

COHEN, DIPPELL AND EVERIST, P. C.

**SUPPLEMENTAL DAYTIME
FIELD STRENGTH MEASUREMENTS
ON TEST TRANSMITTER TAKEN IN 1962 ON
WMSG, OAKLAND, MARYLAND
JANUARY 2007**

GEORGE C. DAVIS

TABULATION OF
FIELD STRENGTH MEASUREMENTS
KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

N 36° E

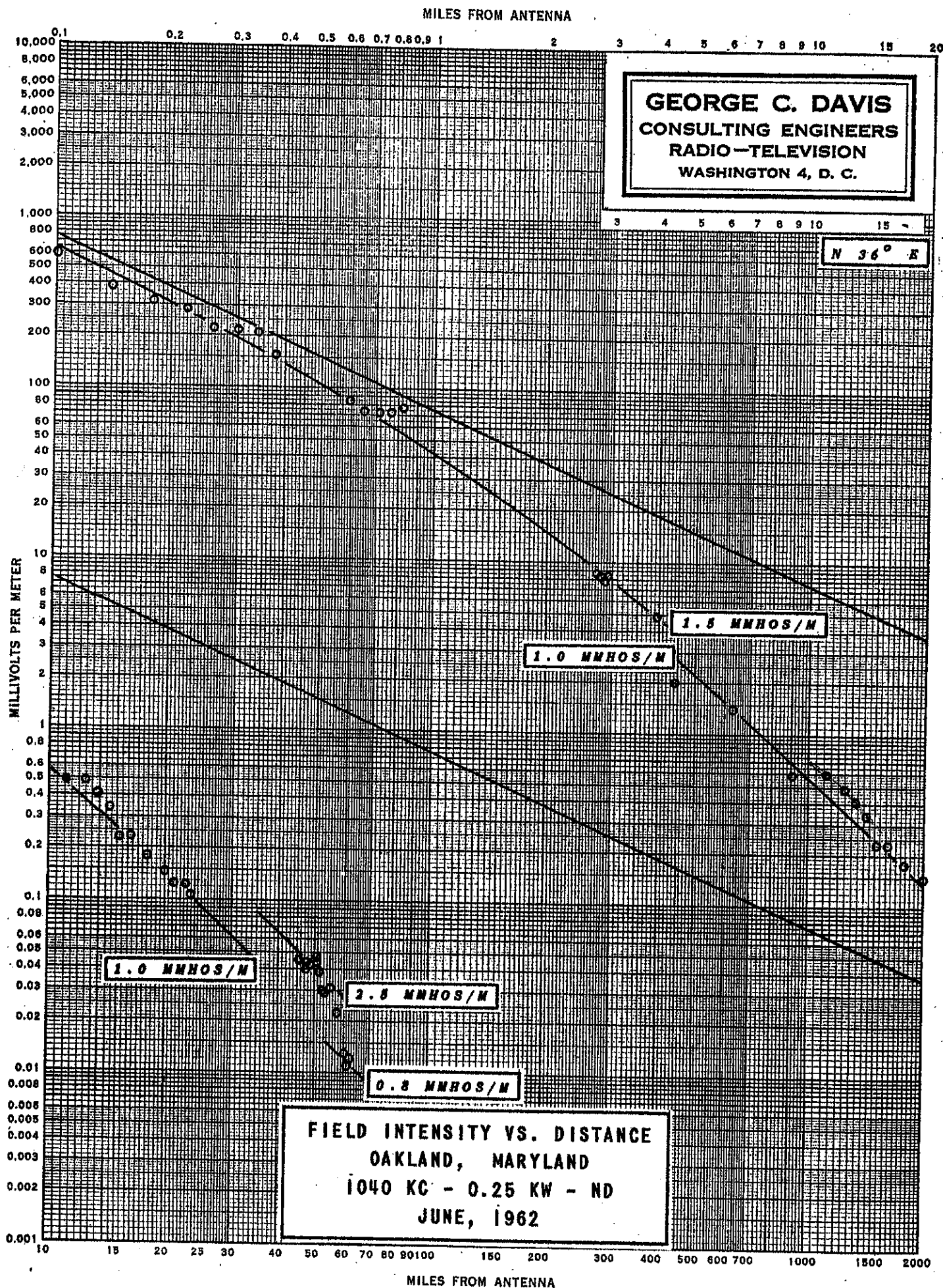
<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
1	0.1	588
2	0.14	382
3	0.18	320
4	0.22	278
5	0.26	227
6	0.30	217
7	0.34	206
8	0.38	155
9	0.60	84
10	0.65	73.5
11	0.72	71.5
12	0.77	73.5
13	0.83	76.8
14	2.73	8.55
15	2.80	8.25
16	2.86	7.85
17	2.92	8.25
18	2.97	8.05
19	3.98	4.95
20	4.46	2.0
21	6.34	1.4
22	57.1	0.022
23	55.1	0.031
24	60.0	0.013
25	62.3	0.012
26	61.4	0.011
27	52.9	0.030
28	53.6	0.029
29	50.8	0.046
30	51.7	0.038

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FIELD STRENGTH MEASUREMENTS

N 36° E
(Continued)

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
31	50.2	0.047
32	48.7	0.043
33	47.9	0.044
34	47.4	0.040
35 A	45.7	0.045
35	23.5	0.108
36	22.8	0.126
37	21.3	0.127
38	20.0	0.147
39	18.0	0.179
40	16.3	0.230
41	15.2	0.230
42	14.2	0.340
43	13.4	0.410
44	12.5	0.480
45	11.1	0.495
46	9.1	0.58



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TABULATION OF
FIELD STRENGTH MEASUREMENTS
KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

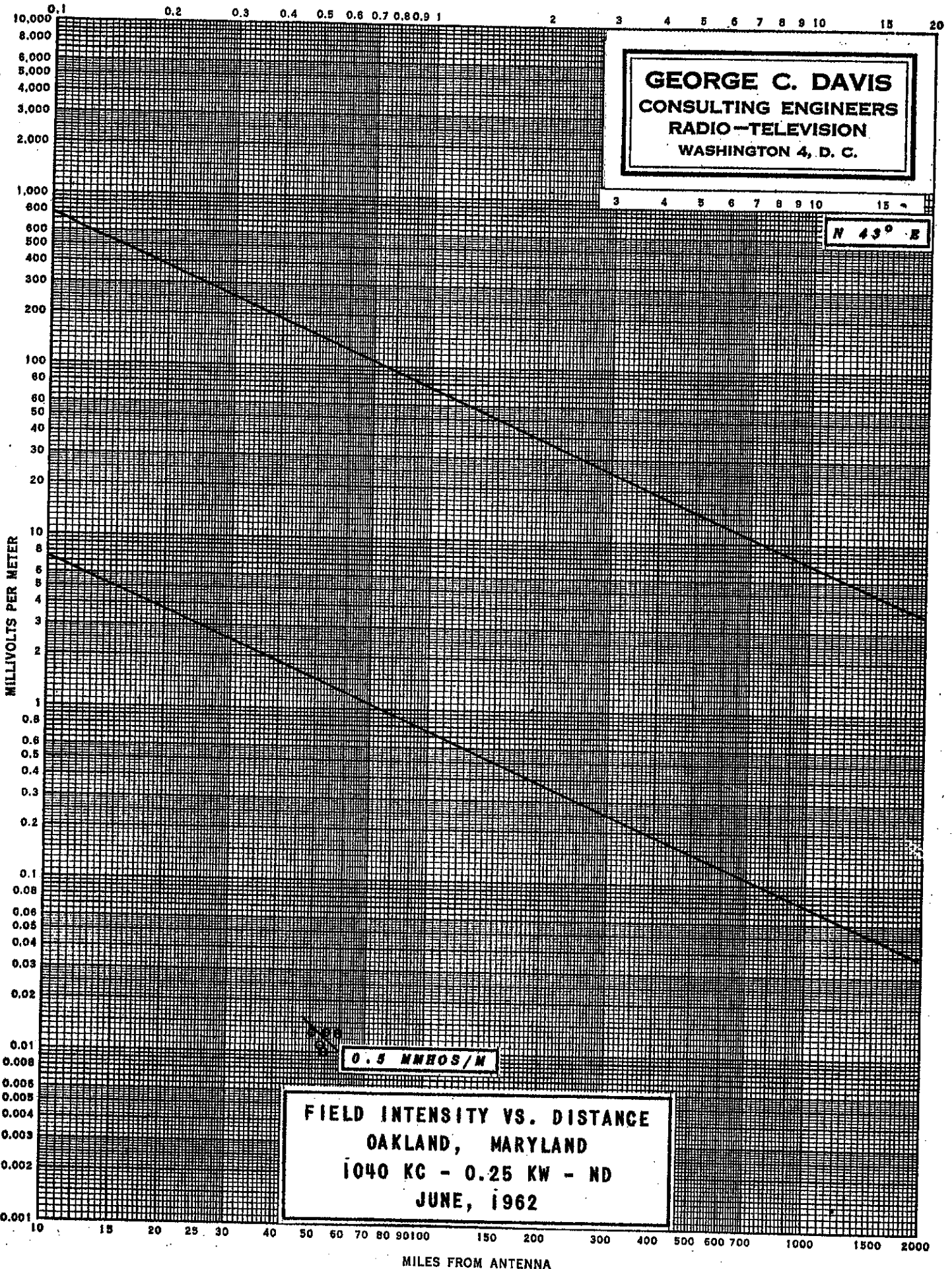
N 43° E

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
1	50.9	0.013
2	53.2	0.011
3	54.3	<0.01
4	55.5	0.013
5	59.9	0.013

MILES FROM ANTENNA

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

N 43° E



FIELD INTENSITY VS. DISTANCE
OAKLAND, MARYLAND
1040 KC - 0.25 KW - ND
JUNE, 1962

MILES FROM ANTENNA

GEORGE C. DAVIS

TABULATION OF
FIELD STRENGTH MEASUREMENTS

KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

N 53.5° E

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
2	0.14	430
3	0.19	350
4	0.25	255
5	0.3	220
6	0.36	200
7	0.43	140
8	0.5	90
9	0.57	80
10	0.61	77
11	0.74	78
12	0.82	80
13	0.89	66
14	0.94	62
15	1.52	14
16	1.60	13
17	1.67	13
18	1.74	14
19	1.82	14.5
20	1.90	11.5
21	1.98	11.0
22	2.06	12.0
23	2.10	11.0
24	2.22	11.0
25	2.30	13.0
26	2.38	9.8
27	2.46	10.1
28	2.54	9.7
29	2.62	10.5
30	3.1	5.8

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FIELD STRENGTH MEASUREMENTSN 53.5° E
(Continued)

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
31	4.18	4.7
32	5.1	3.55
33	4.9	3.5
34	5.73	2.7
35	6.08	2.6
36	6.83	2.1
37	7.48	1.6
38	7.61	1.5
39	5.33	2.7
41	9.1	0.80
42	9.5	0.55
43	9.8	0.56
44	10.4	0.72
45	11.3	0.58
46	11.8	0.57
47	12.1	0.51
48	13.0	0.47
49	13.9	0.237
50	15.3	0.235
51	17.2	0.082
52	18.4	0.160
53	19.7	0.130
54	21.3	0.053
55	23.6	0.110
56	24.1	0.089
57	24.6	0.115
58	25.0	0.103
59	27.5	0.082
60	27.2	0.081
61	28.3	0.046
62	28.8	0.054
63	29.9	0.069
64	31.2	0.043

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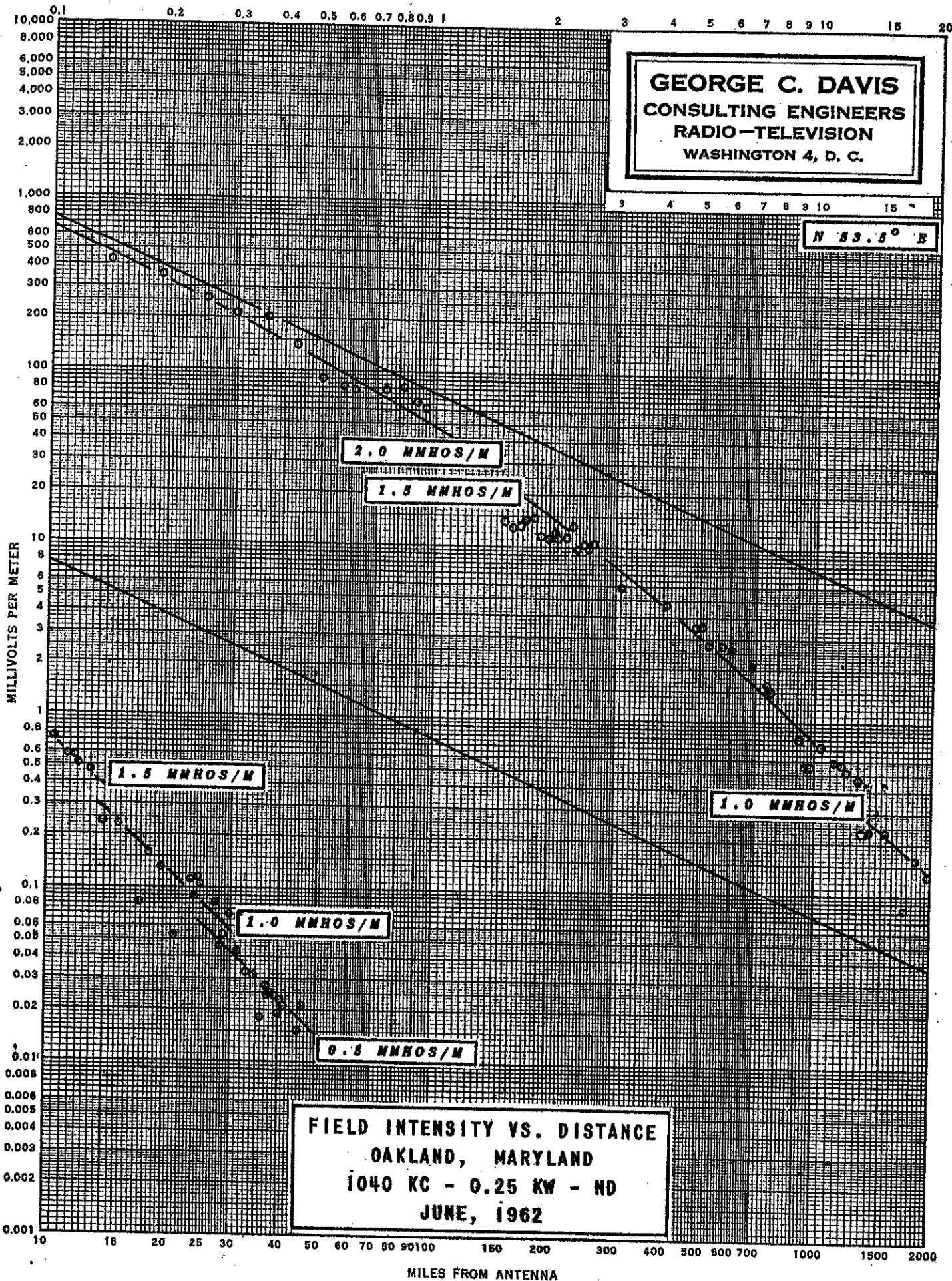
FIELD STRENGTH MEASUREMENTSN 53.5° E
(Continued)

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
65	33.0	0.033
66	34.7	0.031
67	36.0	0.018
68	37.1	0.027
69	37.6	0.024
70	38.0	0.025
71	39.3	0.024
72	40.0	0.019
73	40.8	0.023
74	41.5	0.021
75	45.0	0.015
76	46.1	0.021

MILES FROM ANTENNA

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RADIO-TELEVISION
WASHINGTON 4, D. C.

N 53.5° E



GEORGE C. DAVIS

TABULATION OF
FIELD STRENGTH MEASUREMENTS

KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

N 73.5° E

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
2	0.1	525
3	0.15	370
4	0.19	300
5	0.25	250
6	0.30	210
7	0.35	175
8	0.4	138
9	0.44	138
10	0.48	126
11	0.52	110
12	0.56	110
13	0.60	96
14	0.63	86
16	1.07	36
17	1.01	45.5
18	1.25	32
19	1.33	29
20	1.45	32
21	1.53	26
22	1.60	27.8
23	4.5	6.4
24	5.07	4.5
25	4.32	5.5
26	3.35	7.9
29	6.82	2.58
30	7.00	2.14
31	8.16	1.6
32	8.62	1.3

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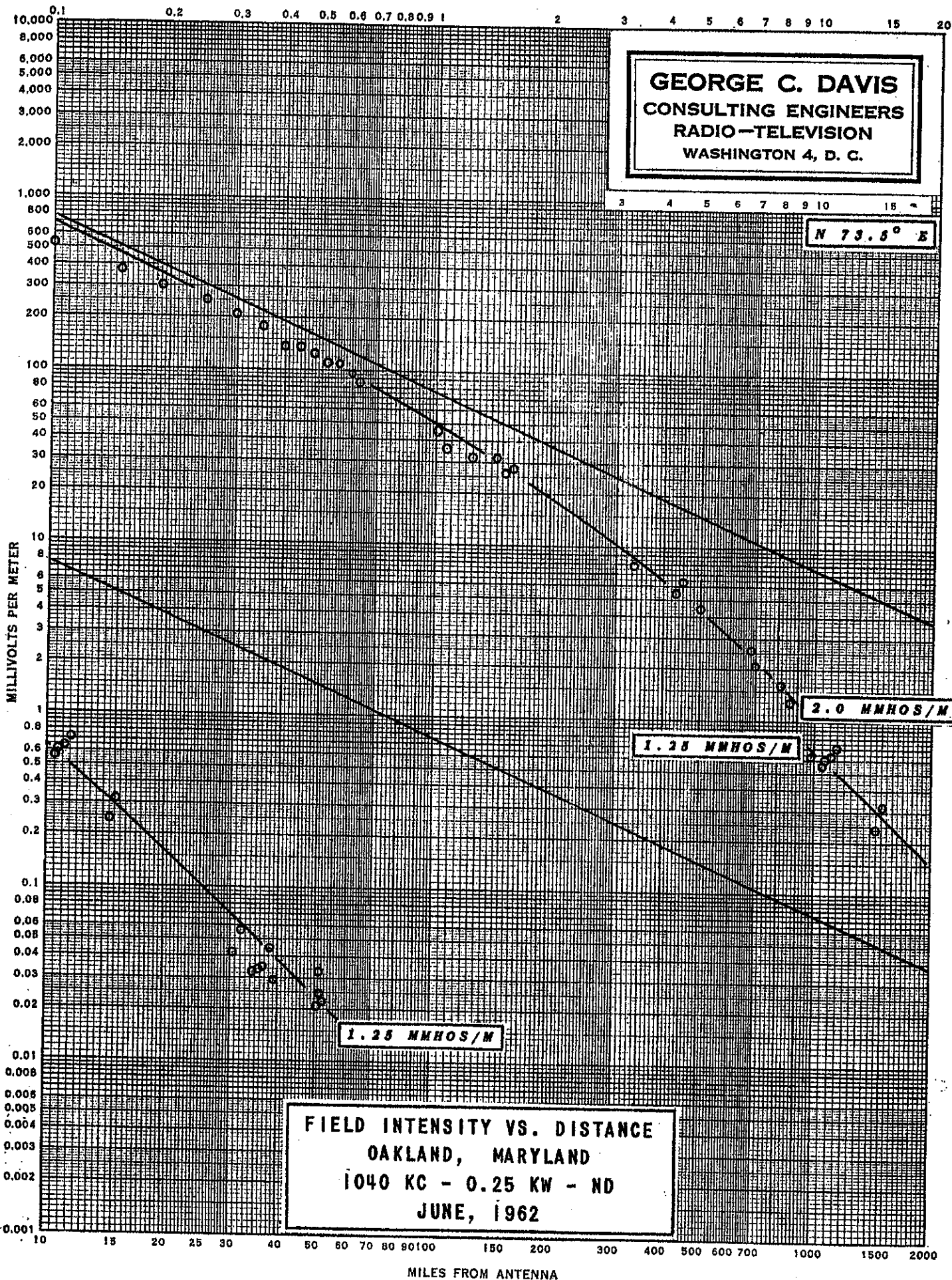
FIELD STRENGTH MEASUREMENTSN 73.5° E
(Continued)

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
33	9.93	0.64
34	10.5	0.56
35	10.65	0.60
36	11.1	0.64
37	11.5	0.71
38	14.6	0.24
39	15.1	0.32
41	30.8	0.042
42	32.1	0.056
43	34.7	0.033
44	35.8	0.034
45	36.9	0.035
46	38.2	0.044
47	39.1	0.029
48	50.3	0.021
49	51.1	0.033
50	51.6	0.024
51	52.3	0.022

MILES FROM ANTENNA

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CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

N 73.5° E



GEORGE C. DAVIS

TABULATION OF
FIELD STRENGTH MEASUREMENTS
KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

N 86° E

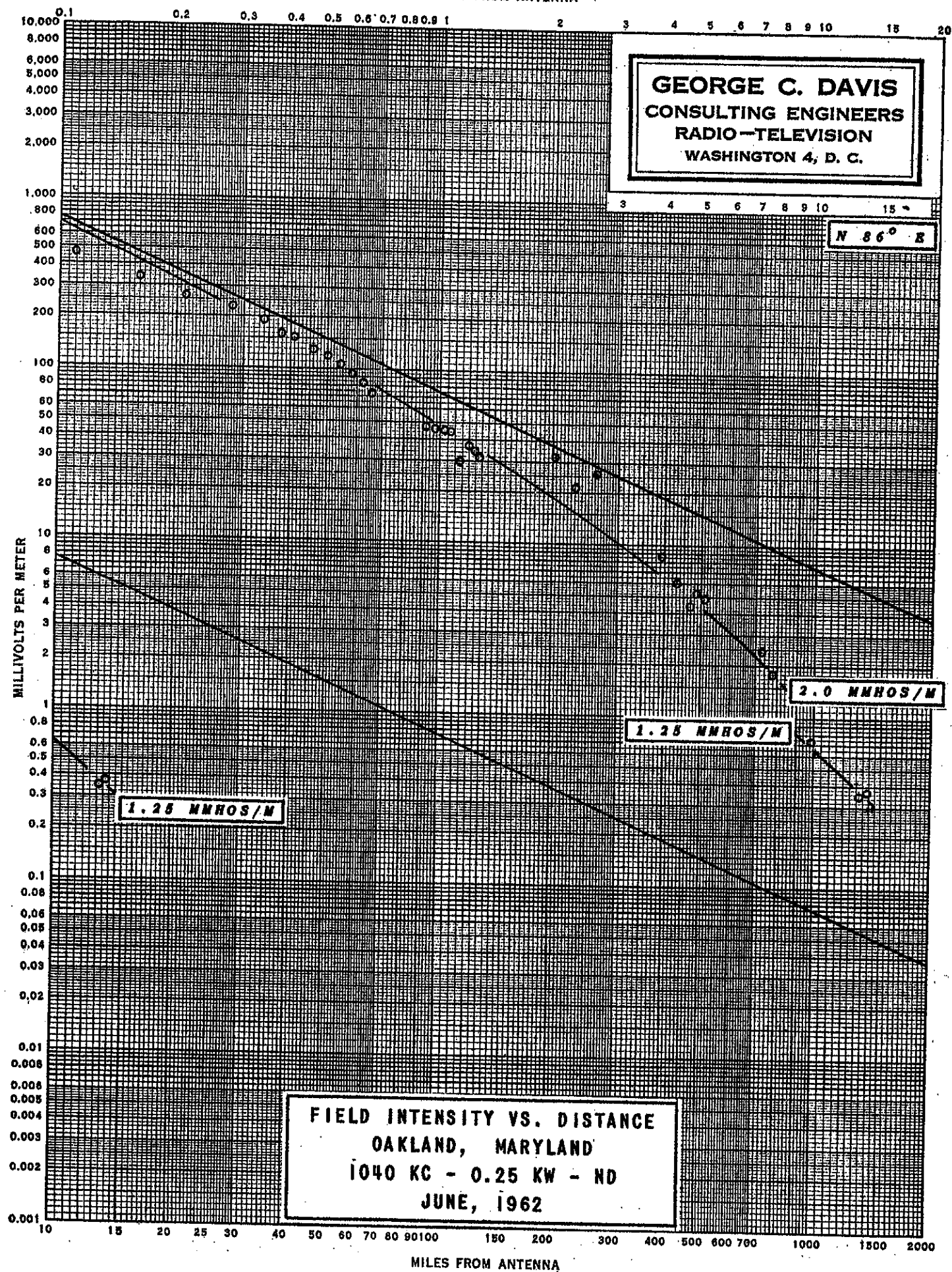
<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
2	0.11	461
3	0.16	338
4	0.21	263
5	0.28	225
6	0.34	193
7	0.38	155
8	0.42	150
9	0.46	129
10	0.50	117
11	0.54	103
12	0.58	92
13	0.62	83.5
14	0.66	74
15	0.92	47
16	0.97	46
17	1.03	45
18	1.08	44
19	1.13	30
20	1.20	36
21	1.24	34
22	1.27	31
23	2.04	32
24	3.93	8.6
25	4.32	6.0
26	4.70	4.4
27	4.90	5.2
28	5.11	4.95
29	13.88	0.37
30	13.20	0.35

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FIELD STRENGTH MEASUREMENTSN 86° E
(Continued)

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
31	9.86	0.73
32	7.32	2.4
33	7.80	1.8
34	2.62	25.5
35	2.30	21

MILES FROM ANTENNA



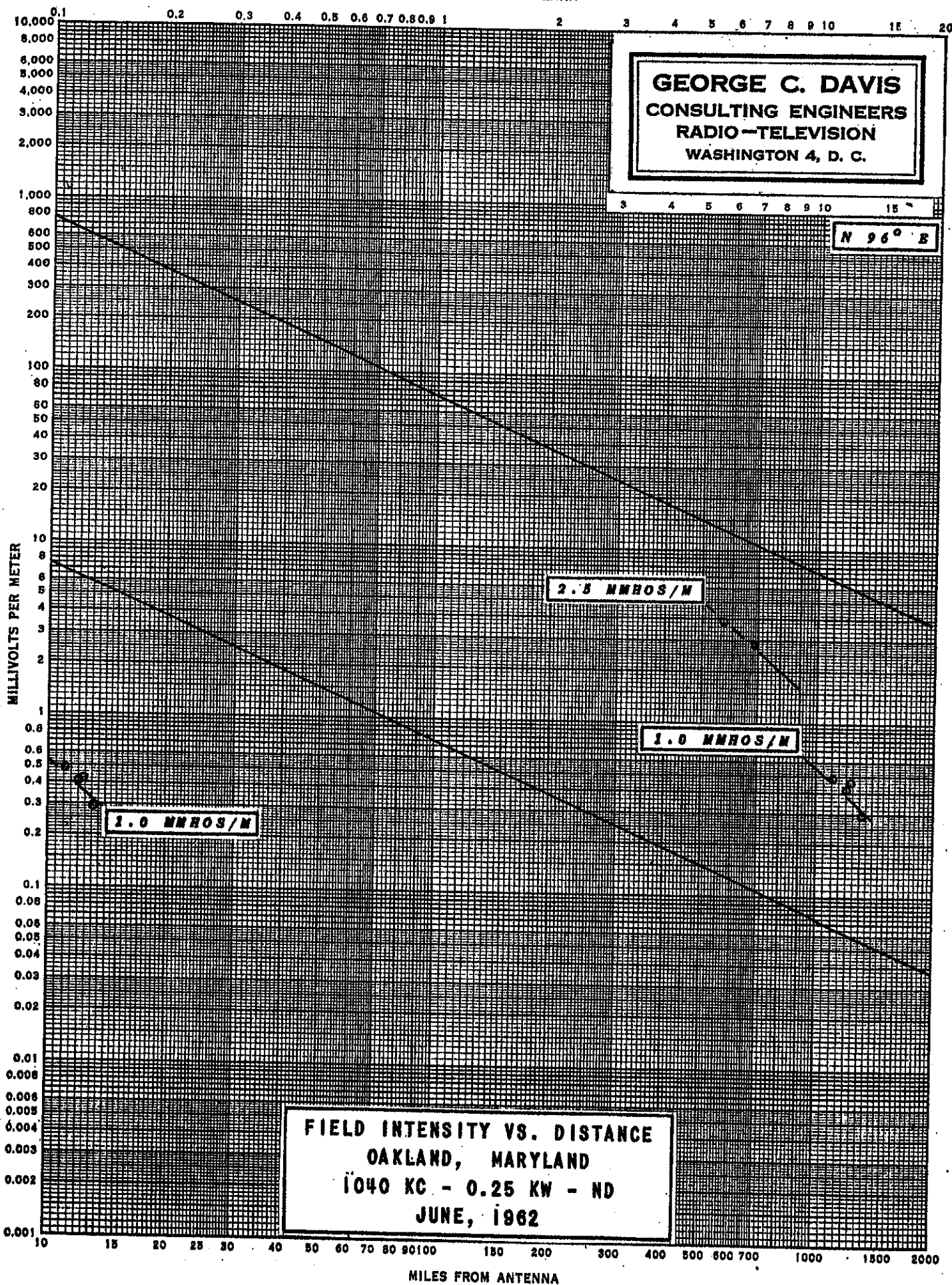
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TABULATION OF
FIELD STRENGTH MEASUREMENTS
KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

N 96° E

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
1	11.12	0.48
2	12.00	0.41
3	12.32	0.45
4	13.02	0.29
5	5.70	3.8
6	6.89	2.8

MILES FROM ANTENNA



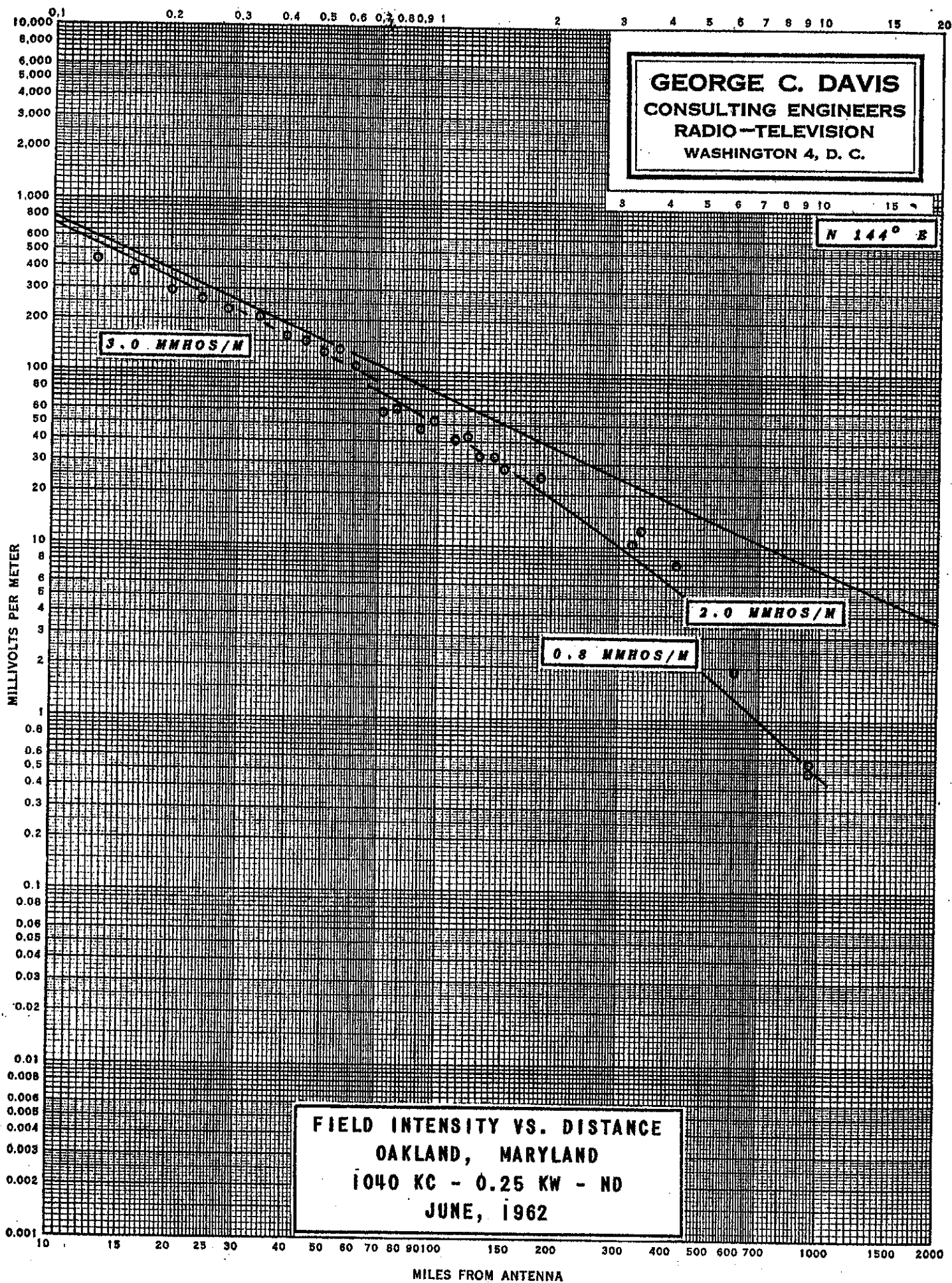
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TABULATION OF
FIELD STRENGTH MEASUREMENTS
KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

N 144° E

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
2	0.13	440
3	0.16	370
4	0.20	290
5	0.24	262
6	0.28	230
7	0.34	210
8	0.40	162
9	0.45	150
10	0.50	129
11	0.55	134
12	0.61	107
13	0.72	58
14	0.78	60
15	0.90	47
16	0.98	52.0
17	1.12	40
18	1.20	42
19	1.29	33
20	1.42	33
21	1.50	28
22	1.88	25.0
23	7.34	2.3
24	9.42	0.56
25	9.48	0.50
26	6.13	1.9
27	4.26	7.9
28	3.43	12.5
29	3.29	10.5

MILES FROM ANTENNA



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TABULATION OF
FIELD STRENGTH MEASUREMENTS
KGI-342 1040 KC
OAKLAND, MARYLAND
MAY 1962

N 345° E

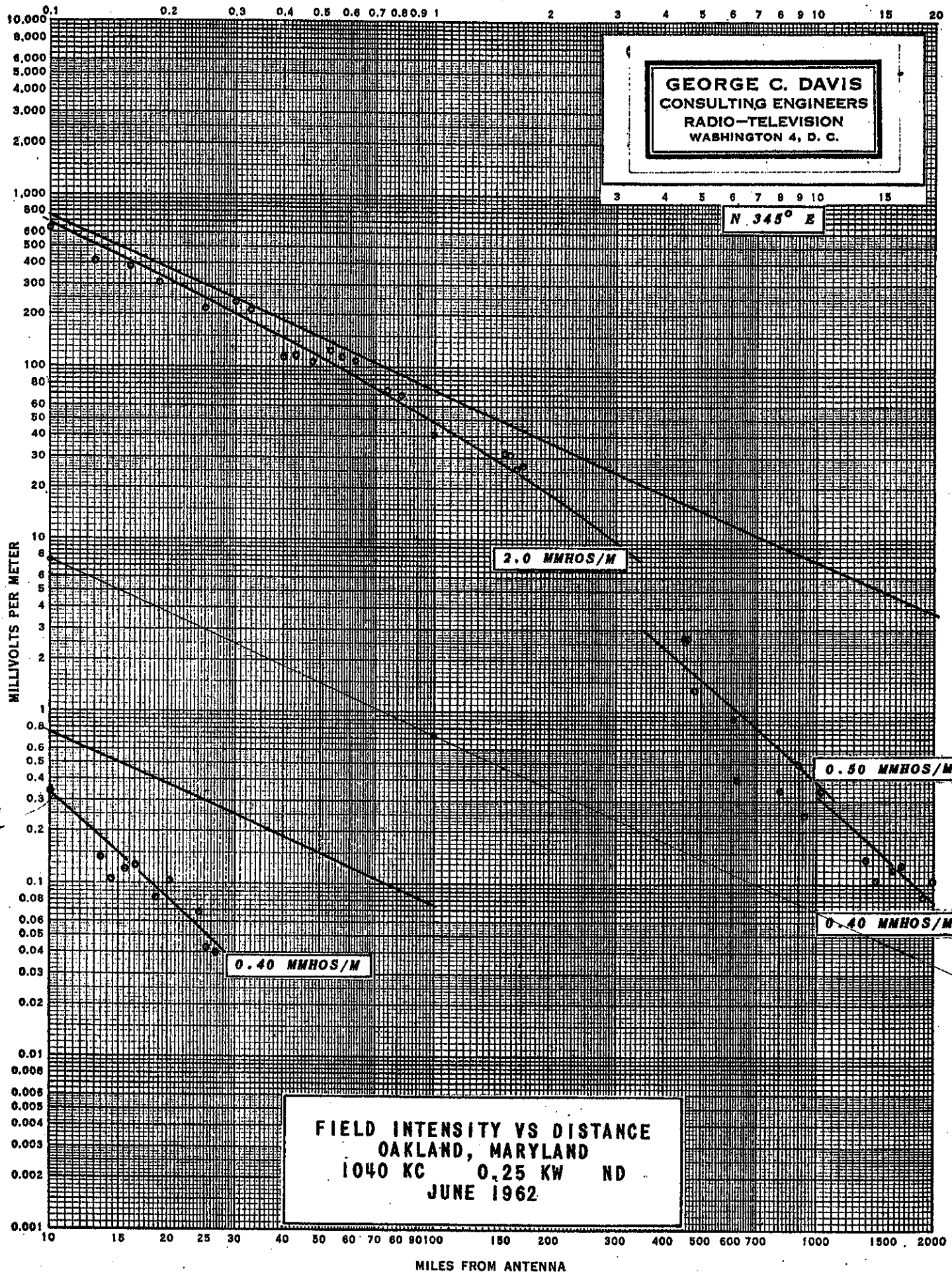
<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
1	0.1	640
2	0.13	408
3	0.16	382
4	0.19	309
5	0.25	216
6	0.30	232
7	0.33	211
8	0.40	113
9	0.43	118
10	0.48	108
11	0.53	124
12	0.57	113
13	0.62	108
14	0.75	74
15	0.82	68
16	0.98	41.2
17	1.53	32
18	1.57	31
19	1.65	26
20	1.71	27
21	4.53	2.65
22	4.56	2.55
23	4.62	2.6
24	4.89	1.35
25	6.1	0.92
26	6.2	0.40
27	8.1	0.35
28	9.0	0.50
29	9.3	0.25
30	10.2	0.34

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FIELD STRENGTH MEASUREMENTSN 345° E
(Continued)

<u>Point Number</u>	<u>Distance</u> Miles	<u>Field Strength</u> mv/m
31	13.4	0.140
32	14.3	0.106
33	15.6	0.122
34	16.6	0.129
35	18.7	0.084
36	20.3	0.104
37	24.1	0.069
38	25.3	0.043
39	26.7	0.040

MILES FROM ANTENNA



N 345° E

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N 36° E

N 53.5° E

N 73.5° E

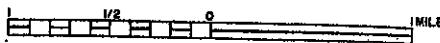
N 86° E

N 96° E

N 144° E

OAKLAND SITE

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962



ROAD CLASSIFICATION
HARD SURFACE ALL GRADE ROADS NEW WATER ROADS
MAINTAINED LADDER LADDER IMPROVED DIRT
STANDARD DIRT "A" DIRT "B" UNIMPROVED DIRT
LADDER SURFACE GRADED OR IMPROVED LADDER SURFACE
U.S. Route State Road

OAKLAND, MD.-W. VA.

COUNTY INTERIOR 20 FEET
MAY 1962

Maped, named, and published by the Geological Survey
Control by 1962 and 1963
This map was made at a scale of 1:50,000 by multiple methods
Control points were taken 1935. Field check 1948
This map was made by the Geological Survey
1:50,000 scale. It is a Maryland coordinate system
and is not to be used for other purposes.
The map was made by the Geological Survey
1:50,000 scale. It is a Maryland coordinate system
and is not to be used for other purposes.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES, AND WATER RESOURCES
JOSEPH T. SINGEWALD, JR., DIRECTOR

DEPARTMENT OF INTERNAL AFFAIRS
WILLIAM S. LIVENGOOD, JR., SECRETARY
TOPOGRAPHIC AND GEOLOGIC SURVEY
STANLEY HOLMAN CATHART, STATE GEOLOGIST

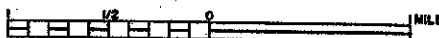
GRANTSVILLE QUADRANGLE
MARYLAND-PENNSYLVANIA
7.5 MINUTE SERIES TOPOGRAPHIC

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RADIO-TELEVISION
WASHINGTON, D. C.

N 36° E

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Mapped, edited, and published by the Geological Survey
Control by USGS
Topography from aerial photography by multiple methods
Aerial photography taken 1946 - Field check 1949
Polyconic projection, 1927 North American datum
10,000-foot grid based on Maryland coordinate system
and Pennsylvania coordinate system, south zone.



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
HARD SURFACE ALL WEATHER ROADS, GRAY WEATHER ROADS
Heavy-duty, CLAYEY LANE Improved dirt
Medium-duty, CLAYEY LANE Unimproved dirt
Loose surface, graded, or narrow hard surface
U.S. Route State Route

GRANTSVILLE, MD.-PA.

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

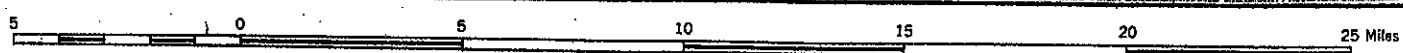
1923

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CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

N 36° E

25
24
26
22
28
23
27

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY 1962



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF PENNSYLVANIA
REPRESENTED BY THE
DEPARTMENT OF INTERNAL AFFAIRS
TOPOGRAPHIC AND GEOLOGIC SURVEY

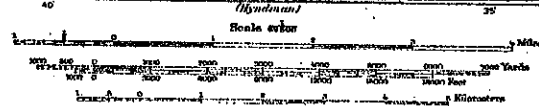
PENNSYLVANIA
BEDFORD QUADRANGLE

GEORGE C. DAVIS
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RADIO-TELEVISION
WASHINGTON 4, D. C.



MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

R. B. Marshall, Chief Geographer,
Frank Sutton, Geographer in charge,
Topographic to J. D. Inman and W. O. Tuffe,
Control by J. T. Hawkins and H. D. Hiltan.
Surveyed in cooperation with the State of Pennsylvania.



Edition of Apr. 1910, reprinted 1947.
Polyconic projection, North American datum.

PA.
BEDFORD

N 43° E

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RADIO-TELEVISION
WASHINGTON 4, D. C.

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

N 53.5° E

Topographic Map
Prepared under the direction of the Chief of Engineers, U. S. Army, by the
Army Map Service, Kansas City, Mo., 1962.
Based on U. S. G. S. Quadrangle, Hyndman, 1:62,500 (1951).
Vertical control by U. S. Geological Survey
Horizontal control by U. S. Geological Survey in cooperation with
Pennsylvania Railroad, Baltimore and Ohio Railroad, and the
State of Pennsylvania, 1957.
Derived from single lens vertical aerial photographs,
Aerial Photography, A. A. C. Department of Agriculture, 1958.
Photocopy Projection, North American Datum
ROAD CLASSIFICATION 1962

Scale 1:62,500
1 inch = 1 mile
1 centimeter = 4000 feet
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

LEGEND
DRAIN

THIS MAP WAS PREPARED FROM AERIAL PHOTOGRAPHS TAKEN IN 1958 AND 1959. IT IS A REPRODUCTION OF THE ORIGINAL MAP AND DOES NOT CONTAIN ANY NEW INFORMATION. IT IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS PREPARED.

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STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES, AND WATER RESOURCES
JOSEPH T. SINGEWALD, JR., DIRECTOR
(GRANTSVILLE)

BITTINGER QUADRANGLE
MARYLAND-GARRETT CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

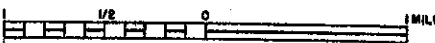
N 36° E

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON, D. C.

N 53.5° E

**MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962**

Mapped, edited, and published by the Geological Survey
Control by USGS and USCAOS
Topography from aerial photographs by analog methods
Aerial photographic taken 1964. Field check, 1967
Photonic projection. 1927 North American datum
10,000-foot grid based on Maryland coordinate system
Extent of state forest areas uncertain



CONTOUR INTERVAL 20 FEET
DATUM - MEAN SEA LEVEL

ROAD CLASSIFICATION
HARD SURFACE ALL WEATHER ROADS GRAY WEATHER ROADS
Heavy-duty, ———, GRADE-IMPROVED Improved dirt, ———
Medium-duty, ———, GRADE-IMPROVED Unimproved dirt, ———
Loose-surface, gravel, or narrow hard-surface, ———
U. S. Route State Road

N 53.5° E

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Map and edited, and published by the Geological Survey
Control by U.S.G.S.
Topography from aerial photographs, by map-plotting methods
Aerial photographs from 1948, 1954, 1955, 1956, 1957
Photographic projection, 1957 North American datum
20,000 feet per inch on map and geodetic datum
Extent of state forest and private



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
HARD-SURFACE ALL-WEATHER ROADS DRY WEATHER ROADS
Heavy duty — CASUAL ACCESS Improved dirt
Medium-duty — CASUAL ACCESS Unimproved dirt
Loose-surface, gravel, or narrow hard-surface
U. S. Route State Route

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGIC

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES,
AND WATER RESOURCES
JOSEPH T. SINGEWALD, JR., DIRECTOR

STATE OF PENNSYLVANIA
DEPARTMENT OF INTERNAL AFFAIRS
WILLIAM S. LIVENGOOD, JR., SECRETARY
TOPOGRAPHIC AND GEOLOGIC SURVEY
STANLEY HOLMAN CATHCART, STATE GEOLOGIST

AVILTON QUADRANGLE
MARYLAND-PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

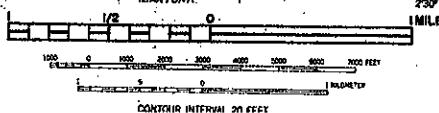
N 36° E

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

**MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962**

N 53.5° E

Maped, edited, and published by the Geological Survey
Control by USGS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1948. Field check, 1947
Polyconic projection, 1927 North American datum
10,000-foot grid based on Maryland coordinate system
and Pennsylvania coordinate system, south zone
Extent of state forest lands shown in



ROAD CLASSIFICATION
HARD-SURFACED ALL WEATHER ROADS DRY WEATHER ROADS
Heavy-duty, 12' to 14' Improved dirt
Medium-duty, 12' to 14' Unimproved dirt
Loose surface, gravel, or narrow hard-surface
U. S. Route State Route

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES, AND WATER RESOURCES
JOSEPH T. SINGEWALD, JR., DIRECTOR

STATE OF PENNSYLVANIA
DEPARTMENT OF INTERNAL AFFAIRS
TOPOGRAPHIC AND GEOLOGIC SURVEY

FROSTBURG QUADRANGLE
MARYLAND-PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
BWN FROSTBURG 15' QUADRANGLE
1:250,000 FEET (1:50,000)

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

0 1 2 3 4 5 6 7 8 9 10 MILE

ROAD CLASSIFICATION
Heavy-duty 4 LANE ROAD
Medium-duty 2 LANE ROAD
Light duty 2 LANE ROAD
Unimproved dirt
U.S. Route State Route

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Map prepared, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1946. Field check 1947 and 1949
Polyconic projection. 1927 North American datum
10,000 foot grid based on Maryland coordinate system
and Pennsylvania coordinate system, both zone
Grid not indicates area in which only
road and bridges are shown

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES, AND WATER RESOURCES
JOSEPH T. SINGEWALD, JR., DIRECTOR

DEER PARK QUADRANGLE
MARYLAND-GARRETT CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
LAND IN QUADRANGLE
1000 FEET

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

N 36° E

N 53.5° E

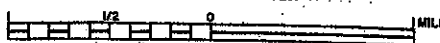
N 73.5° E

N 86° E

N 96° E

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Mapped, edited, and published by the Geological Survey
Control by USGS and USCGS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1946. Field check 1948
Polyconic projection, 1927 North American datum
10,000-foot grid based on Maryland coordinate system
Graticule of state forest areas uncertain



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
HARD-SURFACE ALL WEATHER ROADS DRY WEATHER ROADS
Heavy-duty ———— Improved dirt ————
Medium-duty ———— Unimproved dirt ————
Loose-surface, graded, or narrow hard-surface ————
U. S. Route State Route

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

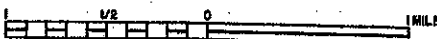
CRESAPTOWN QUADRANGLE
WEST VIRGINIA-MARYLAND
7.5 MINUTE SERIES (TOPOGRAPHIC)
NEW PROJECTION IS QUADRANGLE

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

N 73.5° E

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Mapped, edited, and published by the Geological Survey
Control by USGS and USCGS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1947. Field check 1949
Polyconic projection. 1927 North American datum
10,000-foot grid based on Maryland coordinate system
and West Virginia coordinate system, north zone
Red dot indicates area in which only
landmark buildings are shown



CONTOUR INTERVAL, 20 FEET
GAYOR IS MEAN SEA LEVEL

ROAD CLASSIFICATION
HARD-SURFACE ALL WEATHER ROADS DRY WEATHER ROADS
Heavy-duty GRADE-JACKED Improved dirt
Medium-duty GRADE-JACKED Unimproved dirt
Local-area, gravel, or narrow hard-surface
U. S. Route State Route

CRESAPTOWN, W. VA.-MD.
NEW PROJECTION IS QUADRANGLE

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.



MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Map prepared and published by the Geological Survey
under contract to the U.S. Army Corps of Engineers
by the U.S. Army Corps of Engineers, Fort Belvoir, MO
under contract to the U.S. Army Corps of Engineers
under contract to the U.S. Army Corps of Engineers
under contract to the U.S. Army Corps of Engineers

1/2 0 MILE

CONTOUR INTERVAL 20 FEET
BASED ON MEAN SEA LEVEL

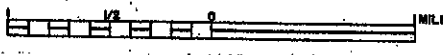
ROAD CLASSIFICATION
Heavy duty 1:100,000 Light duty 1:250,000
Medium duty 1:500,000 Unimproved dirt
U.S. Route Side Road

PATTERSONS CREEK, MD-W. VA.
SWN PLATYONE 17 QUADRANGLE
N 1950-197000 S 1117

N 345° E

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RADIO-TELEVISION
WASHINGTON, D. C.

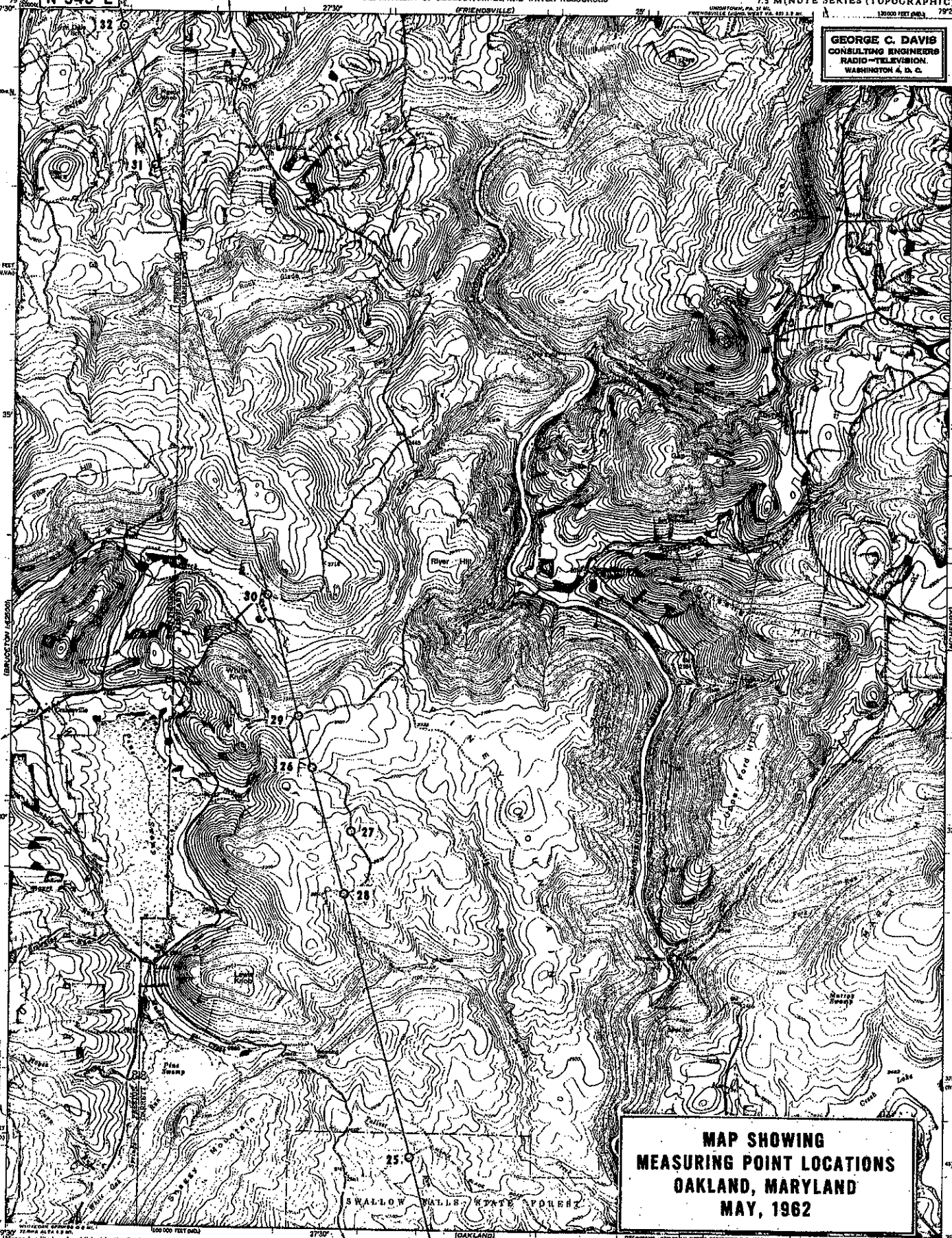
MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



SANG RUN, MD. - W. VA.



Maped, edited, and published by the Geological Survey
Control by USGS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1946. Field check 1947
Polyconic projection. 1927 North American datum
10,000 foot grid based on Maryland coordinate system,
and West Virginia coordinate system, north zone
Extent of state forest areas uncertain
Vertical datum: Universal Transverse Mercator (UTM) zone 18N

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES, AND WATER RESOURCES
JOSEPH T. SINGEWALD, JR., DIRECTOR

GORMAN QUADRANGLE
MARYLAND-WEST VIRGINIA
7.5 MINUTE SERIES TOPOGRAPHIC
SUN OAKLAND 14 QUADRANGLE

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON & D. C.



MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Map compiled, edited, and published by the Geological Survey
Control by USGS and USACAGS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1946. Field check 1948 and 1949
Polyconic projection. 1927 North American datum
10,000-foot grid based on Maryland coordinate system
and West Virginia coordinate system, north zone

1/2 0 1 MILE

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
HARD SURFACE ALL WEATHER ROADS DRY WEATHER ROADS
Heavy duty _____ GRAVEL GRADES Improved dirt _____
Medium duty _____ GRAVEL GRADES Unimproved dirt _____
Loose surface, graded, or narrow hard surface _____
U. S. Route _____ State Route _____

GORMAN, MD.-W. VA.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REPRESENTED BY THE
STATE OF WEST VIRGINIA GEOLOGICAL SURVEY
AND OTHER STATE AGENCIES

BRANDONVILLE QUADRANGLE
WEST VIRGINIA-PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

N 345° E

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.



MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Maped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1957. Field check 1958
Polyconic projection. 1927 North American datum
30,000 foot grid based on West Virginia coordinate system,
south zone, and Pennsylvania coordinate system, south zone
1900-meter Universal Transverse Mercator grid Sides,
zone 17. Shown in blue
Fire red dashed lines indicate selected areas and field lines
in the aerial photographs. This information is unclassified



ROAD CLASSIFICATION
Medium duty Light duty
Unimproved dirt
State Route

BRANDONVILLE, W. VA.-PA.
N3537.5-W79307.5

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

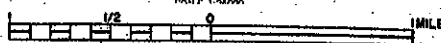
N 73.5°

N 86° E

N 96° E

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

Maped, edited, and published by the Geological Survey
Control by USGS and USCGS
Topography from aerial photographs by multiple methods
Aerial photographs taken 1946. Field check 1948
Polyconic projection, 1527 North American datum
1000-foot grid based on Maryland coordinate system, and
West Virginia coordinate system, north zone
Extent of state forest areas uncertain



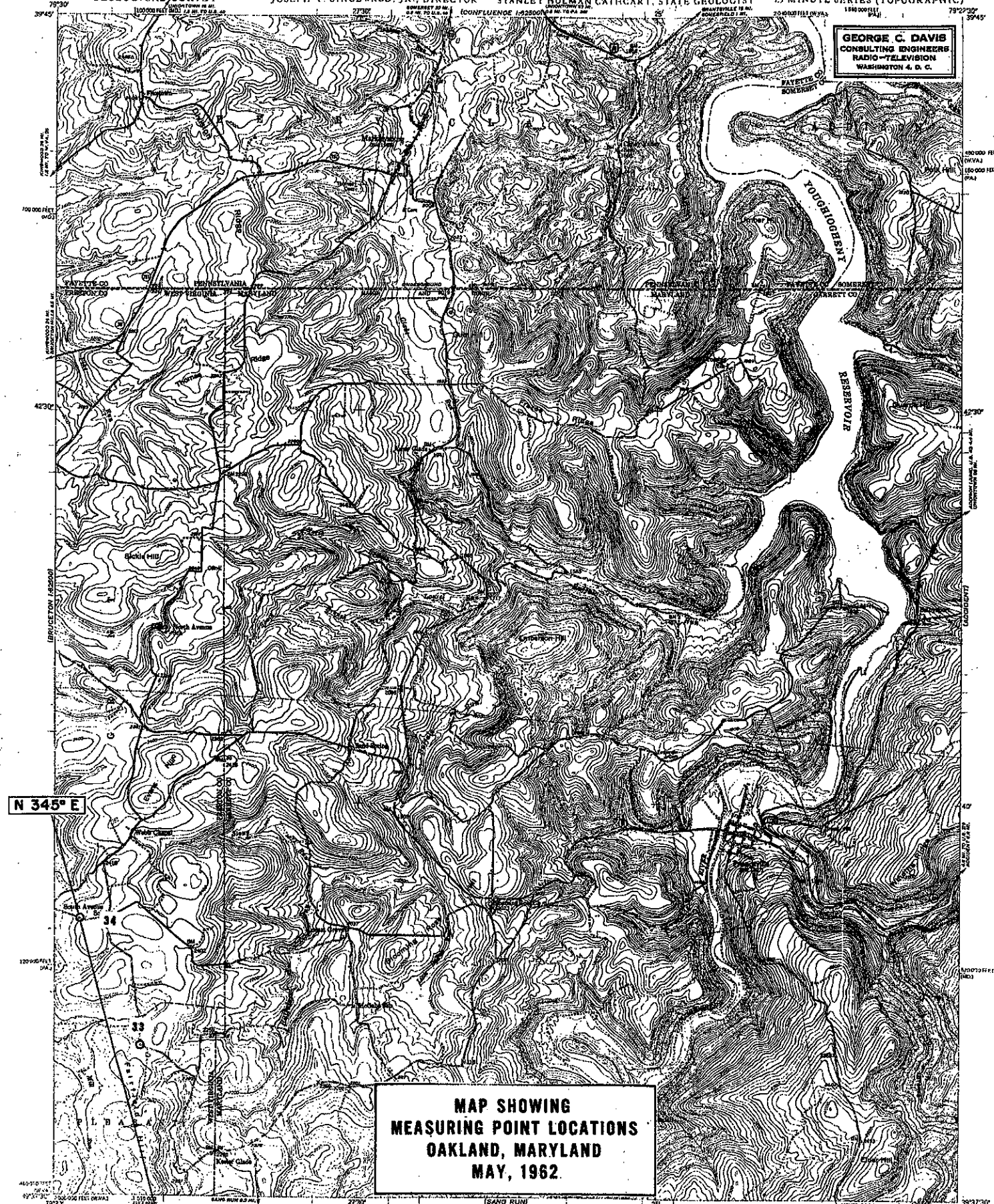
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
HARD-GRAD ALL WEATHER ROADS DRY WEATHER ROADS
Heavy-duty ———— 4445555555 Improved dirt
Medium-duty ———— 4444444444 Unimproved dirt
Loose-surface, graded, or narrow hard-surface ————
U. S. Route ———— State Route ————

KITZMILLER, MD.-W. VA.
NW 1/4 BLK GARDEN 18" QUADRANGLE

FRIENDSVILLE QUADRANGLE
MARYLAND-PENNSYLVANIA-
WEST VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

GEORGE C. DAVIS
CONSULTING ENGINEER
RADIO-TELEVISION
WASHINGTON 4, D. C.



MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962.

Manuscript received, and published by the Geological Survey
 Catalog by USGS, USC&GS, and USF&I
 Topography from aerial photographs by multiple methods
 Aerial photographs taken 1945. Fold date 1947
 Principal projection, 1927 North American datum
 -0.0001-foot grid based on the North American datum
 Five-figure UTM coordinate system, south zone
 Virgiliana coordinate system, north zone
 Some halting incursions areas subject to controlled inundation
 Normal pool elevation 1439 feet. Spillway elevation 1468 feet

ROAD CLASSIFICATION

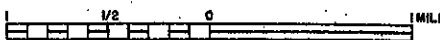
HARD-SURFACE ALL WEATHER ROADS		DRY WEATHER ROADS	
Heavy-duty.....	4666166666	Improved dirt.....
Medium-duty.....	466616 4666	Unimproved dirt.....
Loose-surface, graded, or narrow hard-surface.....		

☐ U. S. Route ☐ State Route

FRIENDSVILLE, MD.-PA.-W.VA.
 40075 W00236 "6

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962



ROAD CLASSIFICATION
HARD-SURFACE ALL WEATHER ROADS IMPROVED DIRT
Heavy-duty ———— 14" MIN. 14" IMPROVED DIRT
Medium-duty ———— 12" MIN. 12" IMPROVED DIRT
Low-duty ———— 10" MIN. 10" IMPROVED DIRT
Gravel Roads
Dirt Roads

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF PENNSYLVANIA
REPRESENTED BY THE
DEPARTMENT OF INTERNAL AFFAIRS
TOPOGRAPHIC AND GEOLOGIC SURVEY

PENNSYLVANIA
(FAVETTE COUNTY)
UNIONTOWN QUADRANGLE
1:100,000 FEET

GEORGE C. DAVIS
CONSULTING ENGINEERS
RADIO-TELEVISION
WASHINGTON 4, D. C.

MAP SHOWING
MEASURING POINT LOCATIONS
OAKLAND, MARYLAND
MAY, 1962

N 345° E

39

38

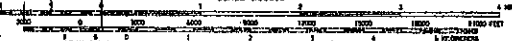
37

Topography by Frank Sutton, R.D. Cummin, and H.G. Friok Coke Company
Surveyed in 1956 in cooperation with the State of Pennsylvania
Contours revised 1931 by J.H. White and C.S. Wells

ROAD CLASSIFICATION

Heavy-duty ———— Light-duty ————
Medium-duty ———— Unimproved dirt ————

SCALE 1:62,500



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Polynomial projection, 1927 North American datum
10,000-foot grid based on Pennsylvania (Geodetic)
rectangular coordinate system
1000-meter Universal Transverse Mercator grid ticks,
zone 17, shown in blue

UNIONTOWN, PA.