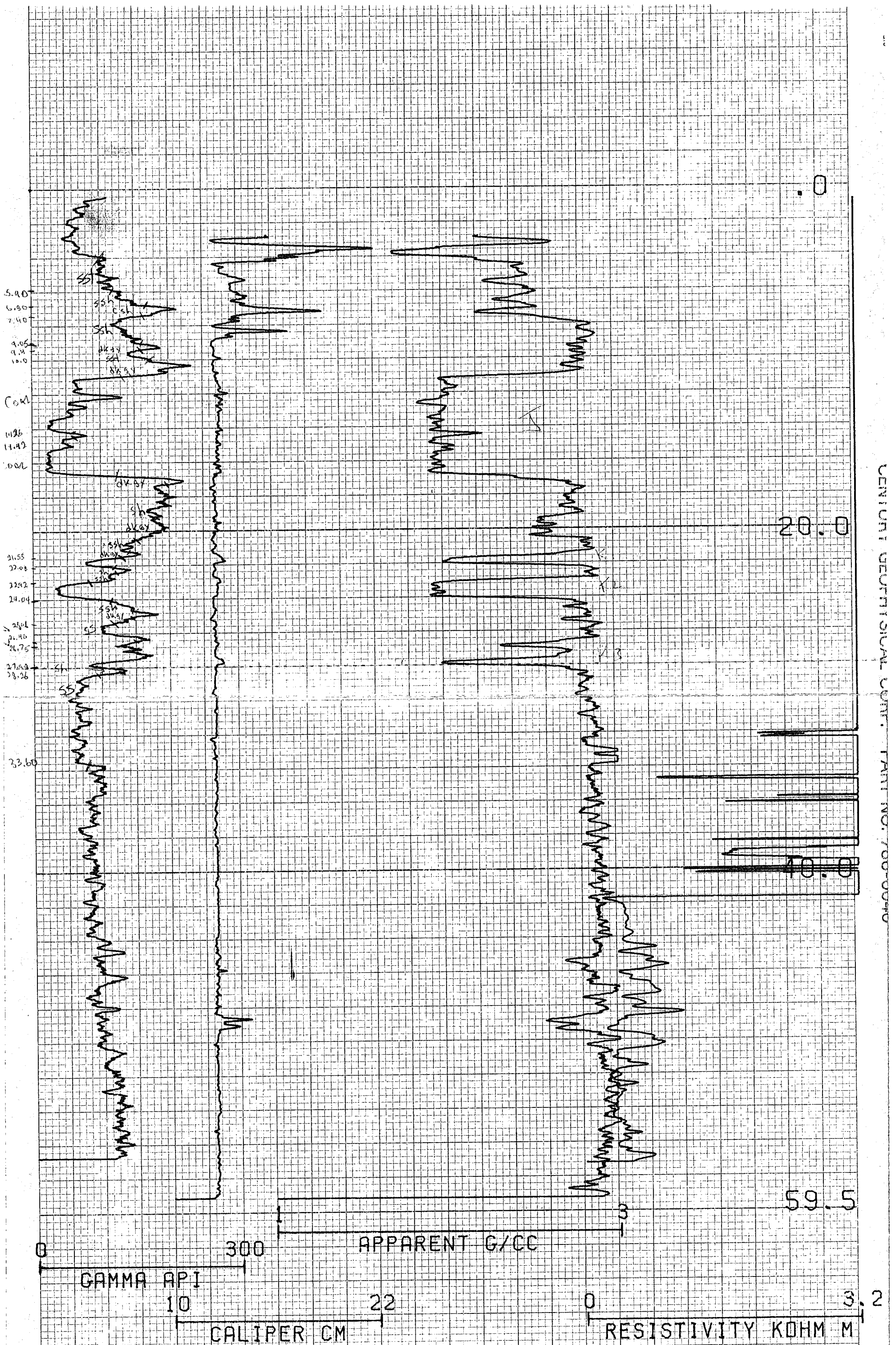
COMPU-LOG V8L2 PLOT 07-26-84

QHR-84007
GAMMA DENSITY - DETAIL
HERMANN (SKI SHACKS) Syncline

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2*A TRUCK # L366
R. ZEMENCHIK APPL.#1708L1

PR-Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO.



COMPU-LOG V8L2 PLOT 07-26-84

QHR-84007

618

GAMMA DENSITY

HERMANN (SKI SHACKS)

Syncline

HOLE DIAMETER : 13.0

PROBE # 9030A1- 418

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1030L1

PR- Quintette 84(3) A

CENTURY GEOPHYSICAL CORP. TULSA, OKLA.

VERTICAL DEVIATION

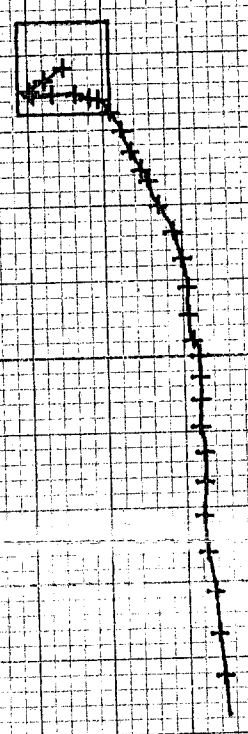
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON
LOCATION : HERMANN (SKI SHACKS)
HOLE ID : QHR-84007
DATE OF LOG : 07-26-84
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 59.6 M
AZIMUTH: 166.8
DISTANCE: .88 M

+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

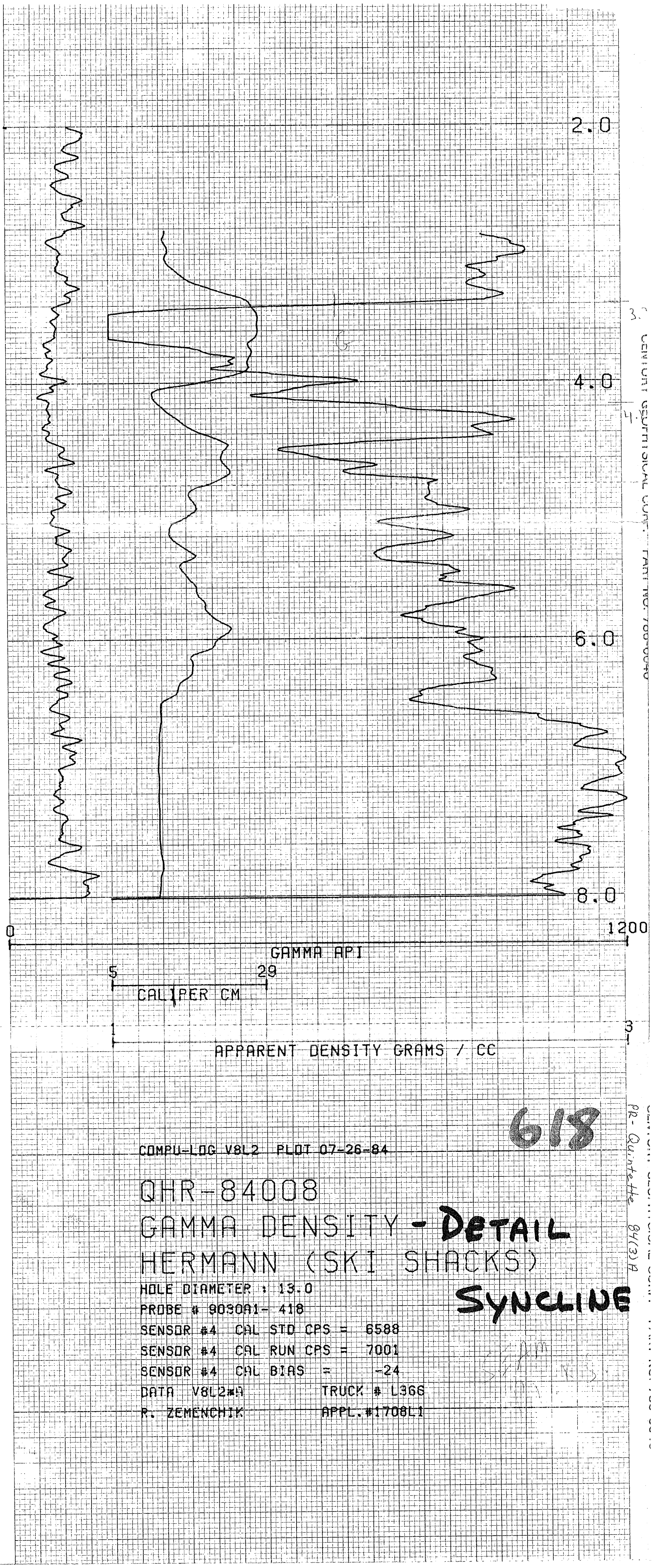
TRUE NORTH ↑

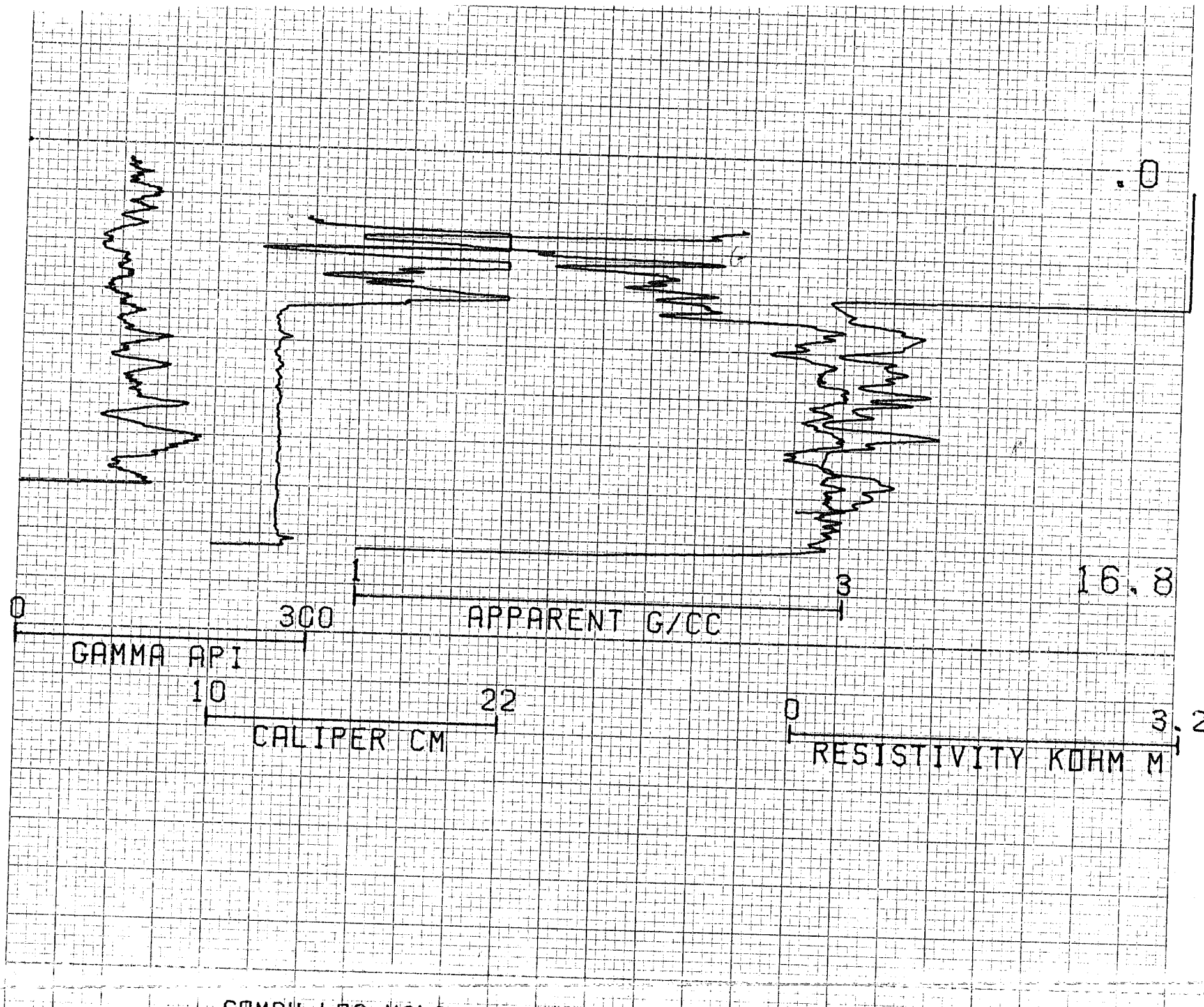


PR - Quintette 84(3) 19

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

618


2.0
4.0
6.0
8.0
0
1200
GAMMA API
5
29
CALIPER CM
1
3
APPARENT DENSITY GRAMS / CC
COMPU-LOG V8L2 PLOT 07-26-84
QHR-84008
GAMMA DENSITY - DETAIL
HERMANN (SKI SHACKS)
HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2#4 TRUCK # L366
R. ZEMENCHIK APPL.#1708L1
SYNCLINE
618



COMPU-LOG V8L2 PLOT 07-26-84

QHR-84008
GAMMA DENSITY
HERMANN (SKI SHACKS)

618

Syncline

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2*A TRUCK # L366
R. ZEMENCHIK APPL.#1030L1

CENTURY GEOPHYSICAL CORP.

PART NO. 786-0040

PR- Quintette 84(3) A

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG VSL1 DEVIATION

CLIENT : GAMMA NEUTRON

HOLE ID : QHR-84010

LOCATION : HERMANN (SKI SHACKS)

DATE OF LOG : 07-26-84

DATA FROM : VSL2*A

PROBE : 9055A 0039

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	2.00	1.99	.02	.02	.03	41.4	.0	41.3
	4.00	3.99	.04	.03	.05	39.6	.7	37.5
	6.00	5.99	.06	.02	.06	24.1	.5	326.6
	8.00	7.99	.07	.02	.08	16.9	.5	350.6
	10.00	9.99	.10	.00	.10	4.1	.0	324.0
	12.00	11.99	.10	.00	.10	3.7	.1	357.3
	14.00	13.99	.12	.00	.12	4.5	.5	8.9
	16.00	15.99	.13	.01	.13	5.6	.3	17.3
	18.00	17.99	.16	.01	.16	4.5	.0	359.1
	20.00	19.99	.18	.00	.18	2.4	.4	338.5
	22.00	21.99	.19	.00	.19	1.2	.3	344.9
	24.00	23.99	.20	.01	.20	3.3	.3	43.4
	26.00	25.99	.21	.00	.21	.4	.5	328.9
	28.00	27.99	.23	-.01	.23	355.1	.7	300.6
	30.00	29.99	.24	-.03	.24	352.9	.5	324.6
	32.00	31.99	.26	-.04	.26	350.5	.5	319.3
	34.00	33.99	.27	-.04	.27	351.6	.3	15.5
	36.00	35.99	.29	-.04	.30	350.8	.6	341.6
	38.00	37.99	.31	-.05	.32	349.8	.6	335.7
	40.00	39.99	.33	-.08	.34	346.3	.0	301.5
	42.00	41.99	.34	-.09	.35	344.6	.5	310.5
	44.00	43.99	.34	-.10	.36	343.3	.2	284.5
	46.00	45.99	.35	-.12	.37	340.6	.5	280.6
	48.00	47.99	.36	-.17	.40	334.8	1.4	285.5
	50.00	49.99	.34	-.17	.38	332.4	.6	201.4
	52.00	51.99	.34	-.19	.39	330.3	.4	273.0
	54.00	53.99	.34	-.21	.40	328.1	.5	276.2
	56.00	55.99	.35	-.23	.42	327.1	.5	304.2
	58.00	57.99	.36	-.25	.44	325.3	.6	292.9
TD	59.80	59.79	.37	-.28	.46	322.9	.9	285.5

618

618

COMPU-LOG V8L2 PLOT 07-26-84

QHR-84009
GAMMA DENSITY - DETAIL
HERMANN (SKI SHACKS)
SYNCLINE

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2*A TRUCK # L366
R. ZEMENCHIK APPL.#1708L1

SEAM PICKS

PR-Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO.

VERTICAL DEVIATION

618

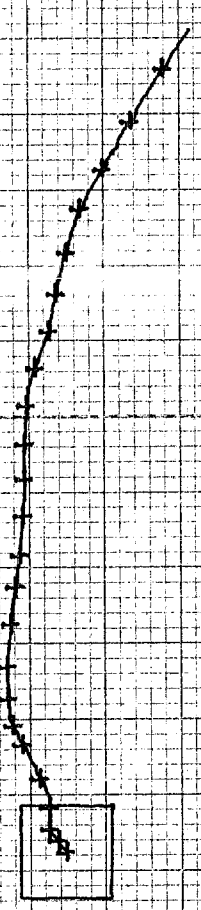
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON
LOCATION : HERMANN (SKI SHACKS)
HOLE ID : QHR-84009
DATE OF LOG : 07-26-84
PROBE : 9055A 0039

SCALE: .10 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 47.5 M
AZIMUTH: 8.8
DISTANCE: 1.10 M

+ = 2.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

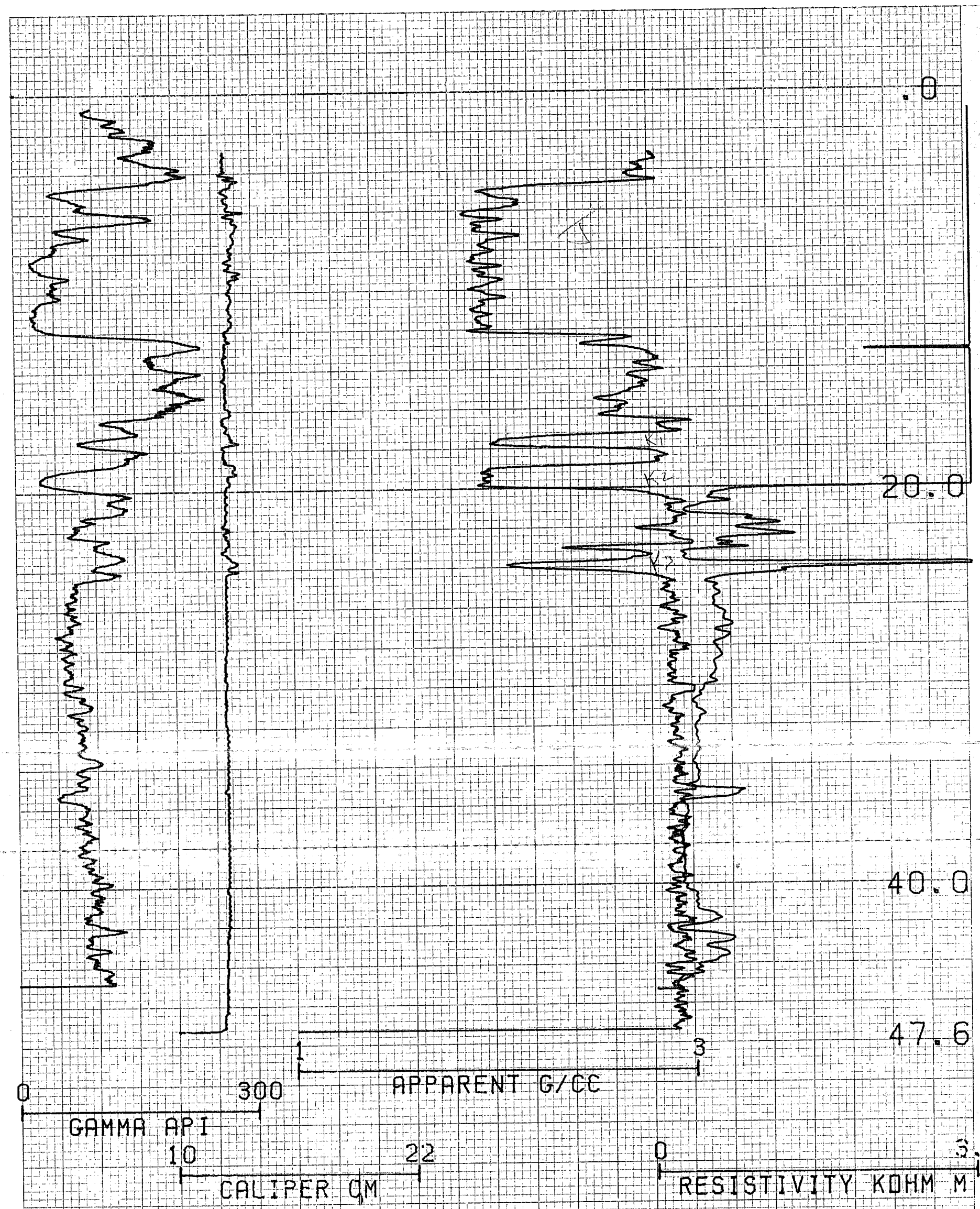
TRUE NORTH ↑



PR-Quintette 84(3) A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

310



COMPU-LOG V8L2 PLOT 07-26-84

618

QHR-84009

GAMMA DENSITY

HERMANN (SKI SHACKS)

SYNCLINE

HOLE DIAMETER : 13.0

PROBE # 903CA1- 418

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1030L1

PR- Quintette 84(3)A

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : VERTICAL DEVIATION HOLE ID : QHR-84011

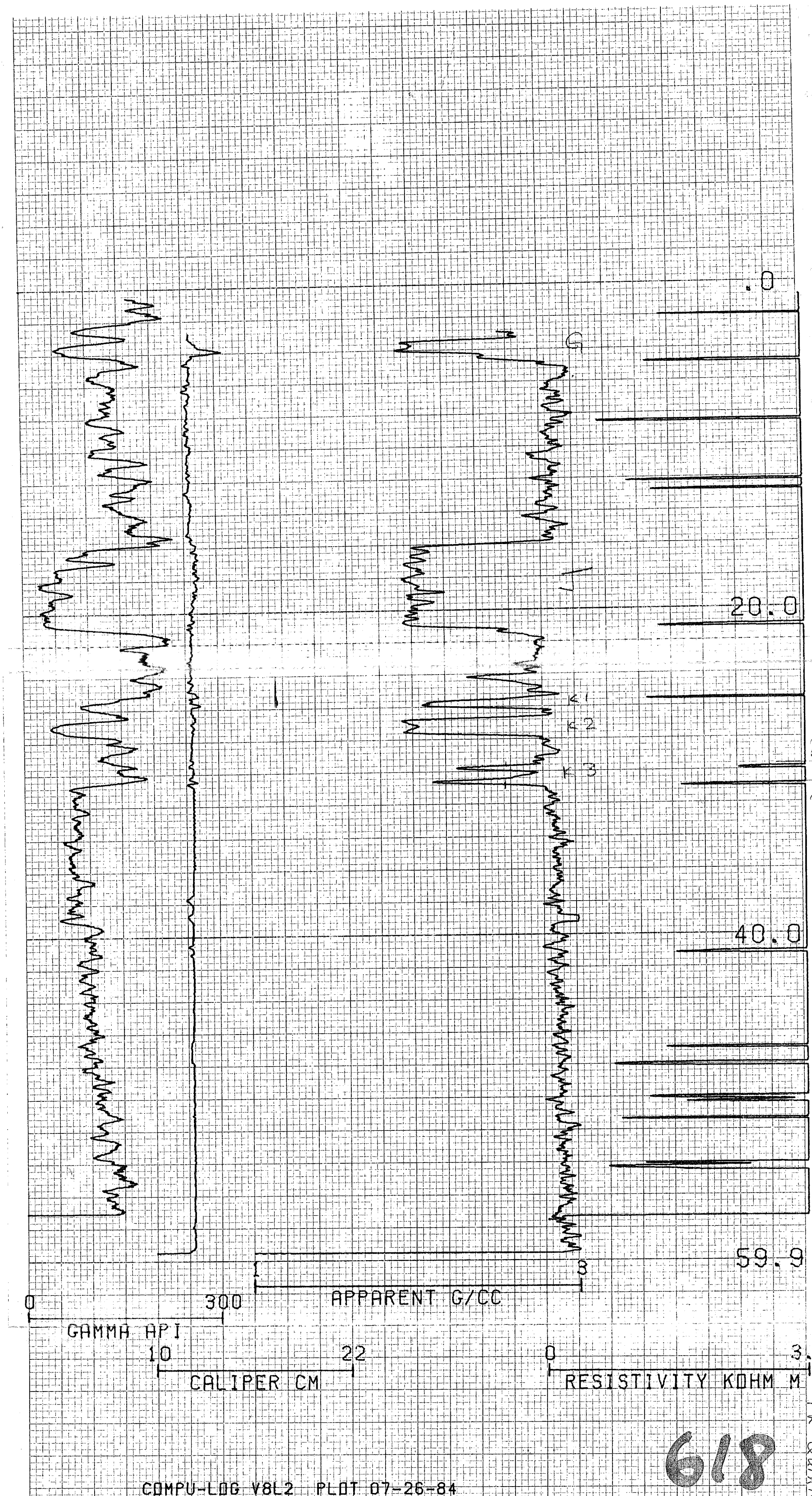
LOCATION : HERMANN (SKI SHACKS) DATE OF LOG : 07-26-84

DATA FROM : V8L2*A PROBE : 9055A 0039

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	5.00	4.99	-.01	-.06	.06	259.1	.7	259.0
	10.00	9.99	-.00	-.08	.08	263.7	.2	276.5
	15.00	14.99	.03	-.12	.12	286.4	.6	318.9
	20.00	19.99	.11	-.19	.23	300.0	1.2	315.5
	25.00	24.99	.20	-.30	.37	303.5	1.6	309.1
	30.00	29.99	.31	-.45	.55	304.7	2.1	307.2
	35.00	34.98	.38	-.53	.66	305.5	1.2	309.3
	40.00	39.98	.51	-.61	.80	310.0	1.7	329.9
	45.00	44.98	.60	-.70	.92	310.5	1.4	313.7
	50.00	49.98	.66	-.82	1.06	309.2	1.5	299.9
	55.00	54.98	.72	-.94	1.18	307.3	1.5	292.4
	60.00	59.97	.83	-1.04	1.33	308.6	1.6	319.2
	65.00	64.97	.94	-1.13	1.48	309.7	1.7	319.4
TD	66.90	66.87	.99	-1.17	1.53	310.1	1.6	320.3

618



COMPU-LOG V8L2 PLOT 07-26-84

QHR-84010
GAMMA DENSITY
HERMANN (SKI SHACKS)

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V8L2*A TRUCK # L366
R. ZEMENCHIK APPL.#1030L1

SYNCLINE

618

PR- Quintette 84(3) A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

618

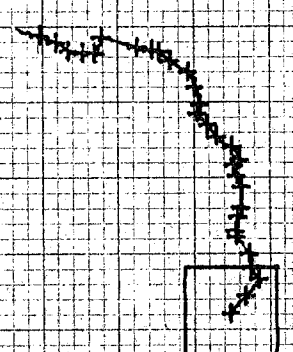
PR - Quintette 84(3) A

CLIENT : GAMMA NEUTRON
LOCATION : HERMANN (SKI SHACKS)
HOLE ID : QHR-84010
DATE OF LOG : 07-26-84
PROBE : 9055A 0039

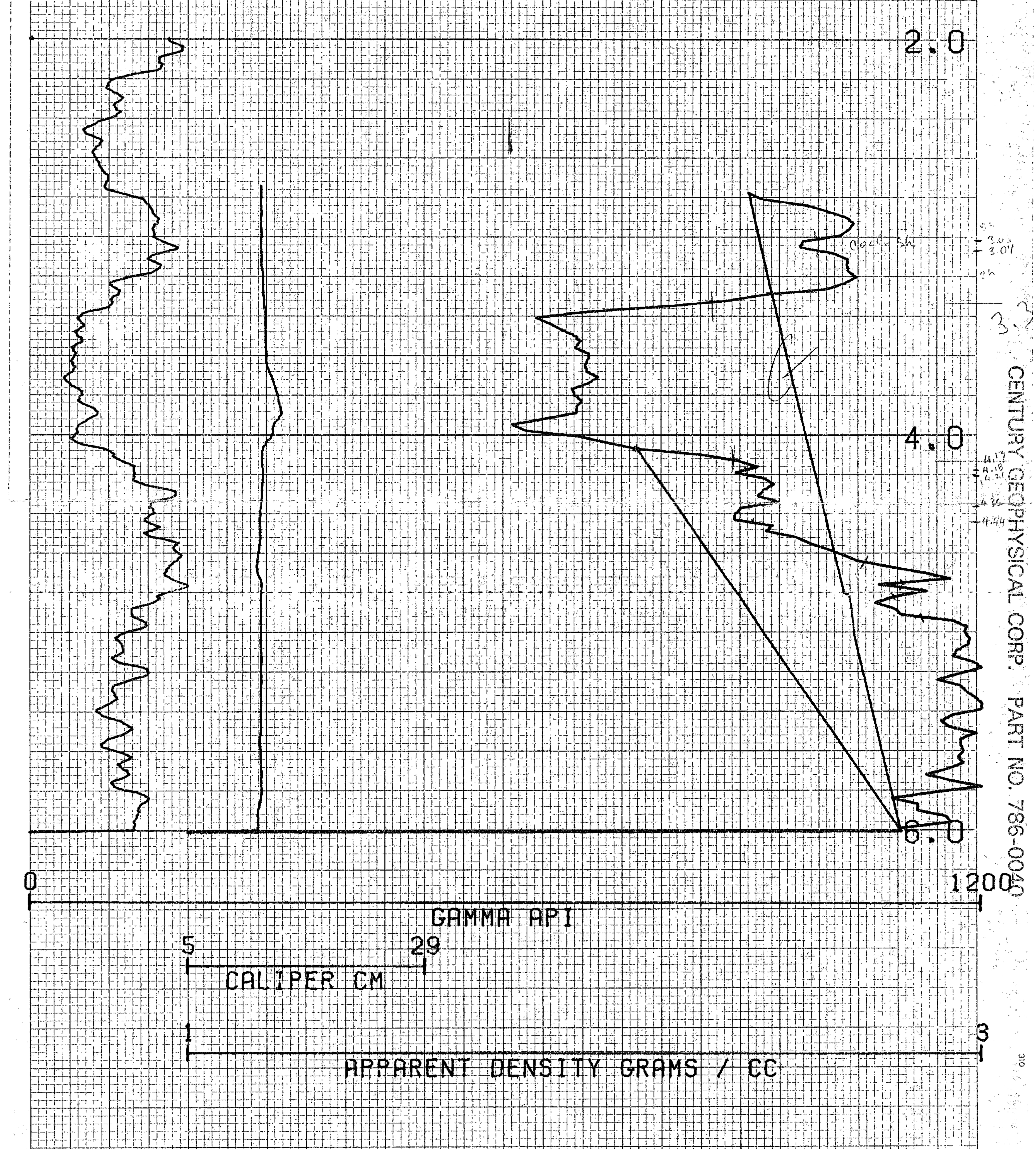
SCALE: .10 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 59.8 M
AZIMUTH: 322.9
DISTANCE: .46 M

+ = 2.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP.



618

PR - Quintette 84(3)A

< PLOT 07-26-84

QHR-84010

GAMMA DENSITY - DETAIL

HERMANN (SKI SHACKS)

SYNCLINE

HOLE DIAMETER : 13.0
PROBE # 9030A1- 418
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = -24
DATA V6L2#A TRUCK # L966
R. ZEMENCHIK APPL.#170811

CENTURY GEOPHYS

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : VERTICAL DEVIATION

HOLE ID : QHR-84011

LOCATION : HERMANN (SKI SHACKS)

DATE OF LOG : 07-26-84

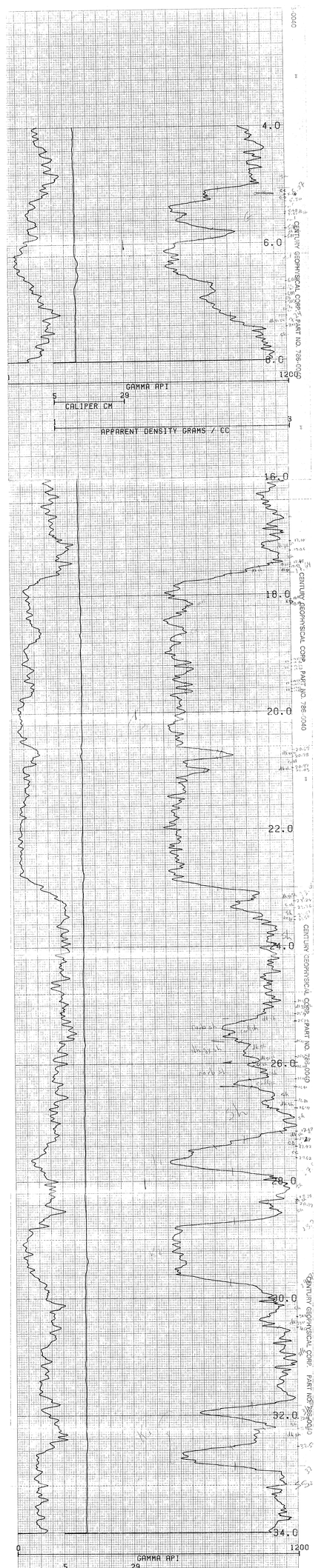
DATA FROM : V8L2*A

PROBE : 9055A 0039

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	5.00	4.99	-.01	-.06	.06	259.1	.7	259.0
	10.00	9.99	-.00	-.08	.08	263.7	.2	276.5
	15.00	14.99	.03	-.12	.12	286.4	.6	318.9
	20.00	19.99	.11	-.19	.23	300.0	1.2	315.5
	25.00	24.99	.20	-.30	.37	303.5	1.6	309.1
	30.00	29.99	.31	-.45	.55	304.7	2.1	307.2
	35.00	34.98	.38	-.53	.66	305.5	1.2	309.3
	40.00	39.98	.51	-.61	.80	310.0	1.7	329.9
	45.00	44.98	.60	-.70	.92	310.5	1.4	313.7
	50.00	49.98	.66	-.82	1.06	309.2	1.5	299.9
	55.00	54.98	.72	-.94	1.18	307.3	1.5	292.4
	60.00	59.97	.83	-1.04	1.33	308.6	1.6	319.2
	65.00	64.97	.94	-1.13	1.48	309.7	1.7	319.4
TD	66.90	66.87	.99	-1.17	1.53	310.1	1.6	320.3

618



COMPU-LOG V8L2 PLOT 07-26-84

618

QHR-84011

GAMMA DENSITY-DETAIL

HERMANN (SKI SHACKS)

SYNCLINE

HOLE DIAMETER = 13.0

PROBE # 9050R1- 410

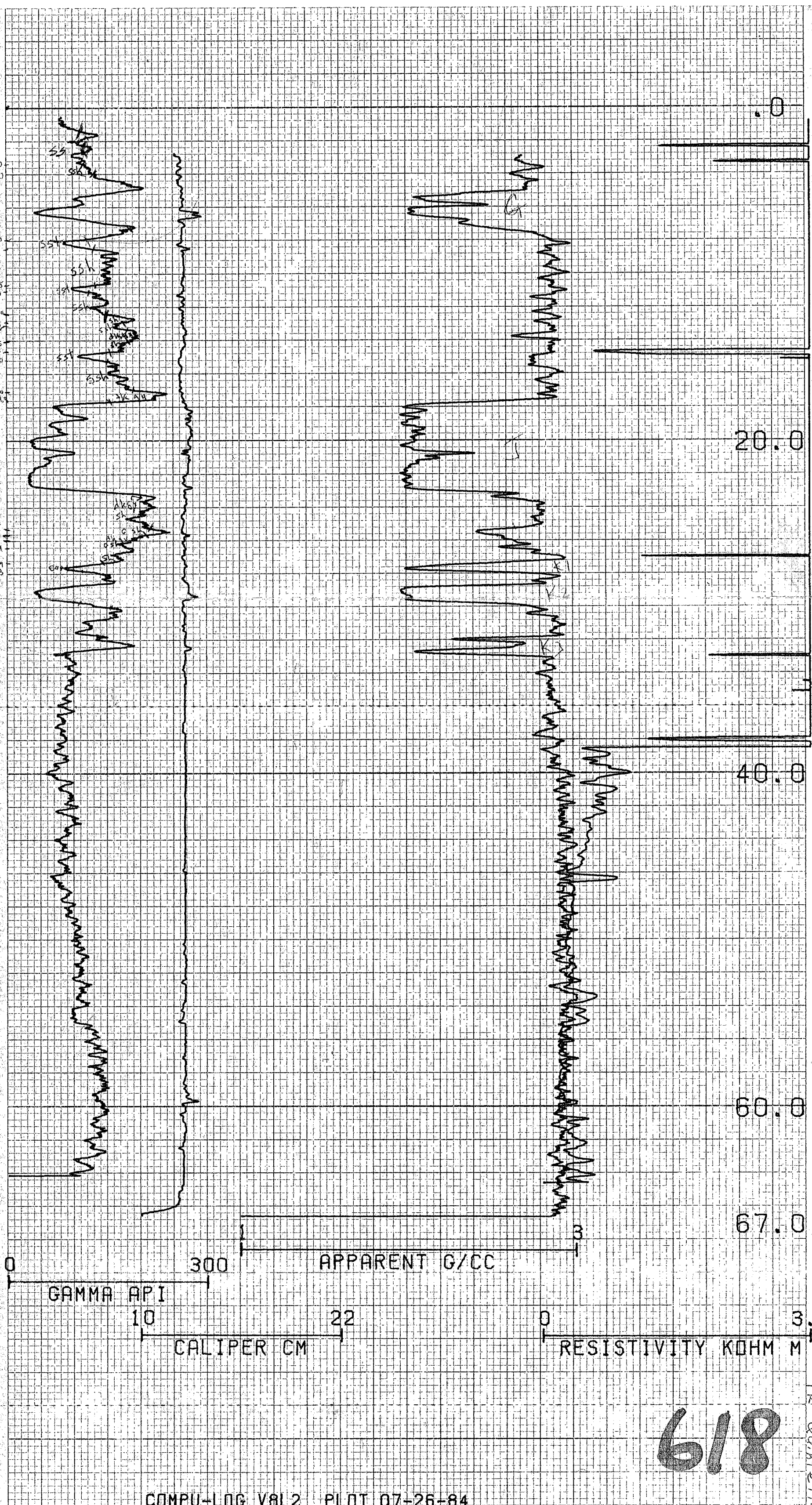
SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CA BIAS = -24

DATA V8L2WA TRUCK # L368

R. ZEMENCHIK APPL.#170811



618

COMPU-LOG V8L2 PLOT 07-26-84

QHR-84011

GAMMA DENSITY

HERMANN (SKI SHACKS)

SYNCLINE

HOLE DIAMETER : 13.0

PROBE # 9030A1- 418

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1030L1

PR- Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CO

7L DEVIATION

618

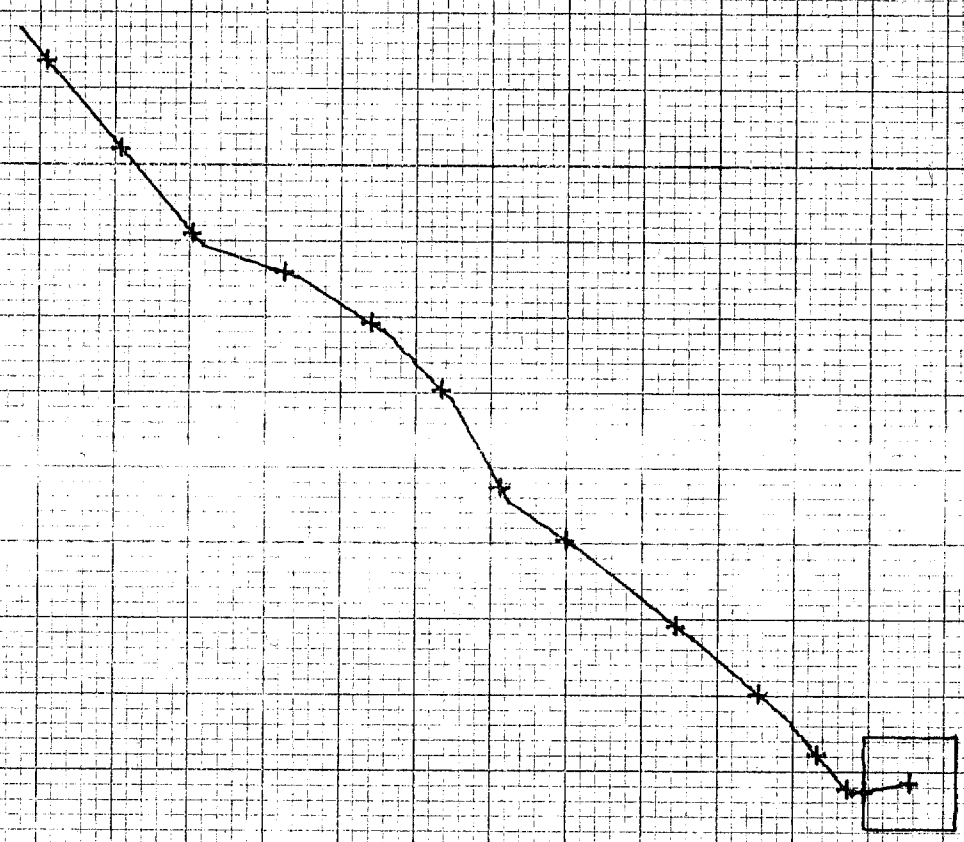
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : VERTICAL DEVIATION
LOCATION : HERMANN (SKI SHACKS)
HOLE ID : QHR-84011
DATE OF LOG : 07-26-84
PROBE : 9055A 0039

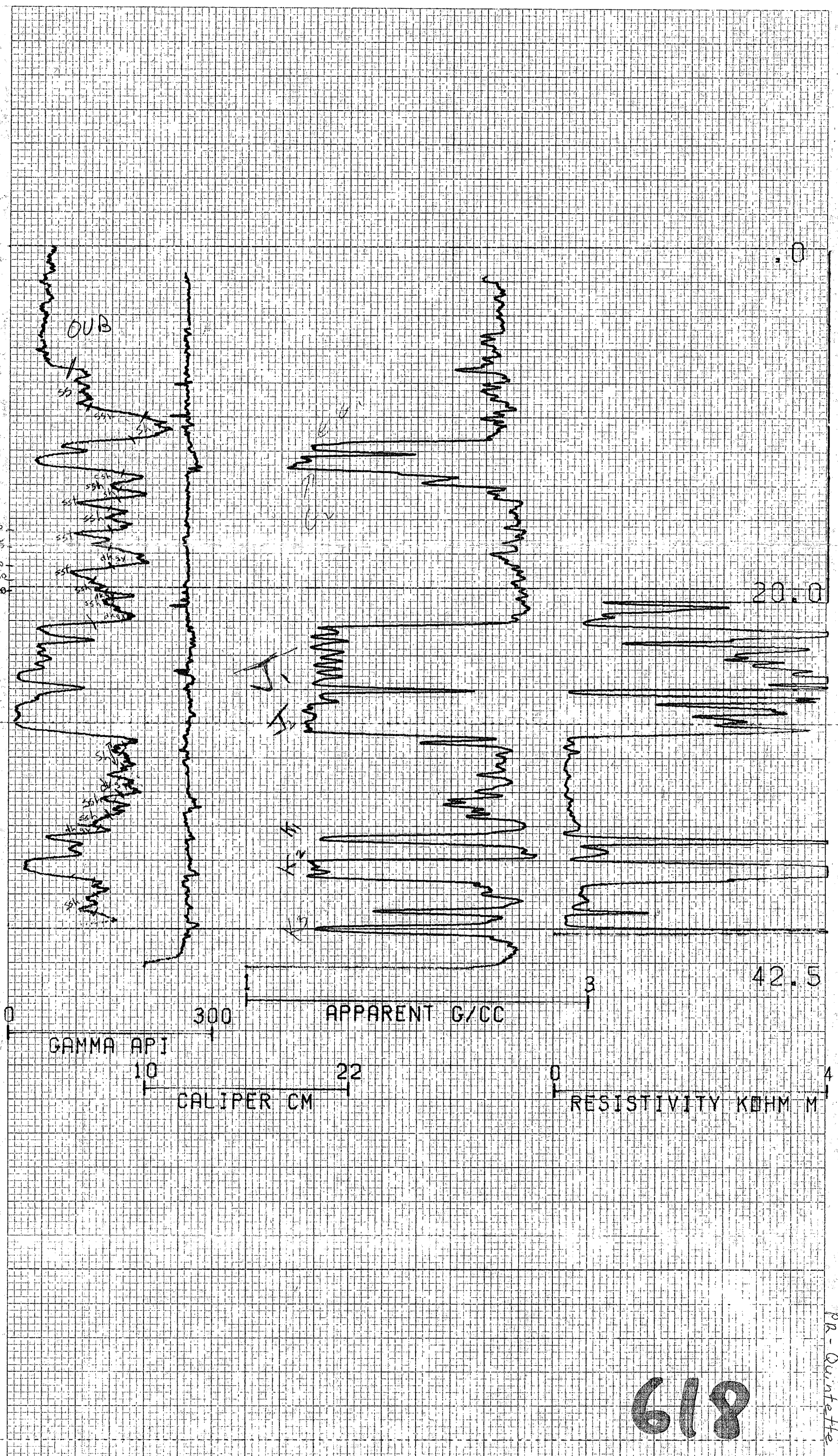
SCALE: .10 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 66.9 M
AZIMUTH: 310.1
DISTANCE: 1.53 M

+ = 5.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



618

COMPU-LOG V8L2 PLOT 08-08-84

QHR-84026

GAMMA-DENS-CAL-RES

HERMANN SYNCLINE

HOLE DIAMETER : 13.0

PROBE # 9030A1- 420

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

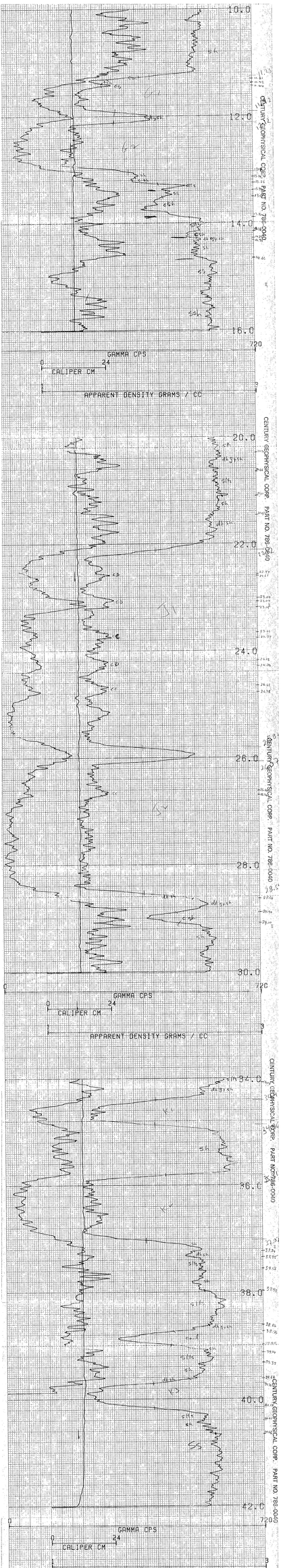
SENSOR #4 CAL BIAS = 31

DATA V8L2*A TRUCK # 365

R.THOMSON APPL.#30 L1

CENTURY GEOPHYSICAL CORP. PART NO. /86-0040

PR - Quintette 84(3)A



618

COMPU-LOG VAL2 PLOT 08-08-84

QHR-84026

GAMMA-DENS-CAL-RES-DETAIL

HERMANN SYNCLINE

HOLE DIAMETER : 13.0

PROBE # 9030A1- 420

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 7001

SENSOR #4 CAL BIAS = 91

DATA VBL2WR TRUCK # 365

R.THOMSON APPL.#170011

CENTURY GE

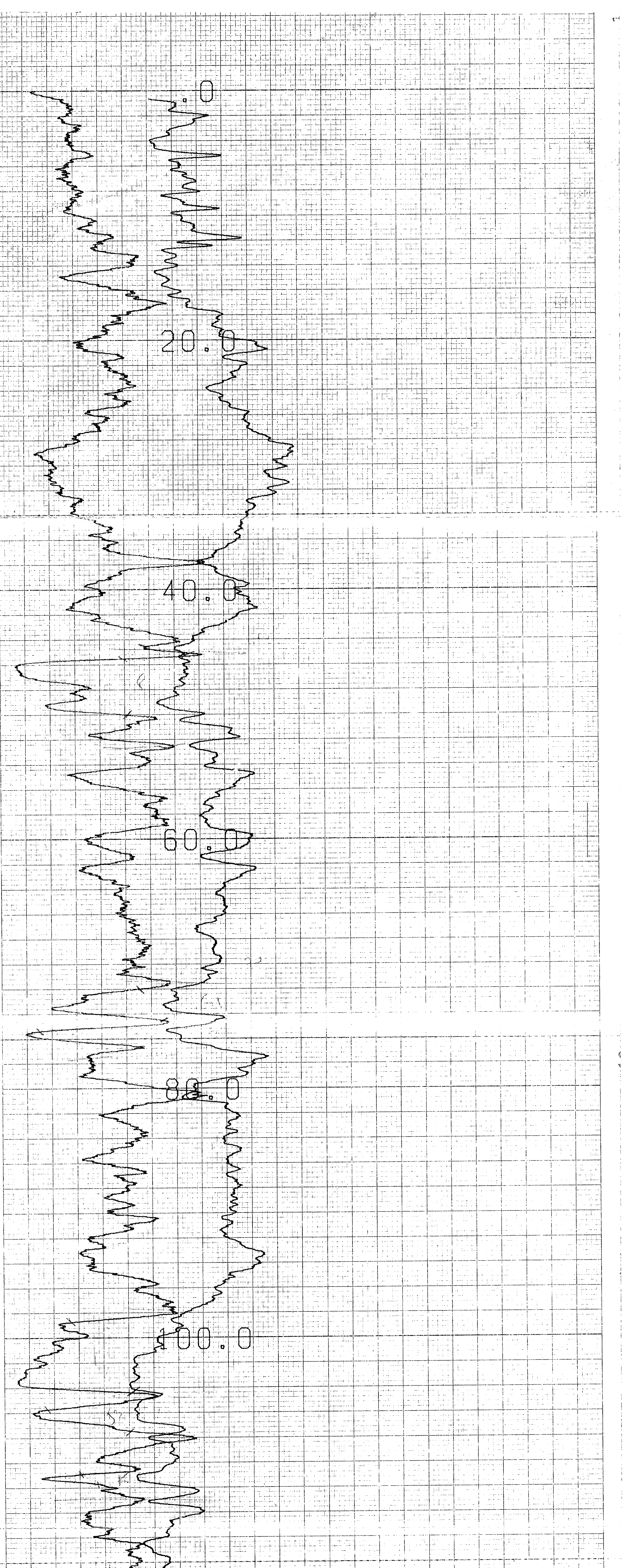
618

COMPU-LOG V8L2 PLOT 08-06-84

QHR-84017
GAMMA NEUTRON (RODS)
HERMANN SOUTH

DETAIL

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#1007L1



618

COMPU-LOG VBL2 PLOT 08-06-84

QHR-84017

GAMMA NEUTRON (RODS)

HERMANN SOUTH

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA VBL2*A TRUCK # L365
R. ZEMENCHIK APPL.#7 L1

PR-Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 11-14-84

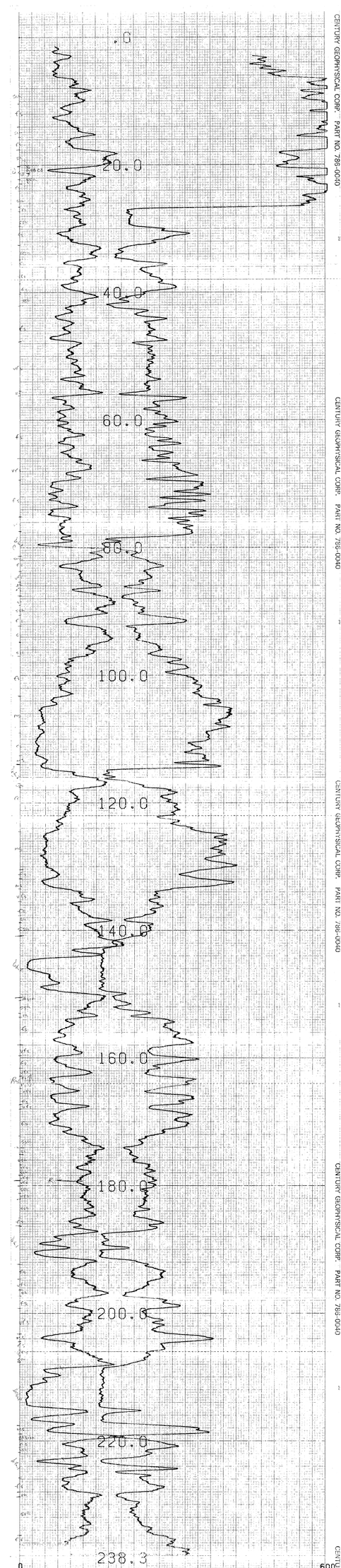
618

QHR-84018 Seam Picks

GAMMA DENSITY CALIPR - DETAIL

HERMANN SOUTH

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 4950
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # L366
D.MCNEIL APPL.#1708L1



COMPU-LOG V8L2 PLOT 11-12-84

618

QHR84018

GAMMA NEUTRON DEV'N

HERMANN SOUTH

HOLE DIAMETER = 13.0

PROBE # 9055A - 079

SENSOR #4 CAL STD CPS = 152

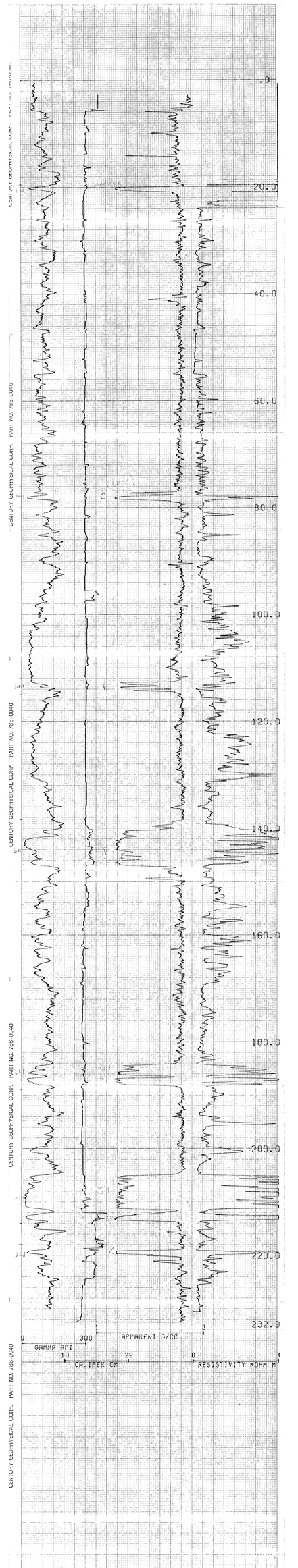
SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = 0

DATA V8L2WA TRUCK # L966

D.MCNEIL APPL.#? L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



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COMPU-LOG V8L2 PLOT 11-14-84

GHR-84018 BEAM IN

GAMMA DENSITY CALIPR

HERMANN SOUTH

HOLE DIAMETER = 13.0

PROBE # 9030H1-403

SENSOR #1 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 4950

SENSOR #4 CAL BIAS = 98

DATA V8L2WA TRUCK # L366

D.MCNEIL APPL.#30 L1

PR - Quintette 84(3) A

618

VERTICAL DEVIATION

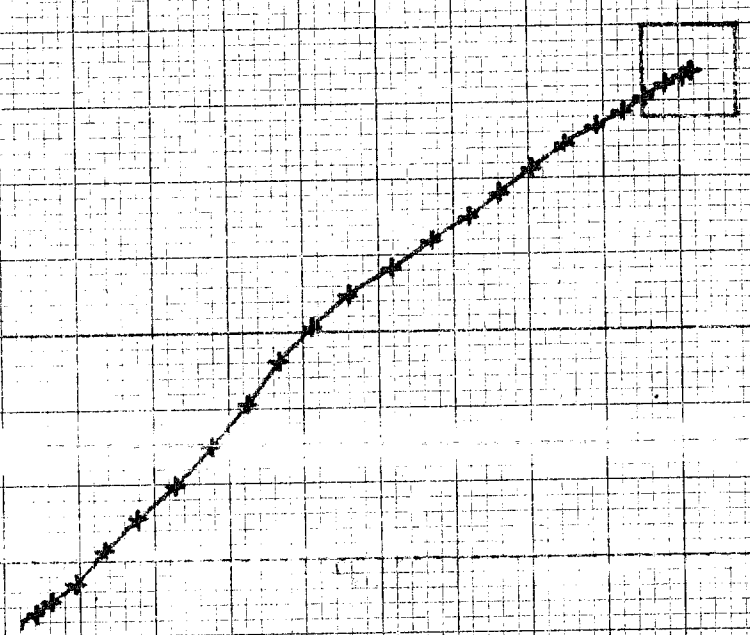
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON DEV'N
LOCATION : HERMANN SOUTH
HOLE ID : QHR84018
DATE OF LOG : 11-12-84
PROBE : 9055A 0079

SCALE: 1.50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 237.4 M
AZIMUTH: 230.8
DISTANCE: 17.07 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEO

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

618

COMPU-LOG V8L2 PLOT 11-14-84

QHR-84028

GAMMA DENSITY CALIPR

HERMANN SOUTH

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 4950
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 366
D.MCNEIL APPL.#30 L1

Pre-Quintette 84(3)A

COMPU-LOG V8L2 PLOT 11-14-84

QHR-84028

GAMMA DENSITY CALIPR

HERMANN SOUTH

DETAIL

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 4950
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # 366
D.MCNEIL APPL.#1708L1

618

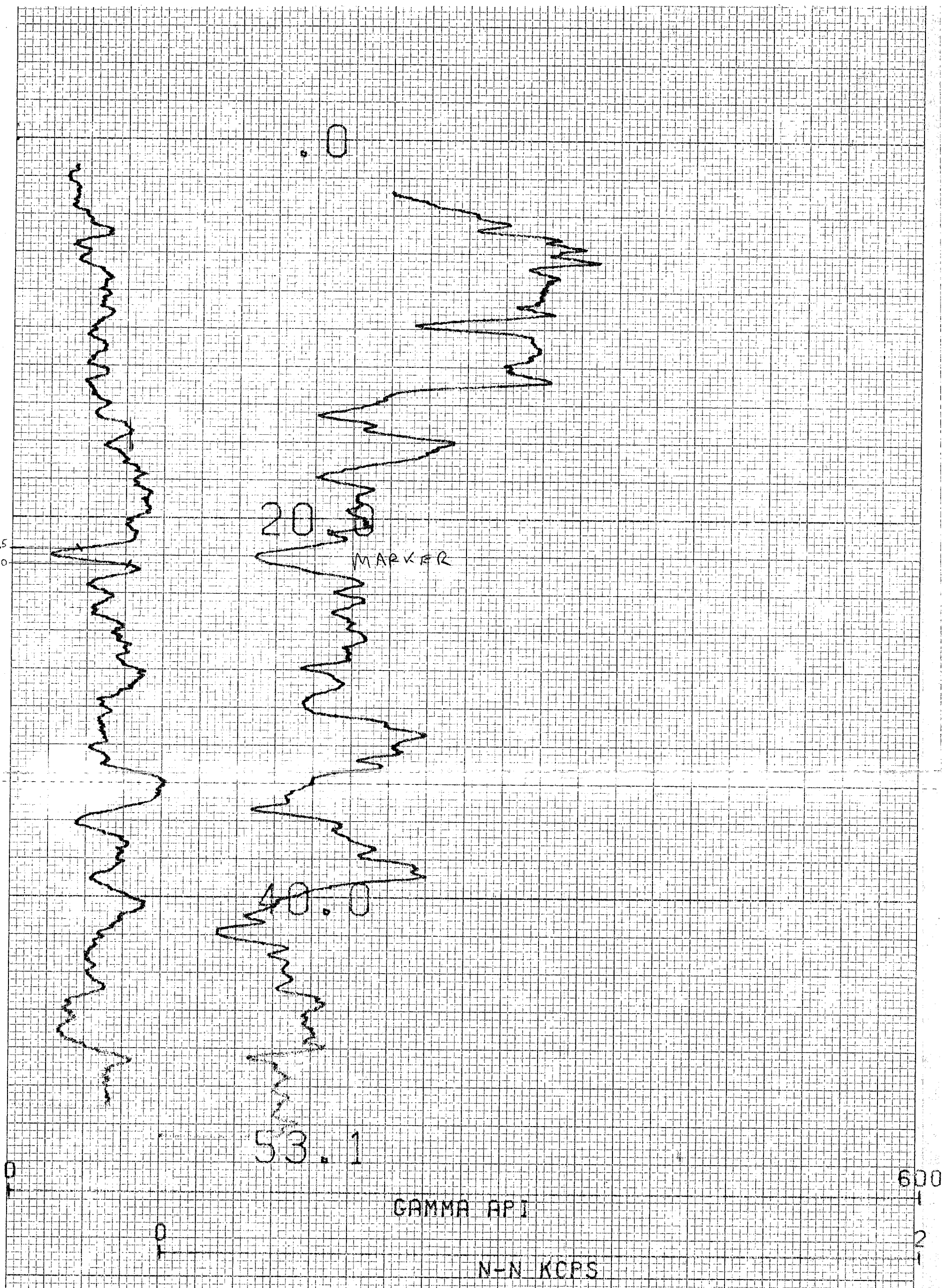
618

COMPU-LOG V8L2 PLOT 11-14-84

QHR-84028
GAMMA NEUTRON DEV'N
HERMANN SOUTH

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L366
D.MCNEIL APPL.#7 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



618

COMPU-LOG V8L2 PLOT 11-14-84

QHR-84029

GAMMA NEUTRON (RODS)

HERMANN SOUTH

HOLE DIAMETER : 13.0

PROBE # 905SA - 079

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = 0

DATA V8L2*A TRUCK # L366

D. MCNEIL APPL. #7 L1

QR- Quintette 84(3) A

232

618

VERTICAL DEVIATION

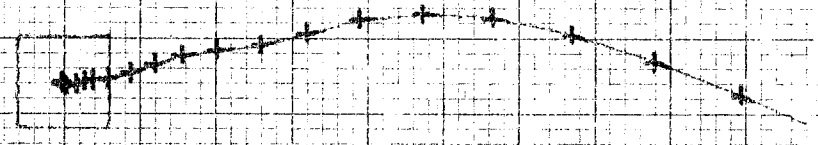
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : GAMMA NEUTRON DEV'N
LOCATION : HERMANN SOUTH
HOLE ID : QHR-84028
DATE OF LOG : 11-14-84
PROBE : 9055A 0079

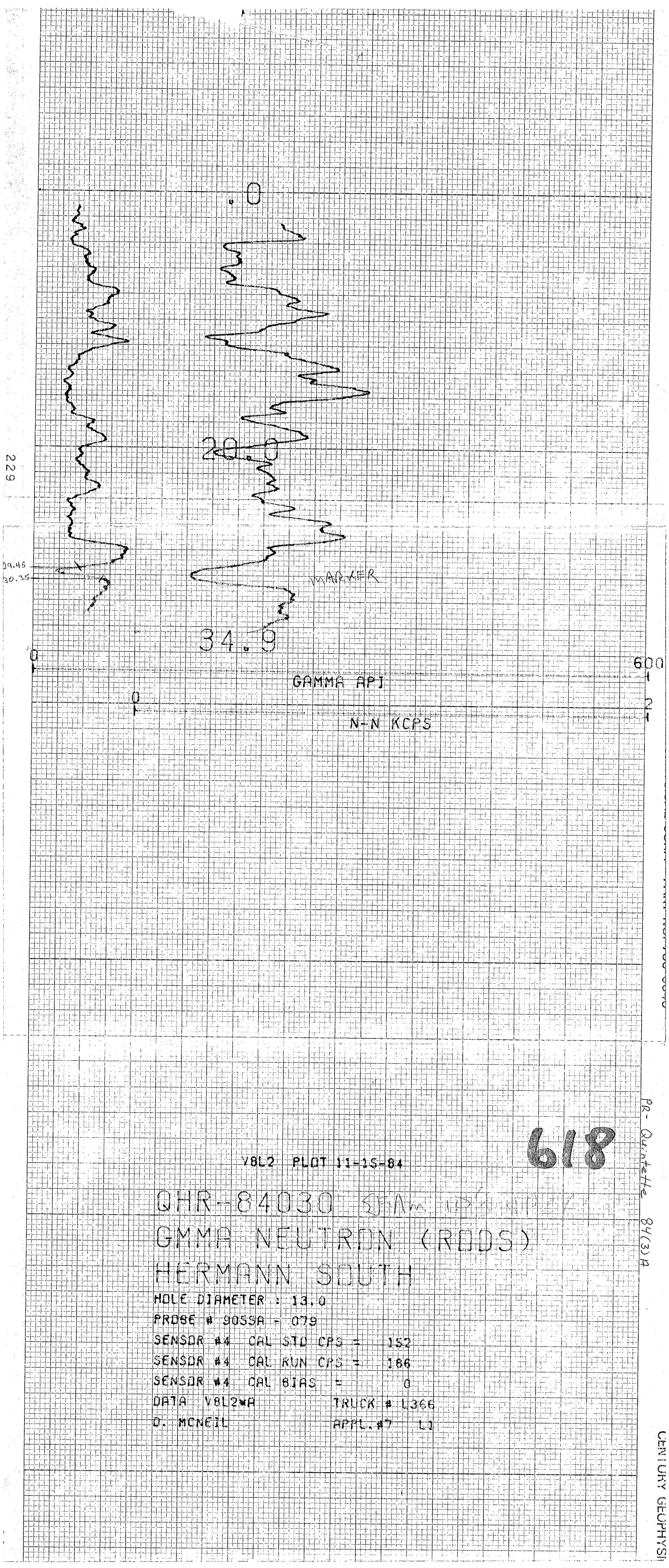
SCALE: 2.50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 193.9 M
AZIMUTH: 93.1
DISTANCE: 24.40 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



PR - Quintette 84(3)A


229
0
28.0
09.45
30.35
MARKER
34.9
0
600
GAMMA API
0
2
N-N KCPS
618
V8L2 PLOT 11-15-84
QHR-84030
GMMA NEUTRON (RODS)
HERMANN SOUTH
HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 166
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L366
D. MCNEIL APPL.#7 L1
PR- Quintette 84(3)A
CENTURY GEOPHYSI

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG VSLI DEVIATION

CLIENT : DEVIATION

HOLE ID : QBR-8400S

LOCATION : WATERFALL CREEK

DATE OF LOG : 08-10-84

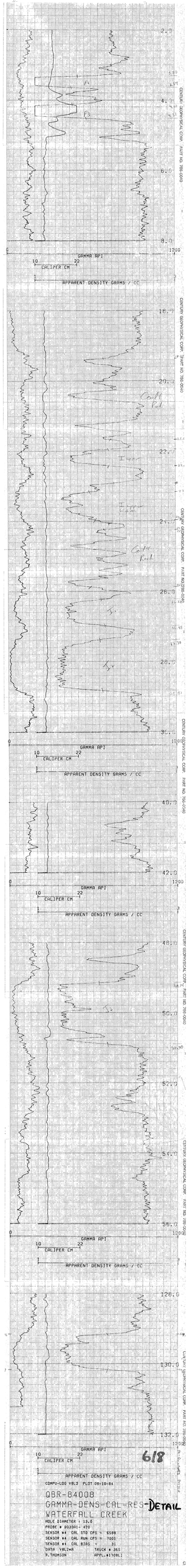
DATA FROM : VSL2*A

PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
.00	.00	.00	.00	.00	.0	.0	.0
5.00	4.99	-.00	.02	.02	91.0	.3	90.9
10.00	9.99	.05	.03	.06	36.1	.6	10.4
15.00	14.99	.13	.02	.13	9.1	.9	348.6
20.00	19.99	.22	.02	.22	6.7	1.0	3.1
25.00	24.99	.32	.03	.32	5.6	1.1	3.1
30.00	29.99	.45	.04	.45	5.0	1.4	3.6
35.00	34.99	.59	.06	.59	6.0	1.5	9.2
40.00	39.99	.73	.11	.74	8.9	1.7	20.0
45.00	44.98	.93	.20	.95	12.4	2.4	24.8
50.00	49.97	1.14	.36	1.19	17.7	3.0	37.4
55.00	54.96	1.30	.59	1.43	24.7	3.2	55.5
60.00	59.95	1.53	.87	1.76	29.6	4.1	49.5
65.00	64.93	1.73	1.22	2.11	35.2	4.6	60.8
70.00	69.92	1.97	1.56	2.51	38.3	4.7	54.1
75.00	74.90	2.22	1.90	2.93	40.5	4.9	53.5
80.00	79.88	2.48	2.25	3.35	42.3	5.0	54.2
85.00	84.86	2.74	2.63	3.80	43.8	5.2	55.0
90.00	89.83	3.03	3.06	4.31	45.3	5.9	56.7
95.00	94.80	3.23	3.53	4.79	47.6	5.8	66.8
100.00	99.78	3.51	3.97	5.30	48.5	5.9	56.7
105.00	104.74	3.76	4.47	5.84	49.9	6.4	63.4
110.00	109.71	4.01	5.01	6.42	51.3	6.7	65.2
115.00	114.67	4.27	5.54	6.99	52.4	6.7	64.0
120.00	119.63	4.58	6.07	7.61	52.9	7.1	59.6
125.00	124.58	4.97	6.70	8.34	53.4	8.5	58.3
130.00	129.51	5.38	7.40	9.16	54.0	9.4	59.6
TD 134.00	133.45	5.75	7.99	9.84	54.3	9.9	58.1

618


CENTURY GEOPHYSICAL CORP. PART NO. 786-0000
2.0
4.0
6.0
8.0
GAMMA API
CALIPER CM
APPARENT DENSITY GRAMS / CC
CENTURY GEOPHYSICAL CORP. PART NO. 786-0000
18.0
20.0
22.0
24.0
26.0
28.0
30.0
Coal
Coal
CENTURY GEOPHYSICAL CORP. PART NO. 786-0000
40.0
42.0
CENTURY GEOPHYSICAL CORP. PART NO. 786-0000
48.0
50.0
52.0
54.0
56.0
CENTURY GEOPHYSICAL CORP. PART NO. 786-0000
126.0
128.0
130.0
132.0
618
COMPU-LOG VOL2 PLOT 06-10-84
QBR-84008
GAMMA-DENS-CAL-RES-DETAIL
WATERFALL CREEK
HOLE DIAMETER : 13.0
PROBE # 8033011- 420
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 3
DATA VALID=0 TRUCK # 365
R.THOMSON APPL.#170BL1

618

COMPU-LOG V8L2 PLOT 08-10-84

QBR-84008 SEAM IDS

GAMMA-DENS-CAL-RES

WATERFALL CREEK

HOLE DIAMETER : 13.0
PROBE # 903LA1- 420
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
FATA V8L2*A TRUCK # 365
R.THOMSON APPL.#30 L1

Pr- Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

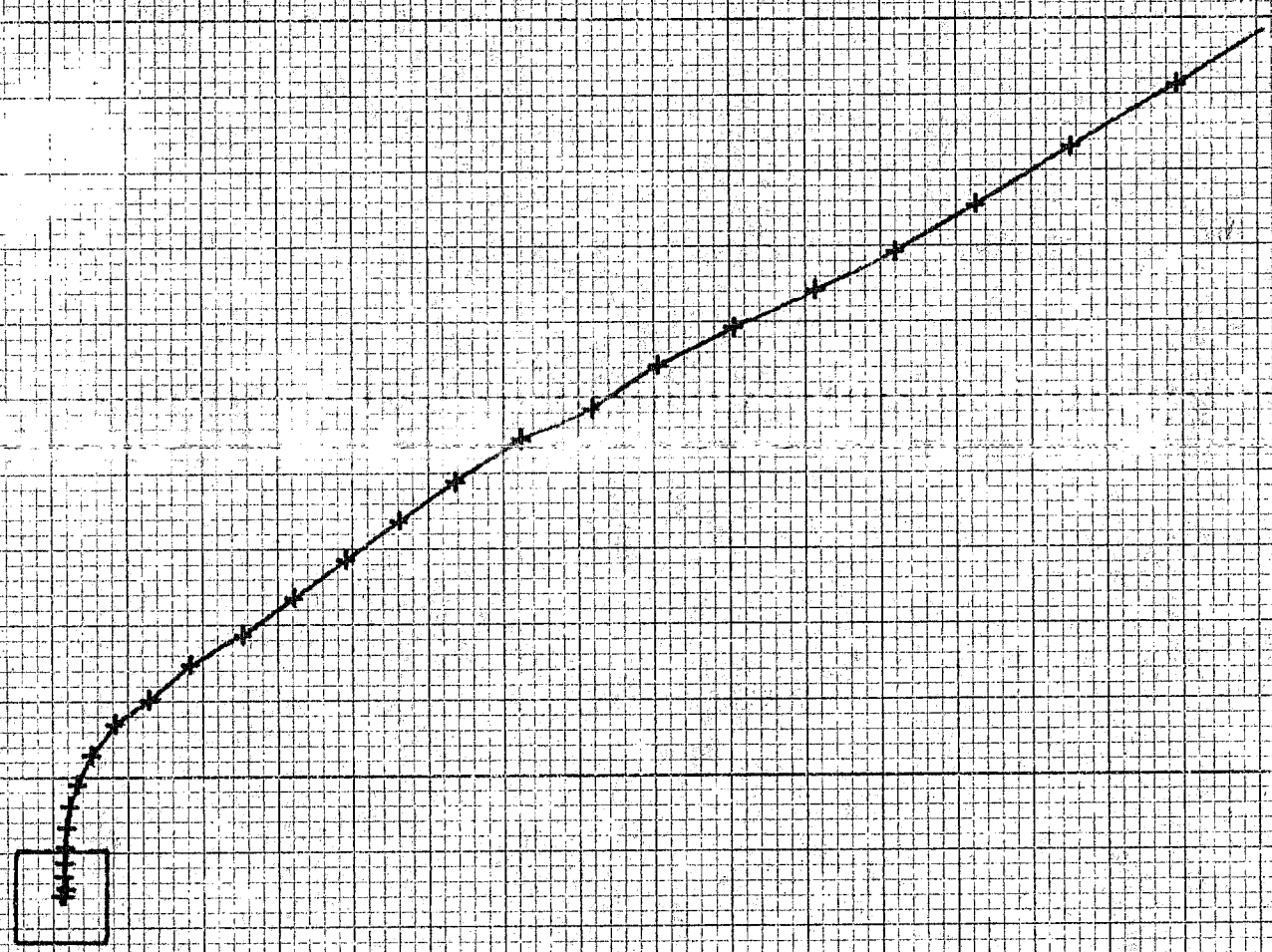
6/8

CLIENT : DEVIATION
LOCATION : WATERFALL CREEK
HOLE ID : QBR-84008
DATE OF LOG : 08-10-84
PROBE : 9055A 0079

SCALE: .50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 133.5 M
AZIMUTH: 54.3
DISTANCE: 9.84 M

+ = 5.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



PR - Quintette 84(3)A

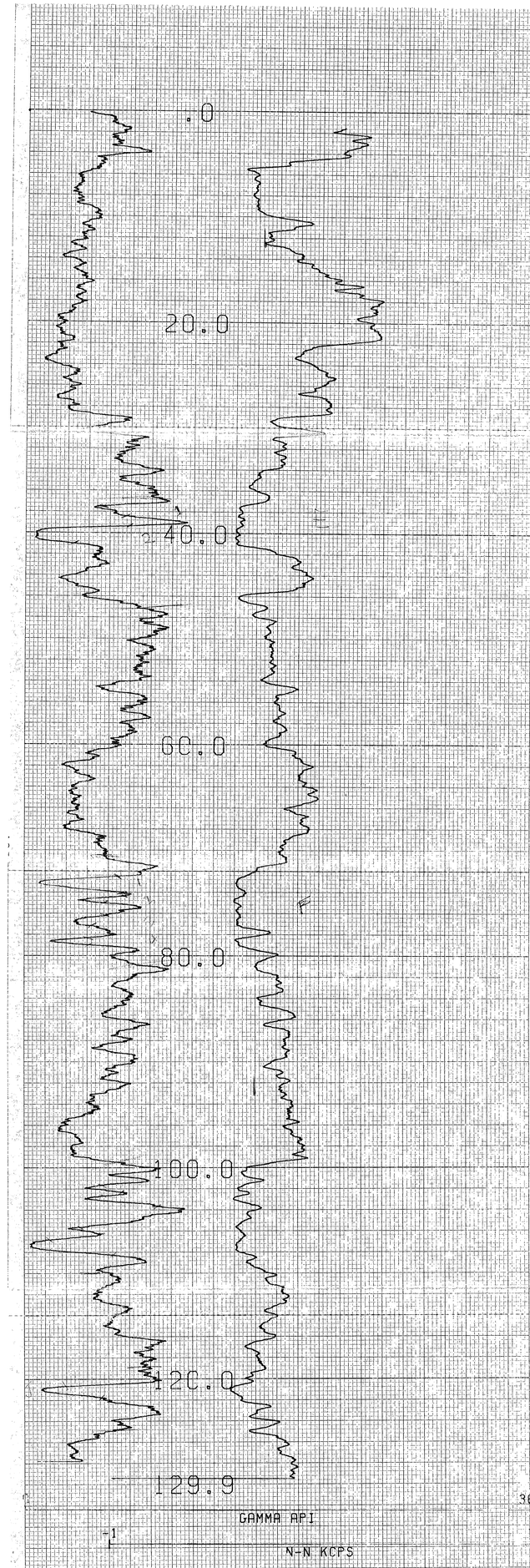
BOOK III
00618 PR 84 (3) A
QUINTETTE

618

618

LOT 08-12-84

QBR-84012
GAMMA NEUTRON (RODS) DETAIL
WATERFALL CREEK DETAIL
HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L3G5
R. ZEMENCHIK APPL.#1007L1



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COMPU-LOG V8L2 PLOT 08-12-84

QBR-84012

GAMMA NEUTRON (RODS)

WATERFALL CREEK

HOLE DIAMETER : 13.0

PROBE # 9055A - 079

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = 0

DATA V8L2*A TRUCK # L36S

R. ZEMENCHIK APPL.#7 L1

JRP. PART NO. 786-0040 CENTURY GEOPHYSICAL CORP. PART NO. 786-0040 CENTURY GEOPHYSICAL CORP. PART NO. 786-0040 CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

618

PR-Quintette 84(3)A

COMPU-LOG V8L2 PLOT 08-13-84

QBR-84013

GAMMA NEUTRON (RODS) →DETAIL

WATERFALL CREEK

HOLE DIAMETER : 13.0

PROBE # 9055A - 079

SENSOR #4 CAL STD CPS = 152

SENSOR #1 CAL RUN CPS = 186

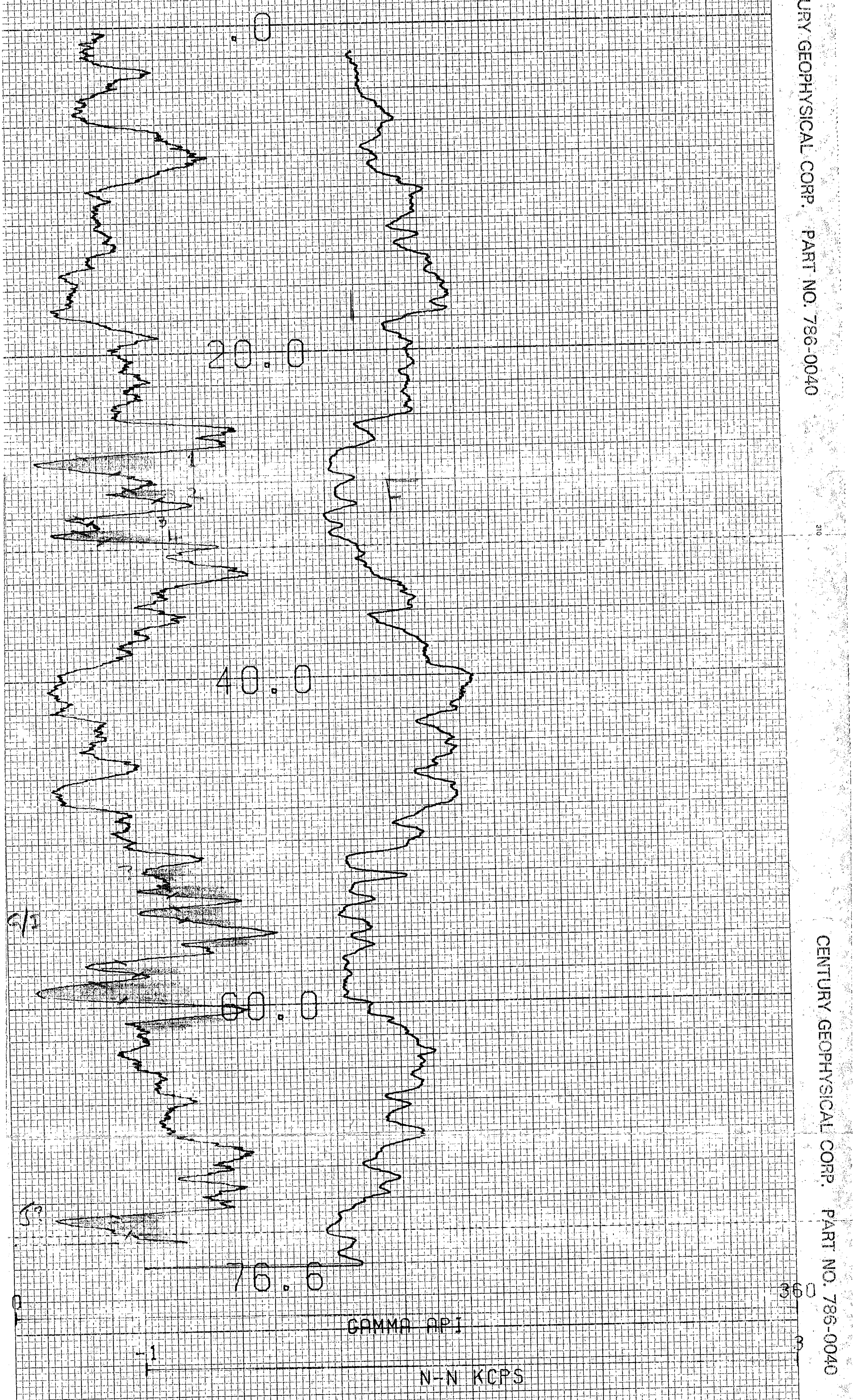
SENSOR #4 CAL BIAS = 0

DATA V8L2*A TRUCK # L365

R. ZEMENCHIK APPL.#1007L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

PR-Quintette 84(3)A

618

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 08-13-84

QBR-84013

GAMMA NEUTRON (RODS)

WATERFALL CREEK

HOLE DIAMETER : 13.0

PROBE # 9055A - 079

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = 0

DATA V8L2*A TRUCK # L365

R. ZEMENCHIK APP. #7

618

COMPU-LOG V8L2 PLOT 08-15-84

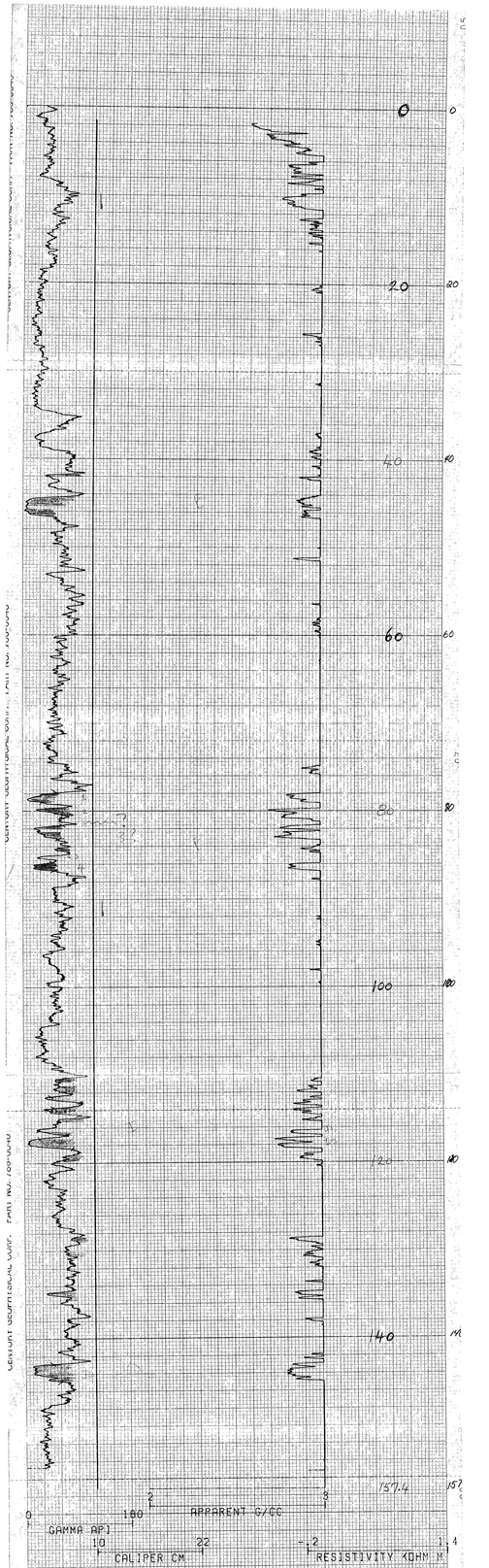
QBR-84014 SEAM PICKS

GAMMA DENSITY (RODS) -DETAIL

WATERFALL CREEK

HOLE DIAMETER : 13.0
PROBE # 9030A1- 420
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA V8L2*A TRUCK # L365
R. ZEMECHIK APPL.#1708L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



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COMPU-LOG V8L2 PLOT 08-15-84

QBR-84014 Stream DD's
GAMMA DENSITY (RODS)
WATERFALL CREEK

HOLE DIAMETER : 13.0
PROBE # 903041 : 420
SENSOR #4 CAL STD CPS = 5568
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 31
DATA V8L2#8 TRUCK # L365
R. ZEMECHIK APPL.#30 L1

CENTURY GEOPHYSICAL CORP. PART NO. 785-0040

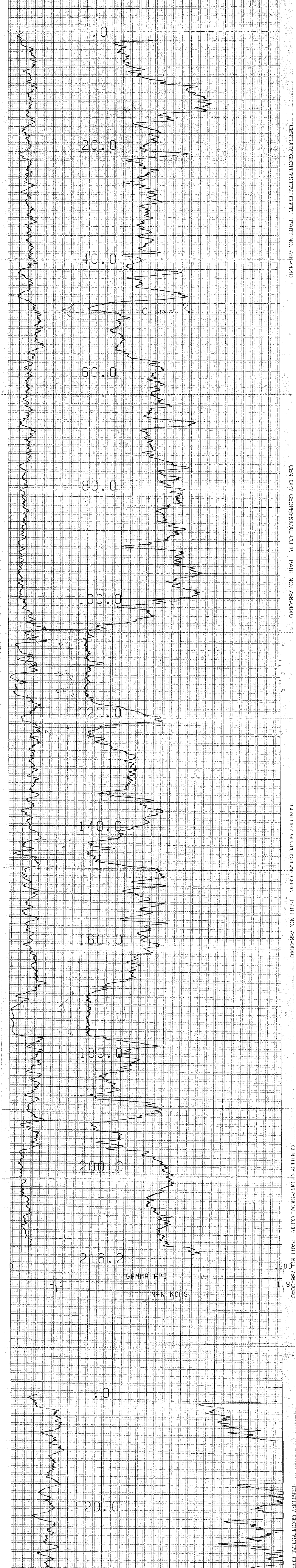
618

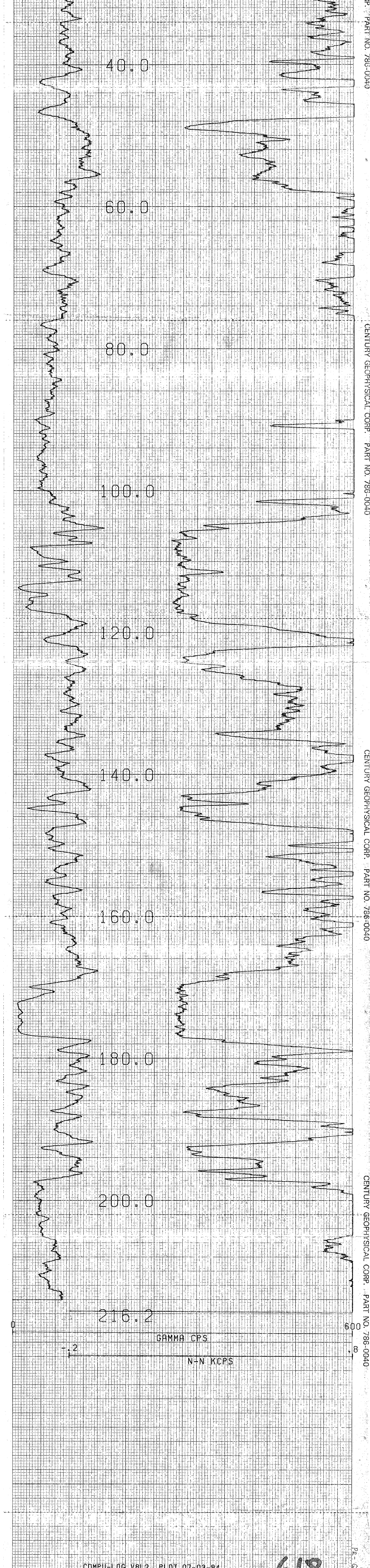
COMPU-LOG V8L2 PLOT 07-03-84

QHD-84001
GAMMA-NEUTRON -DETAIL
HERMANN-EXP. ROAD-NORTH

HOLE DIAMETER : 10.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 166
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#1007L1

PR-Quintette 84(3)A





COMPU-LOG V8L2 PLOT 07-03-84

618

QHD-84001
GAMMA-NEUTRON (RODS)
HERMANN-EXP. ROAD

HOLE DIAMETER : 10.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#7 L1

PR- Quintette 84(3)17

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

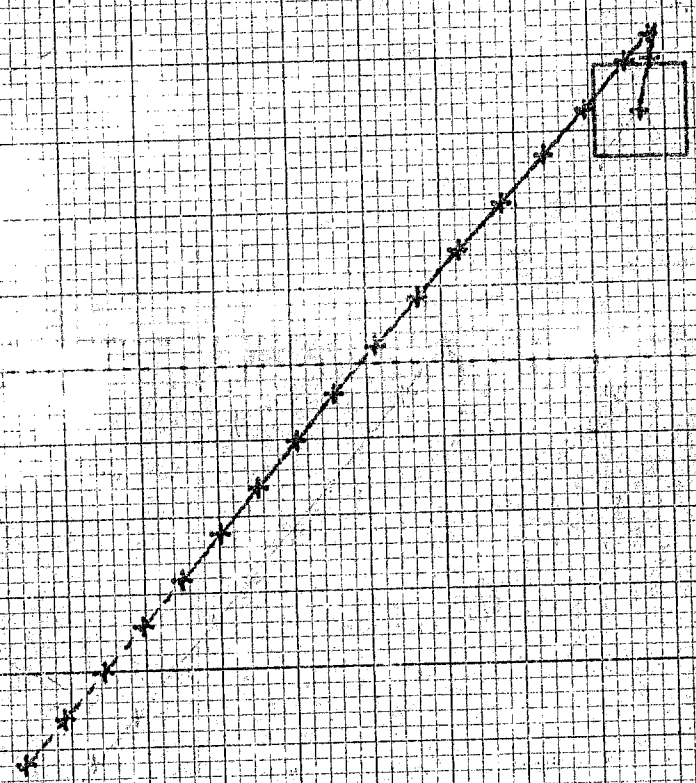
618

CLIENT : VERTICAL DEVIATION
LOCATION : HER.NOR.EXP.RD.
HOLE ID : QHD-8480
DATE OF LOG : 07-09-84
PROBE : 9055A 0079

SCALE: 1.50 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 88.0 M
AZIMUTH: 224.3
DISTANCE: 17.95 M

+ = 5.0 M INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



PR- Quintette 84(3)A

618

COMPU-LOG V8L2 PLOT 07-07-84

QHD-84002

GAMMA-DENS-CAL-RES -DETAIL

HERMAN NORTH

HOLE DIAMETER : 13.0

PROBE # 9030A1- 403

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 4950

SENSOR #4 CAL BIAS = 98

DATA V8L2#A TRUCK # 366

R.THOMSON APPL.#1708L1

COMPU-LOG V8L2 PLOT 07-07-84

618

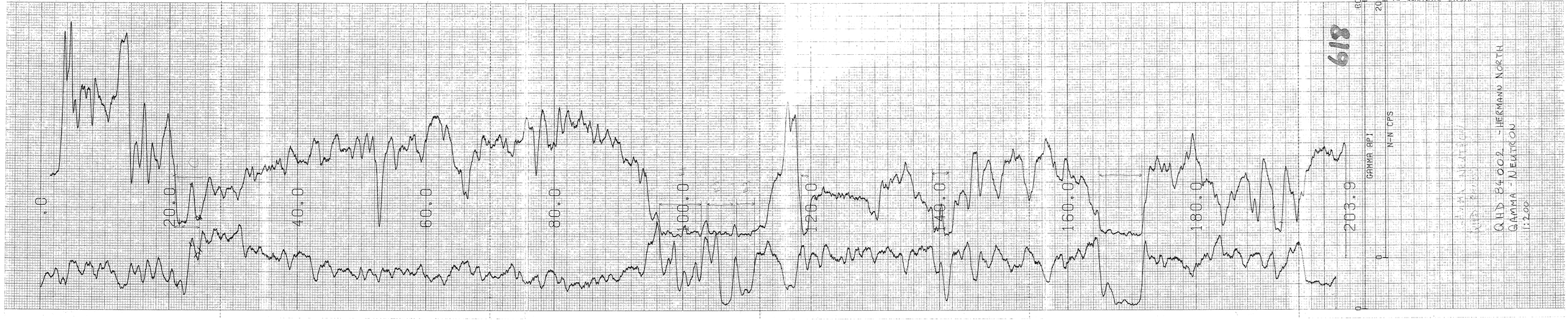
QHD-84002

GAMMA-NEUTRON-DETAIL W PICKS

HERMAN NORTH

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # 366
R.THOMSON APPL.#1007L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



VERTICAL DEVIATION

618

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : DEVIATION
LOCATION : HERMAN
HOLE ID : QHD-84002
DATE OF LOG : 07-07-84
PROBE : 9055A 0079

SCALE: .25 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 204.3 M
AZIMUTH: 151.6
DISTANCE: 3.41 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
310
GEOPHYSICAL CORP. PART NO. 786-0040
PR- Quintette 84(3)A

[illegible] VERTICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG VSLT DEVIATION

CLIENT : DEVIATION HOLE ID : QHD-84003

LOCATION : HERMAN DATE OF LOG : 07-10-84

DATA FROM : VSL2*A PROBE : 9055A 0079

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

	DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
	.00	.00	.00	.00	.00	.0	.0	.0
	10.00	9.99	-.09	-.30	.32	252.3	1.8	252.2
	20.00	19.99	-.22	-.53	.58	247.6	1.4	241.6
	30.00	29.98	-.39	-.80	.89	244.0	1.8	237.5
	40.00	39.97	-.48	-1.09	1.19	246.1	1.7	251.9
	50.00	49.97	-.68	-1.33	1.50	242.7	1.8	229.9
	60.00	59.96	-.93	-1.49	1.76	237.9	1.6	212.3
	70.00	69.96	-1.12	-1.71	2.05	236.0	1.6	229.7
	80.00	79.96	-1.24	-1.97	2.33	237.7	1.6	244.7
	90.00	89.95	-1.39	-2.23	2.63	238.1	1.7	240.9
	100.00	99.95	-1.65	-2.34	2.86	234.7	1.6	281.5
	110.00	109.94	-1.87	-2.44	3.07	232.6	1.3	285.7
	120.00	119.94	-2.00	-2.67	3.34	233.1	1.5	238.9
	130.00	129.94	-2.18	-2.92	3.65	233.3	1.7	234.9
	140.00	139.93	-2.36	-3.18	3.96	233.5	1.8	235.8
	150.00	149.92	-2.69	-3.37	4.31	231.4	2.1	210.0
TD	154.30	154.22	-2.83	-3.45	4.46	230.6	2.1	207.4

618

618

COMPU-LOG V8L2 PLOT 07-11-84

QHD-84001 3

GAMMA DENSITY 1:20 DETAIL

HERMANN CONV.RD. NORTH

HOLE DIAMETER : 13.0

PROBE # 9030A1- 418

SENSOR #4 CAL STD CPS = 152

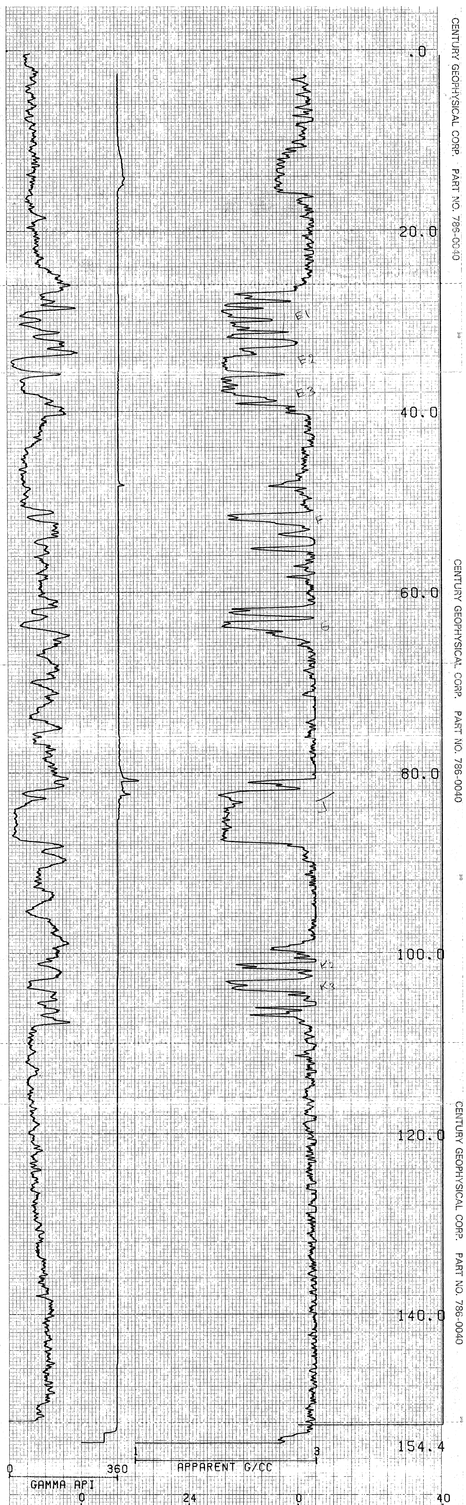
SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = -24

DATA V8L2*A TRUCK # L366

R. ZEMENCHIK APPL.#1708L1

DETAIL



COMPU-LOG V8L2 PLOT 07-11-84

QHD-84003

GAMMA DENSITY

HERMANN CONV.RD. -NORTH

618

HOLE DIAMETER : 13.0

PROBE # 9030A1- 418

SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 186

SENSOR #4 CAL BIAS = -24

DATA V8L2WA TRUCK # L366

R. ZEMENCHIK APPL.#30 L1

Pr. Quintana 8/23/8

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

618

Pr-Quintette 84(3)A

COMPU-LOG V8L2 PLOT 07-10-84

QHD-84003

GAMMA-NEUTRON

HERMAN NORTH

HOLE DIAMETER : 13.0
PROBE # 9055A - 079
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 186
SENSOR #4 CAL BIAS = 0
DATA V8L2*A TRUCK # 366
R.THOMSON APPL.#7 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

VERTICAL DEVIATION

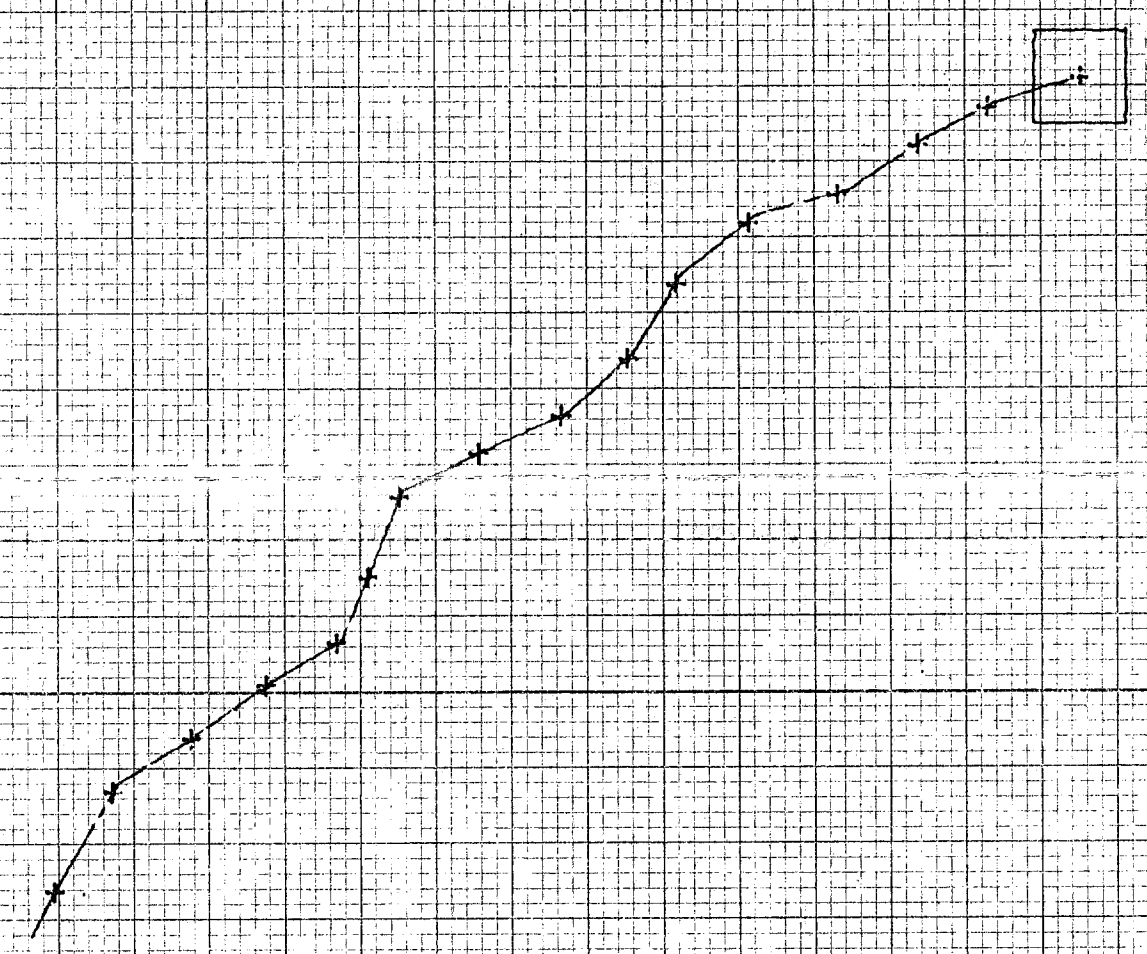
COMPU-LOG VBL DEVIATION
DATA FROM : VBL2*A

CLIENT : DEVIATION
LOCATION : HERMAN
HOLE ID : OHD-84003
DATE OF LOG : 01-10-84
PROBE : 9055A 0079

SCALE: .25 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 154.2 M
AZIMUTH: 230.6
DISTANCE: 4.46 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
PR- Quintette 84(3)A
ART NO. 786-0040

VERTICAL DEVIATION

618

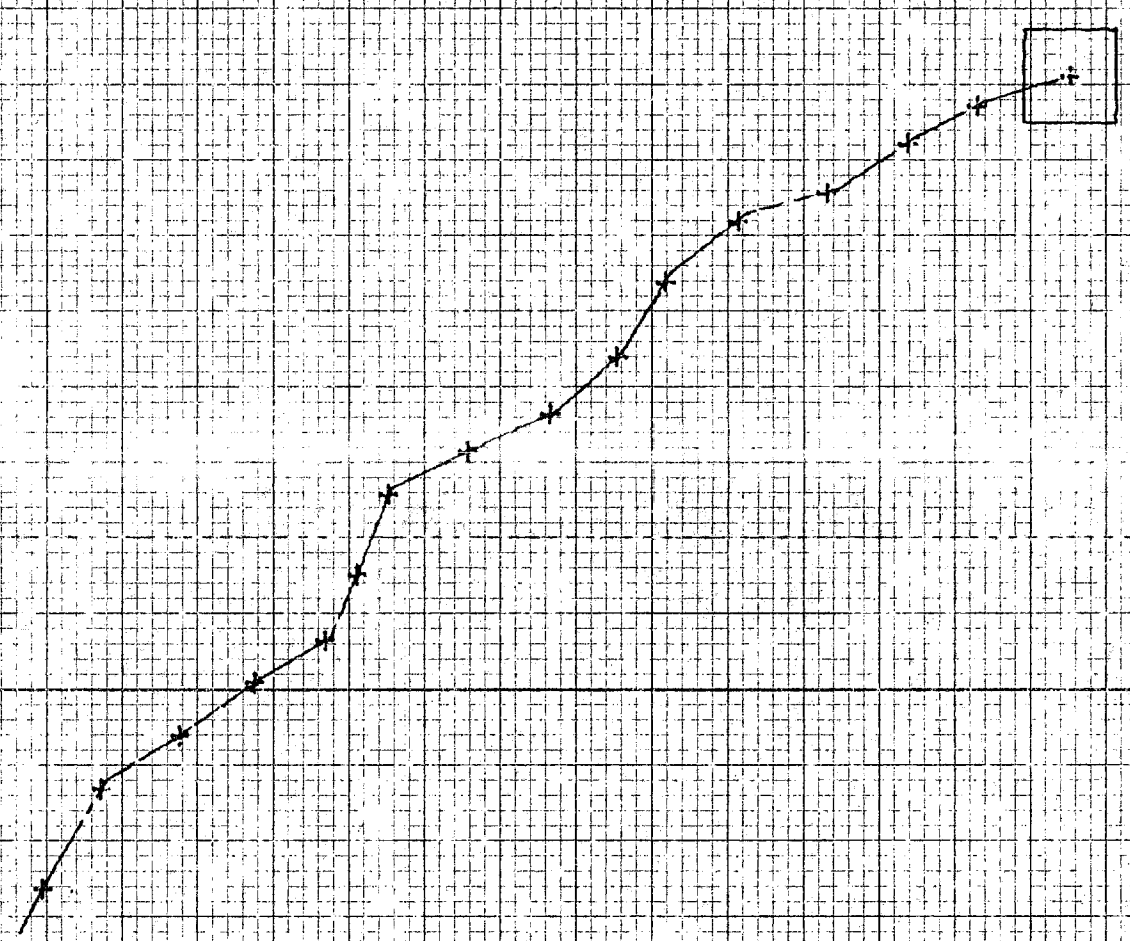
COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

CLIENT : DEVIATION
LOCATION : HERMAN
HOLE ID : OHD-84003
DATE OF LOG : 07-10-84
PROBE : 9055A 0079

SCALE: .125 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 154.2 M
AZIMUTH: 230.6
DISTANCE: 4.46 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◊ = BOTTOM OF ZONE

TRUE NORTH ↑



ART NO. 786-0040
PR- Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

310

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

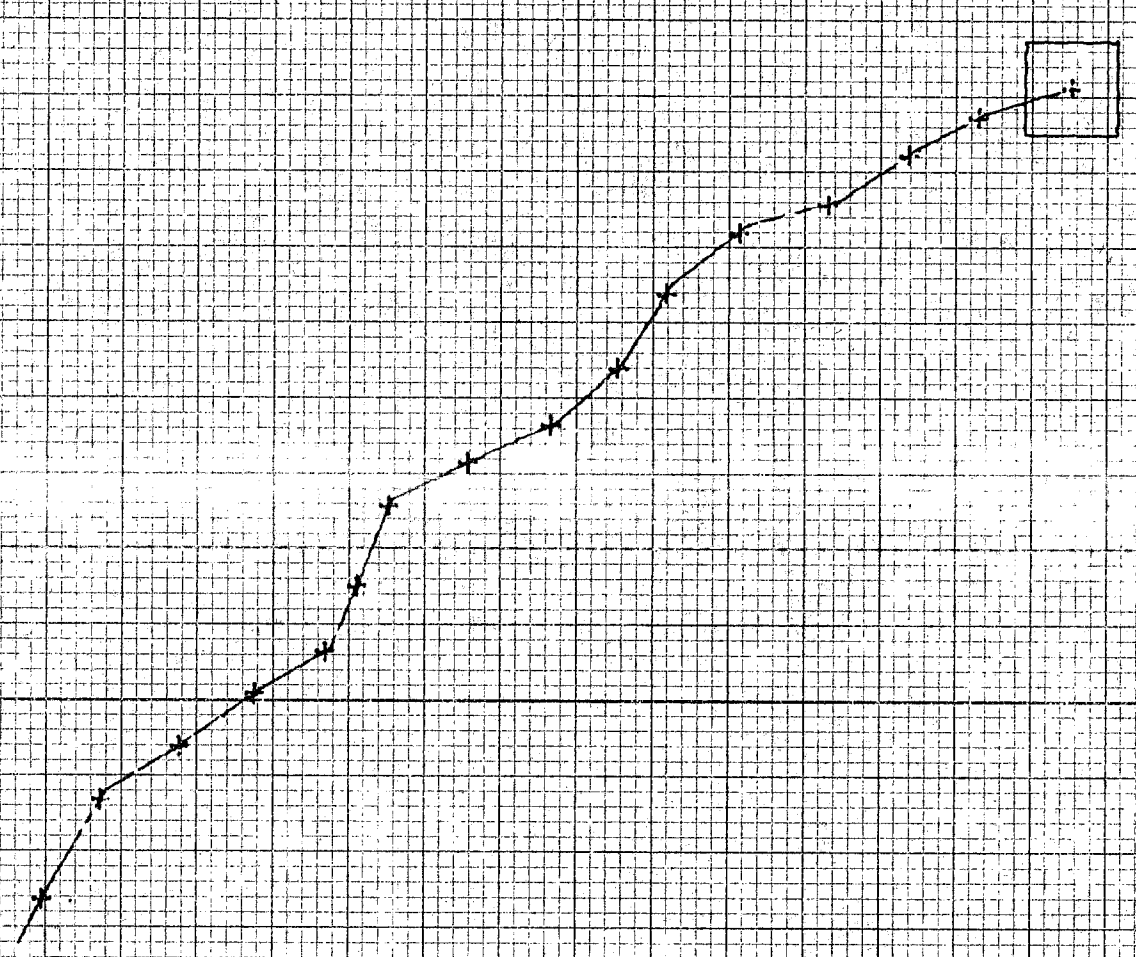
618

CLIENT : DEVIATION
LOCATION : HERMAN
HOLE ID : OHD-84003
DATE OF LOG : 01-10-84
PROBE : 9055B 0079

SCALE: 125 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 154.2 M
AZIMUTH: 230.6
DISTANCE: 4.46 M

+ = 10.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
PR- Quintette 84(3)A
ART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION

* * * * * * * * VERTICAL DEVIATION * * * * * * * *

COMPU-LOG V8L1 DEVIATION

CLIENT : VERTICAL DEVIATION

HOLE ID : QHD-84004

LOCATION : HERMANN SOUTH

DATE OF LOG : 08-04-84

DATA FROM : V8L2*A

PROBE : 9055A 0079

COLLAR BEARING -043° to TRUE NORTH

TD = TOTAL DEPTH
T = TOP OF ZONE
B = BOTTOM OF ZONE

DEPTH	TRUE DEPTH	NORTH DEV	EAST DEV	DISTANCE	AZIMUTH	SA	SAB
00	.00	.00	.00	.00	.0	.0	.0
1.00	.97	-.15	.15	.21	135.6	12.3	135.6
2.00	1.95	-.30	.29	.42	136.1	12.2	136.5
3.00	2.93	-.46	.40	.62	139.0	11.2	145.5
4.00	3.90	-.58	.53	.79	137.5	10.1	132.1
5.00	4.88	-.50	.70	.86	125.3	11.0	63.3
6.00	5.86	-.31	.67	.74	114.9	10.9	350.7
7.00	6.83	-.24	.56	.61	113.1	7.7	303.3
8.00	7.81	-.26	.77	.81	108.6	12.2	95.5
9.00	8.79	-.31	.98	1.03	107.7	12.5	104.3
10.00	9.76	-.40	1.18	1.24	108.8	12.3	114.2
11.00	10.74	-.31	1.33	1.36	103.5	9.9	61.1
12.00	11.71	-.12	1.40	1.40	95.0	12.0	19.5
13.00	12.69	.04	1.52	1.52	88.2	12.1	35.1
14.00	13.66	.20	1.45	1.46	81.9	9.9	336.4
15.00	14.64	.39	1.37	1.42	74.1	11.6	336.9
16.00	15.62	.51	1.49	1.58	70.9	10.3	44.2
17.00	16.59	.61	1.69	1.80	70.0	12.3	63.1
18.00	17.57	.70	1.88	2.00	69.5	12.0	65.2
19.00	18.55	.78	2.07	2.21	69.2	12.1	66.7
20.00	19.53	.86	2.26	2.42	69.0	12.1	66.9
21.00	20.51	.94	2.46	2.63	68.9	12.0	67.6
22.00	21.48	1.02	2.65	2.84	69.0	12.0	69.7
23.00	22.46	1.09	2.84	3.05	68.9	11.9	68.1
24.00	23.44	1.17	3.04	3.26	69.0	12.2	69.8
25.00	24.42	1.24	3.24	3.47	69.1	12.3	70.2
25.80	25.20	1.31	3.41	3.65	69.0	12.7	67.5

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COMPU-LOG V8L2 PLOT 08-04-84

QHD-84004
GAMMA DENSITY (RODS)
HERMANN SOUTH **DETAIL**

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # L365
R.ZEMENCHIK APPL.#1708L1

Seam Picks

VERTICAL DEVIATION

COMPU-LOG V8L1 DEVIATION
DATA FROM : V8L2*A

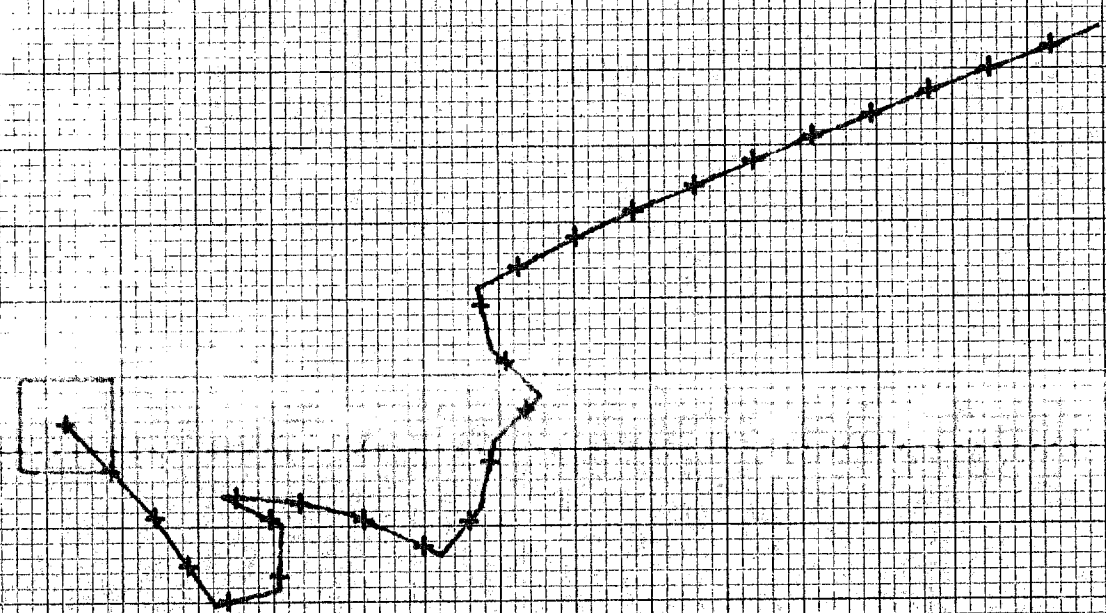
618

CLIENT : VERTICAL DEVIATION
LOCATION : HERMANN SOUTH
HOLE ID : QHD-84004
DATE OF LOG : 08-04-84
PROBE : 9055A 0079

SCALE: .25 M/DIV
MAG DECL: 24.5
TRUE DEPTH: 25.2 M
AZIMUTH: 69.0
DISTANCE: 3.65 M

+ = 1.0 M INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

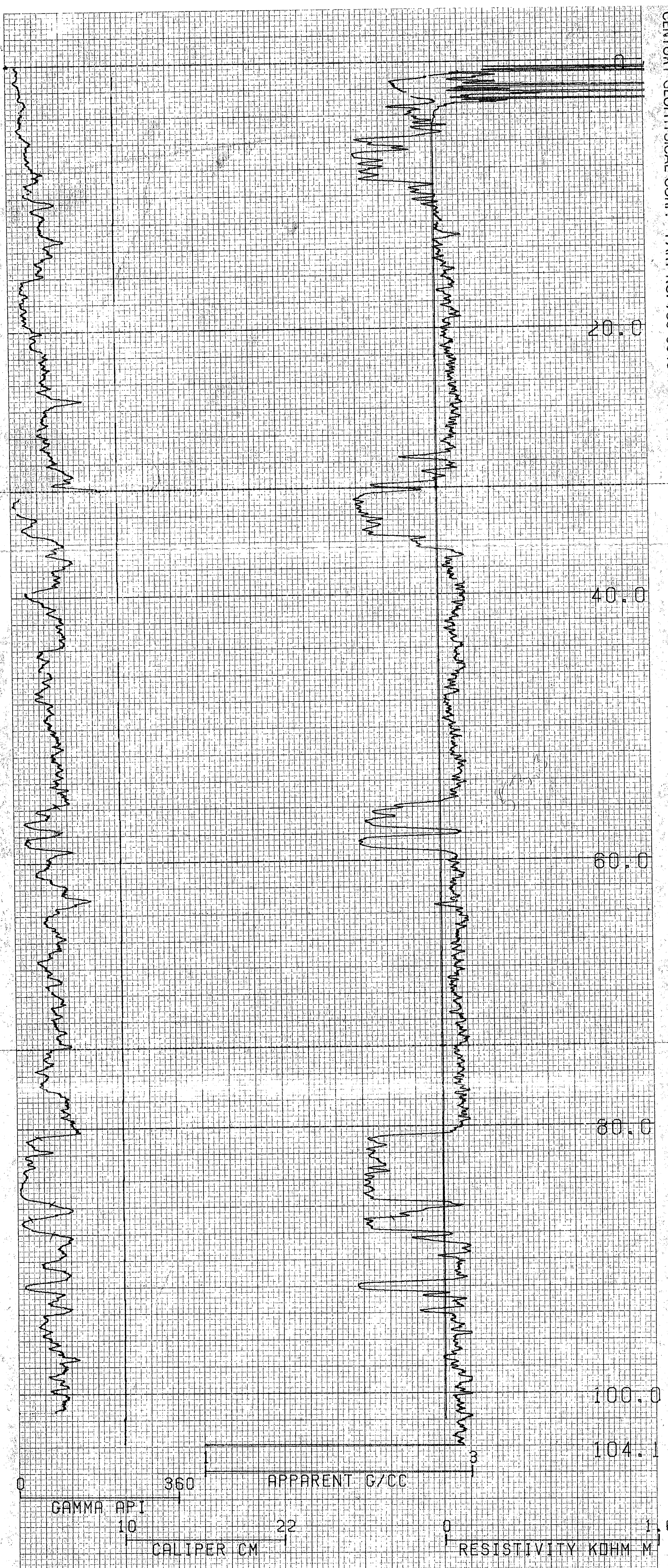


PR- Quintette 84(3)A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

310

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



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COMPU-LOG V8L2 PLOT 08-04-84

QHD-84004
GAMMA DENSITY (RODS)
HERMANN SOUTH

HOLE DIAMETER : 13.0
PROBE # 9030A1- 403
SENSOR #4 CAL STD CPS = 6588
SENSOR #4 CAL RUN CPS = 7001
SENSOR #4 CAL BIAS = 98
DATA V8L2*A TRUCK # L365
R. ZEMENCHIK APPL.#30 L1

PR-QUINTETTE 84A
CONFIDENTIAL
COAL ANALYSES
FROM
APPENDIX 7

CONFIDENTIAL

618