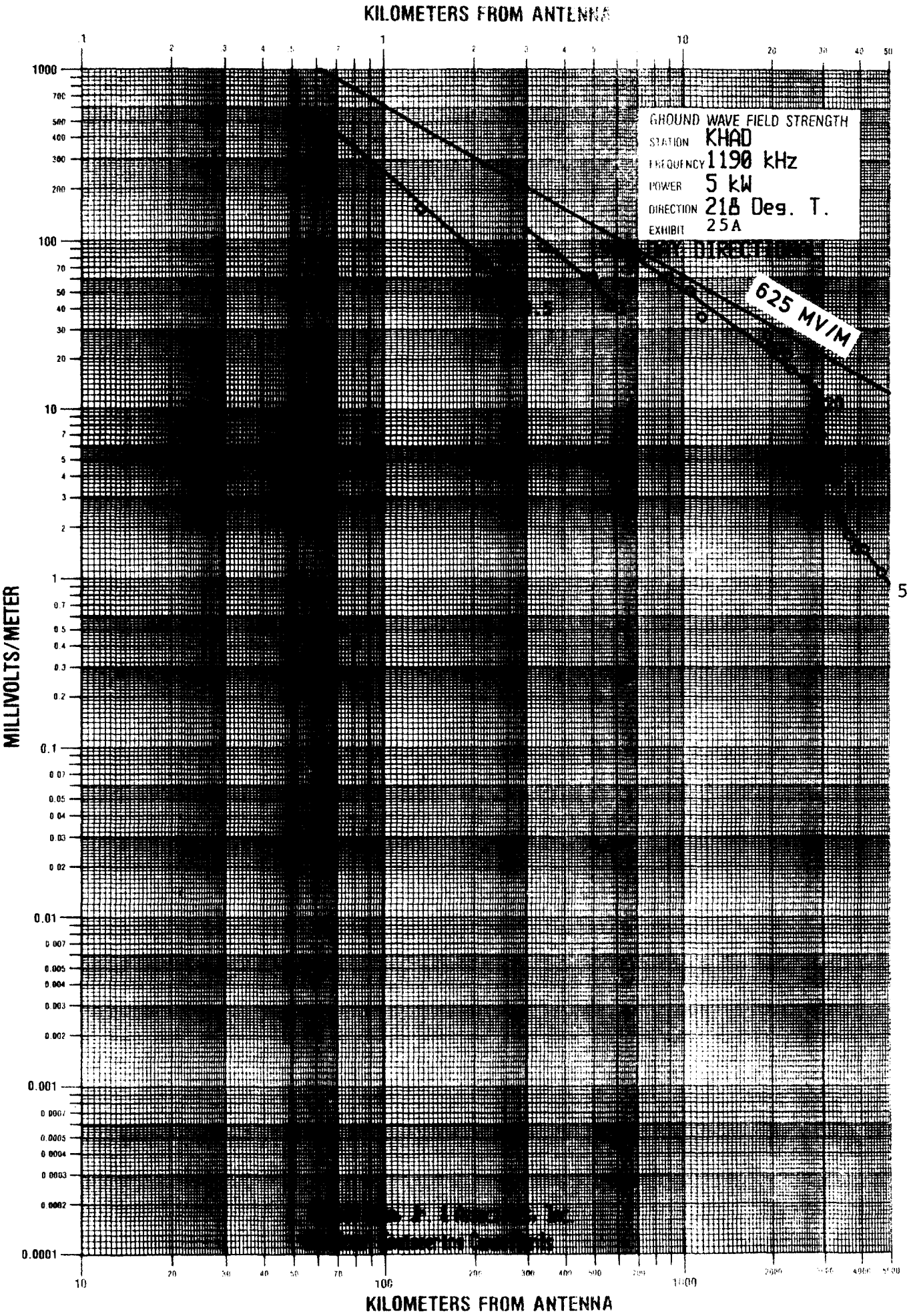
FIGURE 25
TABULATION OF FIELD STRENGTH MEASUREMENTS

STATION : KHAD
FREQUENCY: 1190 KHZ
BEARING : 218 DEGREES TRUE

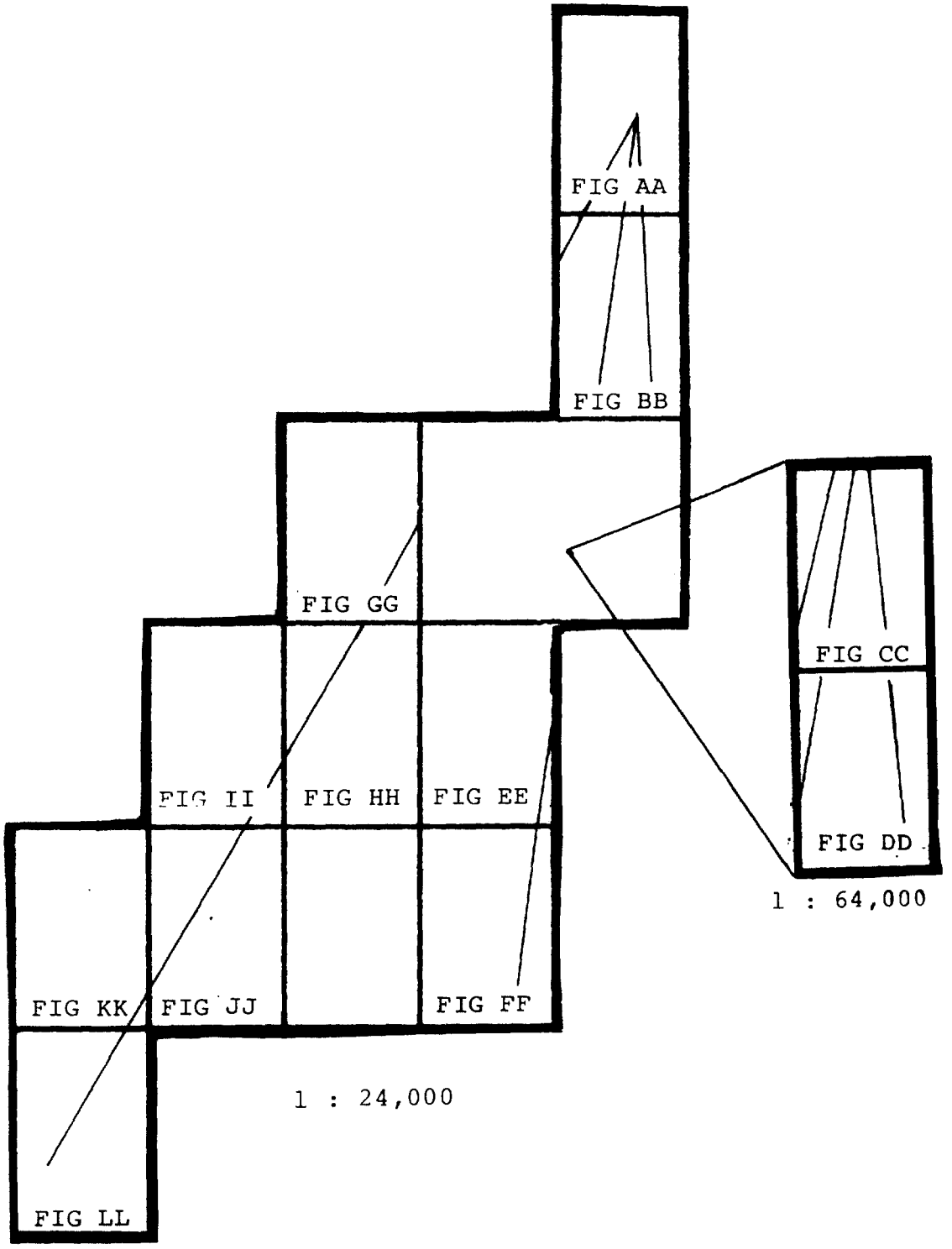
POINT	1986 DA-D			*DISTANCE *
* *** *	MV/M	TIME	DATE	* KM *
1	480.000	0900	11-14-86	0.61
2	150.000	0916	11-14-86	1.32
3	70.000	0920	11-14-86	2.04
4	60.000	0940	11-14-86	2.51
5	90.000	0943	11-14-86	3.40
6	60.000	1011	11-14-86	4.96
7	40.000	1014	11-14-86	5.70
8	80.000	1040	11-14-86	6.94
9	80.000	1043	11-14-86	7.24
10	60.000	1115	11-14-86	8.98
11	50.000	1120	11-14-86	10.61
12	35.000	1123	11-14-86	11.65
13	27.000	1140	11-14-86	19.55
14	23.000	1142	11-14-86	20.00
15	23.000	1145	11-14-86	21.24
16	21.000	1150	11-14-86	23.01
17	17.000	1153	11-14-86	23.66
18	15.000	1200	11-14-86	26.55
19	11.000	1204	11-14-86	28.97
20	7.000	1210	11-14-86	29.89
21	4.000	1214	11-14-86	31.35
22	3.800	1218	11-14-86	34.17
23	2.300	1223	11-14-86	35.29
24	1.800	1227	11-14-86	37.82
25	1.500	1231	11-14-86	39.82
26	1.500	1234	11-14-86	42.21
27	1.100	1240	11-14-86	48.12
28	0.900	1243	11-14-86	50.86
29	0.800	1249	11-14-86	55.52
30	0.750	1254	11-14-86	57.78
31	0.540	1302	11-14-86	62.12
32	0.540	1315	11-14-86	64.86
33	0.520	1325	11-14-86	69.68
34	0.500	1338	11-14-86	73.39
35	0.270	1345	11-14-86	75.48
36	0.260	1350	11-14-86	80.90


KILOMETERS FROM ANTENNA
GROUND WAVE FIELD STRENGTH
STATION KHAD
FREQUENCY 1190 kHz
POWER 5 kW
DIRECTION 218 Deg. T.
EXHIBIT 25A
625 MV/M
MILLIVOLTS/METER
KILOMETERS FROM ANTENNA

5

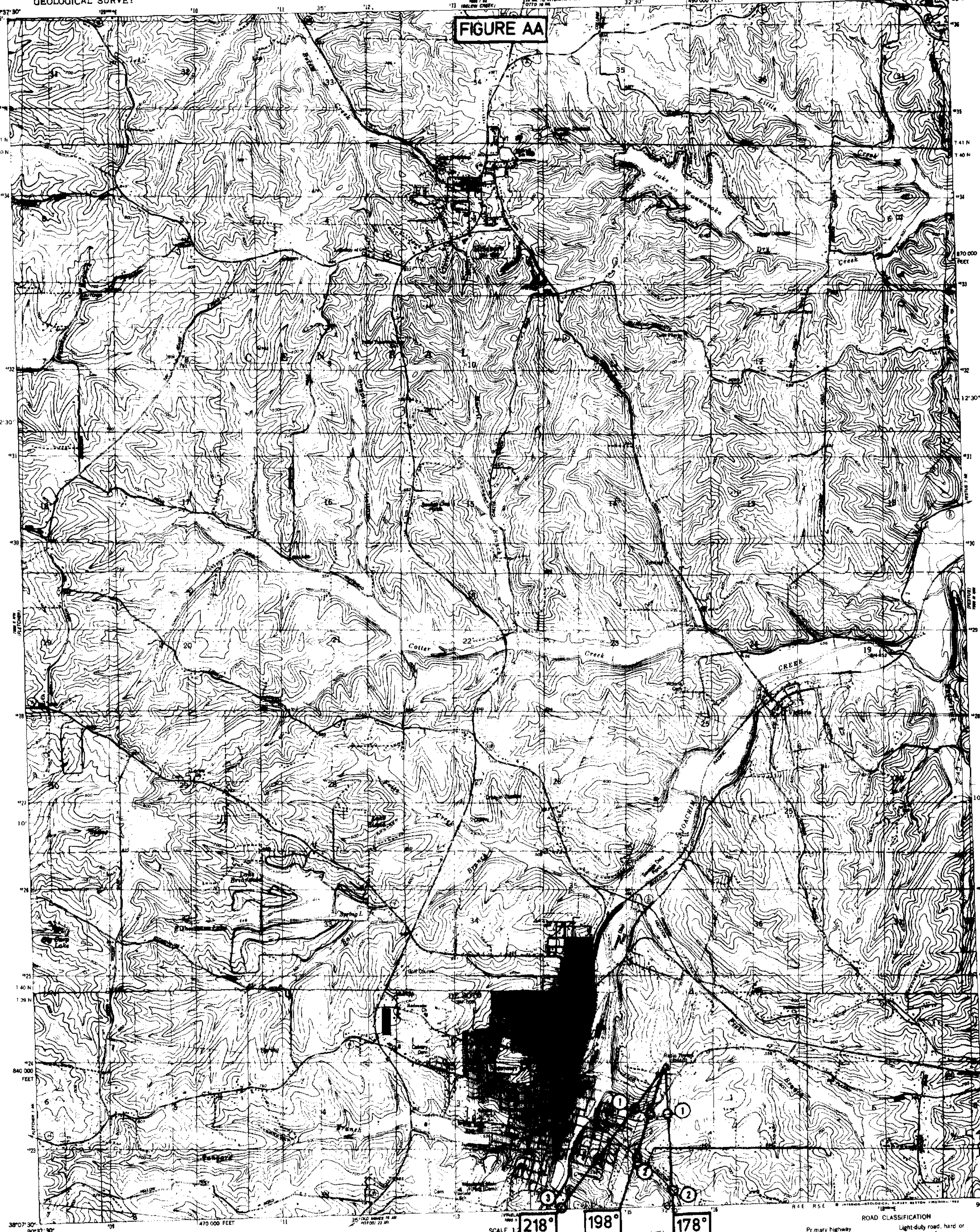
FIGURE 26

KEY TO TOPOGRAPHICAL MAPS



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DE SOTO QUADRANGLE
MISSOURI–JEFFERSON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1976. Field checked 1977. Map edited 1981

Superseries map dated 1960

Projection and 10,000-foot grid ticks: Missouri coordinate system, east zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid, zone 15
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 2 meters south and 10 meters east as shown by dashed corner ticks

Red tint indicates areas in which only landmark buildings are shown

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND THE DIVISION OF GEOLOGY AND LAND SURVEY
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

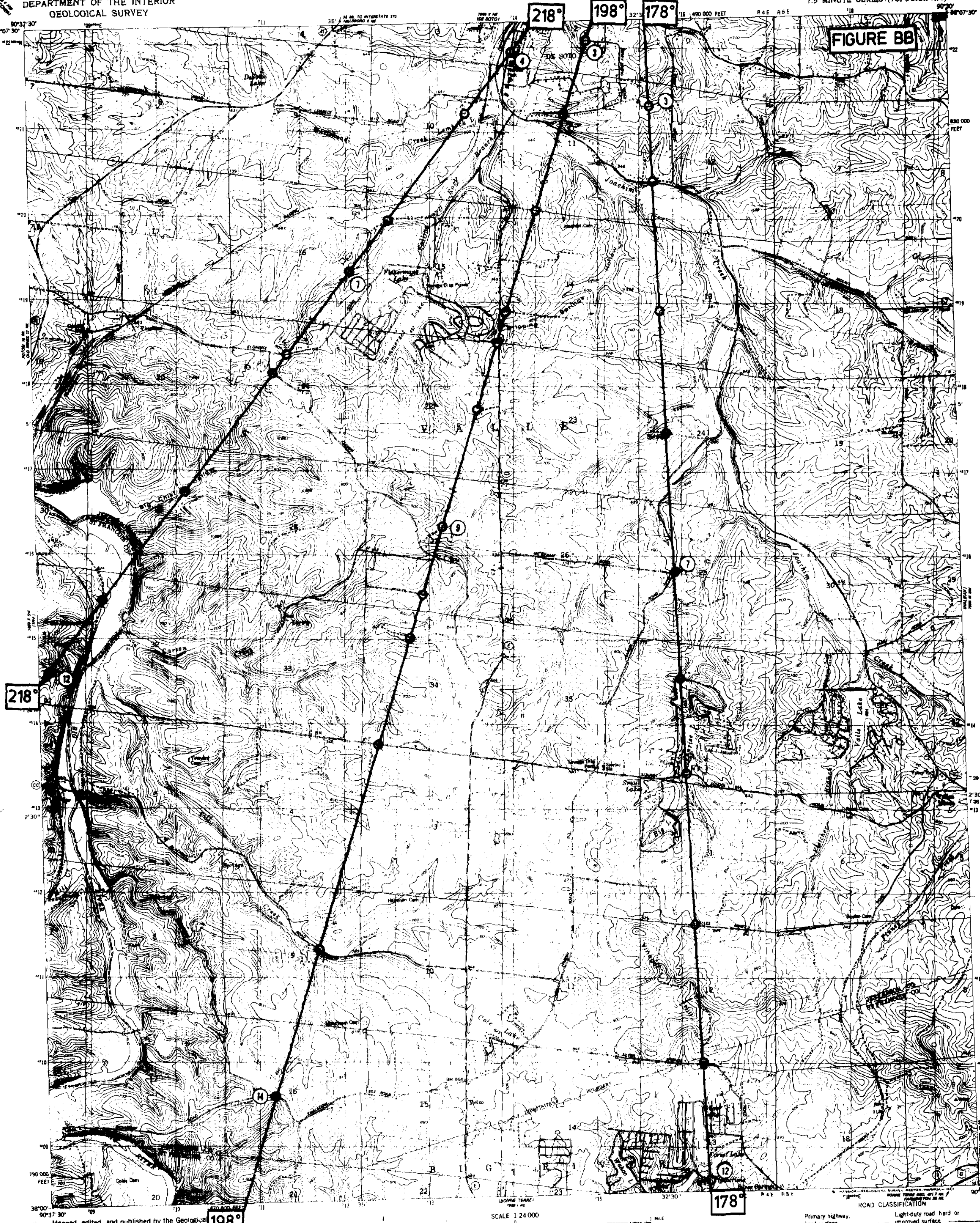
DE SOTO, MO.
N3807.5—W9030/7.5

1981

DMA 7660 II NE—SERIES V879

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

VINELAND QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1976. Field checked 1977 Map edited 1981
Supersedes map dated 1960

Projection and 10,000-foot grid ticks: Missouri coordinate system, east zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid, zone 15
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 2 meters south and 10 meters east as shown by dashed corner ticks

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092,
AND THE DIVISION OF GEOLOGY AND LAND SURVEY
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

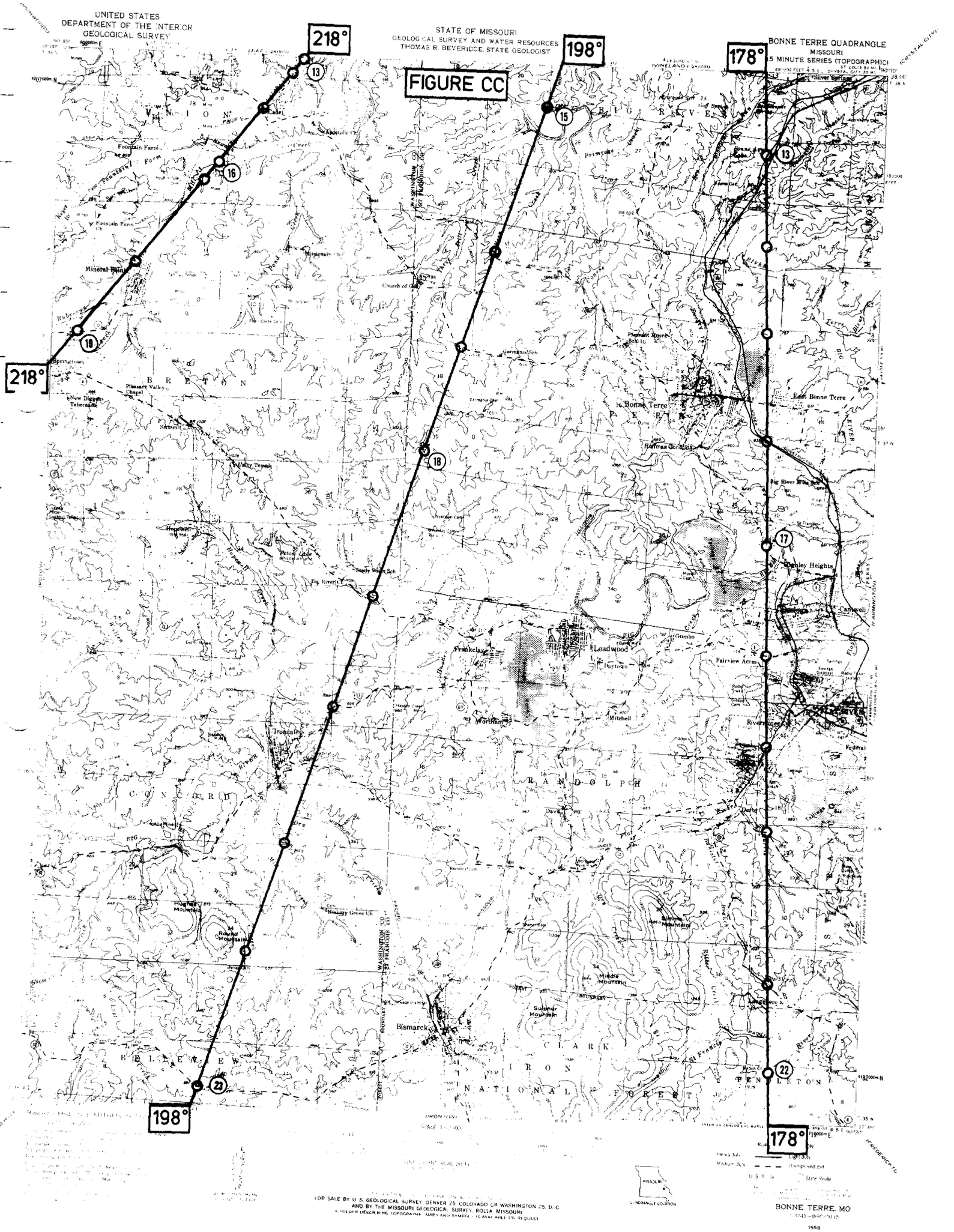
ROAD CLASSIFICATION

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

VINELAND, MO.
N3800—W9030/7.5

1981

DMA 7860 II SE—SERIES V879


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
THOMAS R. BEVERIDGE, STATE GEOLOGIST
FIGURE CC
BONNE TERRE QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)
218°
198°
178°
218°
198°
178°
13
15
13
16
18
18
17
22
23
Mineral Point
Springtown
Bonne Terre
East Bonne Terre
Leadwood
Frankclay
Fairview Acres
Mitchell
Irondale
Bismarck
Cadwell
Federal
Big River
Pleasant Valley Chapel
Fountain Farm
Church of God
Germania Sch
Hogwallow
Big River Sch
Shelly Point Sch
Gumbo
Middle Mountain
Sugarloaf Mountain
Rocky Mountain
Huckleberry Mountain
History Grove Ch
Pleasant Mount Sch
Hartman Cemetery
Dunley Heights
Valley Temple
Nahmmit
New Diggings Tabernacle
Fountain Farm
Mineral Point
Primrose
Big River Mine Sch
Gumbo
Mortimer
Riverview
Silver Springs
Vineland
VERNON
BARTON
BELLEVIEW
CONCORD
RANDOLPH
CLARK
IRON
PENLETON
PERRY
NATIONAL FOREST
BIG RIVER
ST. FRANCOIS
WASHINGTON CO.
ST. FRANCOIS CO.
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
AND BY THE MISSOURI GEOLOGICAL SURVEY, ROLLA, MISSOURI
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
BONNE TERRE, MO
1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI

MISSOURI
N QUADRANGLE
MINUTE SERIES

198°

178°

FIGURE DD

St Francis River

Dog Run

Iron Mountain

Bellevue

Granite

Ironton

Arcadia

Flatrock

198°

178°

Mapped by the Geological Survey
1936, 1937 and 1945

SCALE 1:62500

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1945 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

ROAD CLASSIFICATION
1945
Medium-duty — Light-duty
Unimproved dirt
State Route

Polyconic projection. 1927 North American datum
10000 foot grid based on Missouri East
rectangular coordinate system
1000 meter Universal Transverse Mercator grid ticks,
zone 15, shown in blue

IRONTON, MO.

N3730—W9030/15

1945

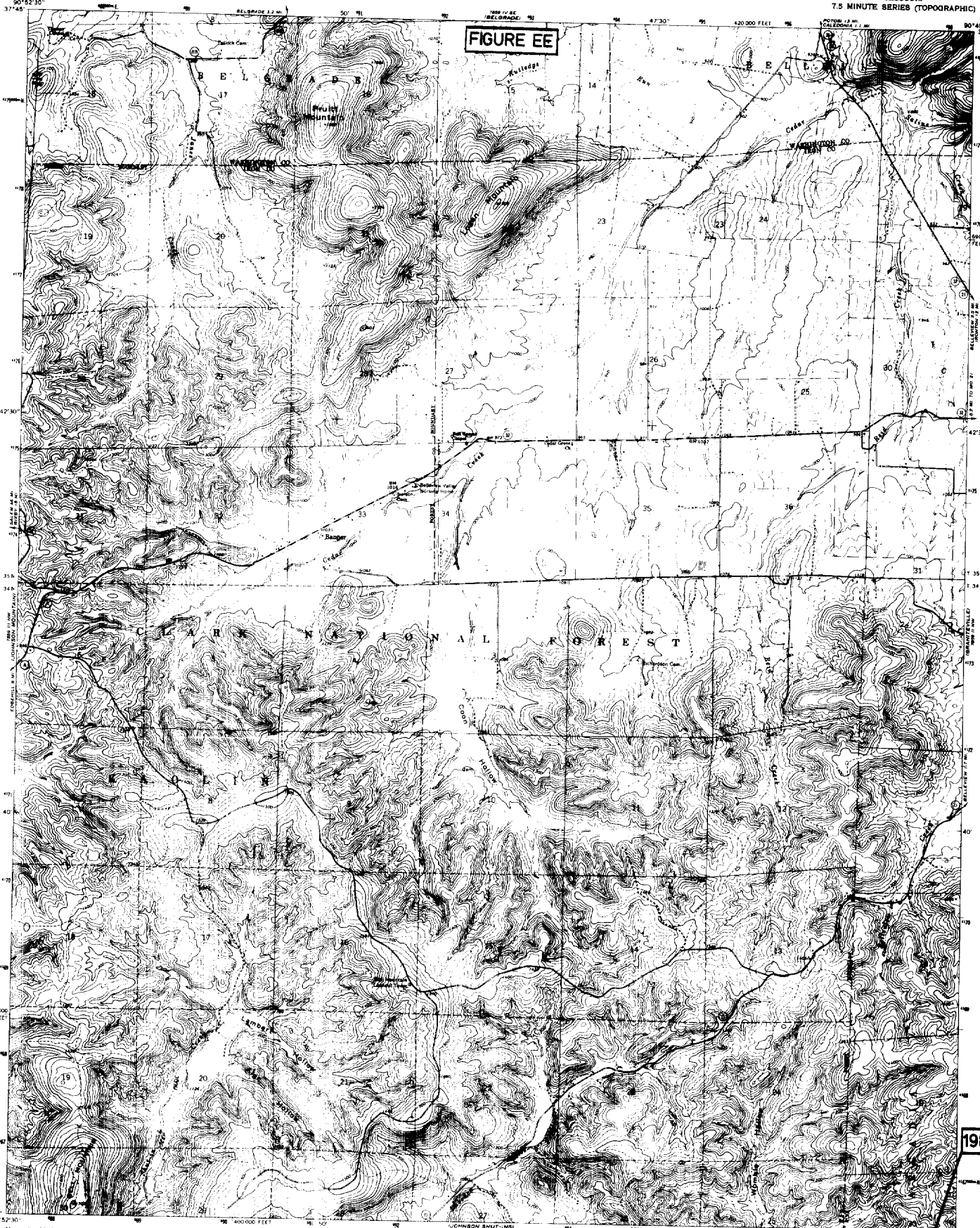
AMS 7859 II SERIES V779

THIS MAP IS AVAILABLE WITH OR WITHOUT SHADED RELIEF (OVERPRINT)
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242
AND MISSOURI GEOLOGICAL SURVEY, ROLLA, MISSOURI 65401
A LISTING OF DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BANNER QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)

FIGURE EE



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1,000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092,
AND THE DIVISION OF RESEARCH AND TECHNICAL INFORMATION
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MISSOURI
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

BANNER, MO.

N3737.5—W9045/7.5

1968

AMS 7656 III NE—SERIES V879

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JOHNSON SHUT-INS QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)

198

FIGURE FF

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968.

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked.

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

46.4 mm
198°

ROAD CLASSIFICATION
Medium duty — Light duty
Unimproved dirt
State Route

QUADRANGLE LOCATION

JOHNSON SHUT-INS, MO.
N3730—W9045/7.5
1968
AMS 7859 III SE—SERIES V878

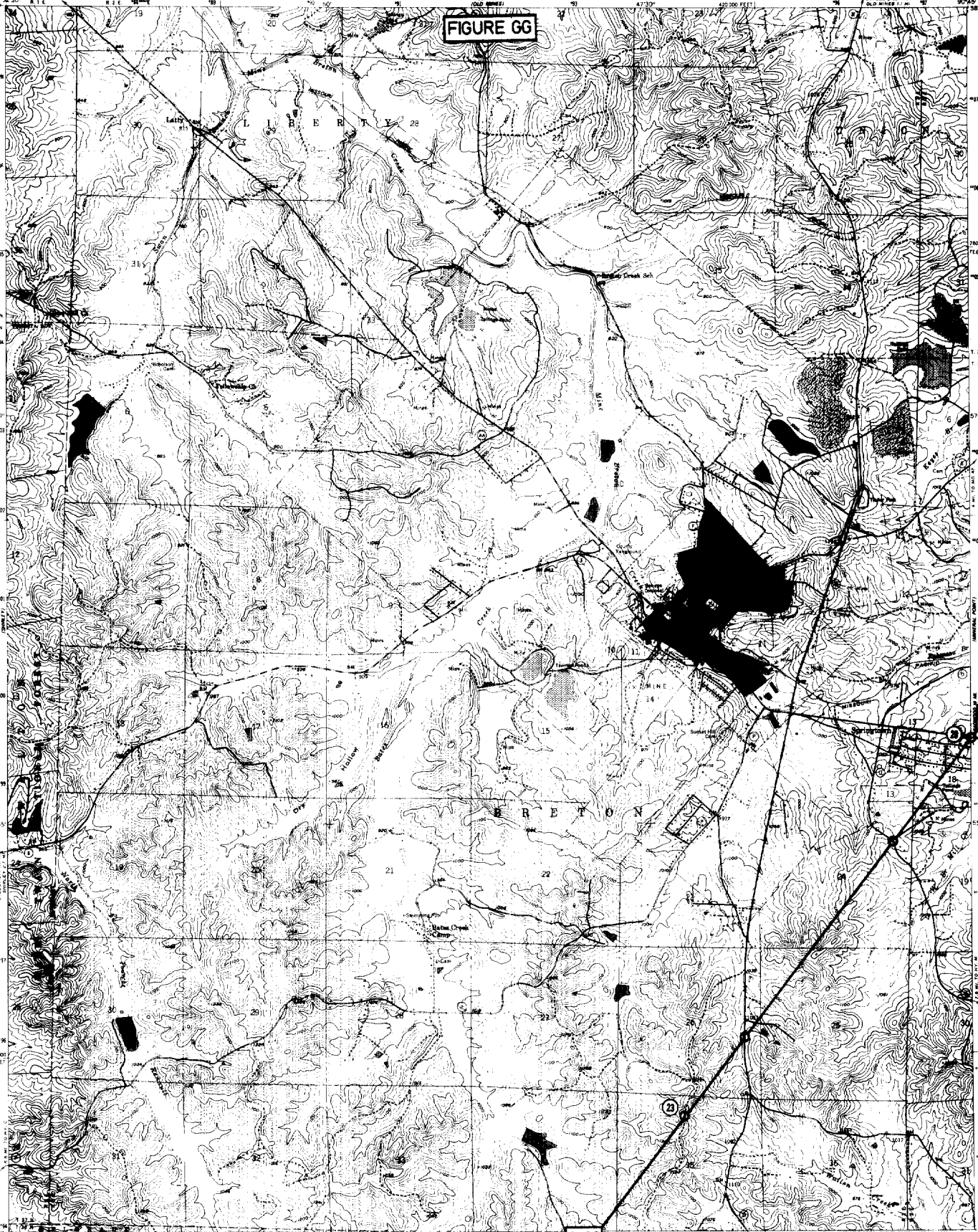
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242
AND BY THE MISSOURI GEOLOGICAL SURVEY, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
WALLACE B. HOWE, STATE GEOLOGIST

POTOSI QUADRANGLE
MISSOURI – WASHINGTON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 POTOSI 15' QUADRANGLE

FIGURE GG



Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and USGS
Topography from aerial photographs by multiplex method
Aerial photographs taken 1974. Field checked 1978

Polyconic projection 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1,000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Red tint indicates area in which only landmark buildings are shown

To place on the projected North American Datum 1983 move the projection lines 2 meters south and 10 meters east as shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1982 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092,
AND THE DIVISION OF GEOLOGY AND LAND SURVEY
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple compiled from aerial photographs taken 1978. Map edited 1982
This information not field checked

Purple tint indicates extension of urban area

ROAD CLASSIFICATION

Primary highway, hard surface — Light duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

POTOSI, MO.
NE/4 POTOSI 15' QUADRANGLE
N3752.5—W9045/7.5

1958
PHOTOREVISED 1982
DMA 7859 IV NE—SERIES V879

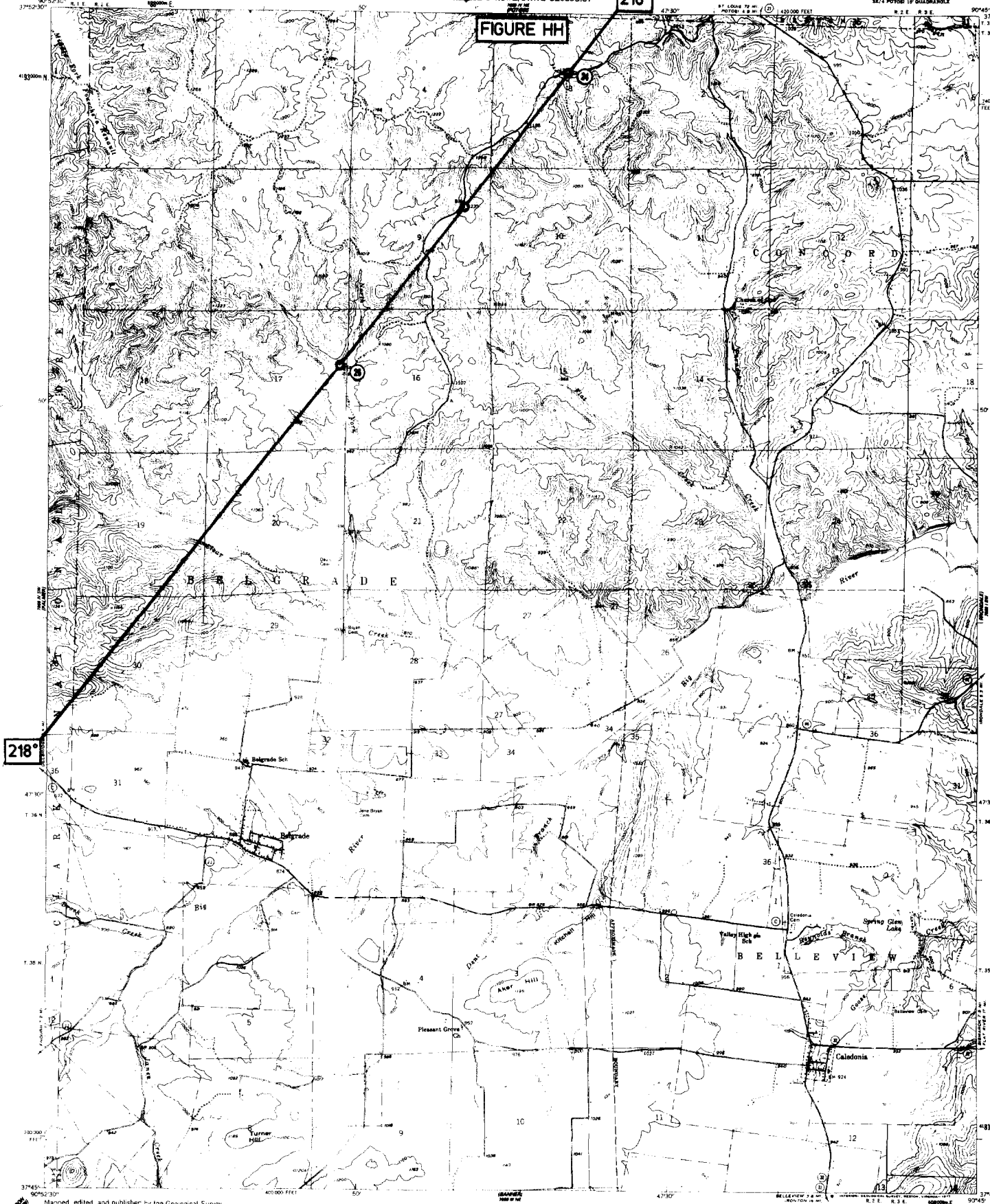
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
WALLACE B. HOWE, STATE GEOLOGIST

BELGRADE QUADRANGLE
MISSOURI - WASHINGTON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 POTOSI 15' QUADRANGLE

FIGURE HH

218°



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1954. Field check 1958

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Unchecked elevations are shown in brown

UTM GRID AND 1958 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092,
AND THE DIVISION OF RESEARCH AND TECHNICAL INFORMATION
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

BELGRADE, MO.
SE/4 POTOSI 15' QUADRANGLE
N 37 45—W 90 45/7.5

1958

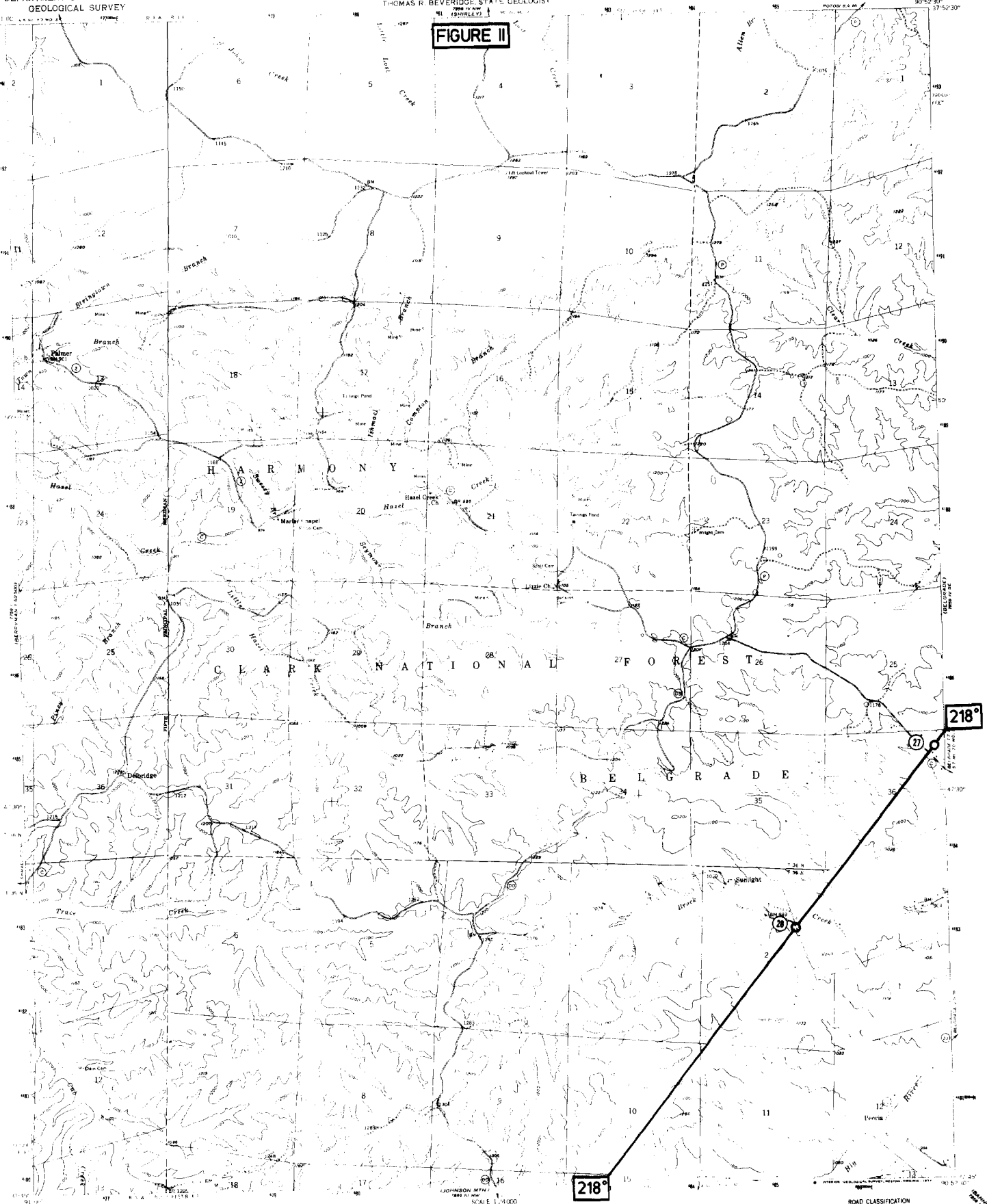
AMS 7809 IV SE—SERIES V879

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
THOMAS R. BEVERIDGE STATE GEOLOGIST

PALMER QUADRANGLE
MISSOURI-WASHINGTON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

FIGURE II



Mapped, edited, and published by the Geological Survey

SCALE 1:24000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION
Medium-duty — — — Light-duty
Unimproved dirt
State Route

QUADRANGLE LOCATION

PALMER, MO.
SW 4 POTOSI 15' QUADRANGLE
37090—W9052—7.5

1958

AMS 7859 IV SW—SERIES V878

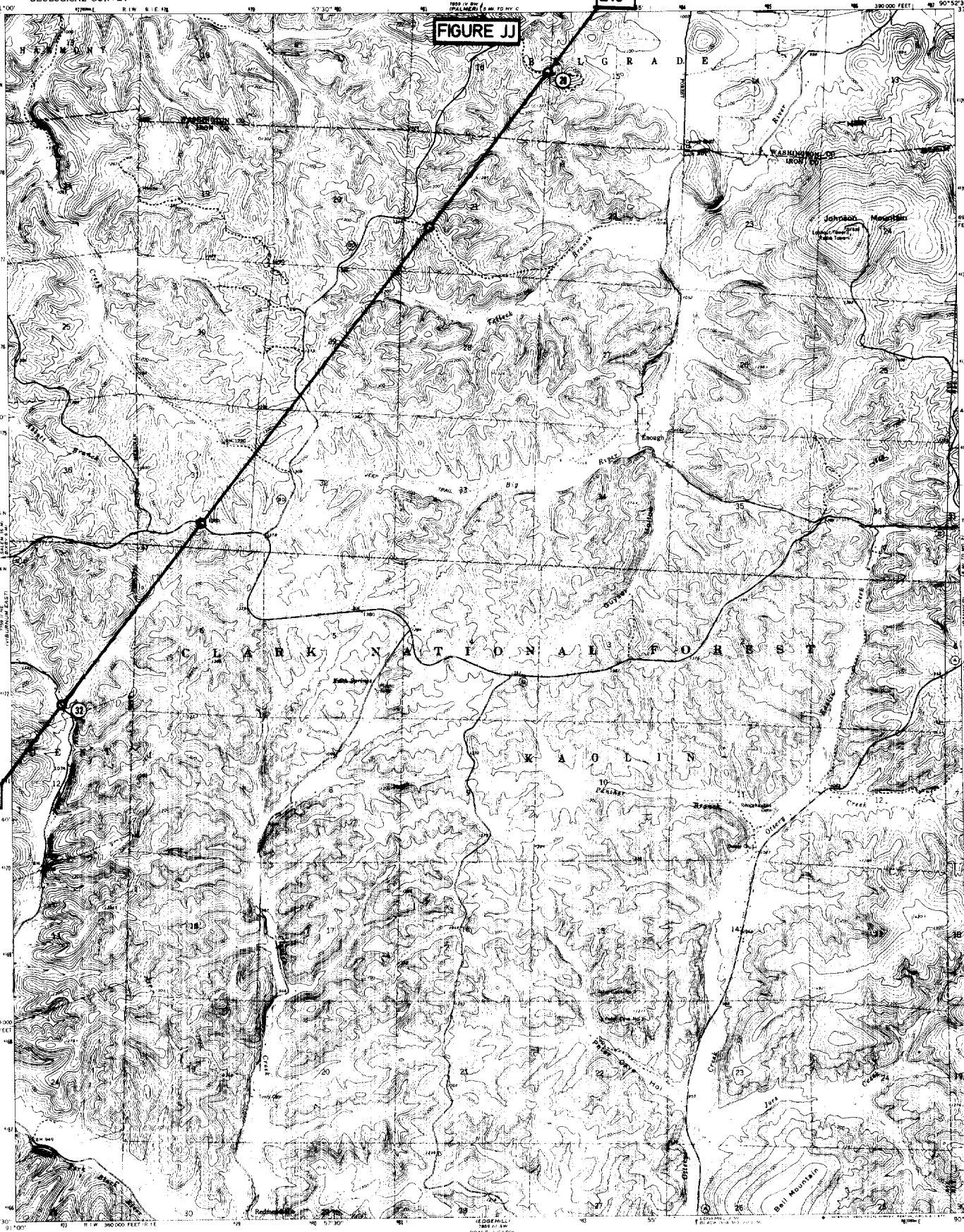
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND BY THE DIVISION OF RESEARCH AND TECHNICAL INFORMATION
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JOHNSON MOUNTAIN QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)

FIGURE JJ

218°



218°

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks
zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND THE DIVISION OF RESEARCH AND TECHNICAL INFORMATION
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

MISSOURI
QUADRANGLE LOCATION

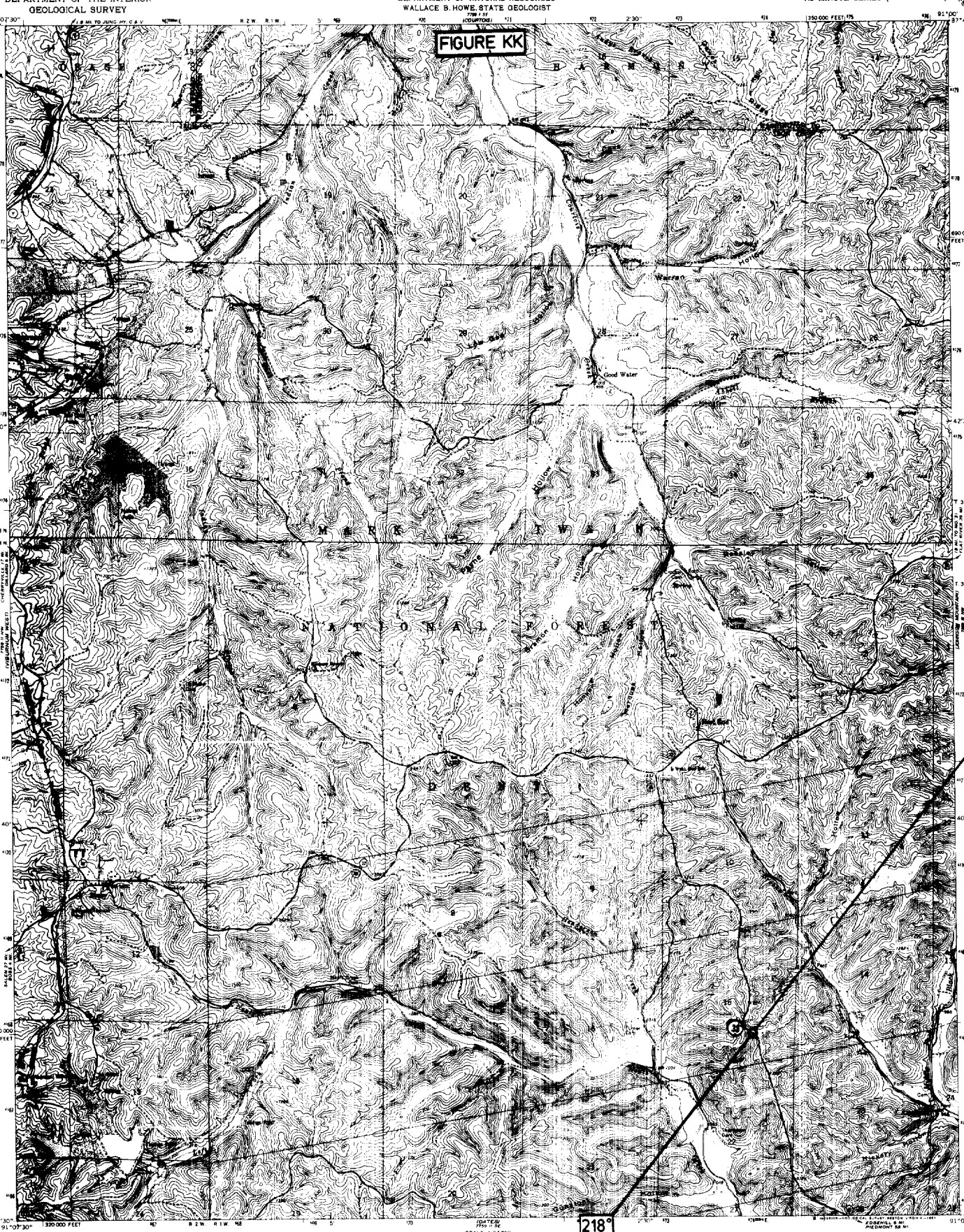
JOHNSON MOUNTAIN, MO.
N3737.5—W9052.5/7.5
1968
AMS 7859 III NW—SERIES V879

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
WALLACE B. HOWE, STATE GEOLOGIST

VIBURNUM EAST QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)

FIGURE KK



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1965. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

To place on the projected North American Datum 1983 move the projection lines 2 meters south and 11 meters east as shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092,
AND THE DIVISION OF GEOLOGY AND LAND SURVEY
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple compiled by the U. S. Forest Service and the Geological Survey from aerial photographs taken 1975 and 1980. Map edited by the Geological Survey 1981. This information not field checked

ROAD CLASSIFICATION

Medium-duty — Light-duty

Unimproved dirt

State Route

VIBURNUM EAST, MO.

N3737.5—W9100/7.5

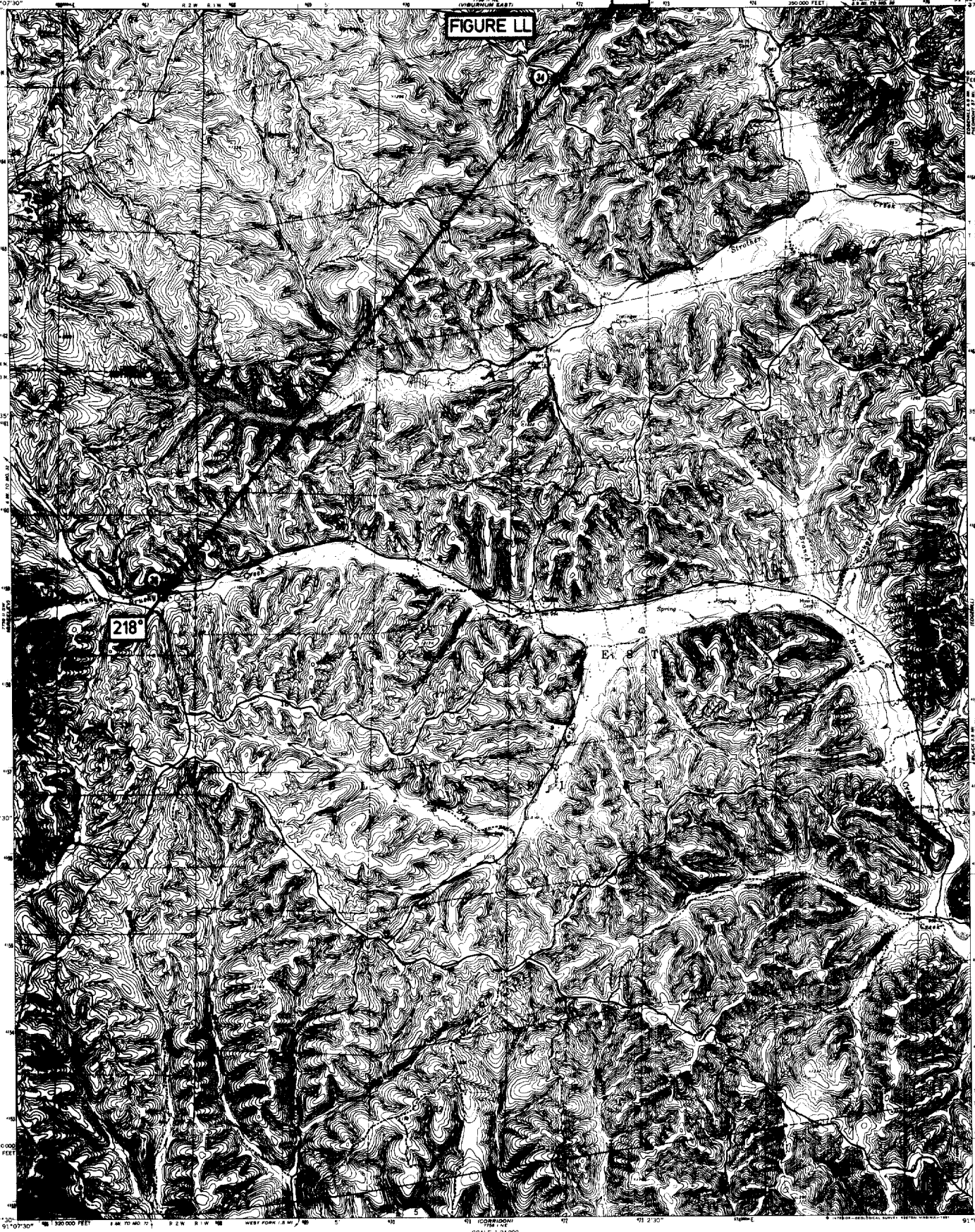
1967
PHOTOREVISED 1981
DMA 7759 II NE—SERIES V879

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
WALLACE B. HOWE, STATE GEOLOGIST

OATES QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)

FIGURE LL



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1965. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

To place on the predicted North American Datum 1983 move the projection lines 2 meters south and 11 meters east as shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092,
AND THE DIVISION OF GEOLOGY AND LAND SURVEY
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MISSOURI
QUADRANGLE LOCATION

Revisions shown in purple compiled by the U. S. Forest Service and the Geological Survey from aerial photographs taken 1975 and 1980
Map edited by the Geological Survey 1981
This information not field checked

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

OATES, MO.
N3730—W9100/7.5
1967
PHOTOREVISED 1981
DMA 7758 II SE—SERIES V879

A P P E N D I X I I I

FIELD STRENGTH MEASUREMENTS ON KJEM - BENTONVILLE, ARKANSAS FROM KMOA SITE CHANGE APPLICATION, JULY, 1983

FIGURE 27

FIELD INTENSITY MEASUREMENTS ON RADIO STATION KJEM BENTONVILLE, ARKANSAS OPERATING ON 1190 KCS WITH 2.5 KW-D

75° RADIAL

POINT #	(mv/m) Field	(miles) DISTANCE	TIME	DATE
1	5.40	7.4	1736	4/23/83
2	1.92	11.5	1748	5/5/83
3	1.55	13.8	1738	"
4	0.52	17.8	1721	"
5	0.32	21.2	1703	"
6	0.34	24.0	1656	"
7	0.185	28.2	1539	4/23/83
8	0.26	31.8	1510	"
9	0.125	36.1	1522	"

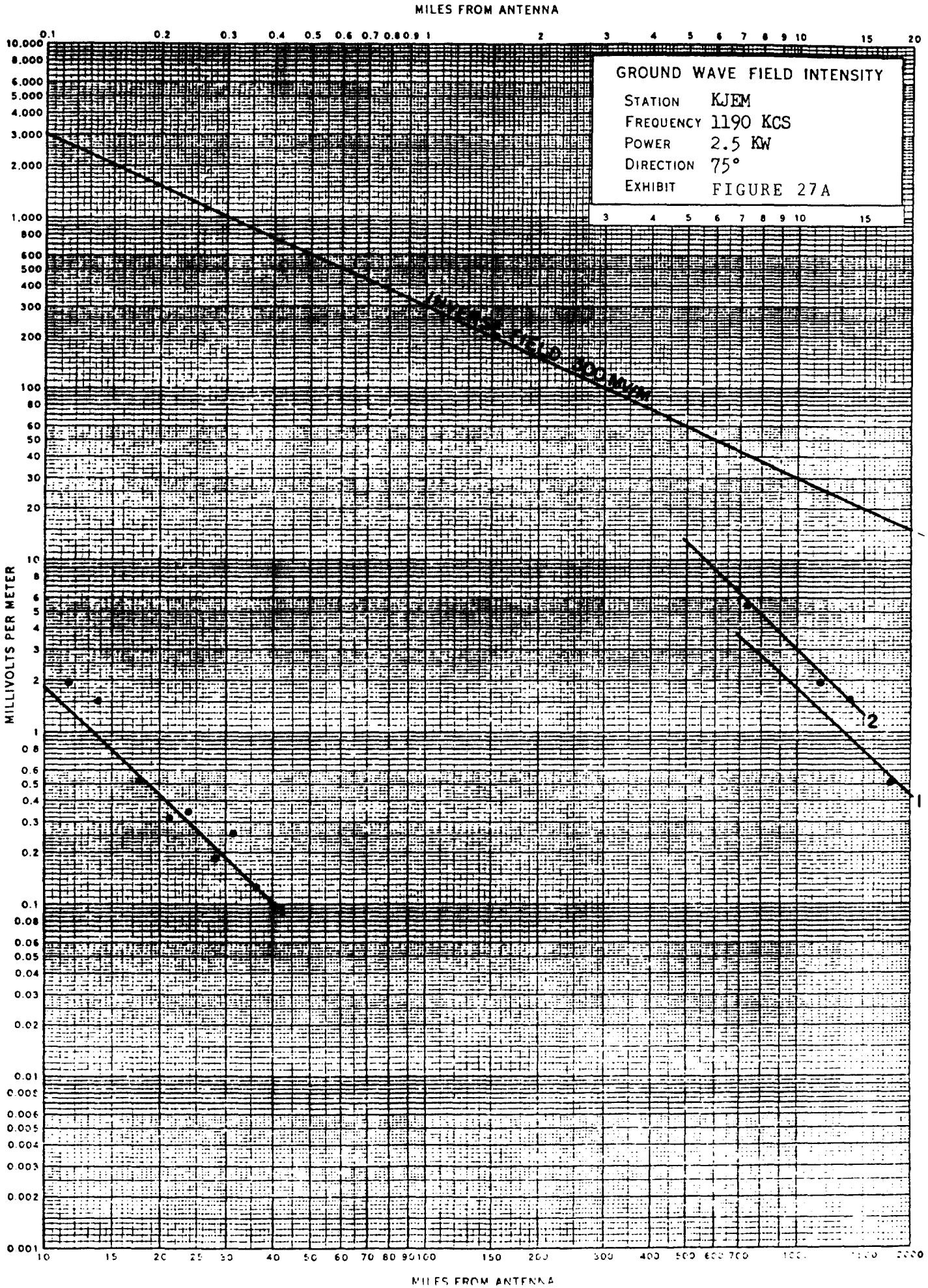

MILES FROM ANTENNA
GROUND WAVE FIELD INTENSITY
STATION KJEM
FREQUENCY 1190 KCS
POWER 2.5 KW
DIRECTION 75°
EXHIBIT FIGURE 27A
INTENSITY FIELD 300 MV/M
MILLIVOLTS PER METER
1
2
MILES FROM ANTENNA

FIGURE 28

FIELD INTENSITY MEASUREMENTS ON RADIO STATION KJEM BENTONVILLE, ARKANSAS OPERATING ON 1190 KCS WITH 2.5 KW-D

95° RADIAL

POINT #	(mv/m) Field	(miles) DISTANCE	TIME	DATE
1	11.5	5.50	1743	4/23/83
2	0.78	13.0	1314	5/5/83
3	0.85	14.0	1359	"
4	1.31	15.1	1352	"
5	0.85	16.1	1346	"
6	0.38	23.0	1504	"
7	0.255	25.5	1441	4/23/83
8	0.19	28.8	1624	5/5/83
9	0.142	32.5	1315	4/23/83
10	0.16	35.0	1549	5/5/83
11	0.18	35.8	1546	"

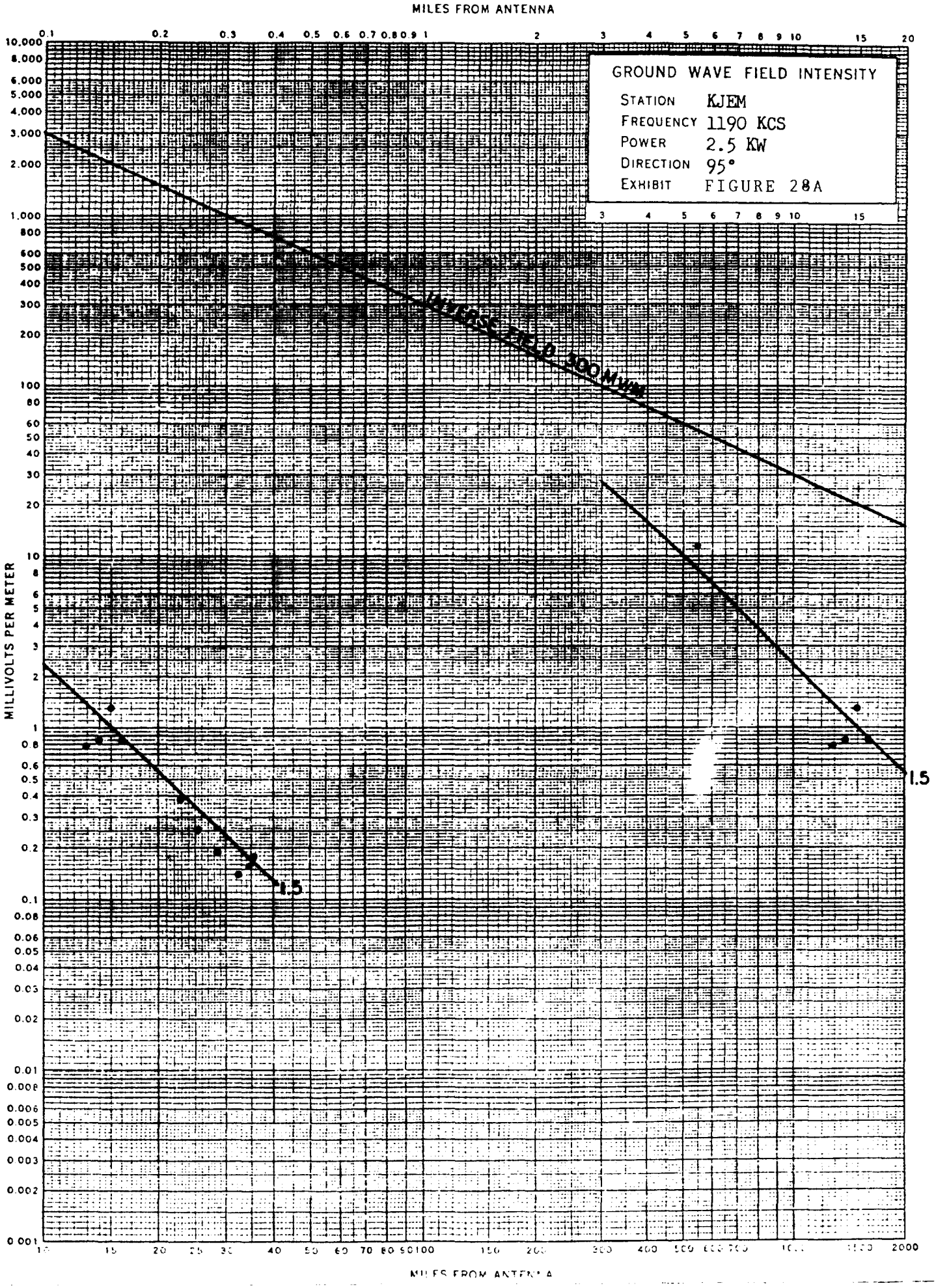

GROUND WAVE FIELD INTENSITY
STATION KJEM
FREQUENCY 1190 KCS
POWER 2.5 KW
DIRECTION 95°
EXHIBIT FIGURE 28A
MILES FROM ANTENNA
MILLIVOLTS PER METER
INVERSE FIELD 300 MV/M
1.5
1.5
MILES FROM ANTENNA

FIGURE 29

FIELD INTENSITY MEASUREMENTS ON RADIO STATION KJEM BENTONVILLE, ARKANSAS OPERATING ON 1190 KCS WITH 2.5 KW-D

115° RADIAL

POINT #	(mv/m) Field	(miles) DISTANCE	TIME	DATE
1	1.39	12.7	1122	5/5/83
2	0.82	14.1	1114	"
3	0.80	14.9	1110	"
4	0.53	16.3	1107	"
5	0.44	17.8	1101	"
6	0.47	20.3	1049	"
7	0.325	21.9	1035	"
8	0.29	24.8	1023	"
9	0.25	29.0	1218	4/23/83
10	0.125	33.0	0956	5/5/83
11	0.122	40.2	1239	4/23/83

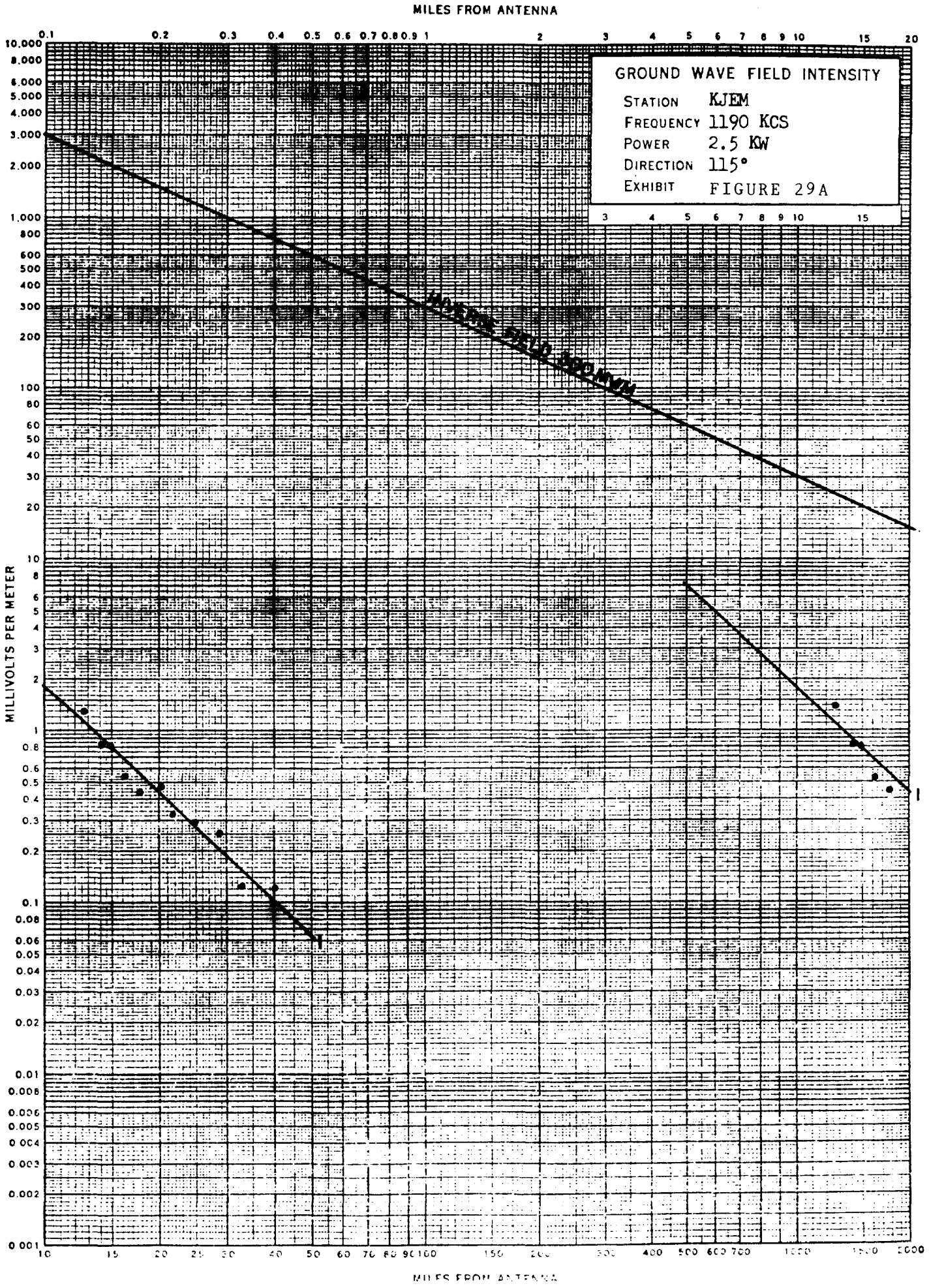

GROUND WAVE FIELD INTENSITY
STATION KJEM
FREQUENCY 1190 KCS
POWER 2.5 KW
DIRECTION 115°
EXHIBIT FIGURE 29A
MILES FROM ANTENNA
MILLIVOLTS PER METER
MILES FROM ANTENNA

FIGURE 30

FIELD INTENSITY MEASUREMENTS ON RADIO STATION KJEM BENTONVILLE, ARKANSAS OPERATING ON 1190 KCS WITH 2.5 KW-D

135° RADIAL

POINT #	(mv/m) Field	(miles) DISTANCE	TIME	DATE
1	3.38	8.80	1815	5/5/83
2	1.82	12.9	1842	"
3	0.62	18.8	0949	4/23/83
4	0.72	20.9	0941	"
5	0.68	24.0	1009	"
6	0.72	24.8	1015	"
7	0.62	27.2	1025	"
8	0.60	29.0	1038	"
9	0.52	30.8	1046	"
10	0.18	39.2	1115	"
11	0.135	40.6	1122	"
12	0.090	44.8	1137	"

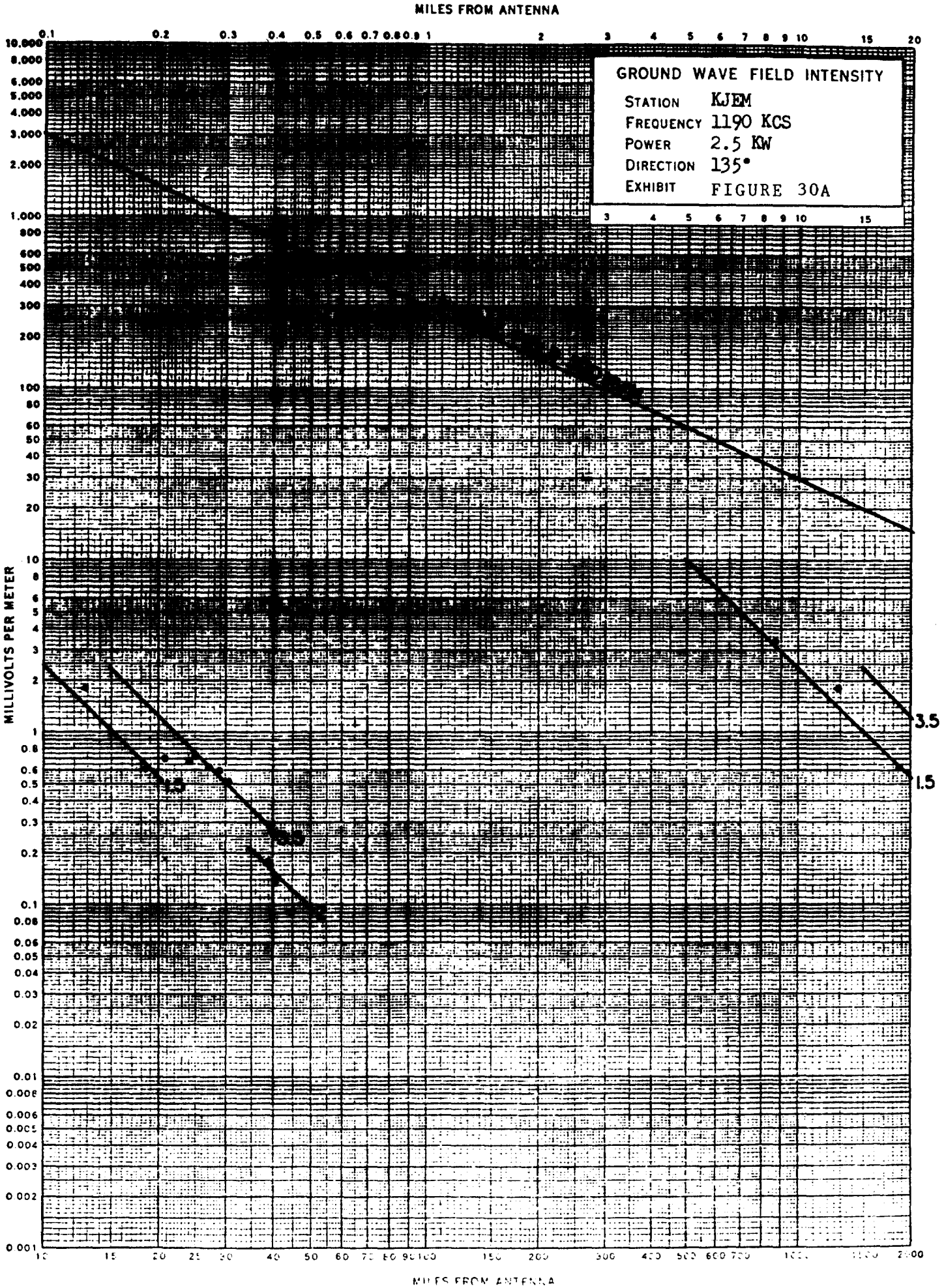

MILES FROM ANTENNA
GROUND WAVE FIELD INTENSITY
STATION KJEM
FREQUENCY 1190 KCS
POWER 2.5 KW
DIRECTION 135°
EXHIBIT FIGURE 30A
MILLIVOLTS PER METER
3.5
1.5
MILES FROM ANTENNA

FIGURE 31

FIELD INTENSITY MEASUREMENTS ON RADIO STATION KJEM BENTONVILLE, ARKANSAS OPERATING ON 1190 KCS WITH 2.5 KW-D

155° RADIAL

POINT #	(mv/m) Field	(miles) DISTANCE	TIME	DATE
1	1.65	17.2	0925	4/23/83
2	0.98	20.9	0911	"
3	0.64	21.3	0905	"
4	0.92	23.7	0846	"
5	0.52	27.7	0829	"
6	0.48	30.9	0815	"
7	0.16	34.5	0800	"
8	0.11	41.5	0743	"
9	0.13	42.3	0738	"
10	0.045	45.7	0844	5/5/83
11	0.050	50.4	0816	"