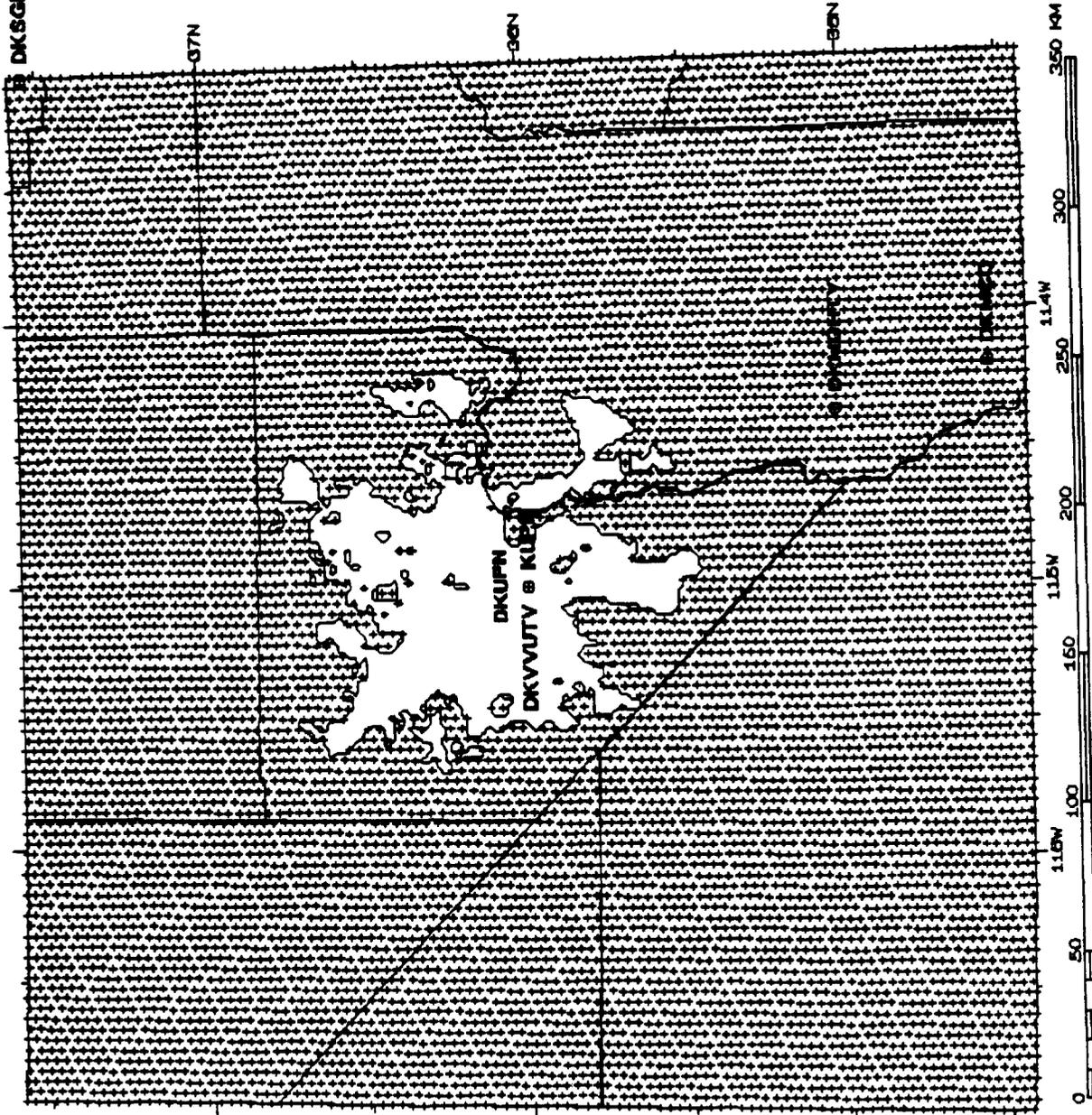


FIGURE A-7
KUPN-CHANNEL 21
WITHOUT KTV CHANNEL 17 DTV

DKSGITY A Services
 WARFUS & ASSOCIATES, INC.
 KUPN W/O DKTVN17
 21-ADR-97 22:41:13
 RS:200Aug2097F ques



APPENDIX B
OET BULLETIN 69 CALCULATIONS
PROPOSED KTNV CHANNEL 12 DTV FACILITIES

TABLE B-1
KTNV PROPOSED
CHANNEL 12 DTV

Message Segment (/taservice/restart/RS209Jun1197C.desc):

NTSC/DTV Interference study /taservice/restart/RS209Jun1197C.desc

Desired Station Name: DKTNV Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 12

Undesired Station 1 Name: KKTM Station Type: NTSC
 City: FLAGSTAFF State: AZ Channel: 13 km:337.9 mi:209.9 bear:107.7

Undesired Station 2 Name: KPNX Station Type: NTSC
 City: MESA State: AZ Channel: 12 km:398.0 mi:247.3 bear:136.0

Undesired Station 3 Name: KYMA Station Type: NTSC
 City: YUMA State: AZ Channel: 11 km:322.1 mi:200.1 bear:176.4

Undesired Station 4 Name: KSWT Station Type: NTSC
 City: YUMA State: AZ Channel: 13 km:321.9 mi:200.0 bear:176.4

Undesired Station 5 Name: KTTV Station Type: NTSC
 City: LOS ANGELE State: CA Channel: 11 km:334.7 mi:208.0 bear:236.0

Undesired Station 6 Name: KCOPTV Station Type: NTSC
 City: LOS ANGELE State: CA Channel: 13 km:334.8 mi:208.0 bear:236.1

Undesired Station 7 Name: DKLVX Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 11 km: 7.6 mi: 4.7 bear: 24.8

Undesired Station 8 Name: KTNV Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 13 km: .0 mi: .0 bear: 39.0

Undesired Station 9 Name: KUSG Station Type: NTSC
 City: ST. GEORGE State: UT Channel: 12 km:180.8 mi:112.4 bear: 46.1

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
DKLVX	.00 sq km	55.40 sq km
KTNV	201.02 sq km	.00 sq km

Signal below minimum
 Area: 97170. sq km
 Population: 188000.
 Households: 67000.

Interference
 Area: 240. sq km
 Population: 0.
 Households: 0.

No Interference
 Area: 25170. sq km
 Population: 707000.
 Households: 273000.

FIGURE B-1
KTNV PROPOSED
CHANNEL 12 DTV

TA Services
 WAPMUS & ASSOCIATES, INC.
 DKTNVL12)
 21-Apr-97 22:41:13
 FIS206Jund197C.qjes

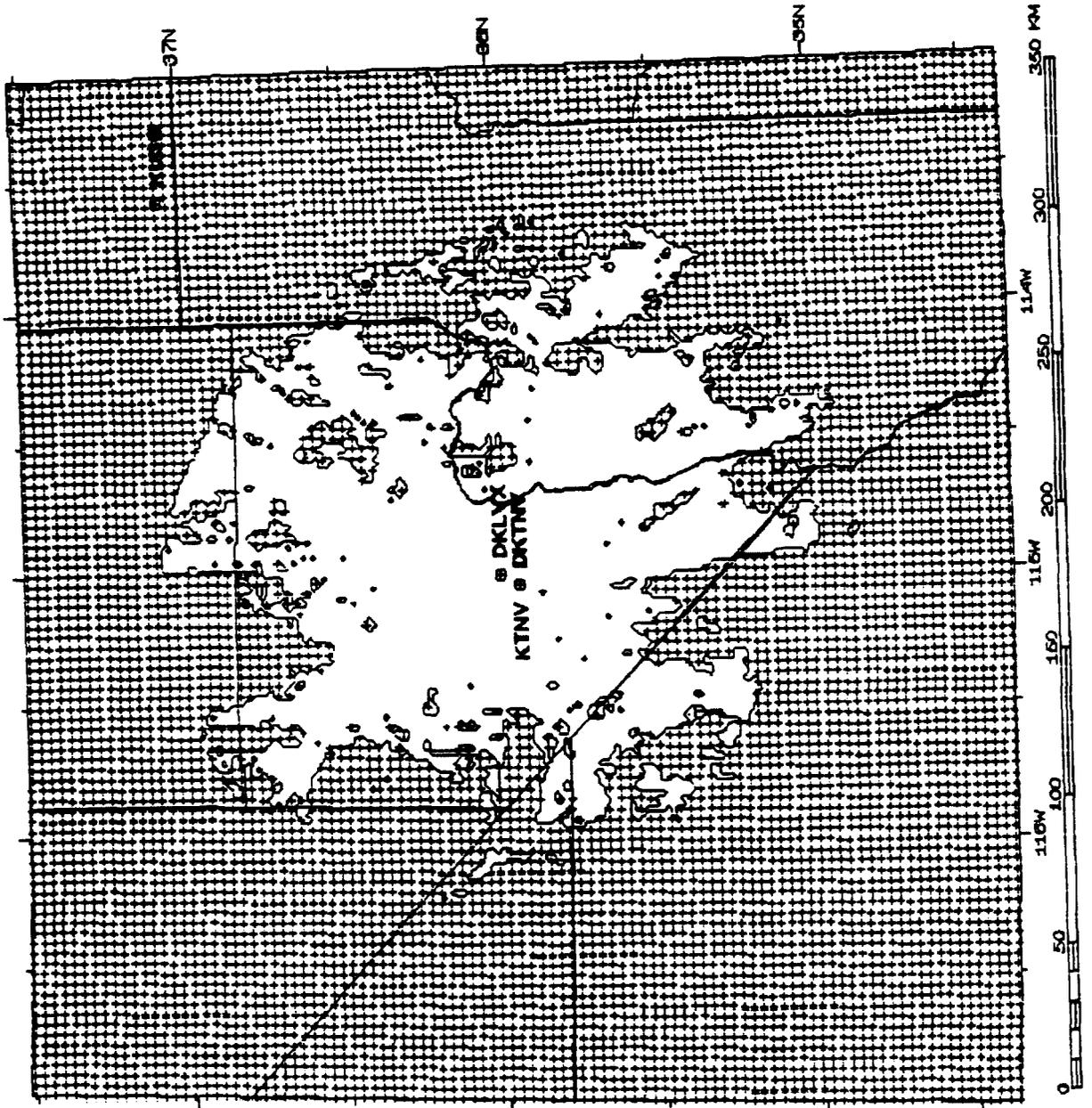


TABLE B-2
 KUSG-CHANNEL 12
 WITH KTNV CHANNEL 12 DTV

Message Segment (/taservice/restart/RS209Jun1197F.desc):

NTSC/DTV Interference study /taservice/restart/RS209Jun1197F.desc

Desired Station Name: KUSG Station Type: NTSC
 City: ST. GEORGE State: UT Channel: 12

Undesired Station 1 Name: KKTM Station Type: NTSC
 City: FLAGSTAFF State: AZ Channel: 13 km:297.8 mi:185.0 bear:140.8

Undesired Station 2 Name: DKLVX Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 11 km:173.7 mi:108.0 bear:227.9

Undesired Station 3 Name: KTNV Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 13 km:180.8 mi:112.4 bear:227.0

Undesired Station 4 Name: DKTNV Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 12 km:180.8 mi:112.4 bear:227.0

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KTNV	3.12 sq km	.00 sq km
DKTNV	.00 sq km	87.11 sq km

Signal below minimum

Area: 121340. sq km
 Population: 802000.
 Households: 303000.

Interference
 Area: 90. sq km
 Population: 0.
 Households: 0.

No Interference
 Area: 1150. sq km
 Population: 44000.
 Households: 14000.

**FIGURE B-2
KUSG-CHANNEL 12
WITH KTNV CHANNEL 12 DTV**

TA Services
WARREN & ASSOCIATES, INC.
KUSG
21-Apr-97 22:41:13
RS209 JUN1107F QJEG

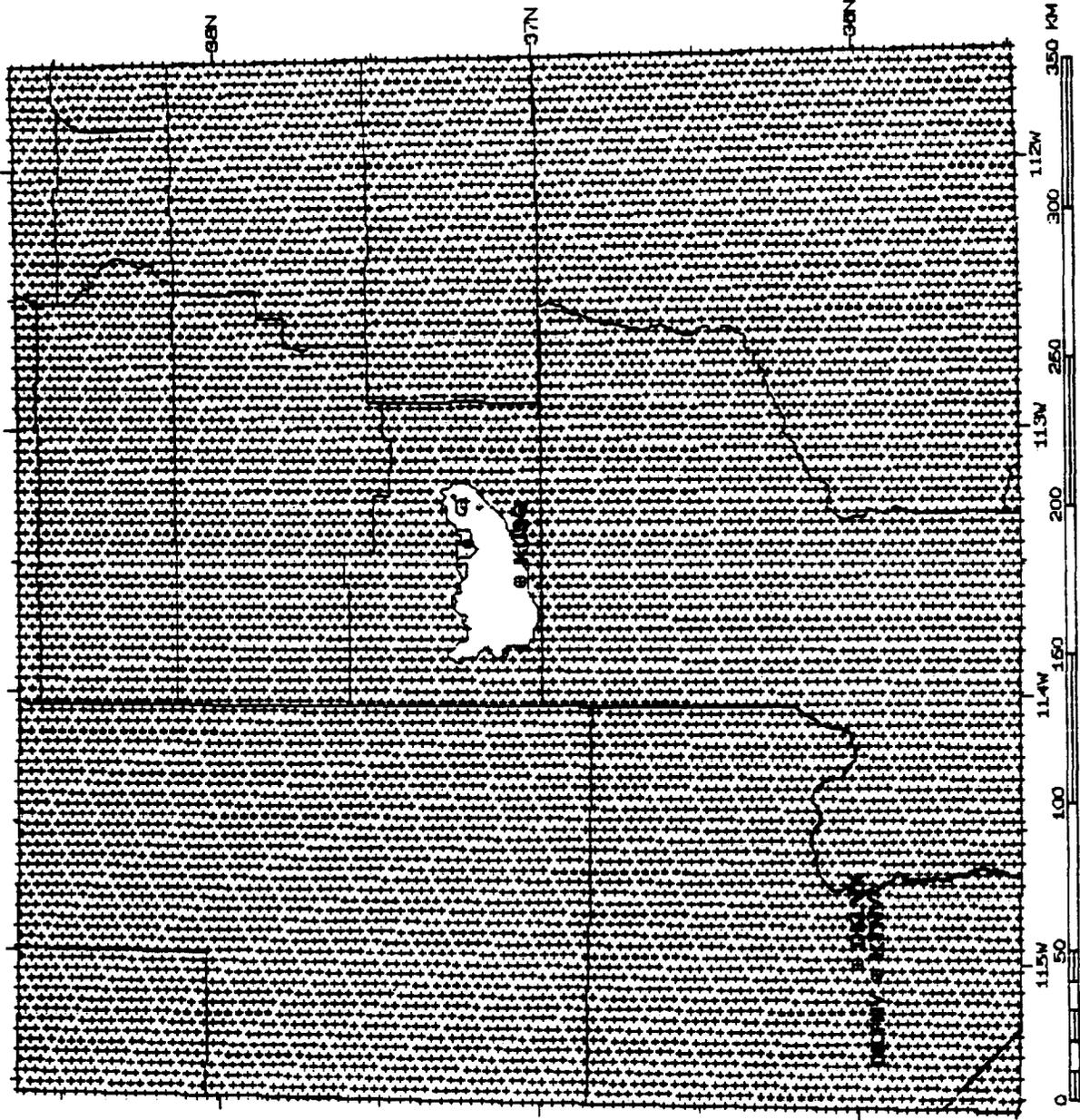


TABLE B-3
KUSG-CHANNEL 12
WITHOUT KTNV CHANNEL 12 DTV

Message Segment (/taservice/restart/RS209Jun1197I.desc):

NTSC/DTV Interference study /taservice/restart/RS209Jun1197I.desc

Desired Station Name: KUSG Station Type: NTSC
City: ST. GEORGE State: UT Channel: 12

Undesired Station 1 Name: KTNV Station Type: NTSC
City: LAS VEGAS State: NV Channel: 13 km:180.8 mi:112.4 bear:227.0

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KTNV	3.12 sq km	.00 sq km

Signal below minimum

Area: 121340. sq km

Population: 802000.

Households: 303000.

Interference

Area: 0. sq km

Population: 0.

Households: 0.

No Interference

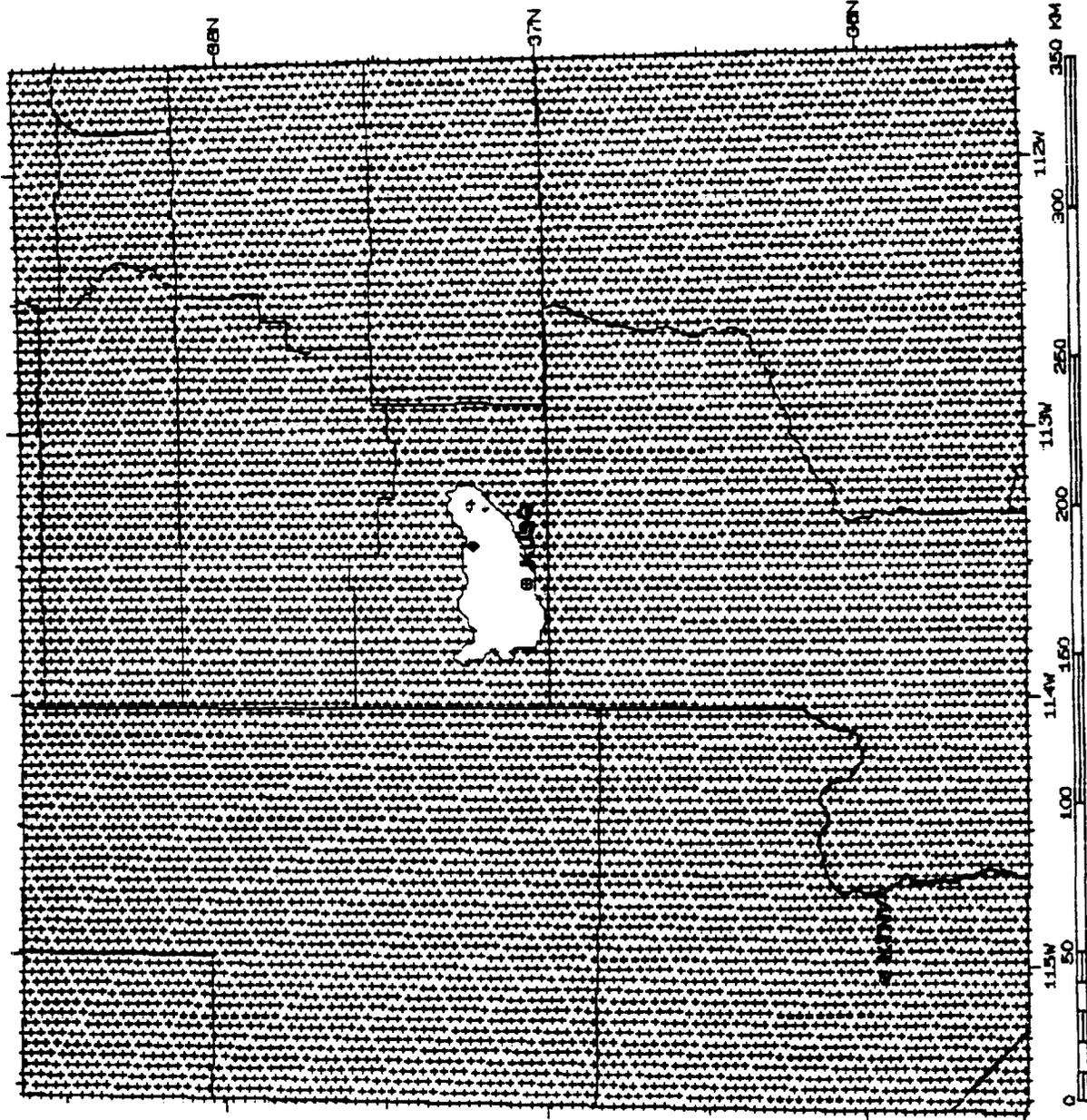
Area: 1230. sq km

Population: 44000.

Households: 14000.

FIGURE B-3
 KUSG-CHANNEL 12
 WITHOUT KTNV CHANNEL 12 DTV

TA Services
 WARMUS & ASSOCIATES, INC.
 KUSGNO DKTNY 12J
 21-Apr-87 22:41:13
 RS209 Jun11971.que6



Signal to Interference ratio

□	No Interference	sq km
	Area:	1230.
	Population:	44000.
	Households:	14000.
□	Interference	0. sq km
	Area:	0.
	Population:	0.
	Households:	0.
▣	Signal below minimum	sq km
	Area:	121340.
	Population:	802000.
	Households:	303000.

FIGURE B-4
KLTX-CHANNEL 11 DTV
WITH KTNV CHANNEL 12 DTV

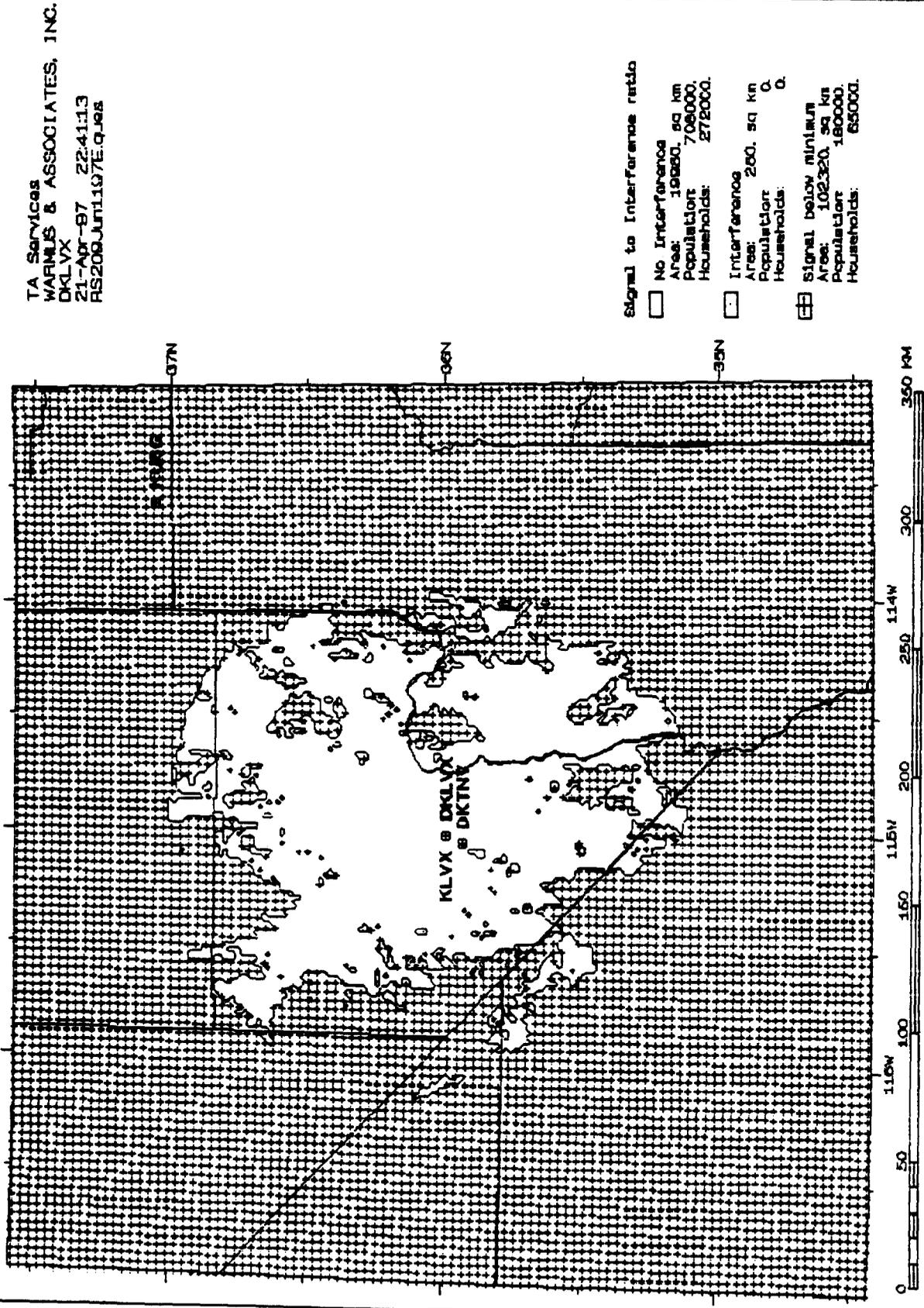


TABLE B-5
 KLVX-CHANNEL 11 DTV
 WITHOUT KTNV CHANNEL 12 DTV

Message Segment (/taservice/restart/RS209Jun1197H.desc):

NTSC/DTV Interference study /taservice/restart/RS209Jun1197H.desc

Desired Station Name: DKL VX Station Type: HDTV

City: LAS VEGAS State: NV Channel: 11

Undesired Station 1 Name: KYMA Station Type: NTSC

City: YUMA State: AZ Channel: 11 km:328.8 mi:204.3 bear:177.1

Undesired Station 2 Name: KLVX Station Type: NTSC

City: LAS VEGAS State: NV Channel: 10 km: .0 mi: .0 bear: .0

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KYMA	34.32 sq km	.00 sq km
KLVX	154.15 sq km	.00 sq km

Signal below minimum

Area: 102320. sq km

Population: 180000.

Households: 65000.

Interference

Area: 190. sq km

Population: 0.

Households: 0.

No Interference

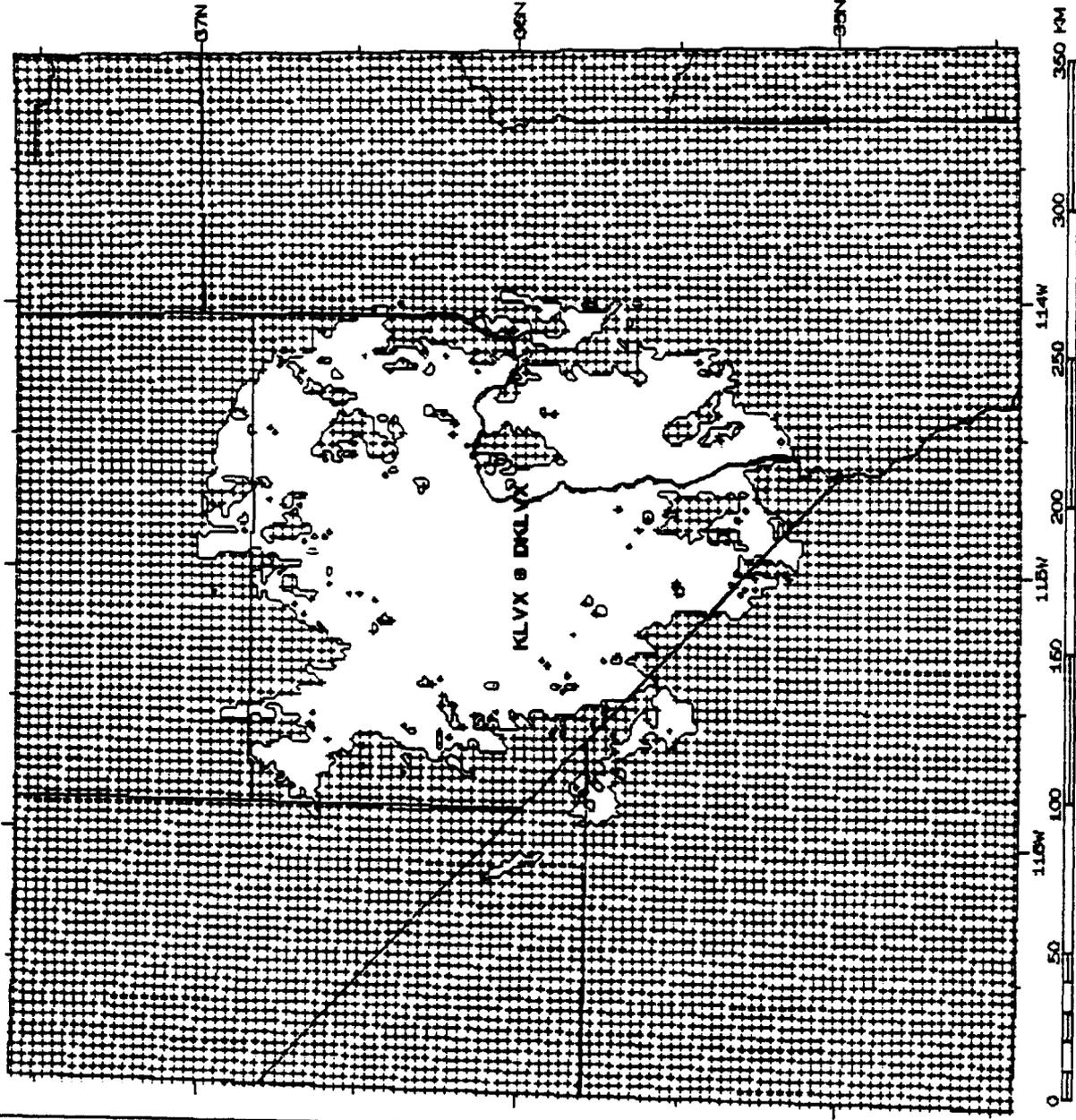
Area: 20070. sq km

Population: 708000.

Households: 272000.

FIGURE B-5
 KLVX-CHANNEL 11 DTV
 WITHOUT KTNV CHANNEL 12 DTV

TA SERVICES
 WARFELS & ASSOCIATES, INC.
 DKLVXNO DKTNV12
 21-APR-87 22:41:13
 RS209JUN1107H1QJES



Signal to Interference ratio

- No Interference
 Area: 20070 sq Km
 Population: 706000
 Households: 272000
- Interference
 Area: 180 sq Km
 Population: 0
 Households: 0
- ▨ Signal below minimum
 Area: 102320 sq Km
 Population: 180000
 Households: 65000

TABLE B-6
KTNV-CHANNEL 13
WITH KTNV CHANNEL 12 DTV

Message Segment (/taservice/restart/RS209Jun1197A.desc):

NTSC/DTV Interference study /taservice/restart/RS209Jun1197A.desc

Desired Station Name: KTNV Station Type: NTSC
City: LAS VEGAS State: NV Channel: 13

Undesired Station 1 Name: KKTM Station Type: NTSC
City: FLAGSTAFF State: AZ Channel: 13 km:337.9 mi:209.9 bear:107.7

Undesired Station 2 Name: KPNX Station Type: NTSC
City: MESA State: AZ Channel: 12 km:398.0 mi:247.3 bear:136.0

Undesired Station 3 Name: KSWT Station Type: NTSC
City: YUMA State: AZ Channel: 13 km:321.9 mi:200.0 bear:176.4

Undesired Station 4 Name: KCOPTV Station Type: NTSC
City: LOS ANGELE State: CA Channel: 13 km:334.8 mi:208.0 bear:236.1

Undesired Station 5 Name: KUSG Station Type: NTSC
City: ST. GEORGE State: UT Channel: 12 km:180.8 mi:112.4 bear: 46.1

Undesired Station 6 Name: DKTNV Station Type: HDTV
City: LAS VEGAS State: NV Channel: 12 km: .0 mi: .0 bear: 39.0

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KKTM	105.41 sq km	.00 sq km
KSWT	620.63 sq km	.00 sq km
KCOPTV	3.10 sq km	.00 sq km
DKTNV	.00 sq km	315.24 sq km

Signal below minimum

Area: 102530. sq km
Population: 192000.
Households: 69000.

Interference

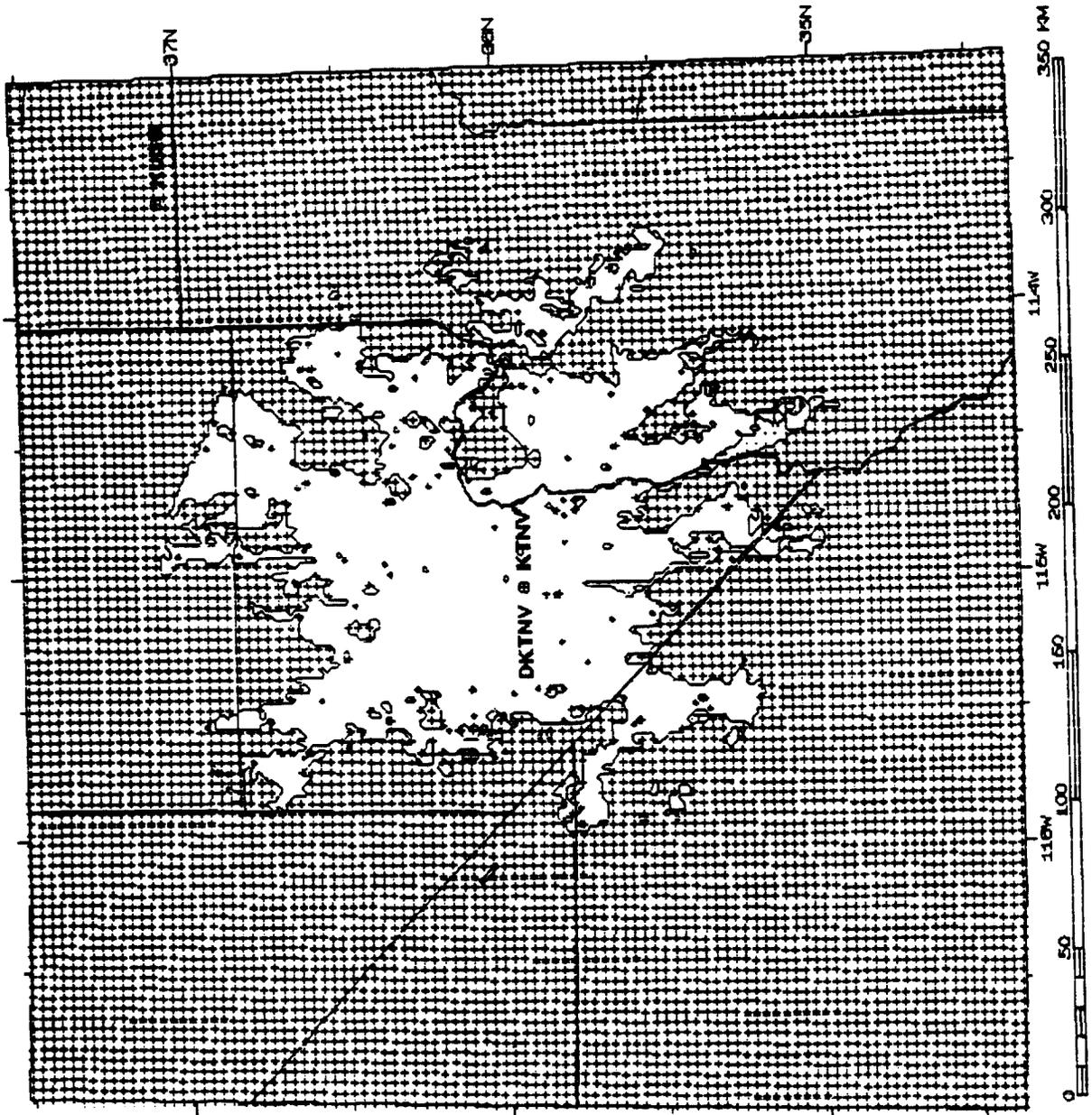
Area: 1000. sq km
Population: 1000.
Households: 0.

No Interference

Area: 19040. sq km
Population: 702000.
Households: 271000.

FIGURE B-6
KTNV-CHANNEL 13
WITH KTNV CHANNEL 12 DTV

TA Services
 WARMUS & ASSOCIATES, INC.
 KTNV
 21-Apr-97 22:41:13
 RS209.Juni197A.qja



Signal to Interference ratio

- No Interference
 Area: 19040. sq km
 Population: 702000.
 Households: 271000.
- Interference
 Area: 1000. sq km
 Population: 1000.
 Households: 0.
- ▣ Signal below minimum
 Area: 102530. sq km
 Population: 192000.
 Households: 69000.

TABLE B-7
KTNV-CHANNEL 13
WITHOUT KTNV CHANNEL 12 DTV

Message Segment (/taservice/restart/RS209Aug1997A.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug1997A.desc

Desired Station Name: KTNV Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 13

Undesired Station 1 Name: KKTM Station Type: NTSC
 City: FLAGSTAFF State: AZ Channel: 13 km:337.9 mi:209.9 bear:107.7

Undesired Station 2 Name: KPNX Station Type: NTSC
 City: MESA State: AZ Channel: 12 km:398.0 mi:247.3 bear:136.0

Undesired Station 3 Name: KSWT Station Type: NTSC
 City: YUMA State: AZ Channel: 13 km:321.9 mi:200.0 bear:176.4

Undesired Station 4 Name: KCOPTV Station Type: NTSC
 City: LOS ANGELE State: CA Channel: 13 km:334.8 mi:208.0 bear:236.1

Undesired Station 5 Name: KUSG Station Type: NTSC
 City: ST. GEORGE State: UT Channel: 12 km:180.8 mi:112.4 bear: 46.1

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KKTM	105.41 sq km	.00 sq km
KSWT	620.63 sq km	.00 sq km
KCOPTV	3.10 sq km	.00 sq km

Signal below minimum

Area: 102530. sq km
 Population: 192000.
 Households: 69000.

Interference

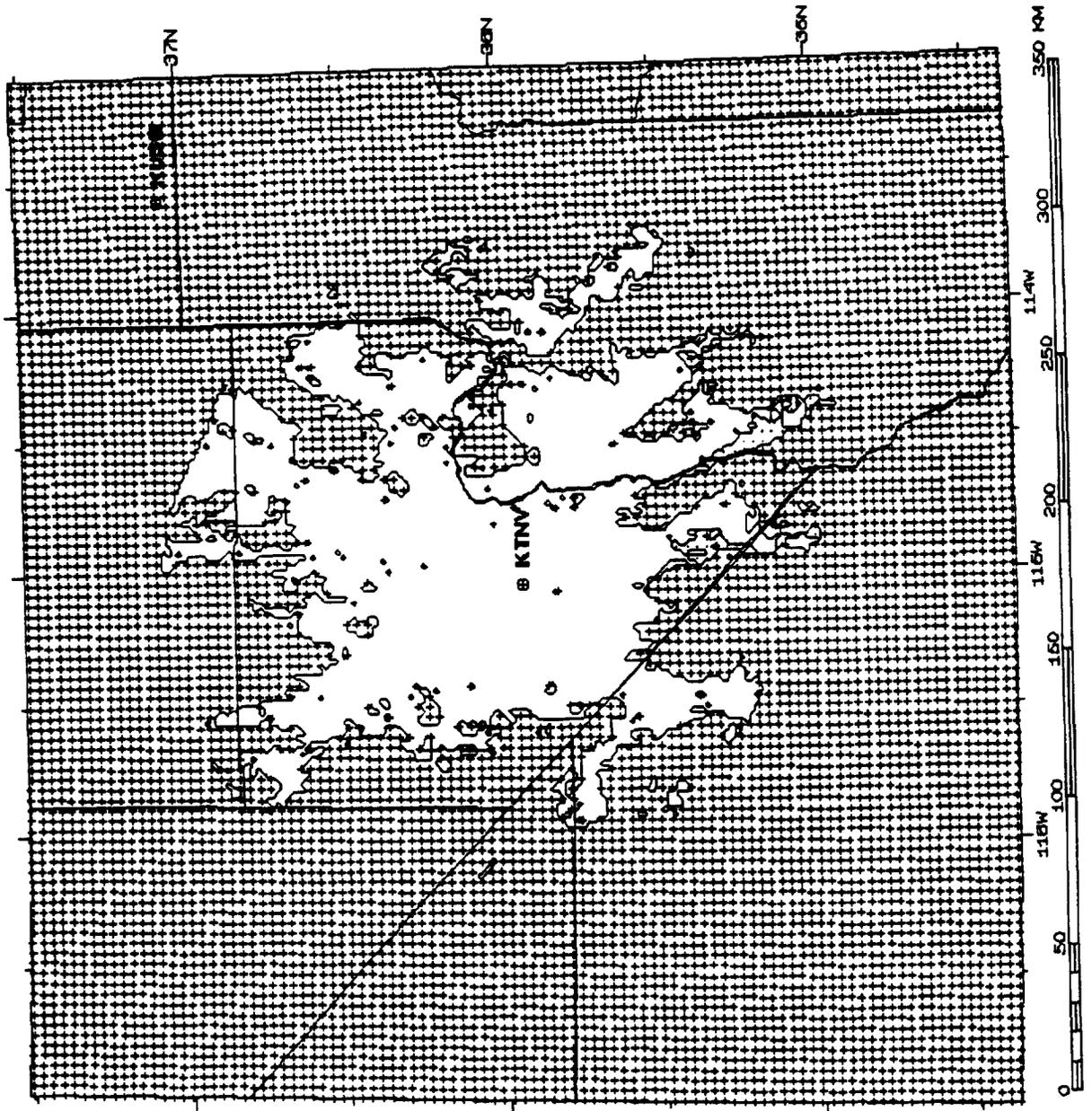
Area: 710. sq km
 Population: 1000.
 Households: 0.

No Interference

Area: 19330. sq km
 Population: 703000.
 Households: 271000.

FIGURE B-7
KTNV-CHANNEL 13
WITHOUT KTNV CHANNEL 12 DTV

TA Services
 WARMUS & ASSOCIATES, INC.
 KTNV
 21-Apr-97 22:41:13
 RS208Aug1997A.dwg



Signal to Interference ratio

- NO Interference
 Area: 19330. sq km
 Population: 703000.
 Households: 271000.
- Interference
 Area: 710. sq km
 Population: 1000.
 Households: 0.
- ▣ Signal below minimum
 Area: 102530. sq km
 Population: 102000.
 Households: 69000.

APPENDIX C

OET BULLETIN 69 CALCULATIONS

PROPOSED KTNV CHANNEL 9 DTV FACILITIES

TABLE C-1
KTNV PROPOSED
CHANNEL 9 DTV

Message Segment (/taservice/restart/RS209Aug1997F.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug1997F.desc

Desired Station Name: DKTNV Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 9

Undesired Station 1 Name: KCFG Station Type: NTSC
 City: FLAGSTAFF State: AZ Channel: 9 km:321.1 mi:199.5 bear:103.1

Undesired Station 2 Name: KAET Station Type: NTSC
 City: PHOENIX State: AZ Channel: 8 km:398.0 mi:247.3 bear:136.0

Undesired Station 3 Name: KSAZTV Station Type: NTSC
 City: PHOENIX State: AZ Channel: 10 km:398.1 mi:247.3 bear:135.9

Undesired Station 4 Name: DKEROTV Station Type: HDTV
 City: BAKERSFIEL State: CA Channel: 10 km:325.1 mi:202.0 bear:261.4

Undesired Station 5 Name: KECYTV Station Type: NTSC
 City: EL CENTRO State: CA Channel: 9 km:321.8 mi:200.0 bear:176.4

Undesired Station 6 Name: DKABCTV Station Type: HDTV
 City: LOS ANGELE State: CA Channel: 8 km:334.8 mi:208.0 bear:236.1

Undesired Station 7 Name: KCALTV Station Type: NTSC
 City: LOS ANGELE State: CA Channel: 9 km:334.8 mi:208.0 bear:236.1

Undesired Station 8 Name: KLASTV Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 8 km: .0 mi: .0 bear:324.5

Undesired Station 9 Name: KLVX Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 10 km: 7.6 mi: 4.7 bear: 24.8

Undesired Station 10 Name: DKUSG Station Type: HDTV
 City: ST. GEORGE State: UT Channel: 9 km:180.8 mi:112.4 bear: 46.1

Stations that actually do contribute to interference.

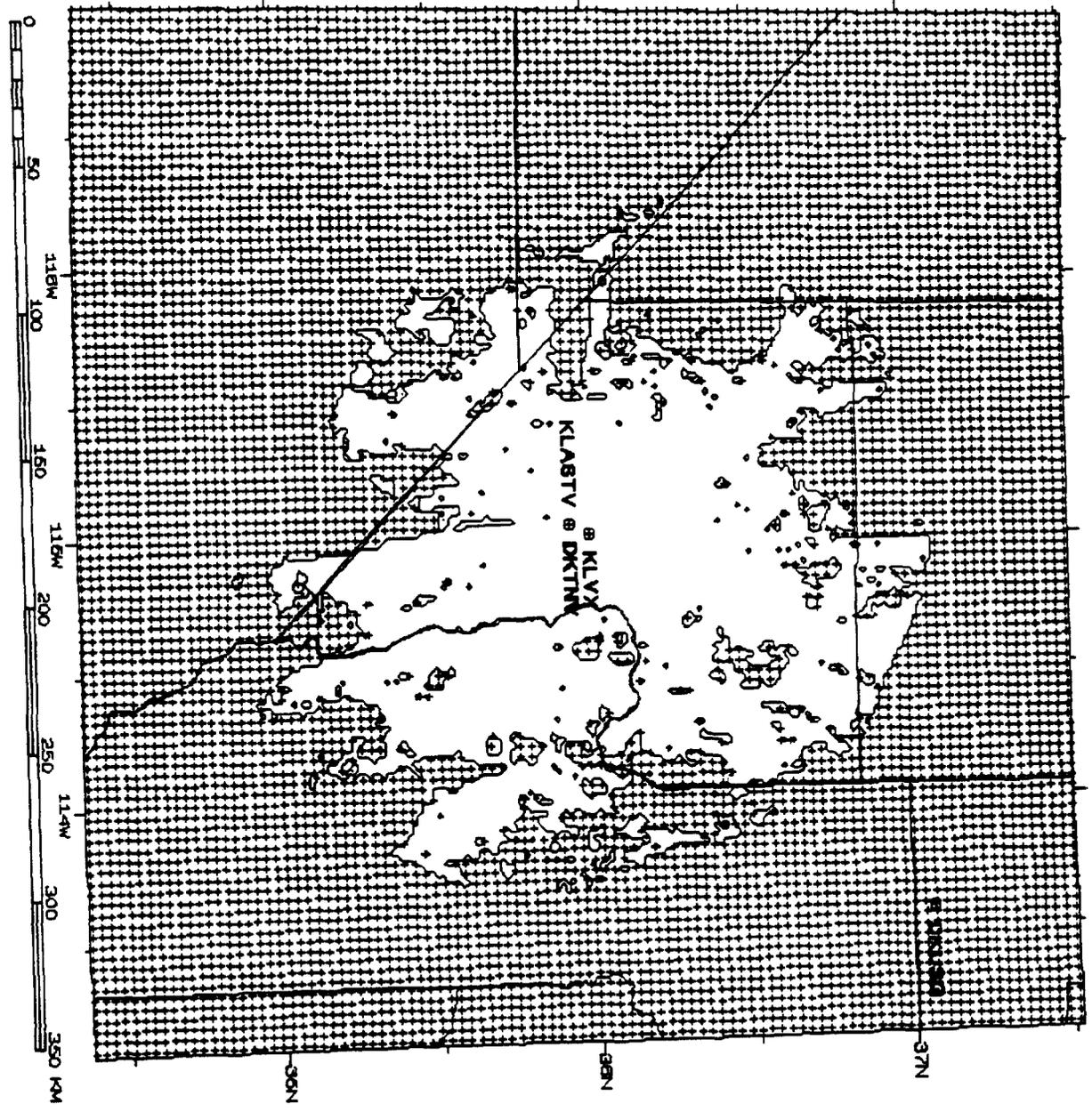
Name	NTSC Int	HDTV Int
KECYTV	40.60 sq km	.00 sq km
KLASTV	216.31 sq km	.00 sq km
KLVX	191.72 sq km	.00 sq km

Signal below minimum
 Area: 96170. sq km
 Population: 187000.
 Households: 67000.

Interference
 Area: 400. sq km
 Population: 0.
 Households: 0.

No Interference
 Area: 26000. sq km
 Population: 709000.
 Households: 273000.

FIGURE C-1
 KTNV PROPOSED
 CHANNEL 9 DTW



TA Services
 WARMUS & ASSOCIATES, INC.
 KTNV-9 22:41:13
 21-Apr-97
 RS209AUG197F.dues

- Signal to Interference ratio
- No Interference
 Area: 26000 sq km
 Population: 709000
 Households: 273000
 - Interference
 Area: 400 sq km
 Population: 0
 Households: 0
 - ▣ Signal below minimum
 Area: 96170 sq km
 Population: 187000
 Households: 87000

TABLE C-2
KCFG-CHANNEL 9
WITH KTNV CHANNEL 9 DTV

Message Segment (/taservice/restart/RS209Aug2097G.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097G.desc

Desired Station Name: KCFG Station Type: NTSC
City: FLAGSTAFF State: AZ Channel: 9

Undesired Station 1 Name: KAET Station Type: NTSC
City: PHOENIX State: AZ Channel: 8 km:216.3 mi:134.4 bear:191.6

Undesired Station 2 Name: KSAZTV Station Type: NTSC
City: PHOENIX State: AZ Channel: 10 km:216.1 mi:134.3 bear:191.5

Undesired Station 3 Name: KGUN Station Type: NTSC
City: TUCSON State: AZ Channel: 9 km:324.4 mi:201.6 bear:165.2

Undesired Station 4 Name: KECYTV Station Type: NTSC
City: EL CENTRO State: CA Channel: 9 km:383.8 mi:238.5 bear:231.7

Undesired Station 5 Name: DKOFT Station Type: HDTV
City: GALLUP State: NM Channel: 8 km:260.8 mi:162.1 bear: 81.8

Undesired Station 6 Name: KLASTV Station Type: NTSC
City: LAS VEGAS State: NV Channel: 8 km:321.1 mi:199.5 bear:285.1

Undesired Station 7 Name: KLVX Station Type: NTSC
City: LAS VEGAS State: NV Channel: 10 km:319.6 mi:198.6 bear:286.5

Undesired Station 8 Name: DKUSG Station Type: HDTV
City: ST. GEORGE State: UT Channel: 9 km:269.2 mi:167.3 bear:319.4

Undesired Station 9 Name: DKTNV Station Type: HDTV
City: LAS VEGAS State: NV Channel: 9 km:321.1 mi:199.5 bear:285.1

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KGUN	320.19 sq km	.00 sq km
KECYTV	9.38 sq km	.00 sq km
DKTNV	.00 sq km	21.85 sq km

Signal below minimum

Area: 114800. sq km

Population: 278000.

Households: 98000.

Interference

Area: 340. sq km

Population: 0.

Households: 0.

No Interference

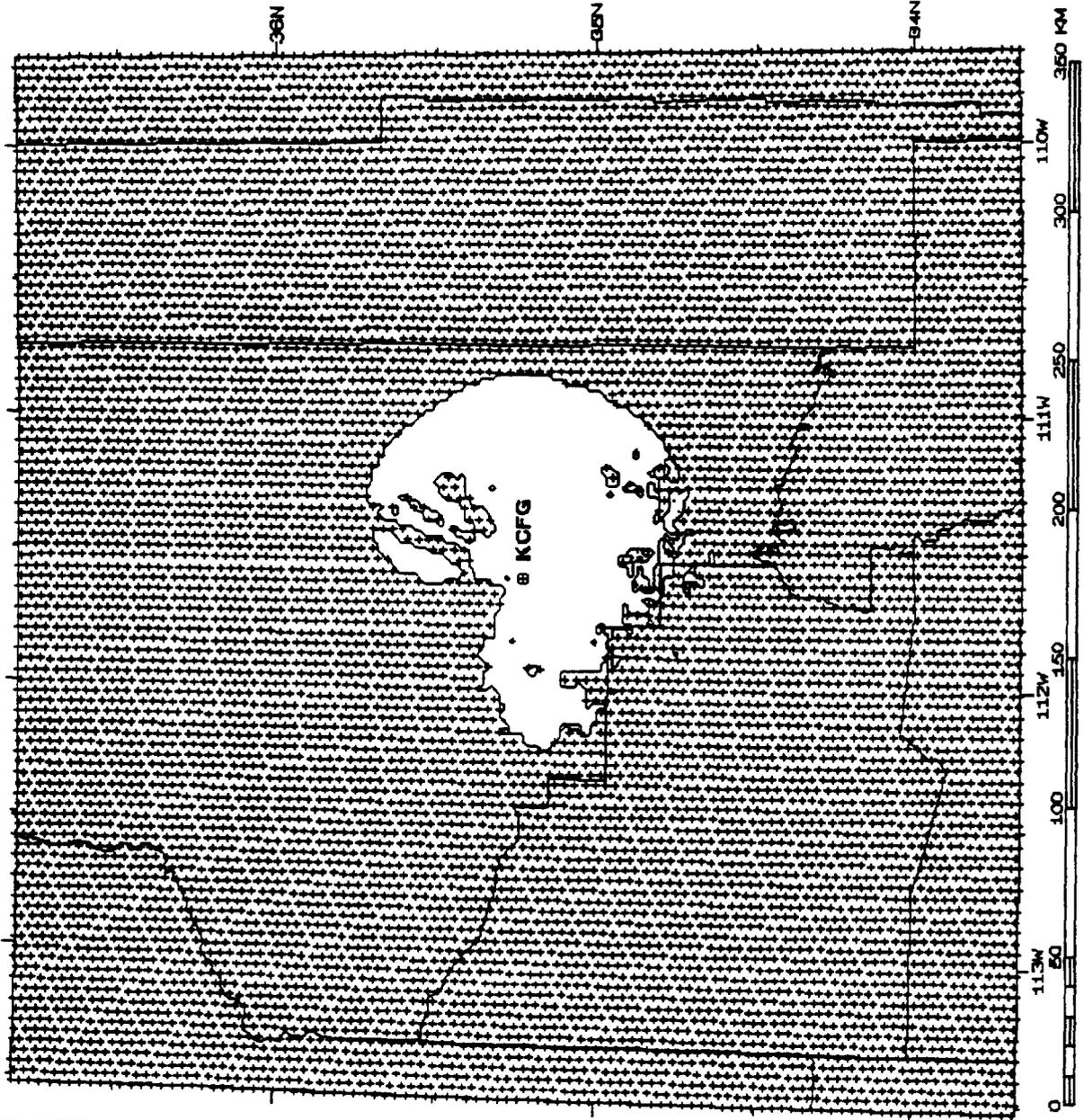
Area: 7430. sq km

Population: 66000.

Households: 23000.

FIGURE C-2
 KCFG-CHANNEL 9
 WITH KTNV CHANNEL 9 DTV

TA Services
 WARMUS & ASSOCIATES, INC.
 KCFG W/ DKTNG
 21-ADT-07 22-41-13
 RS200Aug2007G.qles



Signal to Interference ratio

- No Interference
 Area: 7430.
 Population: 66000.
 Households: 23000.
- ▤ Interference
 Area: 340. sq km
 Population: 0.
 Households: 0.
- ▨ Signal below minimum
 Area: 114600. sq km
 Population: 278000.
 Households: 98000.

TABLE C-3
 KCFG-CHANNEL 9
 WITHOUT KTNV CHANNEL 9 DTV

Message Segment (/taservice/restart/RS209Aug2097H.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097H.desc

Desired Station Name: KCFG Station Type: NTSC
 City: FLAGSTAFF State: AZ Channel: 9

Undesired Station 1 Name: KAET Station Type: NTSC
 City: PHOENIX State: AZ Channel: 8 km:216.3 mi:134.4 bear:191.6

Undesired Station 2 Name: KSAZTV Station Type: NTSC
 City: PHOENIX State: AZ Channel: 10 km:216.1 mi:134.3 bear:191.5

Undesired Station 3 Name: KGUN Station Type: NTSC
 City: TUCSON State: AZ Channel: 9 km:324.4 mi:201.6 bear:165.2

Undesired Station 4 Name: KECYTV Station Type: NTSC
 City: EL CENTRO State: CA Channel: 9 km:383.8 mi:238.5 bear:231.7

Undesired Station 5 Name: DKOFT Station Type: HDTV
 City: GALLUP State: NM Channel: 8 km:260.8 mi:162.1 bear: 81.8

Undesired Station 6 Name: KLASTV Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 8 km:321.1 mi:199.5 bear:285.1

Undesired Station 7 Name: KLVX Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 10 km:319.6 mi:198.6 bear:286.5

Undesired Station 8 Name: DKUSG Station Type: HDTV
 City: ST. GEORGE State: UT Channel: 9 km:269.2 mi:167.3 bear:319.4

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KGUN	320.19 sq km	.00 sq km
KECYTV	9.38 sq km	.00 sq km

Signal below minimum
 Area: 114800. sq km
 Population: 278000.
 Households: 98000.

Interference
 Area: 330. sq km
 Population: 0.
 Households: 0.

No Interference
 Area: 7440. sq km
 Population: 66000.
 Households: 23000.

FIGURE C-3
 KCFG-CHANNEL 9
 WITHOUT KTNV CHANNEL 9 DTV

TA Services
 WARFUS & ASSOCIATES, INC.
 KCFG W/O DKTWVO
 21-Adv-97 22:41:13
 RS200AUG2007H.qub

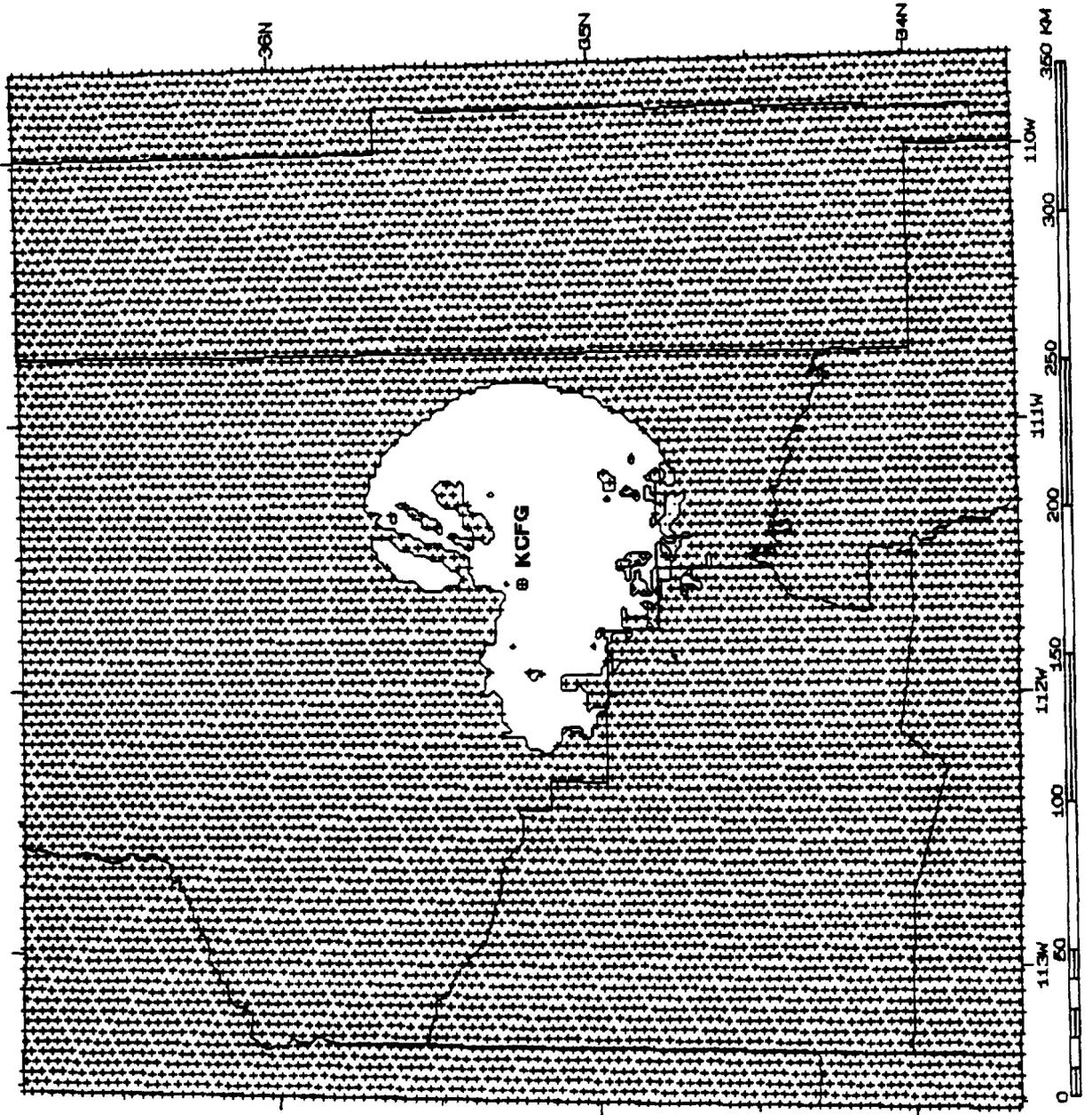


TABLE C-4
 KECY-TV-CHANNEL 9
 WITH KTNV CHANNEL 9 DTV

Message Segment (/taservice/restart/RS209Aug2097I.desc):

NTSC/DTV Interference study /taservice/restart/RS209Aug2097I.desc

Desired Station Name: KECYTV Station Type: NTSC
 City: EL CENTRO State: CA Channel: 9

Undesired Station 1 Name: KCFG Station Type: NTSC
 City: FLAGSTAFF State: AZ Channel: 9 km:383.8 mi:238.5 bear: 49.8

Undesired Station 2 Name: KAET Station Type: NTSC
 City: PHOENIX State: AZ Channel: 8 km:258.9 mi:160.9 bear: 82.4

Undesired Station 3 Name: KSAZTV Station Type: NTSC
 City: PHOENIX State: AZ Channel: 10 km:259.1 mi:161.0 bear: 82.4

Undesired Station 4 Name: KGUN Station Type: NTSC
 City: TUCSON State: AZ Channel: 9 km:390.9 mi:242.9 bear: 99.4

Undesired Station 5 Name: DKABCTV Station Type: HDTV
 City: LOS ANGELE State: CA Channel: 8 km:326.7 mi:203.0 bear:294.4

Undesired Station 6 Name: KCALTV Station Type: NTSC
 City: LOS ANGELE State: CA Channel: 9 km:326.8 mi:203.0 bear:294.4

Undesired Station 7 Name: KFMBTV Station Type: NTSC
 City: SAN DIEGO State: CA Channel: 8 km:227.1 mi:141.1 bear:264.6

Undesired Station 8 Name: KGTV Station Type: NTSC
 City: SAN DIEGO State: CA Channel: 10 km:227.1 mi:141.1 bear:264.6

Undesired Station 9 Name: KLASTV Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 8 km:321.8 mi:200.0 bear:356.6

Undesired Station 10 Name: KLVX Station Type: NTSC
 City: LAS VEGAS State: NV Channel: 10 km:328.5 mi:204.1 bear:357.2

Undesired Station 11 Name: DKTNV Station Type: HDTV
 City: LAS VEGAS State: NV Channel: 9 km:321.8 mi:200.0 bear:356.6

Stations that actually do contribute to interference.

Name	NTSC Int	HDTV Int
KAET	3.11 sq km	.00 sq km
KCALTV	12.42 sq km	.00 sq km
DKTNV	.00 sq km	114.67 sq km

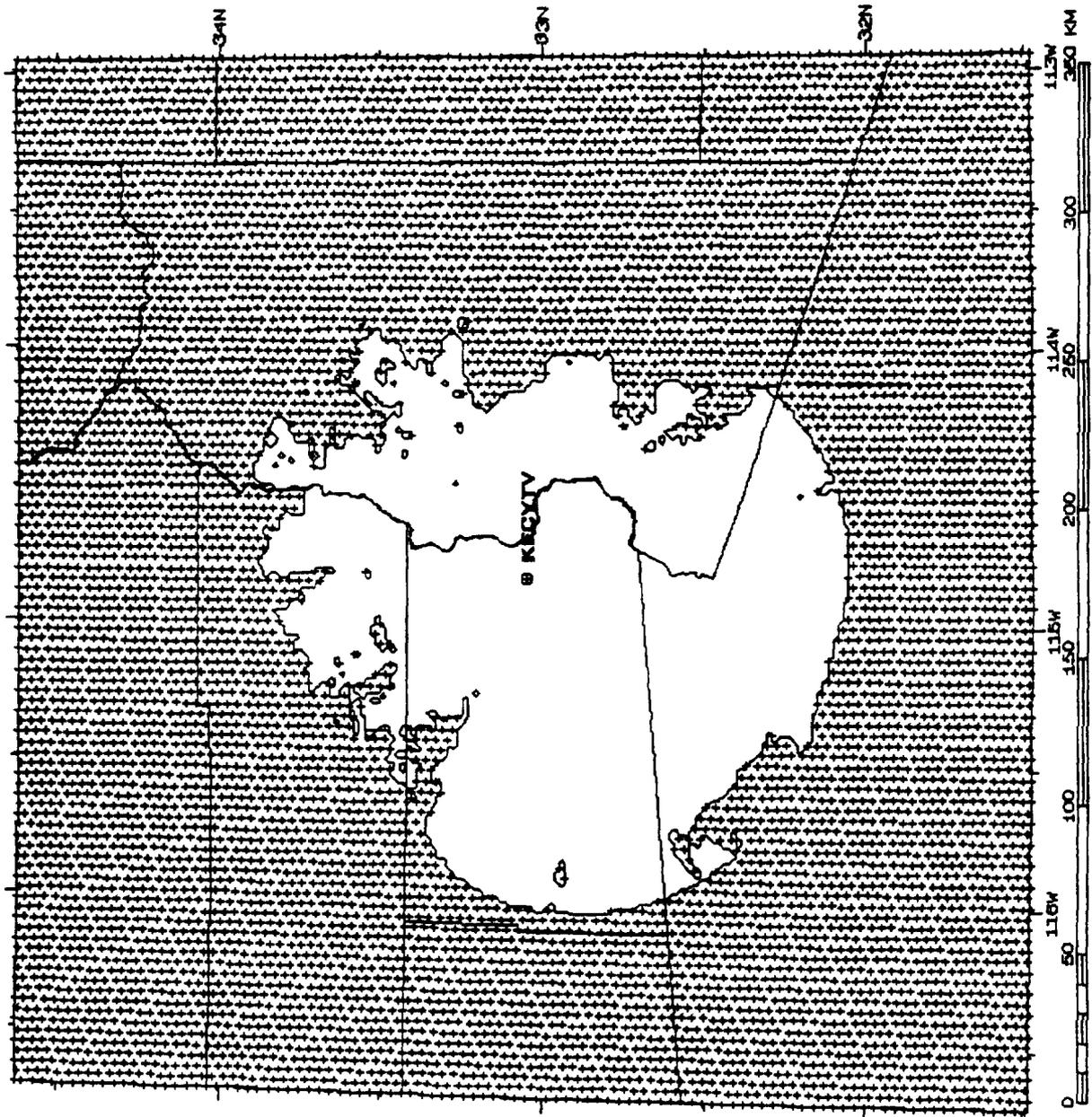
Signal below minimum
 Area: 96100. sq km
 Population: 368000.
 Households: 137000.

Interference
 Area: 130. sq km
 Population: 0.
 Households: 0.

No Interference
 Area: 26340. sq km
 Population: 253000.
 Households: 79000.

FIGURE C-4
KEY-TV-CHANNEL 9
WITH KTNV CHANNEL 9 DTV

TA Services
 WARMUS & ASSOCIATES, INC.
 KEY-TV W/DKTNV9
 21-Apr-97 22:41:13
 RS209Aug2097I.ques



Signal to Interference ratio

- No Interference
 Area: 20340. sq km
 Population: 253000.
 Households: 79000.
- Interference
 Area: 130. sq km
 Population: 0.
 Households: 0.
- Signal below minimum
 Area: 96100. sq km
 Population: 368000.
 Households: 137000.