UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CHEMICAL ANALYSES FOR SELECTED WELLS IN SAN JOAQUIN COUNTY AND PART OF CONTRA COSTA COUNTY, CALIFORNIA

By Gail L. Keeter

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California Department of Water Resources

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CONVERSION FACTORS

The inch-pound system of units is used in this report. For readers who prefer metric (International System) units, the conversion factors for the terms used in this report are listed below.

Multiply	By	To obtain metric unit
mi (mile)	1.609	km (kilometer)
mi^2 (square mile)	2.590	km^2 (square kilometer)

Degrees Celsius are converted to degrees Fahrenheit by the formula:

$$°F = °C(1.8)+32$$

Explanation of abbreviations:
MG/L = milligrams per liter
UG/L = micrograms per liter

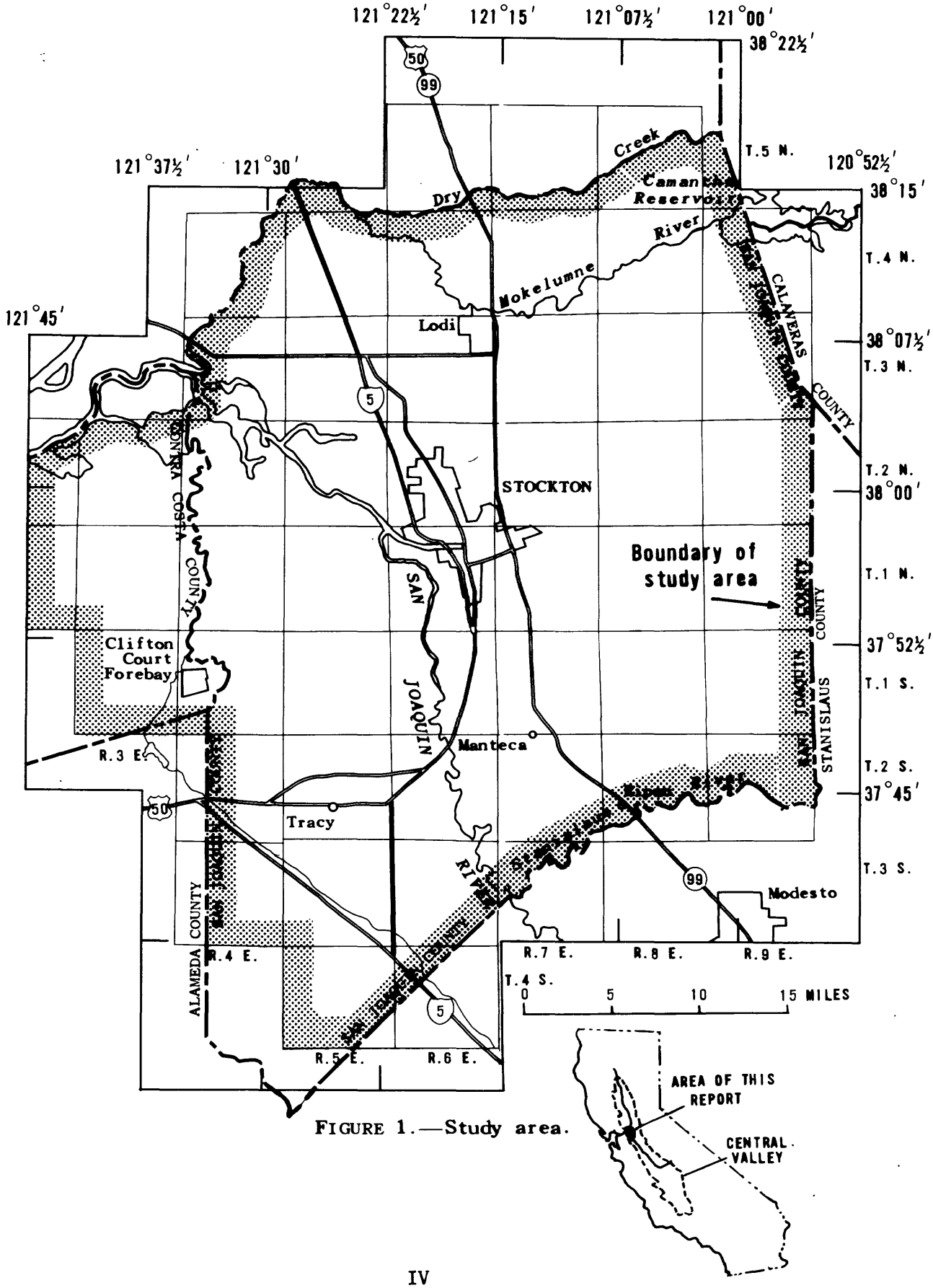
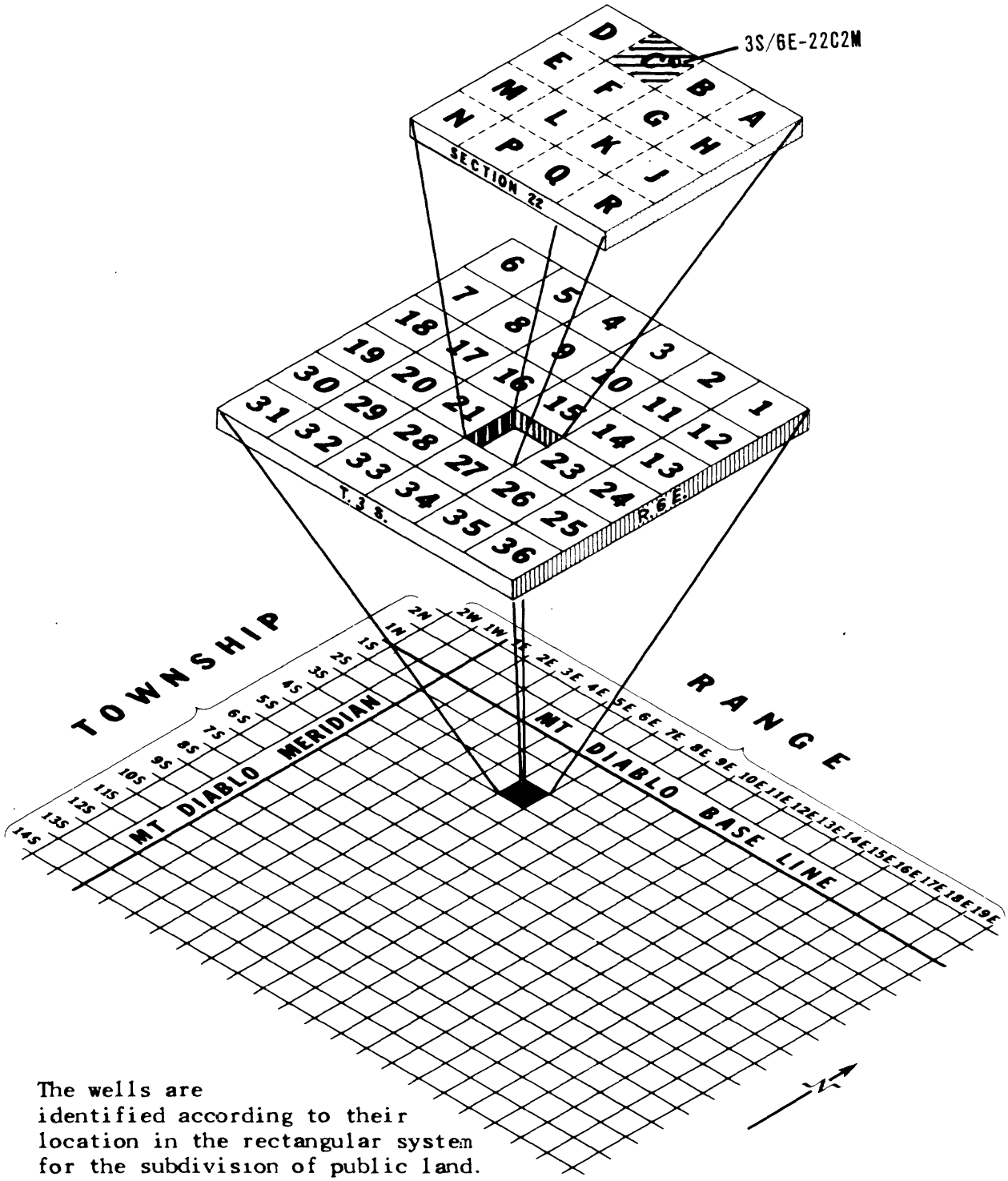


FIGURE 1.—Study area.



The wells are identified according to their location in the rectangular system for the subdivision of public land. The identification consists of the township number, north or south; the range number, east or west; and the section number. The section is further subdivided into sixteen 40-acre tracts lettered consecutively (excepting I and O), beginning with A in the northeast corner of the section and progressing in a sinusoidal manner to R in the southeast corner. Wells within the 40-acre tract are numbered sequentially. The base line and meridian are indicated by the final letter, as follows: H, Humboldt; M, Mount Diablo; S, San Bernardino.

FIGURE 2.—Well-numbering system.

CHEMICAL ANALYSES FOR SELECTED WELLS IN SAN JOAQUIN COUNTY AND PART OF CONTRA COSTA COUNTY, CALIFORNIA

By Gail L. Keeter

The study area of this report includes the eastern valley area of Contra Costa County and all of San Joaquin County, an area of approximately 1,600 square miles in the northern part of the San Joaquin Valley.

Between December 1977 and December 1978, 1,489 wells were selectively canvassed. During May and June in 1978 and 1979, water samples were collected for chemical analysis from 321 of these wells. Field determinations of alkalinity, specific conductance, pH, and temperature were made on site at the time of sampling. The samples were then field prepared for analysis for individual constituents at the U.S. Geological Survey National Water Ouality Laboratory, Arvada, Colo., or at the California Department of Water Resources Laboratory at Bryte, Calif. Chemical data for the wells are listed in tables 1 and 2, and the location of these wells is shown on maps 1-50. Analyses of trace elements and phosphorus shown in table 1, and all analyses shown in table 2 were done at the Geological Survey laboratory. Most of the other analyses were done by the California Department of Water Resources.

This report, prepared in cooperation with the California Department of Water Resources, is the fourth in a series of baseline data reports on wells in the Sacramento Valley and San Joaquin Valley. Additional data are on file with the Geological Survey, Water Resources Division, 2800 Cottage Way, Sacramento, Calif.

Table 1.--*Chemical analyses of water from wells*

["U" preceding State Well Number indicates analysis was done by U.S. Geological Survey. All other analyses were done by California Department of Water Resources]

STATE WELL NUMBER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
01N/02E-01F01M	79-05-01	1260	7.5	18.0	520	120	54	150	6.2	250	270	190
01N/02E-03K01M	79-05-01	2200	7.6	17.5	540	130	52	320	2.7	220	540	280
01N/02E-23G01M	79-05-01	4270	7.2	20.0	1200	260	130	700	12	530	1600	370
01N/02E-25F01M	79-05-01	1380	7.4	18.0	470	98	54	110	1.8	310	130	170
01N/03E-09E01M	79-05-02	1600	7.5	18.0	440	92	52	180	1.5	250	210	260
01N/03E-13C01M	79-05-02	916	7.7	17.5	170	35	19	140	1.3	300	66	90
01N/03E-13G01M	79-05-02	1280	7.5	19.0	240	--	--	--	--	240	180	160
01N/03E-25C01M	79-05-01	900	7.8	19.5	180	43	19	140	1.5	270	83	86
01N/03E-27A01M	79-05-01	1790	7.7	19.5	520	94	70	180	1.0	310	190	330
01N/03E-30L01M	79-05-02	2030	7.7	18.5	530	100	68	260	2.1	480	180	260
01N/05E-06E02M	79-05-02	1580	7.8	18.5	270	56	31	260	2.0	360	3.0	340
01N/05E-14P01M	79-05-02	1830	7.4	19.5	--	--	--	--	--	300	160	410
01N/06E-03R02M	79-05-02	2320	8.0	19.0	330	81	30	330	2.2	260	1.0	520
01N/06E-10D09M	79-05-02	1890	7.9	22.5	290	66	31	280	2.1	140	1.0	520
01N/06E-13B03M	79-05-02	335	8.1	20.5	110	26	10	33	2.1	110	7.0	41
01N/06E-22K01M	79-05-03	1140	7.8	18.5	250	64	21	130	2.5	140	5.0	290
01N/06E-34P01M	79-05-03	3420	7.3	18.5	940	260	71	300	5.9	170	4.0	1000
01N/06E-35J02M	79-05-03	708	7.5	17.0	240	56	24	37	4.4	110	15	120
01N/07E-04F01M	78-06-29	166	8.1	21.0	22	4.8	2.5	40	1.7	100	1.3	6.2
01N/07E-06H01M	79-05-03	280	7.4	19.5	96	22	10	14	3.9	110	11	6.0
01N/07E-09E05M	79-05-03	270	7.6	19.0	82	18	9.0	26	3.1	100	6.0	18
01N/07E-12D01M	79-05-08	203	7.5	19.0	66	15	7.0	14	3.7	86	5.0	7.0
U01N/07E-16L01M	78-06-29	266	7.9	21.0	34	7.3	3.9	50	2.1	150	1.3	16
01N/07E-19G01M	79-05-08	360	7.7	18.0	120	27	13	28	3.3	130	9.0	28
01N/07E-25H03M	79-05-03	212	7.6	20.5	76	17	8.0	14	4.4	80	3.0	11
01N/07E-33H01M	79-05-08	320	7.6	19.0	110	25	11	20	3.6	100	10	26
01N/08E-01A01M	78-06-28	200	7.6	21.0	71	14	8.8	14	3.8	85	4.4	7.6
01N/08E-03C02M	78-06-28	186	7.5	20.0	68	14	8.2	12	2.6	77	3.1	7.7
01N/08E-08H01M	78-06-28	205	7.5	20.0	71	14	8.8	16	2.0	80	3.3	12
01N/08E-12A01M	78-06-28	215	7.6	22.5	74	15	9.0	14	3.6	79	4.3	10
01N/08E-15J01M	78-06-28	--	--	--	520	100	65	37	2.9	400	33	76
01N/08E-20P01M	78-06-28	228	7.7	21.5	78	17	8.7	17	4.8	84	3.3	14
01N/08E-30H01M	78-06-28	234	7.7	21.5	84	17	10	15	4.0	85	3.6	18
01N/08E-33C01M	78-06-28	292	7.4	18.5	110	20	14	23	2.6	120	10	16
01N/08E-34F01M	78-06-28	191	7.6	21.0	66	13	8.2	16	1.9	87	3.4	8.1
01N/08E-35D01M	78-06-28	572	7.3	22.0	220	44	27	33	2.0	250	14	21
01N/09E-14P01M	78-06-27	187	7.6	21.0	59	12	7.1	14	3.3	67	5.3	11
01N/09E-15Q01M	78-06-27	217	7.0	21.5	72	15	8.4	15	3.7	72	4.3	14
01N/09E-16F01M	78-06-27	226	7.3	20.0	83	17	9.8	14	3.4	87	2.1	14
01N/09E-20J02M	78-06-27	255	7.2	19.5	92	19	11	17	3.6	64	10	18

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
01N/02E-01F01M	79-05-01	.5	39	1080	8.4	--	--	--	700	--	--
01N/02E-03K01M	79-05-01	1.2	22	1600	5.4	.00	0	2	2400	20	10
01N/02E-23N01M	79-05-01	.3	44	3520	.81	--	--	--	1800	--	--
01N/02E-25F01M	79-05-01	.2	22	886	6.8	.00	0	2	1800	10	140
01N/03E-09E01M	79-05-02	.2	25	1070	4.7	.10	0	3	2000	10	0
01N/03E-13C01M	79-05-02	.1	27	604	.00	--	--	--	2400	--	--
01N/03E-18G01M	79-05-02	.3	24	885	7.2	--	--	--	1500	--	--
01N/03E-25C01M	79-05-01	.2	24	586	.00	.09	0	2	2600	20	140
01N/03E-27R01M	79-05-01	.6	22	1200	.00	--	--	--	3100	--	--
01N/03E-30L01M	79-05-02	.4	24	1280	12	.02	0	3	3800	30	0
01N/05E-06E02M	79-05-02	.0	--	977	.29	--	--	--	1100	--	--
01N/05E-14P01M	79-05-02	.1	21	1300	.00	.19	0	38	0	--	3100
01N/06E-08R02M	79-05-02	.0	35	1210	.00	--	--	--	700	--	--
01N/06E-10Q09M	79-05-02	.0	56	1170	.00	.04	0	42	1000	280	600
01N/06E-13R03M	79-05-02	.1	42	229	.00	--	--	--	0	--	--
01N/06E-22K01M	79-05-03	.0	38	735	.00	.03	0	14	500	30	360
01N/06E-34P01M	79-05-03	.0	29	2170	.02	.00	0	2	400	670	1200
01N/06E-35J02M	79-05-03	.1	46	467	9.9	--	--	--	0	--	--
01N/07E-04F01M	78-06-29	.1	58	184	.07	.11	0	11	100	20	40
01N/07E-06R01M	79-05-03	.1	62	218	.50	--	--	--	0	--	--
01N/07E-09E05M	79-05-03	.1	60	221	1.5	.02	0	23	0	20	0
01N/07E-12Q01M	79-05-08	.1	62	172	1.3	--	--	--	0	--	--
U01N/07E-16L01M	78-06-29	.1	58	211	.29	.08	0	15	500	20	0
01N/07E-19G01M	79-05-08	.1	57	264	1.9	.00	100	11	0	0	0
01N/07E-26H03M	79-05-03	.1	67	197	2.3	--	--	--	0	--	--
01N/07E-33H01M	79-05-08	.1	53	228	.99	--	--	--	100	--	--
01N/08E-01A01M	78-06-28	.1	75	183	1.9	.04	0	2	0	20	5
01N/08E-03C02M	78-06-28	.2	70	171	2.1	--	--	--	0	--	--
01N/08E-08H01M	78-06-28	.3	66	179	1.8	--	--	--	0	--	--
01N/08E-12A01M	78-06-28	.3	78	197	3.2	--	--	--	0	--	--
01N/08E-15J01M	78-06-28	.1	65	744	15	.05	0	2	0	30	10
01N/08E-20P01M	78-06-28	.3	69	196	1.4	--	--	--	0	--	--
01N/08E-30B01M	78-06-28	.1	69	196	2.1	.03	0	4	0	20	20
01N/08E-33C01M	78-06-28	.1	69	228	.63	.03	0	3	100	20	20
01N/08E-34F01M	78-06-28	.2	74	179	1.1	--	--	--	100	--	--
01N/08E-35D01M	78-06-28	.1	67	353	1.8	.04	0	4	100	20	10
01N/09E-14R01M	78-06-27	.2	72	173	1.8	--	--	--	100	--	--
01N/09E-15G01M	78-06-27	.1	74	192	3.2	.06	0	2	100	10	5
01N/09E-16F01M	78-06-27	.2	73	196	2.7	--	--	--	0	--	--
01N/09E-20J02M	78-06-27	.2	72	213	4.7	.09	0	2	100	20	0

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
01N/09E-26A01M	78-06-27	201	7.3	20.5	82	17	9.5	16	2.9	82	10	13
01N/09E-35P01M	78-06-28	193	7.6	20.5	64	13	7.6	16	1.8	75	5.1	12
01S/03E-09A01M	79-06-05	1110	7.6	28.0	260	64	29	110	1.9	270	84	140
01S/04E-13K03M	79-06-05	763	8.0	22.0	88	20	9.0	120	.8	210	68	57
01S/04E-25U01M	79-06-05	1470	8.0	19.5	68	12	9.0	170	.9	230	130	57
01S/04E-33M01M	79-06-06	4570	7.5	23.0	700	120	98	760	3.4	230	640	980
01S/05E-12R01M	79-06-06	2340	7.3	20.5	300	67	34	340	2.6	310	26	550
01S/05E-23R02M	79-06-06	928	7.4	24.0	290	80	22	81	1.5	--	88	130
01S/05E-32R01M	79-06-06	262	7.8	23.5	78	19	7.0	24	.9	92	5.0	17
01S/05E-35N01M	79-06-06	1270	8.1	22.0	200	51	15	180	3.4	130	150	230
01S/06E-02D04M	79-06-06	1510	7.5	21.0	330	92	23	140	3.5	170	5.0	350
01S/06E-10L01M	79-06-06	2530	7.6	20.5	790	230	53	200	5.4	240	34	670
01S/06E-14P01M	79-06-12	1350	7.5	26.0	460	130	31	83	4.6	0	37	310
01S/06E-17L01M	79-06-06	4780	7.4	23.0	1100	340	71	500	4.1	130	8.0	1500
01S/06E-30A01M	79-06-06	329	8.3	21.0	28	10	1.0	57	.7	74	10	50
01S/06E-33R01M	79-06-12	1150	7.8	19.0	270	74	22	100	2.3	130	16	280
01S/06E-35H01M	79-06-12	460	7.6	20.5	170	48	12	37	3.4	200	22	18
01S/07E-07E02M	79-05-08	1020	7.5	19.0	380	91	38	100	5.0	490	53	11
01S/07E-11F01M	79-05-08	540	7.6	19.0	220	49	24	28	5.6	180	32	34
01S/07E-21L01M	79-05-09	584	7.7	13.0	170	44	15	54	4.4	240	16	2.0
01S/07E-23H02M	79-05-09	411	7.5	14.0	130	33	12	26	5.1	140	10	18
01S/07E-25R02M	79-05-09	252	7.6	19.0	89	24	7.0	15	4.3	88	14	4.0
01S/07E-29R02M	79-05-09	421	7.7	13.5	160	41	13	20	4.1	160	13	18
01S/07E-35P01M	79-05-09	291	7.7	19.5	120	30	10	17	3.8	110	13	5.0
01S/08E-02J01M	79-05-09	206	7.5	22.0	66	13	8.0	14	2.9	76	8.0	13
01S/08E-13M01M	79-05-09	638	7.6	21.0	240	53	27	33	3.8	240	18	36
01S/08E-22R02M	79-05-10	493	7.3	19.5	200	42	22	23	3.6	210	15	19
01S/08E-30D03M	79-05-10	384	7.2	19.0	170	42	15	20	5.2	190	7.0	13
01S/08E-32P01M	79-05-10	610	7.5	20.0	250	58	25	27	4.7	230	36	22
01S/09E-05N02M	79-05-10	212	7.3	22.0	74	15	9.0	16	2.8	76	8.0	14
01S/09E-11J02M	79-05-10	--	--	--	68	14	8.0	14	3.2	110	8.0	16
01S/09E-22D01M	79-05-10	232	7.6	20.0	74	15	9.0	17	2.5	94	4.0	9.0
01S/09E-24R02M	79-05-10	327	7.2	16.0	120	26	14	21	2.8	120	7.0	18
01S/09E-30M01M	79-05-10	462	7.1	19.5	220	48	25	24	3.0	220	14	14
01S/09E-33P01M	79-05-15	242	7.4	20.0	84	22	7.0	17	2.9	96	3.0	6.0
01S/09E-35H01M	79-05-15	373	7.0	20.0	160	33	18	18	2.4	140	12	6.0
02N/02E-36M01M	79-06-05	1730	7.6	20.5	620	150	60	95	4.3	310	69	320
02N/03E-10D01M	79-06-05	2400	7.9	19.0	380	84	40	340	4.7	190	51	610
02N/03E-15Q01M	79-06-05	1330	8.1	25.0	300	63	35	140	3.8	270	73	200
02N/03E-29M01M	79-06-05	1860	7.4	22.0	690	140	82	150	3.2	360	310	170

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
01N/09E-26A01M	78-06-27	.3	70	197	2.5	--	--	--	100	--	--
01N/09E-35P01M	78-06-28	.2	67	175	2.1	.04	0	2	0	30	5
01S/03E-09A01M	79-06-05	.3	29	642	--	--	--	--	1900	--	--
01S/04E-13K03M	79-06-05	.1	24	443	.00	--	--	--	900	--	--
01S/04E-25D01M	79-06-05	--	25	543	.02	.57	0	10	1300	40	150
01S/04E-33M01M	79-06-06	.3	54	2980	14	.02	0	6	10000	20	10
01S/05E-12R01M	79-06-06	.3	31	1220	.00	--	--	--	400	--	--
01S/05E-23R02M	79-06-06	.3	34	591	.99	--	--	--	200	--	--
01S/05E-32R01M	79-06-06	.2	24	164	.00	.06	0	3	200	0	90
01S/05E-36N01M	79-06-06	.0	38	773	.02	--	--	--	1000	--	--
01S/06E-02D04M	79-06-06	.0	46	924	.00	--	--	--	300	--	--
01S/06E-10L01M	79-06-06	.0	45	1690	2.9	.02	0	4	300	10	480
01S/06E-14P01M	79-06-12	.1	44	816	.05	.00	0	4	0	10	450
01S/06E-17L01M	79-06-06	.0	26	3050	.00	--	--	--	300	--	--
01S/06E-30A01M	79-06-06	.2	23	206	.00	.49	0	4	200	10	40
01S/06E-33R01M	79-06-12	.0	34	788	.02	--	--	--	200	--	--
01S/06E-36B01M	79-06-12	.1	50	276	2.7	.00	0	14	100	10	10
01S/07E-07E02M	79-05-08	.1	55	633	8.8	--	--	--	700	--	--
01S/07E-11F01M	79-05-08	.1	66	420	9.9	.00	0	5	100	0	0
01S/07E-21L01M	79-05-09	.1	57	378	8.8	--	--	--	100	--	--
01S/07E-23B02M	79-05-09	.1	59	277	5.6	.00	100	5	100	0	0
01S/07E-26R02M	79-05-09	.2	62	211	5.6	--	--	--	0	--	--
01S/07E-29R02M	79-05-09	.1	58	284	3.2	.00	0	9	0	0	0
01S/07E-35P01M	79-05-09	.2	59	238	6.6	.01	0	9	100	0	0
01S/08E-02J01M	79-05-09	.2	80	203	1.8	.03	0	3	100	10	0
01S/08E-13M01M	79-05-09	.1	70	405	3.4	--	--	--	0	--	--
01S/08E-22R02M	79-05-10	.1	67	333	5.2	.02	0	4	100	0	0
01S/08E-30D03M	79-05-10	.1	59	281	.70	--	--	--	0	--	--
01S/08E-32P01M	79-05-10	.1	62	421	6.8	--	--	--	0	--	--
01S/09E-05N02M	79-05-10	.1	73	202	1.9	--	--	--	100	--	--
01S/09E-11J02M	79-05-10	.2	72	200	2.0	--	--	--	0	--	--
01S/09E-22D01M	79-05-10	.2	72	205	1.9	--	--	--	100	--	--
01S/09E-24R02M	79-05-10	.2	71	--	4.1	.02	0	3	0	0	10
01S/09E-30M01M	79-05-10	.1	65	344	5.0	.04	0	4	0	10	0
01S/09E-33P01M	79-05-15	.2	6.7	202	4.5	.02	0	4	0	0	0
01S/09E-35H01M	79-05-15	.1	66	279	9.5	--	--	--	0	--	--
02N/02E-36M01M	79-06-05	.2	33	931	2.7	--	--	--	200	--	--
02N/03E-10D01M	79-06-05	.0	41	1320	.02	.01	0	1	1800	0	320
02N/03E-15Q01M	79-06-05	.0	34	768	.02	--	--	--	500	--	--
02N/03E-29M01M	79-06-05	.1	35	1260	21	.08	0	3	1700	10	300

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
02N/04E-02R01M	78-06-13	437	7.2	18.5	140	30	17	36	2.1	170	3.4	46
02N/04E-21G01M	78-06-13	912	6.5	18.5	250	55	28	38	2.9	410	.2	42
02N/04E-28G01M	78-06-13	1020	7.5	17.5	140	31	15	180	1.9	430	.5	78
02N/04E-33G02M	78-06-13	862	7.7	19.5	86	19	9.4	160	1.6	320	47	56
02N/05E-36E03M	78-06-13	360	7.3	22.0	54	12	5.9	47	2.4	92	32	37
02N/05E-36K01M	78-06-13	929	7.8	21.0	78	18	8.2	180	2.0	330	.5	100
02N/06E-05D01M	78-06-14	821	7.4	18.5	380	96	33	34	3.8	370	31	33
02N/06E-07P01M	78-06-14	535	7.6	18.0	220	54	21	30	1.8	200	14	50
02N/06E-08P03M	78-06-14	255	7.6	20.0	110	27	9.2	14	3.4	140	8.2	10
02N/06E-15D02M	78-06-29	242	8.1	22.0	56	14	5.0	31	4.1	110	3.4	13
02N/06E-16R01M	78-06-29	383	7.8	20.0	150	36	14	18	4.1	140	12	44
02N/06E-20M02M	78-06-29	512	8.0	20.5	32	7.7	3.0	110	4.2	200	.0	54
02N/06E-31H01M	78-06-29	1220	7.9	18.5	200	47	20	180	2.8	190	.0	310
02N/07E-02M01M	78-06-14	306	7.3	20.0	130	27	16	15	4.0	140	12	8.0
02N/07E-04J01M	78-06-14	706	7.2	19.5	320	64	39	23	5.1	230	38	27
02N/07E-07J06M	78-06-14	270	7.4	18.5	120	25	15	10	3.2	130	6.9	8.0
02N/07E-07Q01M	78-06-14	306	7.4	18.0	130	25	16	11	4.7	160	11	8.7
02N/07E-08N02M	78-06-14	306	7.4	18.0	140	28	17	10	3.0	140	9.9	7.7
02N/07E-10R01M	78-06-14	278	8.0	22.5	120	26	14	13	4.4	140	4.6	7.1
U02N/07E-11F01M	78-06-20	251	7.7	21.5	110	26	11	11	5.7	110	8.0	4.8
U02N/07E-11M01M	78-06-14	308	7.5	19.5	140	30	16	14	4.6	210	10	8.4
02N/07E-11R02M	78-06-20	253	7.6	20.5	110	25	11	12	5.8	120	5.4	5.6
02N/07E-12J02M	78-06-20	734	6.9	19.0	570	73	34	25	5.3	270	37	22
02N/07E-13D01M	78-06-20	365	7.3	18.5	180	37	20	15	2.6	180	5.4	12
02N/07E-14R02M	78-06-20	367	7.3	19.5	160	34	18	16	3.9	170	8.9	9.4
02N/07E-19P03M	78-06-20	373	7.5	19.5	150	31	18	23	4.3	160	34	6.6
02N/07E-20E04M	78-06-20	347	7.4	19.5	150	32	17	16	4.4	150	25	8.8
02N/07E-20G01M	78-06-20	675	7.5	21.0	280	58	34	21	4.7	230	43	39
02N/07E-22H02M	78-06-20	214	7.3	21.0	82	17	9.5	12	4.2	100	3.1	7.0
02N/07E-23A01M	78-06-20	431	7.4	19.5	200	43	23	20	4.1	200	11	15
02N/07E-25M01M	78-06-21	212	7.7	21.0	78	18	8.1	13	6.5	98	4.3	5.4
02N/07E-26A01M	78-06-21	232	7.8	19.5	88	19	10	14	3.7	110	2.5	5.3
02N/07E-30D01M	78-06-21	423	7.7	21.5	180	39	21	23	4.5	180	28	11
02N/07E-30J01M	78-06-20	356	7.4	20.5	140	30	16	22	4.4	170	8.2	11
02N/07E-33F03M	78-06-21	286	7.6	19.5	120	26	12	15	6.2	130	5.8	10
U02N/07E-33F04M	78-06-22	572	7.6	22.0	240	60	23	28	8.1	210	22	40
U02N/07E-33L02M	78-06-21	475	7.6	20.0	190	46	18	20	8.0	180	16	31
02N/07E-35P01M	78-06-21	187	7.5	21.0	60	14	6.2	14	5.5	82	6.4	6.2
02N/07E-36L01M	78-06-21	303	7.6	21.0	68	16	6.9	14	5.0	72	7.4	6.4
02N/08E-02C01M	78-06-21	258	7.1	21.5	110	26	11	11	4.2	120	6.7	7.2

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
02N/04E-02R01M	78-06-13	.0	60	294	.02	.25	10	35	300	10	460
02N/04E-21G01M	78-06-13	.2	34	418	.02	--	--	--	100	--	--
02N/04E-28G01M	78-06-13	.0	38	604	.00	.59	10	0	1700	30	210
02N/04E-33G02M	78-06-13	.1	40	538	.00	--	--	--	1600	--	--
02N/05E-36E03M	78-06-13	.2	14	203	.05	.08	20	3	300	60	120
02N/05E-36K01M	78-06-13	.1	32	560	.02	--	--	--	800	--	--
02N/06E-05D01M	78-06-14	.2	41	484	5.0	--	--	--	0	--	--
02N/06E-07P01M	78-06-14	.2	34	326	.00	--	--	--	0	--	--
02N/06E-08P03M	78-06-14	.1	39	185	.20	.04	20	12	0	0	5
02N/06E-15D02M	78-06-29	.2	48	180	.00	--	--	--	100	--	--
02N/06E-16R01M	78-06-29	.1	50	270	.22	.03	0	6	0	10	90
02N/06E-20M02M	78-06-29	.2	56	361	.00	--	--	--	1100	--	--
02N/06E-31H01M	78-06-29	.0	36	748	.00	.06	0	15	800	30	280
02N/07E-02M01M	78-06-14	.2	55	240	.68	--	--	--	0	--	--
02N/07E-04J01M	78-06-14	.1	62	475	6.1	.02	10	1	0	0	10
02N/07E-07J06M	78-06-14	.3	52	219	.45	--	--	--	0	--	--
02N/07E-07Q01M	78-06-14	.1	59	220	.45	.04	10	2	0	0	10
02N/07E-08N02M	78-06-14	.2	60	227	.86	.04	0	3	0	10	0
02N/07E-10R01M	78-06-14	.1	61	223	.36	.03	10	2	0	10	10
U02N/07E-11F01M	78-06-20	.1	70	199	.50	.02	20	2	30	70	0
U02N/07E-11M01M	78-06-14	.1	61	226	.91	.02	0	2	20	0	0
02N/07E-11R02M	78-06-20	.1	68	230	.61	.01	20	1	0	0	0
02N/07E-12J02M	78-06-20	.1	68	560	12	--	--	--	0	--	--
02N/07E-13D01M	78-06-20	.2	63	279	2.2	--	--	--	0	--	--
02N/07E-14R02M	78-06-20	.1	62	277	2.1	--	--	--	0	--	--
02N/07E-19P03M	78-06-20	.1	57	295	2.7	--	10	3	0	10	0
02N/07E-20E04M	78-06-20	.1	61	273	1.1	--	--	--	0	--	--
02N/07E-20G01M	78-06-20	.1	57	489	2.5	.01	20	2	0	0	5
02N/07E-22H02M	78-06-20	.1	56	201	.18	.01	30	1	0	0	110
02N/07E-23A01M	78-06-20	.1	59	320	2.7	.01	10	2	0	10	5
02N/07E-25M01M	78-06-21	.1	70	215	.90	.02	20	2	0	0	0
02N/07E-26A01M	78-06-21	.1	69	217	1.4	--	--	--	0	--	--
02N/07E-30D01M	78-06-21	.2	64	318	2.7	--	--	--	0	--	--
02N/07E-30J01M	78-06-20	.2	68	278	1.4	--	--	--	0	--	--
02N/07E-33F03M	78-06-21	.2	69	245	2.0	--	--	--	0	--	--
U02N/07E-33F04M	78-06-22	.1	60	395	.57	.01	30	4	40	0	5
U02N/07E-33L02M	78-06-21	.1	69	334	.56	.01	10	4	40	0	0
02N/07E-35P01M	78-06-21	.1	64	194	.68	--	--	--	0	--	--
02N/07E-36L01M	78-06-21	.1	71	206	.58	.01	10	3	0	10	0
02N/08E-02C01M	78-06-21	.1	62	215	.90	.05	20	1	0	10	0

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
02N/08E-03N01M	78-06-21	258	7.6	17.0	110	26	11	11	3.2	110	11	6.8
02N/08E-07A01M	78-06-21	306	7.5	22.0	140	30	16	13	2.6	160	4.3	6.1
02N/08E-09A01M	78-06-21	237	7.6	18.5	110	26	10	10	3.4	120	7.9	6.1
02N/08E-10M02M	78-06-21	275	7.4	20.0	130	29	13	11	2.1	--	5.1	6.1
02N/08E-13G01M	78-06-22	212	7.3	19.0	90	20	9.7	9.0	2.6	85	15	6.8
02N/08E-19R01M	78-06-22	253	7.7	19.0	110	22	13	13	3.4	130	2.8	6.1
02N/08E-20F02M	78-06-22	322	7.8	20.0	150	31	17	14	3.6	170	5.1	7.6
02N/08E-23B01M	78-06-22	221	7.1	19.5	98	21	11	7.0	.5	79	18	8.2
02N/08E-28Q01M	78-06-22	337	7.5	20.5	150	30	18	16	4.0	160	6.4	8.1
02N/08E-30G01M	78-06-22	208	7.6	19.5	88	19	10	13	3.9	110	2.3	5.1
02N/08E-33P02M	78-06-22	262	7.4	19.5	110	22	13	12	2.0	110	12	9.2
02N/09E-06Q01M	78-06-22	237	7.0	20.5	100	25	9.3	9.0	2.8	95	14	8.1
02N/09E-08N01M	78-06-22	242	7.4	19.5	100	24	11	10	3.6	110	4.0	6.4
02N/09E-11A01M	78-06-27	298	7.1	20.5	110	25	12	11	4.2	110	14	9.2
02S/04E-11R01M	79-06-12	800	8.1	25.0	120	29	12	120	.9	96	180	64
02S/04E-21H01M	79-06-12	2580	7.8	22.0	300	45	46	420	1.6	320	210	480
02S/04E-25H01M	79-05-24	2970	7.7	20.0	790	190	79	360	4.1	130	680	450
02S/04E-26D01M	79-05-24	2300	7.8	20.0	410	70	58	320	1.8	130	260	440
02S/04E-33B01M	79-05-24	2040	8.0	23.5	390	53	64	300	5.8	--	470	240
02S/04E-35H01M	79-05-24	3960	7.8	22.0	760	140	100	590	3.3	160	1300	420
02S/04E-36R03M	79-05-24	1940	7.5	22.5	490	120	46	210	3.1	150	400	250
02S/05E-06R01M	79-05-23	458	7.8	23.0	100	23	10	61	.9	120	40	48
02S/05E-09J01M	79-05-23	1670	7.4	21.0	490	120	46	170	3.2	230	280	240
02S/05E-12N01M	79-05-23	2030	7.6	19.5	670	160	69	170	2.5	240	460	240
02S/05E-18N01M	79-05-23	2290	7.8	25.5	700	180	61	200	4.2	120	390	420
02S/05E-24C02M	79-05-23	2340	7.6	22.0	830	210	76	190	3.9	240	350	410
02S/05E-32F01M	79-05-23	1480	7.6	21.0	370	93	34	160	3.5	250	150	200
02S/05E-34A01M	79-05-23	1400	7.6	21.5	480	110	48	100	2.8	200	130	240
02S/05E-36M01M	79-05-23	2200	7.4	21.0	720	160	79	150	2.5	320	230	360
02S/06E-04R01M	79-05-22	1210	7.9	20.5	200	68	13	140	2.3	150	20	250
02S/06E-07P01M	79-05-22	931	8.1	23.0	160	29	20	130	2.7	130	210	73
02S/06E-11R01M	79-05-22	432	7.8	20.5	150	44	10	50	2.2	170	20	37
02S/06E-25H01M	79-05-22	820	7.5	20.0	240	54	24	84	3.1	250	34	79
02S/06E-30E01M	79-05-23	1730	7.6	24.0	410	94	42	190	5.3	140	160	370
02S/07E-01H01M	79-05-22	--	7.6	19.5	160	43	13	22	4.1	130	26	9.0
02S/07E-09N04M	79-05-22	1280	7.5	19.5	560	150	46	48	5.5	240	110	53
02S/07E-15P01M	79-05-22	356	7.7	18.5	130	35	10	18	2.5	100	30	10
02S/07E-18A01M	79-05-22	880	7.4	18.5	370	100	30	38	4.8	360	49	20
02S/07E-24R02M	79-05-17	672	7.8	20.0	260	72	20	43	5.7	180	45	51
02S/07E-27D02M	79-05-17	615	7.7	22.0	250	67	19	43	3.8	210	39	26

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
02N/08E-03N01M	78-06-21	.1	55	214	.68	--	--	--	0	--	--
02N/08E-07A01M	78-06-21	.1	64	245	.59	--	--	--	0	--	--
02N/08E-09A01M	78-06-21	.0	53	206	.41	.04	30	7	0	0	0
02N/08E-10M02M	78-06-21	.1	52	215	.68	--	--	--	0	--	--
02N/08E-13G01M	78-06-22	--	60	200	.63	.03	10	1	0	10	0
02N/08E-19R01M	78-06-22	.1	67	227	.90	.03	20	2	0	10	10
02N/08E-20F02M	78-06-22	.1	70	254	.81	--	--	--	0	--	--
02N/08E-23B01M	78-06-22	.2	39	196	.99	--	--	--	0	--	--
02N/08E-28Q01M	78-06-22	.1	67	269	3.6	<3.0	10	2	0	0	0
02N/08E-30G01M	78-06-22	.2	72	219	.86	--	--	--	0	--	--
02N/08E-33P02M	78-06-22	.2	66	220	1.1	--	--	--	0	--	--
02N/09E-06Q01M	78-06-22	.1	56	182	.77	.04	0	1	0	10	0
02N/09E-08N01M	78-06-22	.2	58	187	1.6	--	--	--	0	--	--
02N/09E-11A01M	78-06-27	.1	64	210	1.1	.05	0	2	0	10	0
02S/04E-11R01M	79-06-12	.1	25	492	1.6	--	0	8	800	10	0
02S/04E-21H01M	79-06-12	.0	53	1560	19	--	--	--	3300	--	--
02S/04E-25H01M	79-05-24	.1	32	2060	20	.01	0	5	2900	10	0
02S/04E-26D01M	79-05-24	.2	52	1400	19	.00	0	10	2800	20	10
02S/04E-33B01M	79-05-24	.7	33	1360	9.9	--	--	--	3200	--	--
02S/04E-35H01M	79-05-24	.0	31	--	9.9	--	--	--	3700	--	--
02S/04E-36R03M	79-05-24	.1	40	--	14	--	--	--	1800	--	--
02S/05E-04R01M	79-05-23	.2	25	286	.00	--	--	--	0	--	--
02S/05E-09J01M	79-05-23	.1	27	1120	2.5	.00	0	2	2200	610	40
02S/05E-12N01M	79-05-23	.1	25	1420	2.7	--	--	--	2200	--	--
02S/05E-18N01M	79-05-23	.1	32	1600	9.7	.00	0	1	1700	10	20
02S/05E-24C02M	79-05-23	.1	27	1550	.99	.00	0	1	2600	10	10
02S/05E-32F01M	79-05-23	.1	37	830	9.9	--	--	--	1100	--	--
02S/05E-34A01M	79-05-23	.1	36	924	9.0	.00	0	1	1400	0	10
02S/05E-36M01M	79-05-23	.1	25	1400	2.7	--	--	--	1900	--	--
02S/06E-04R01M	79-05-22	.0	29	678	.02	--	--	--	200	--	--
02S/06E-07P01M	79-05-22	.1	27	554	.52	.04	0	5	800	0	80
02S/06E-11R01M	79-05-22	.1	41	348	2.0	--	--	--	100	--	--
02S/06E-25H01M	79-05-22	.1	42	473	5.2	.12	0	16	100	0	70
02S/06E-30E01M	79-05-23	.1	26	1080	1.7	--	--	--	800	--	--
02S/07E-01H01M	79-05-22	.2	62	339	11	.02	100	1	0	10	20
02S/07E-09N04M	79-05-22	.0	50	936	63	.00	0	9	0	0	0
02S/07E-15P01M	79-05-22	.1	47	289	8.8	--	--	--	0	--	--
02S/07E-18A01M	79-05-22	.0	51	497	11	--	--	--	100	--	--
02S/07E-24R02M	79-05-17	.1	58	494	15	.00	100	6	100	0	0
02S/07E-27D02M	79-05-17	.1	52	389	5.2	.02	100	8	100	0	0

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
02S/07E-30H01M	79-05-17	627	7.7	20.5	220	57	18	48	3.0	220	23	49
02S/07E-35E01M	79-05-17	667	7.6	19.0	260	68	21	54	4.0	300	20	13
02S/08E-03J01M	79-05-16	318	7.6	20.5	120	29	11	18	2.8	110	6.0	16
02S/08E-09R01M	79-05-16	399	7.6	20.5	140	34	13	25	3.6	76	48	11
02S/08E-12D02M	79-05-16	315	7.6	21.0	100	24	10	26	2.6	130	28	4.0
02S/08E-13H01M	79-05-16	242	7.6	23.0	110	20	14	9.0	2.2	100	14	2.0
02S/08E-19C01M	79-05-16	832	7.5	20.0	290	79	22	24	5.5	140	110	110
02S/08E-20J02M	79-05-17	380	7.5	19.5	140	33	14	26	4.6	120	17	31
02S/09E-03K02M	79-05-15	484	7.4	21.5	210	46	22	25	3.0	200	22	15
02S/09E-04B01M	79-05-16	242	7.0	19.5	89	20	9.0	20	3.0	100	5.0	6.0
02S/09E-10Q01M	79-05-15	471	7.6	22.0	180	41	18	34	2.9	160	46	6.0
02S/09E-12R01M	79-05-15	247	7.5	20.5	97	24	9.0	18	2.4	110	6.0	5.0
02S/09E-22A01M	79-05-15	252	7.5	21.5	77	20	6.0	22	2.8	100	14	3.0
03N/05E-03J01M	78-05-30	972	7.5	21.0	310	73	32	90	.6	330	18	110
03N/05E-08R01M	78-05-30	2910	7.1	18.5	830	160	100	300	1.3	450	59	700
03N/05E-13C01M	78-05-30	644	7.3	19.5	210	46	22	67	2.4	310	14	19
U03N/05E-19B02M	78-05-30	110	7.1	22.5	45	10	4.8	5.8	1.8	39	15	3.1
03N/05E-24P01M	78-05-30	1300	7.4	21.0	410	86	47	76	4.6	180	9.0	270
03N/05E-32N01M	78-05-30	795	6.9	22.0	190	42	20	90	.5	280	7.1	79
03N/06E-03B02M	78-05-31	217	7.5	19.0	78	16	9.1	16	3.1	100	3.4	6.0
03N/06E-05C02M	78-05-31	161	7.5	20.0	45	9.6	5.1	20	.4	74	7.4	3.5
03N/06E-08A11M	78-05-31	604	7.1	18.5	260	55	29	32	3.7	250	44	21
03N/06E-08K06M	78-06-01	245	7.6	20.0	76	16	8.9	22	2.8	100	3.3	20
03N/06E-10H02M	78-05-31	261	7.3	20.0	100	21	12	28	4.3	110	8.7	33
03N/06E-13A04M	78-06-01	742	7.7	22.0	320	75	32	38	5.3	280	36	48
03N/06E-13M02M	78-06-01	264	7.5	20.5	98	23	10	19	4.8	110	12	16
03N/06E-14L01M	78-06-01	195	7.7	19.0	76	18	7.5	17	3.5	90	5.6	6.4
03N/06E-15H03M	78-06-01	510	7.4	19.0	200	44	22	33	5.8	230	35	9.5
03N/06E-16M03M	78-06-01	284	7.5	20.0	100	23	11	22	2.6	120	12	11
03N/06E-17F02M	78-06-01	273	7.6	20.0	88	19	10	23	3.8	100	3.0	23
03N/06E-17H03M	78-06-01	497	7.7	19.0	220	49	23	29	1.8	260	25	18
U03N/06E-19C03M	78-06-05	1330	7.4	24.5	560	120	63	89	4.9	430	56	150
03N/06E-19C04M	78-06-05	1000	7.4	19.5	410	90	44	45	3.5	320	28	110
03N/06E-20C06M	78-06-05	661	7.3	19.5	220	48	24	30	5.0	190	11	54
03N/06E-20Q02M	78-05-31	221	7.8	20.5	72	17	7.3	19	3.5	92	7.4	15
03N/06E-22C03M	78-05-31	853	7.5	21.0	370	84	38	34	7.4	310	23	57
03N/06E-22C04M	78-05-31	229	7.5	21.5	84	19	8.8	15	3.7	92	8.6	12
03N/06E-24Q06M	78-05-31	523	7.5	22.0	220	56	20	24	3.4	180	26	35
03N/06E-25K03M	78-05-30	225	7.4	21.5	89	23	7.7	12	3.0	95	7.4	8.5
03N/06E-26F02M	78-05-31	753	7.5	22.0	350	91	30	23	4.0	410	16	13

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
02S/07E-30H01M	79-05-17	.1	43	389	4.1	--	--	--	100	--	--
02S/07E-35E01M	79-05-17	.0	44	425	5.6	--	--	--	100	--	--
02S/08E-03J01M	79-05-16	.1	62	245	5.6	--	--	--	0	--	--
02S/08E-09R01M	79-05-16	.1	63	319	14	--	--	--	0	--	--
02S/08E-12D02M	79-05-16	.2	66	248	8.1	--	--	--	0	--	--
02S/08E-13H01M	79-05-16	.1	61	201	3.6	.02	0	5	0	0	0
02S/08E-19C01M	79-05-16	.1	58	517	21	.00	0	7	0	0	10
02S/08E-20J02M	79-05-17	.1	59	275	2.9	--	--	--	100	--	--
02S/09E-03K02M	79-05-15	.1	62	339	5.9	--	--	--	0	--	--
02S/09E-04B01M	79-05-16	.2	72	212	19	.03	200	4	0	0	0
02S/09E-10Q01M	79-05-15	.1	54	--	--	.04	0	4	--	0	0
02S/09E-12R01M	79-05-15	.1	44	179	1.3	.03	100	3	0	0	0
02S/09E-22A01M	79-05-15	.1	43	184	3.2	--	--	--	0	--	--
03N/05E-03J01M	78-05-30	.2	53	582	3.2	--	--	--	100	--	--
03N/05E-08R01M	78-05-30	.1	39	1950	1.9	.01	0	14	100	180	3100
03N/05E-13C01M	78-05-30	.2	52	414	4.1	--	--	--	0	--	--
U03N/05E-19B02M	78-05-30	.1	--	--	--	--	0	1	40	20	0
03N/05E-24P01M	78-05-30	.1	54	1060	.38	--	--	--	0	--	--
03N/05E-32N01M	78-05-30	.1	56	469	.07	.12	10	30	200	260	1600
03N/06E-03B02M	78-05-31	.2	54	189	.25	--	--	--	0	--	--
03N/06E-05C02M	78-05-31	.5	60	178	.38	.07	40	11	0	20	0
03N/06E-08A11M	78-05-31	.2	55	388	2.7	--	--	--	0	--	--
03N/06E-08K06M	78-06-01	.1	54	206	.05	.06	0	12	0	20	80
03N/06E-10B02M	78-05-31	.1	60	240	1.2	.06	0	10	0	0	10
03N/06E-13A04M	78-06-01	.1	55	479	6.3	.03	0	1	0	10	0
03N/06E-13M02M	78-06-01	.2	59	229	1.5	--	--	--	0	--	--
03N/06E-14L01M	78-06-01	.2	56	186	.77	.05	0	4	0	10	0
03N/06E-15B03M	78-06-01	.2	59	369	4.7	--	--	--	0	--	--
03N/06E-16M03M	78-06-01	.1	54	230	1.1	.05	0	5	0	0	0
03N/06E-17F02M	78-06-01	.1	57	207	.09	--	--	--	0	--	--
03N/06E-17H03M	78-06-01	.1	58	296	2.3	--	--	--	0	--	--
U03N/06E-19C03M	78-06-05	.1	52	804	8.3	.03	0	3	50	10	10
03N/06E-19C04M	78-06-05	.2	56	529	3.8	--	--	--	0	--	--
03N/06E-20C06M	78-06-05	.1	58	388	2.3	.03	0	5	0	0	5
03N/06E-20Q02M	78-05-31	.2	54	206	.02	--	--	--	0	--	--
03N/06E-22C03M	78-05-31	.2	59	561	12	--	--	--	0	--	--
03N/06E-22C04M	78-05-31	.1	56	207	1.2	.04	0	5	0	30	0
03N/06E-24Q06M	78-05-31	.2	54	379	7.2	--	--	--	0	--	--
03N/06E-25K03M	78-05-30	.1	55	210	.93	.04	10	3	0	90	10
03N/06E-26F02M	78-05-31	.1	56	--	12	.03	10	2	0	0	0

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
03N/06E-28E03M	78-06-05	799	7.5	21.0	350	85	33	33	5.1	310	23	36
03N/06E-29P02M	78-06-05	694	7.4	19.5	320	79	31	28	5.0	270	19	47
03N/06E-31C01M	78-06-05	694	7.4	19.5	96	22	9.8	25	2.5	110	2.6	26
03N/06E-36C03M	78-05-30	457	7.6	20.5	190	47	18	25	1.5	180	14	26
U03N/06E-36P06M	78-05-30	515	7.3	22.0	230	53	23	25	1.3	200	5.8	45
03N/07E-01R02M	78-06-05	167	7.5	23.0	45	10	4.9	18	1.1	64	4.0	9.4
03N/07E-03F01M	78-06-05	214	7.6	21.0	72	16	7.8	18	2.0	97	10	6.3
03N/07E-03J04M	78-06-05	231	7.3	22.5	73	16	8.0	20	1.2	89	9.5	10
03N/07E-03K01M	78-06-05	494	7.1	22.5	180	39	19	29	1.5	160	37	21
03N/07E-04L05M	78-06-06	236	7.1	17.0	89	20	9.5	19	1.0	100	13	3.9
03N/07E-04P02M	78-06-06	180	7.5	21.5	60	14	6.2	15	2.9	82	5.4	6.1
03N/07E-05Q03M	78-06-06	173	7.4	21.0	58	14	5.5	15	2.6	75	6.6	4.6
U03N/07E-06R06M	78-06-06	164	7.5	19.0	49	10	5.9	15	5.6	74	3.3	7.0
03N/07E-09F03M	78-06-06	449	7.4	20.5	180	43	19	28	2.6	200	22	18
03N/07E-10G05M	78-06-06	433	7.3	20.0	160	35	18	29	1.6	140	14	37
03N/07E-10R02M	78-06-06	206	7.4	23.5	68	15	7.4	19	1.5	94	4.4	9.0
03N/07E-11A02M	78-06-06	211	7.4	23.5	64	15	6.6	20	1.2	75	2.3	15
03N/07E-13H01M	78-06-06	212	7.6	21.5	60	13	6.6	20	2.0	90	4.0	7.7
03N/07E-15L04M	78-06-06	216	7.2	21.5	72	16	7.8	20	1.5	90	8.1	9.0
U03N/07E-18P08M	78-06-06	840	7.5	19.5	360	86	35	43	4.2	280	65	55
03N/07E-19M04M	78-06-06	910	7.3	21.5	380	88	38	45	1.8	310	63	48
03N/07E-20K06M	78-06-07	625	7.2	22.0	230	51	25	30	2.0	170	27	52
03N/07E-21Q02M	78-06-07	242	7.5	20.0	86	22	7.4	20	2.1	100	7.6	10
03N/07E-22C03M	78-06-07	211	7.8	20.0	65	17	5.5	23	1.8	100	6.2	7.4
03N/07E-24D01M	78-06-07	217	7.7	19.0	65	17	5.5	25	2.1	97	5.6	7.4
03N/07E-24J01M	78-06-07	221	7.4	21.0	72	15	8.5	20	2.4	100	6.2	8.6
03N/07E-27E03M	78-06-07	227	7.7	21.5	90	18	11	14	4.0	120	7.1	7.4
03N/07E-27L01M	78-06-07	271	7.5	19.0	98	21	11	20	2.6	120	5.6	9.8
03N/07E-29G01M	78-06-07	229	7.6	19.0	83	22	6.8	18	1.8	110	5.9	8.1
03N/07E-30C08M	78-06-07	305	7.6	22.5	110	29	9.8	19	1.6	110	9.4	21
03N/07E-30F05M	78-06-07	768	7.1	19.0	330	76	34	33	1.5	280	46	43
03N/07E-33K03M	78-06-08	367	7.1	18.0	150	32	18	18	2.4	370	1.0	1.8
03N/08E-05H04M	78-06-07	173	7.6	23.0	38	8.3	4.2	21	1.8	69	1.0	11
03N/08E-05E02M	78-06-07	173	7.7	22.5	48	11	4.9	19	1.4	86	.5	9.7
03N/08E-06H03M	78-06-07	183	7.8	21.5	48	12	4.3	21	1.6	75	.8	9.8
U03N/08E-09K01M	78-06-07	150	7.4	21.0	43	8.6	5.2	13	3.7	57	1.8	7.4
03N/08E-14Q02M	78-06-08	170	7.4	22.0	54	11	7.5	12	3.5	72	2.5	8.2
03N/08E-20G01M	78-06-08	221	7.5	22.5	85	16	11	14	4.4	100	4.9	6.4
03N/08E-20Q01M	78-06-08	216	7.4	21.5	81	16	10	15	4.0	98	4.8	7.6
03N/08E-21A01M	78-06-08	203	7.2	23.0	70	14	8.5	16	3.4	85	4.6	7.3

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
03N/06E-28E03M	78-06-05	.1	56	540	9.5	--	--	--	0	--	--
03N/06E-29P02M	78-06-05	.1	54	362	3.8	--	--	--	0	--	--
03N/06E-31C01M	78-06-05	.1	51	199	.27	.03	0	8	0	90	10
03N/06E-36C03M	78-05-30	.2	60	354	8.1	--	--	--	0	--	--
U03N/06E-36H06M	78-05-30	.2	10	359	2.6	.04	20	2	10	10	0
03N/07E-01R02M	78-06-05	.2	65	184	1.2	--	--	--	0	--	--
03N/07E-03F01M	78-06-05	.2	59	208	1.5	.02	4	2	0	0	0
03N/07E-03J04M	78-06-05	.2	62	205	1.6	--	--	--	0	--	--
03N/07E-03K01M	78-06-05	.1	68	342	4.7	.05	0	1	0	10	0
03N/07E-04L05M	78-06-06	.2	55	190	1.1	.08	0	1	0	20	0
03N/07E-04P02M	78-06-06	.2	61	168	1.2	--	--	--	0	--	--
03N/07E-05Q03M	78-06-06	.2	56	156	.63	--	--	--	0	--	--
U03N/07E-06R06M	78-06-06	.1	70	165	.16	.01	0	0	0	20	10
03N/07E-09F03M	78-06-06	.2	55	316	2.0	--	--	--	0	--	--
03N/07E-10G05M	78-06-06	.1	60	318	5.0	.03	0	1	0	0	5
03N/07E-10R02M	78-06-06	.2	64	180	1.3	--	--	--	0	--	--
03N/07E-11A02M	78-06-06	.2	69	184	2.7	.03	0	2	0	>0	0
03N/07E-13H01M	78-06-06	.2	67	183	1.2	--	--	--	0	--	--
03N/07E-15L04M	78-06-06	.2	71	189	1.2	.04	0	2	0	0	0
U03N/07E-18P08M	78-06-06	.1	56	516	6.6	.03	0	1	10	0	0
03N/07E-19M04M	78-06-06	.1	64	567	9.9	--	--	--	0	--	--
03N/07E-20K06M	78-06-07	.2	63	442	7.5	--	--	--	0	--	--
03N/07E-21Q02M	78-06-07	.2	56	195	1.9	--	--	--	0	--	--
03N/07E-22C03M	78-06-07	.1	45	168	.81	.04	0	3	0	0	0
03N/07E-24D01M	78-06-07	.2	35	162	1.2	--	--	--	0	--	--
03N/07E-24J01M	78-06-07	.2	80	200	.99	.04	0	1	0	10	5
03N/07E-27E03M	78-06-07	.2	67	199	.66	--	--	--	0	--	--
03N/07E-27L01M	78-06-07	.2	75	217	1.9	.03	0	1	0	0	0
03N/07E-29G01M	78-06-07	.2	58	192	1.2	--	--	--	0	--	--
03N/07E-30C08M	78-06-07	.2	59	235	2.7	--	--	--	0	--	--
03N/07E-30F05M	78-06-07	.1	71	562	11	.03	0	1	0	20	20
03N/07E-33K03M	78-06-08	.1	73	269	2.5	.04	0	2	0	0	5
03N/08E-05B04M	78-06-07	.2	53	154	.99	--	--	--	0	--	--
03N/08E-06E02M	78-06-07	.2	57	152	.88	.03	0	2	0	10	0
03N/08E-06H03M	78-06-07	.3	54	159	.59	--	--	--	0	--	--
U03N/08E-09K01M	78-06-07	.2	75	178	1.6	.05	0	5	0	10	5
03N/08E-14Q02M	78-06-08	.2	83	190	2.1	--	--	--	0	--	--
03N/08E-20G01M	78-06-08	.1	83	206	--	.04	0	1	--	10	0
03N/08E-20Q01M	78-06-08	.2	75	200	.77	--	--	--	0	--	--
03N/08E-21A01M	78-06-08	.2	84	203	1.3	.06	0	2	0	0	0

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
03N/08E-21J01M	78-06-08	218	7.3	21.0	88	17	11	12	4.2	100	5.1	7.3
03N/08E-32G02M	78-06-08	253	7.4	20.0	100	22	12	13	4.1	120	6.9	8.8
03N/08E-32N01M	78-06-08	288	7.3	19.0	120	26	13	17	3.8	130	9.4	8.5
U03N/08E-36D01M	78-06-08	249	7.5	22.0	100	23	11	11	4.7	110	8.2	5.5
03N/09E-06N01M	78-05-25	135	7.3	18.0	43	8.2	5.5	9.4	4.2	48	1.6	6.5
03N/09E-36G01M	78-06-08	298	7.4	22.0	130	30	13	11	1.9	110	19	9.7
03S/05E-04H01M	79-06-12	1250	7.7	22.0	390	100	33	92	3.9	190	110	200
03S/05E-12J02M	79-06-12	--	7.6	21.5	660	170	59	170	1.9	110	470	300
03S/05E-13R02M	79-06-13	2950	7.5	20.5	930	220	93	270	2.9	140	660	490
03S/05E-14D02M	79-06-12	1480	7.4	29.0	--	--	--	--	--	130	310	200
03S/05E-20A01M	79-06-12	1440	7.6	24.0	330	85	29	160	3.1	230	340	130
03S/05E-25H01M	79-06-13	1000	7.4	20.0	280	75	22	92	1.8	260	43	130
03S/06E-03F01M	79-06-13	3590	7.5	22.5	1100	290	86	420	3.8	250	760	610
03S/06E-17Q01M	79-06-13	1740	7.7	19.5	440	120	33	210	2.1	230	260	270
03S/06E-22C02M	79-06-13	1920	7.5	20.5	520	180	19	170	2.9	280	270	310
03S/06E-26W01M	79-06-13	1360	7.4	20.5	400	110	29	120	2.2	240	140	210
03S/06E-29E01M	79-06-13	--	7.7	12.5	250	68	19	97	1.7	180	80	130
03S/06E-33Q02M	79-06-13	970	7.6	22.5	290	82	21	83	2.0	190	93	120
03S/07E-03J01M	79-05-17	388	7.8	17.0	180	52	13	9.0	1.2	170	6.0	15
03S/07E-04K01M	79-05-17	500	8.0	20.0	170	47	13	45	2.9	170	28	28
03S/07E-07Q01M	79-05-24	360	7.5	23.0	130	34	11	25	1.8	170	18	7.0
03S/07E-08C01M	79-05-24	432	7.3	20.5	150	40	13	32	3.1	190	26	11
04N/05E-06J01M	78-05-15	4470	7.7	20.5	1500	240	210	330	2.5	250	2.5	1400
04N/05E-11K01M	78-05-17	356	7.7	18.0	120	27	13	36	1.1	170	9.2	10
04N/05E-33A05M	78-05-16	578	7.8	20.5	180	37	22	63	.2	280	5.1	25
04N/05E-35F01M	78-05-16	408	8.0	17.0	140	34	14	38	.9	200	9.7	8.9
04N/05E-35P02M	78-05-16	802	7.6	17.0	280	65	29	81	.7	400	17	17
U04N/06E-01Q04M	78-05-16	209	7.8	20.0	82	17	9.7	11	4.0	100	7.1	5.4
04N/06E-06N13M	78-05-16	408	7.5	20.0	200	39	24	16	1.5	200	4.6	11
04N/06E-07L02M	78-05-17	294	7.2	17.0	140	30	16	10	1.5	140	6.1	8.6
04N/06E-10D01M	78-05-16	385	7.5	19.5	170	34	21	20	2.8	160	29	20
04N/06E-16R07M	78-05-17	268	7.2	17.5	110	24	13	17	2.1	130	7.2	6.6
04N/06E-20M03M	78-05-17	212	7.6	21.5	66	16	6.5	22	.4	110	9.5	3.5
04N/06E-21M03M	78-05-17	286	7.2	18.0	120	28	13	18	.8	130	14	3.8
04N/06E-22R03M	78-05-17	391	7.2	21.0	150	32	17	25	3.0	150	18	24
04N/06E-24L04M	78-05-17	495	7.2	22.5	220	45	26	22	5.6	200	23	27
04N/06E-28E02M	78-05-18	528	7.3	18.5	230	53	23	39	.9	230	57	7.9
U04N/06E-31H03M	78-05-18	133	7.9	18.0	40	9.6	3.9	13	.4	66	2.9	1.8
04N/06E-34R05M	78-05-18	218	7.1	21.0	86	19	9.5	18	2.8	110	10	9.1
04N/06E-36M03M	78-05-18	93	7.6	19.0	33	7.3	3.7	8.0	1.0	49	1.3	2.7

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
03N/08E-21J01M	78-06-08	.3	63	204	.77	--	--	--	0	--	--
03N/08E-32G02M	78-06-08	.2	58	214	.77	--	--	--	0	--	--
03N/08E-32N01M	78-06-08	.1	75	236	.63	.04	0	1	0	0	0
U03N/08E-36D01M	78-06-08	.1	74	188	.91	.04	0	1	20	10	5
03N/09E-06N01M	78-05-25	.3	88	178	2.9	--	--	--	0	--	--
03N/09E-36G01M	78-06-08	.2	38	228	3.6	--	--	--	0	--	--
03S/05E-04H01M	79-06-12	.2	35	798	5.9	.00	0	1	1400	10	0
03S/05E-12J02M	79-06-12	.1	28	1380	11	.00	0	0	900	10	10
03S/05E-13R02M	79-06-13	.1	29	2090	24	--	--	--	2100	--	--
03S/05E-14D02M	79-06-12	.1	51	1060	2.5	--	--	--	1000	--	--
03S/05E-20A01M	79-06-12	.2	23	894	1.4	--	--	--	3300	--	--
03S/05E-25H01M	79-06-13	.1	30	564	3.2	.00	0	0	500	10	10
03S/06E-03F01M	79-06-13	.1	28	2480	7.2	.00	0	3	4900	20	0
03S/06E-17Q01M	79-06-13	.1	24	1020	7.5	--	--	--	2	--	--
03S/06E-22C02M	79-06-13	.1	24	1190	7.2	--	--	--	1500	--	--
03S/06E-26Q01M	79-06-13	.2	26	770	5.6	--	--	--	900	--	--
03S/06E-29E01M	79-06-13	.2	24	591	5.0	--	--	--	1000	--	--
03S/06E-33Q02M	79-06-13	.1	24	553	4.3	.00	0	2	700	10	0
03S/07E-03J01M	79-05-17	.0	46	256	1.4	.04	100	5	0	0	0
03S/07E-04K01M	79-05-17	.1	43	340	3.6	--	--	--	0	--	--
03S/07E-07Q01M	79-05-24	.0	27	224	.00	--	--	--	0	--	--
03S/07E-08C01M	79-05-24	.1	34	267	.00	.01	0	1	100	10	360
04N/05E-06J01M	78-05-15	--	--	2240	.00	--	--	--	500	--	--
04N/05E-11K01M	78-05-17	.2	39	290	2.7	.13	20	15	200	0	10
04N/05E-33A05M	78-05-16	.5	43	355	.00	--	--	--	100	--	--
04N/05E-35F01M	78-05-16	.2	51	283	.70	.05	0	6	0	10	10
04N/05E-35P02M	78-05-16	.3	45	382	3.2	--	--	--	100	--	--
U04N/06E-01Q04M	78-05-16	.1	76	180	.46	.07	30	3	30	0	10
04N/06E-06N13M	78-05-16	.3	63	285	1.3	--	--	--	0	--	--
04N/06E-07L02M	78-05-17	.3	48	211	2.1	--	--	--	0	--	--
04N/06E-10D01M	78-05-16	.1	69	301	1.6	.09	0	5	0	40	20
04N/06E-16R07M	78-05-17	.1	64	213	1.2	.05	20	6	0	0	10
04N/06E-20M03M	78-05-17	.6	57	174	.68	--	--	--	0	--	--
04N/06E-21M03M	78-05-17	.2	63	233	3.6	.06	0	5	0	0	20
04N/06E-22R03M	78-05-17	.3	72	291	3.2	--	--	--	0	--	--
04N/06E-24L04M	78-05-17	.1	79	368	2.5	.07	0	3	0	10	0
04N/06E-28E02M	78-05-18	.4	54	397	6.6	--	--	--	0	--	--
U04N/06E-31H03M	78-05-18	.4	54	115	.17	.08	0	26	30	20	10
04N/06E-34R05M	78-05-18	.3	56	192	.79	--	--	--	0	--	--
04N/06E-36M03M	78-05-18	.2	66	124	.02	.12	0	4	0	20	10

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
04N/07E-01C01M	78-05-18	196	7.3	23.5	68	15	7.4	15	1.7	82	1.2	15
04N/07E-08C02M	78-05-18	198	7.4	23.0	78	16	9.3	12	2.5	90	5.1	6.9
04N/07E-09C03M	78-05-18	221	7.1	22.0	86	18	10	14	1.6	90	5.4	9.9
04N/07E-09R02M	78-05-18	223	7.1	20.0	82	17	9.6	15	1.9	100	4.3	7.4
04N/07E-10P01M	78-05-23	168	7.3	16.5	52	11	6.1	15	1.8	67	2.8	8.5
04N/07E-11A03M	78-05-18	176	7.1	23.0	49	10	5.8	18	1.0	62	2.3	12
U04N/07E-13M03M	78-05-22	262	7.3	20.0	96	20	11	20	3.4	110	1.6	13
04N/07E-15E01M	78-05-22	255	7.1	18.0	98	21	11	18	1.6	100	4.1	18
U04N/07E-17C03M	78-05-22	171	7.2	18.0	67	15	7.2	14	2.3	85	3.0	7.5
04N/07E-20A08M	78-05-22	189	7.5	19.0	70	14	8.6	14	2.7	87	4.9	5.5
04N/07E-21A03M	78-05-22	538	7.1	19.0	210	44	25	28	3.5	160	13	58
04N/07E-23B05M	78-05-22	--	7.0	18.0	86	18	10	20	2.4	110	3.0	16
U04N/07E-24N02M	78-05-22	83	7.5	16.0	40	9.2	4.2	5.2	2.6	34	4.3	2.7
04N/07E-26D03M	78-05-23	386	7.5	17.5	160	30	20	23	5.2	170	20	14
U04N/07E-30B04M	78-05-23	251	7.3	17.5	110	22	13	16	3.2	110	6.5	14
04N/07E-30N02M	78-05-23	272	7.7	18.5	100	20	12	18	2.4	120	15	9.9
04N/07E-32A02M	78-05-23	148	7.6	17.5	55	11	6.7	12	3.1	67	3.0	6.2
04N/07E-33G03M	78-05-22	130	7.2	18.0	20	4.2	2.5	7.1	2.0	36	3.0	2.6
04N/07E-33L01M	78-05-22	78	7.1	18.0	30	6.3	3.7	2.7	2.4	36	.8	2.5
04N/08E-01H01M	78-05-24	144	6.9	17.0	51	10	6.3	10	4.9	64	1.5	5.7
04N/08E-04P01M	78-05-23	217	7.3	20.5	81	17	9.4	14	4.5	98	2.0	11
04N/08E-05A01M	78-05-23	138	7.3	22.5	42	7.9	5.3	12	3.9	64	2.1	6.4
04N/08E-07A01M	78-05-23	122	7.3	21.0	66	13	8.1	14	3.3	80	1.2	11
04N/08E-13G03M	78-05-24	261	7.2	19.0	100	22	12	14	5.2	100	3.6	23
U04N/08E-14L04M	78-05-24	226	7.2	17.5	110	23	12	10	5.6	79	7.7	5.9
04N/08E-22K01M	78-05-24	246	7.2	20.0	94	18	12	12	6.4	98	3.8	18
04N/08E-24A01M	78-05-24	220	7.0	19.5	81	16	10	12	4.8	89	2.0	16
04N/08E-25E01M	78-05-24	283	7.3	20.5	110	20	14	14	5.2	98	3.3	25
04N/08E-25M12M	78-05-24	325	6.9	20.5	110	24	13	21	3.1	92	3.1	3.4
04N/08E-29E04M	78-05-24	332	6.9	18.5	130	26	15	18	4.1	130	6.4	22
04N/08E-31F03M	78-05-25	242	7.5	21.0	90	18	11	17	3.4	97	2.6	21
U04N/08E-31H04M	78-05-25	157	7.5	18.5	95	22	9.8	16	3.5	95	1.7	13
04N/08E-32J03M	78-05-25	182	7.9	22.5	52	12	5.5	18	4.6	82	1.0	12
04N/08E-34G02M	78-05-25	173	7.2	22.5	63	13	7.4	21	5.3	92	.3	16
04N/09E-06E01M	78-05-24	562	6.8	17.0	210	44	26	24	6.1	130	16	77
04N/09E-17E02M	78-05-24	353	7.2	17.0	140	30	15	26	3.4	150	11	16
04N/09E-31M02M	78-05-25	168	7.4	23.5	55	10	7.3	14	4.3	74	1.3	7.5
04S/06E-05Q01M	79-06-14	540	7.5	12.5	250	64	21	50	2.0	210	25	90
04S/06E-08L02M	79-06-14	832	7.4	22.0	170	45	15	51	1.8	0	83	21
05N/06E-36C02M	78-05-15	284	7.3	19.5	120	23	14	14	3.3	130	11	10
05N/06E-36F01M	78-05-15	462	7.1	19.0	220	44	28	18	3.2	20	31	18
05N/07E-31K03M	78-05-15	303	7.3	19.5	130	26	16	12	2.1	120	29	11
05N/07E-33N01M	78-05-15	269	7.0	19.5	100	20	12	16	1.5	100	7.6	16
05N/08E-26P01M	78-05-15	136	7.5	22.0	38	8.0	4.4	13	3.2	51	1.8	6.4

Table 1.--*Chemical analyses of water from wells*--Continued

STATE WELL NUMBER	DATE OF SAMPLE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
04N/07E-01C01M	78-05-18	.3	74	190	2.1	--	--	--	0	--	--
04N/07E-08C02M	78-05-18	.3	76	193	1.2	--	--	--	0	--	--
04N/07E-08C03M	78-05-18	.2	83	196	1.9	.09	0	2	0	10	0
04N/07E-09B02M	78-05-18	.3	79	199	1.2	--	--	--	0	--	--
04N/07E-10P01M	78-05-23	.3	78	186	2.1	--	--	--	0	--	--
04N/07E-11A03M	78-05-18	.3	79	192	3.4	.13	0	2	0	10	0
U04N/07E-13N03M	78-05-22	.1	77	203	.95	.01	0	2	20	10	0
04N/07E-15E01M	78-05-22	.2	75	219	2.2	--	--	--	0	--	--
U04N/07E-17C03M	78-05-22	.2	58	139	1.3	.01	0	1	20	10	80
04N/07E-20A08M	78-05-22	.3	77	192	1.2	--	--	--	0	--	--
04N/07E-21A03M	78-05-22	.1	73	413	6.3	.02	0	4	0	10	0
04N/07E-23H05M	78-05-22	.2	74	214	1.1	--	--	--	0	--	--
U04N/07E-24N02M	78-05-22	.1	58	50	.12	.00	0	3	10	0	0
04N/07E-26D03M	78-05-23	.1	72	300	2.0	.01	0	2	0	10	0
U04N/07E-30B04M	78-05-23	.1	75	212	2.0	.01	0	2	20	0	10
04N/07E-30N02M	78-05-23	.2	74	226	2.0	--	--	--	0	--	--
04N/07E-32A02M	78-05-23	.3	75	176	1.2	--	--	--	0	--	--
04N/07E-33G03M	78-05-22	.3	69	124	.05	--	--	--	0	--	--
04N/07E-33L01M	78-05-22	.1	44	93	.00	.08	0	4	0	30	20
04N/08E-01H01M	78-05-24	.2	88	181	1.2	--	--	--	0	--	--
04N/08E-04P01M	78-05-23	.2	78	200	.77	--	--	--	0	--	--
04N/08E-05A01M	78-05-23	.2	83	178	2.1	.04	0	2	0	0	0
04N/08E-07A01M	78-05-23	.2	83	195	2.1	.05	0	2	0	30	10
04N/08E-13G03M	78-05-24	.4	69	228	1.9	--	--	--	0	--	--
U04N/08E-14L04M	78-05-24	.1	60	179	2.1	.02	0	2	20	10	0
04N/08E-22K01M	78-05-24	.3	75	212	.09	--	--	--	0	--	--
04N/08E-24A01M	78-05-24	.3	80	204	2.0	--	--	--	0	--	--
04N/08E-28E01M	78-05-24	.1	83	227	2.3	.03	0	1	0	10	0
04N/08E-28M12M	78-05-24	.3	74	277	5.9	--	--	--	0	--	--
04N/08E-29E04M	78-05-24	.1	73	247	.54	.04	0	2	0	0	10
04N/08E-31B03M	78-05-25	.2	78	216	1.9	.04	0	2	0	0	10
U04N/08E-31B04M	78-05-25	.2	79	186	1.3	.02	0	2	20	40	0
04N/08E-32Q03M	78-05-25	.3	70	176	.90	--	--	--	0	--	--
04N/08E-34G02M	78-05-25	.2	79	202	.11	.02	0	1	0	90	110
04N/09E-06E01M	78-05-24	.2	78	487	9.3	.02	0	1	0	20	40
04N/09E-17E02M	78-05-24	.2	70	273	3.6	.04	0	2	0	10	30
04N/09E-31M02M	78-05-25	.2	84	189	1.7	.03	0	2	0	10	10
04S/06E-05Q01M	79-06-14	.2	18	452	3.4	--	--	--	200	--	--
04S/06E-08L02M	79-06-14	.3	21	378	1.7	.00	0	0	500	10	0
05N/06E-36C02M	78-05-15	.1	69	336	.72	.08	0	3	0	10	10
05N/06E-36F01M	78-05-15	.3	76	366	2.7	--	--	--	0	--	--
05N/07E-31K03M	78-05-15	.3	75	264	.86	--	--	--	0	--	--
05N/07E-33N01M	78-05-15	.1	69	213	1.4	.13	0	1	0	30	60
05N/08E-26P01M	78-05-15	.4	85	172	2.5	--	--	--	0	--	--

Table 2.--*Analyses for additional chemical constituents at selected sites*

STATE WELL NUMBER	DATE OF SAMPLE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)
01N/07E-16L01M	78-06-29	.00	2	0	0	3	4	0
02N/07E-11F01M	78-06-20	.01	0	5	0	1	4	0
02N/07E-11M01M	78-06-14	.00	1	0	0	0	1	0
03N/05E-19B02M	78-05-30	--	0	0	0	3	6	0
03N/06E-36H06M	78-05-30	.00	0	10	1	2	3	0
03N/08E-36D01M	78-06-08	.00	1	5	0	2	3	0
04N/07E-13N03M	78-05-22	.01	1	5	0	2	4	0
04N/07E-24N02M	78-05-22	.00	1	0	0	0	4	0

STATE WELL NUMBER	DATE OF SAMPLE	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
01N/07E-16L01M	78-06-29	.2	2	0	0	110	3.0	10
02N/07E-11F01M	78-06-20	.0	2	0	1	300	9.3	20
02N/07E-11M01M	78-06-14	.0	0	0	1	370	21	20
03N/05E-19B02M	78-05-30	.0	0	1	0	330	--	10
03N/06E-36H06M	78-05-30	.0	0	0	1	620	20	80
03N/08E-36D01M	78-06-08	.0	2	0	0	230	9.0	70
04N/07E-13N03M	78-05-22	.1	1	0	0	240	22	690
04N/07E-24N02M	78-05-22	.0	2	0	0	100	18	10

Table 3.--*Index to township maps*

[Map numbers correspond to small index maps on maps 1-50]

Township/Range	Map number
5N/6E	1
5N/7E	2
5N/8E	3
4N/4E	4
4N/5E	5
4N/6E	6
4N/7E	7
4N/8E	8
4N/9E	9
3N/4E	10
3N/5E	11
3N/6E	12
3N/7E	13
3N/8E	14
3N/9E	15
2N/2E	16
2N/3E	17
2N/4E	18
2N/5E	19
2N/6E	20
2N/7E	21
2N/8E	22
2N/9E	23
1N/2E	24
1N/3E	25
1N/4E	26
1N/5E	27
1N/6E	28
1N/7E	29
1N/8E	30
1N/9E	31
1S/3E	32
1S/4E	33
1S/5E	34
1S/6E	35
1S/7E	36
1S/8E	37
1S/9E	38
2S/4E	39
2S/5E	40
2S/6E	41
2S/7E	42
2S/8E	43
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3S/7E	48
4S/5E	49
4S/6E	50

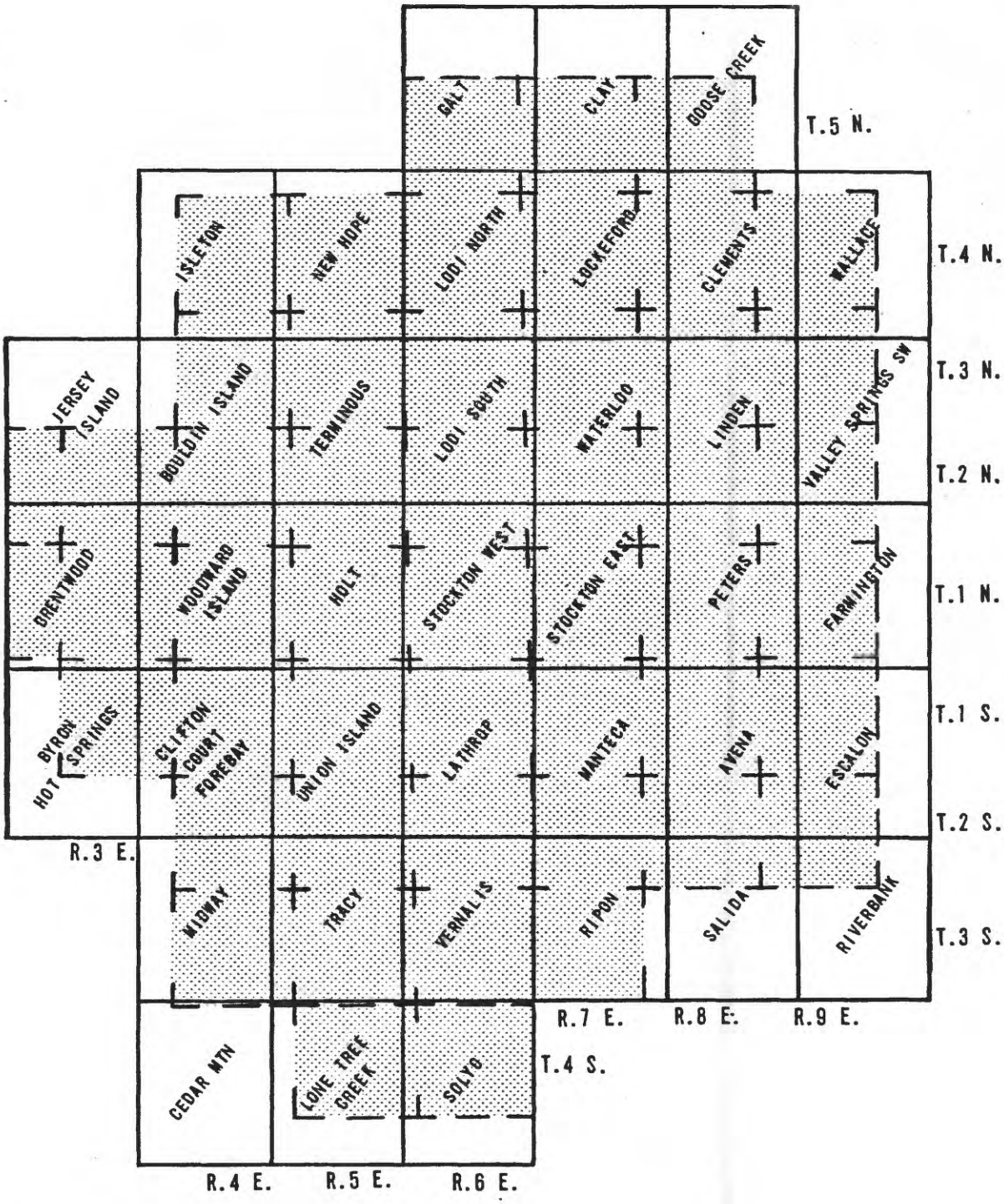
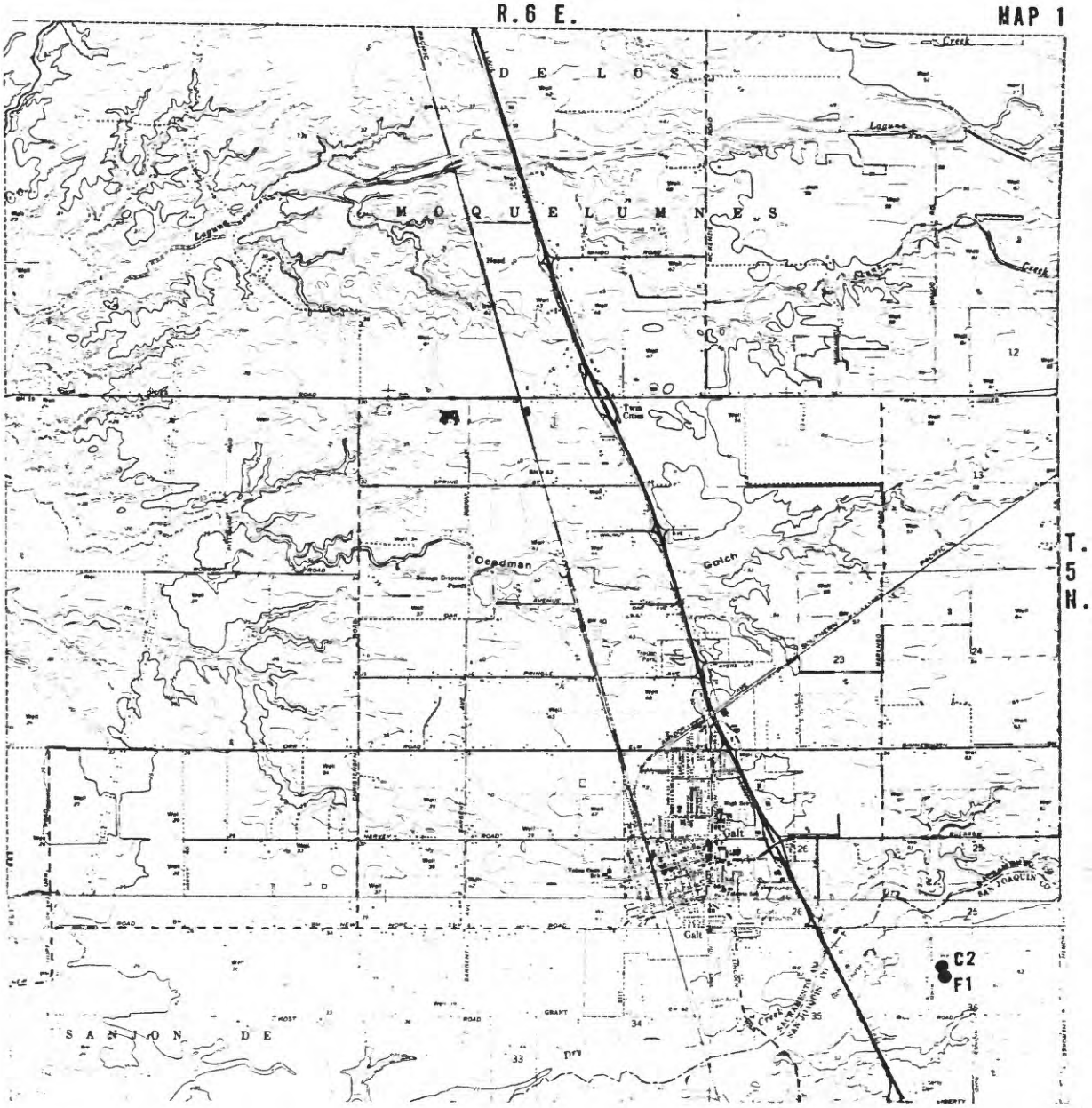


FIGURE 3.— Index of U.S. Geological Survey topographic quadrangle maps, 7½ minute series; shading covers area of township base maps.



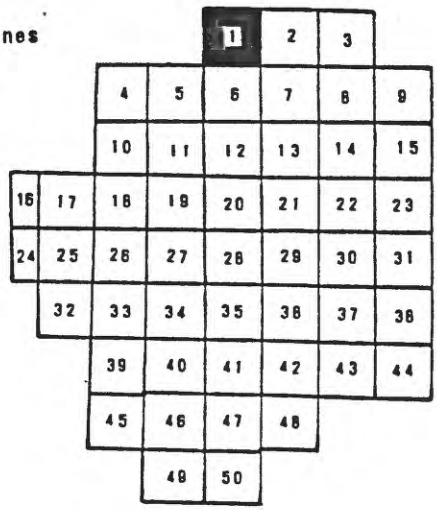
Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

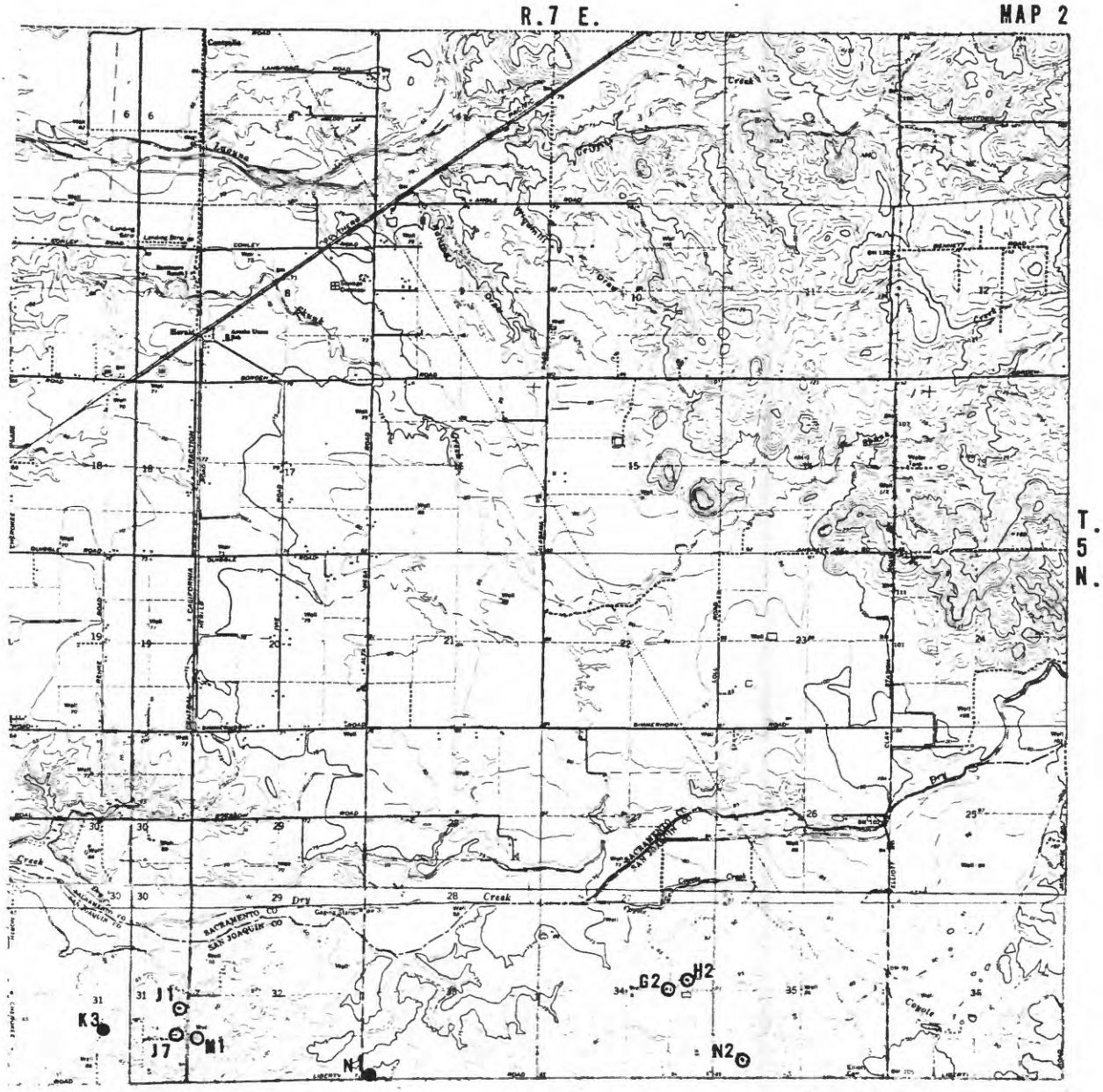
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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EXPLANATION

A1 ● Location of well sampled

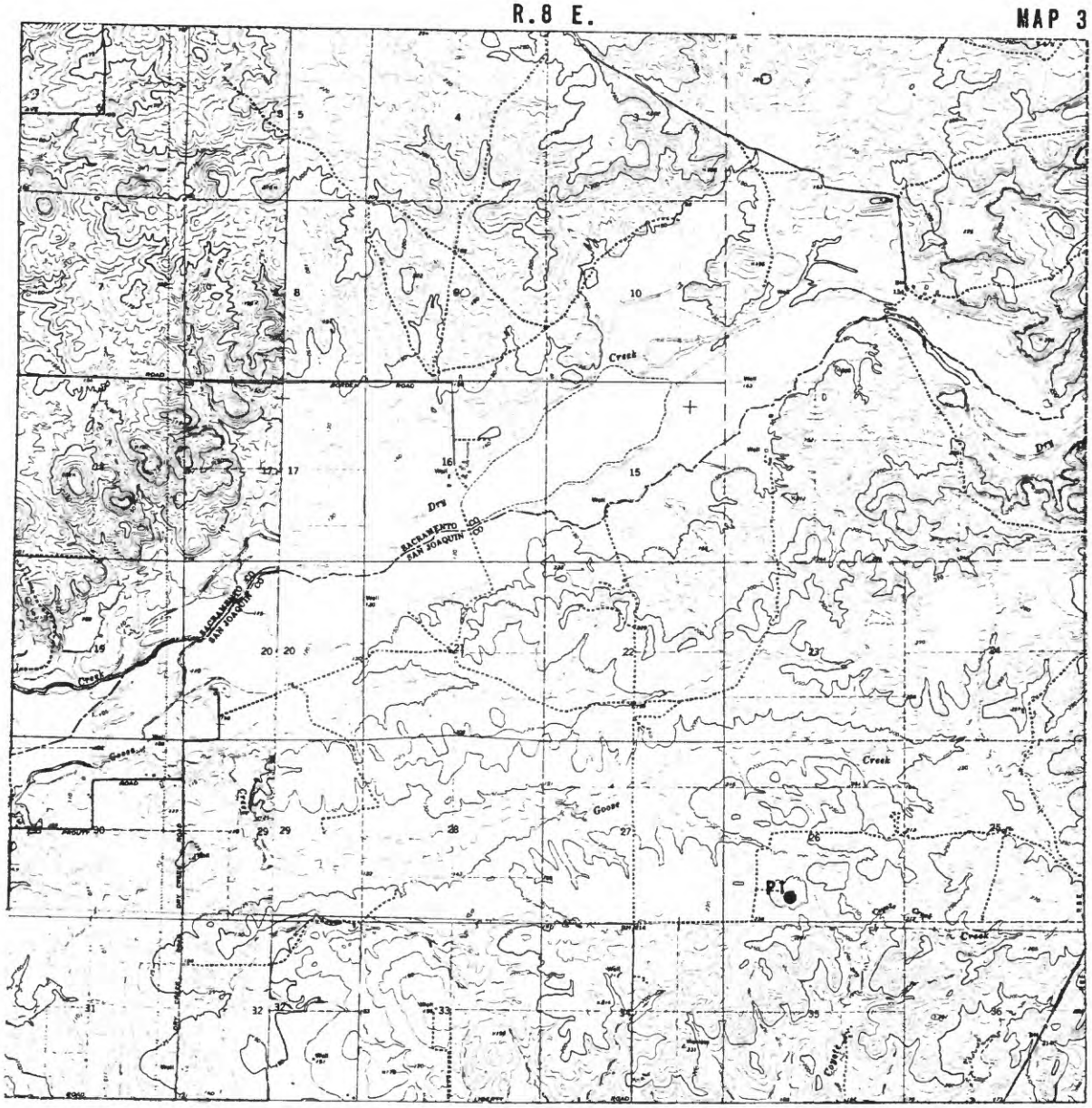
○ Location of well canvassed

0 1 2 MILES

		1	2	3		
	4	5	6	7	8	9
	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			

R.8 E.

MAP 3



T. 5 N.

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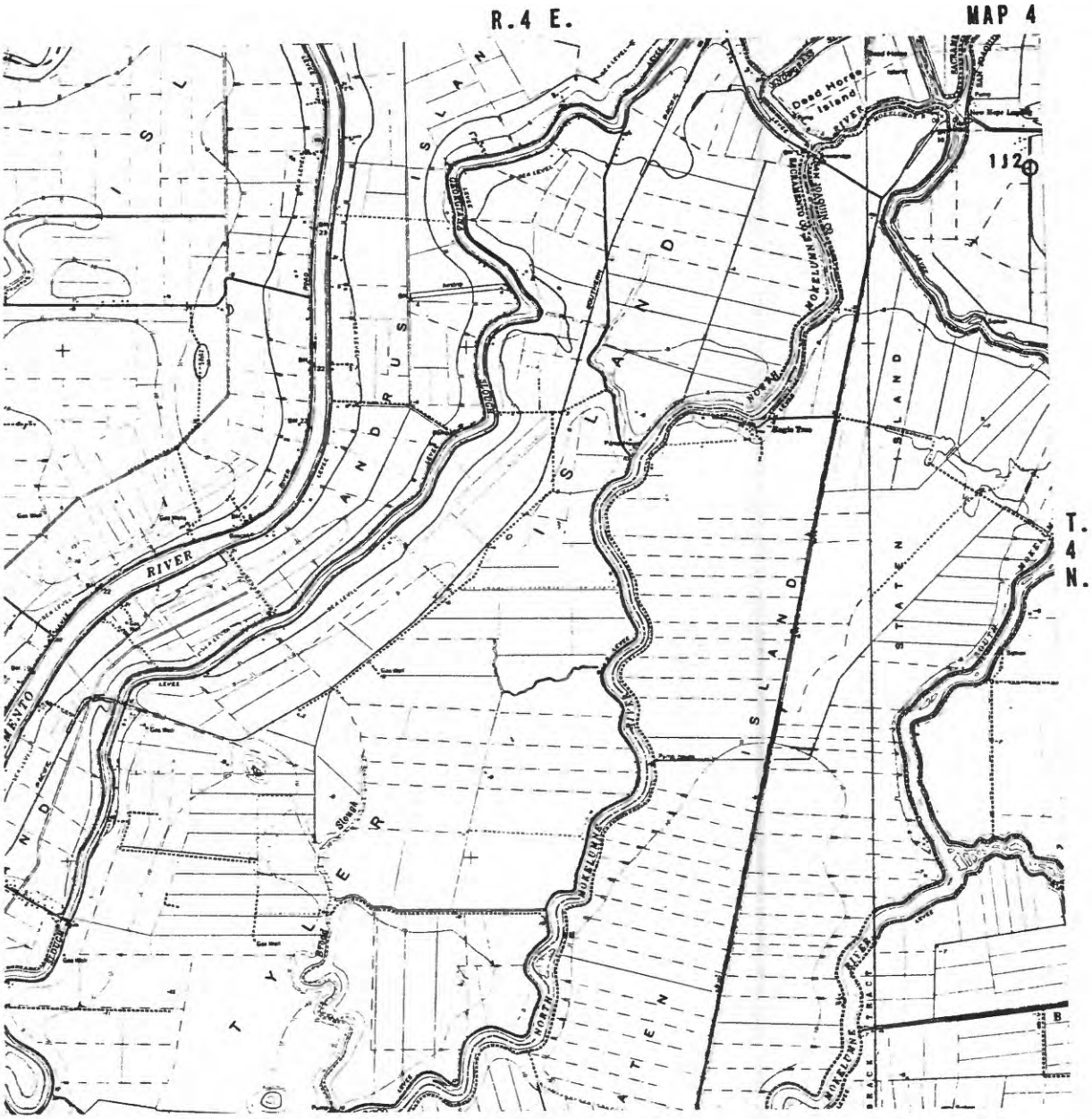
EXPLANATION

A1
● Location of well sampled

O Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

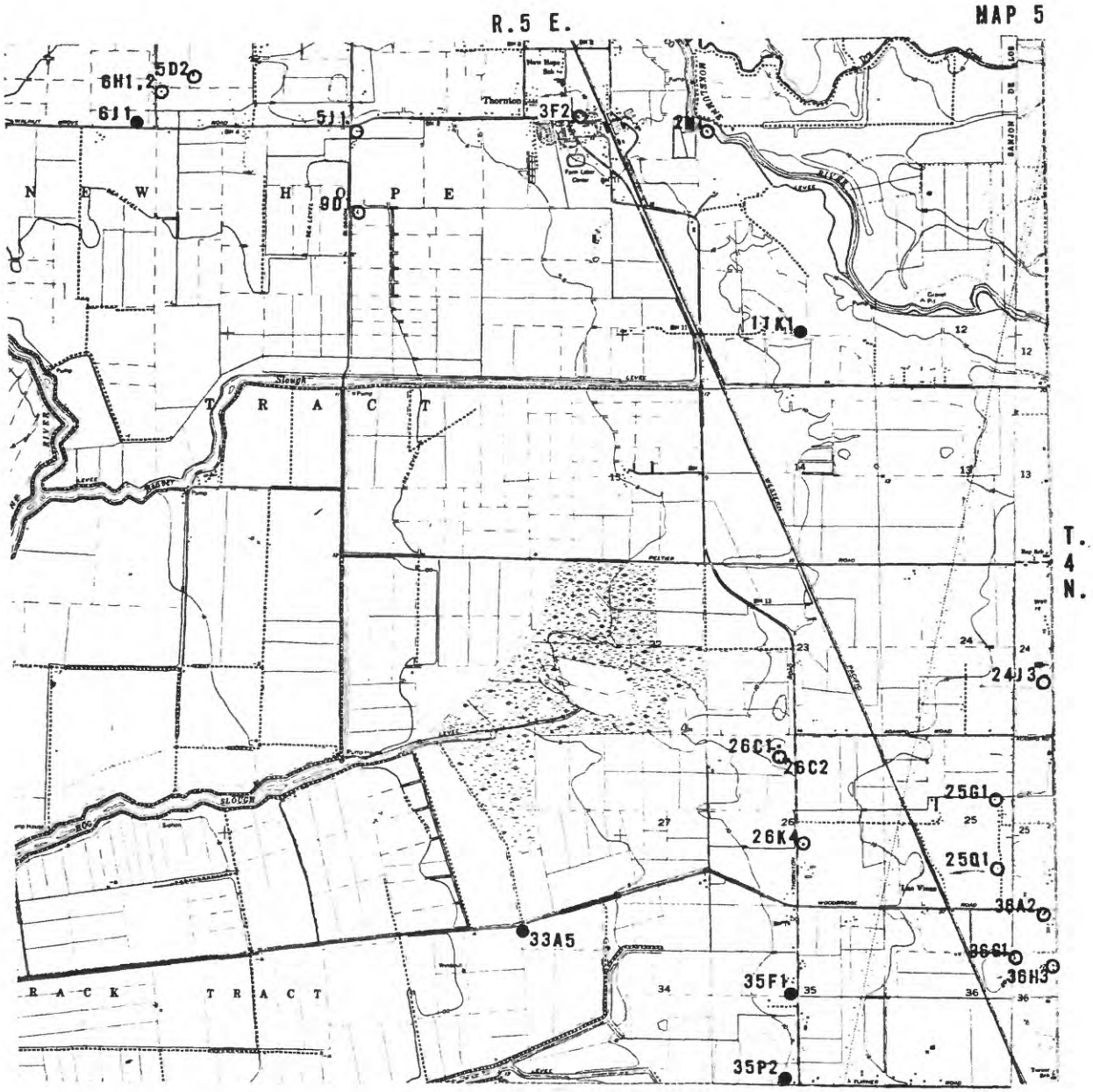
			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			

EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES



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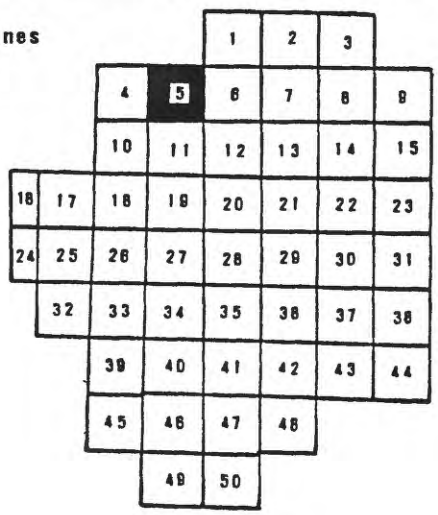
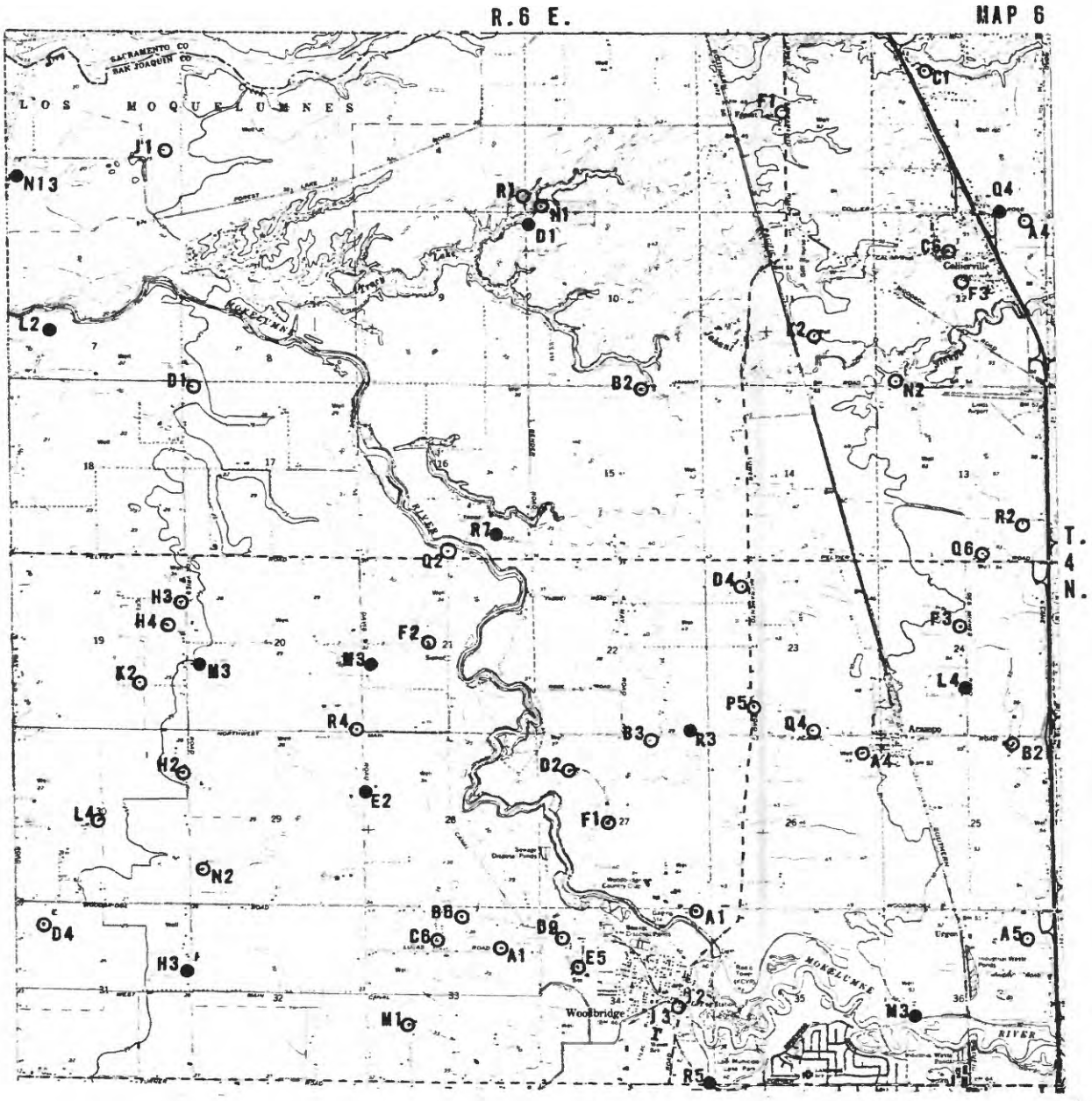
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

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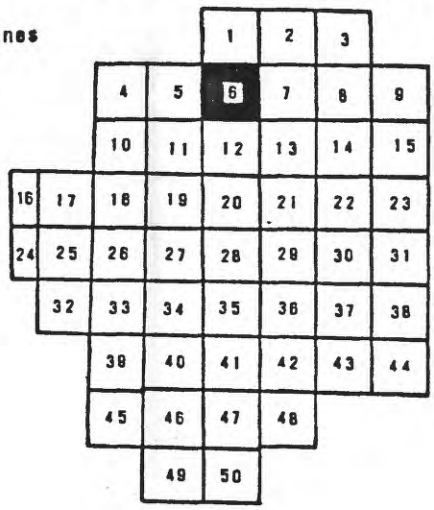

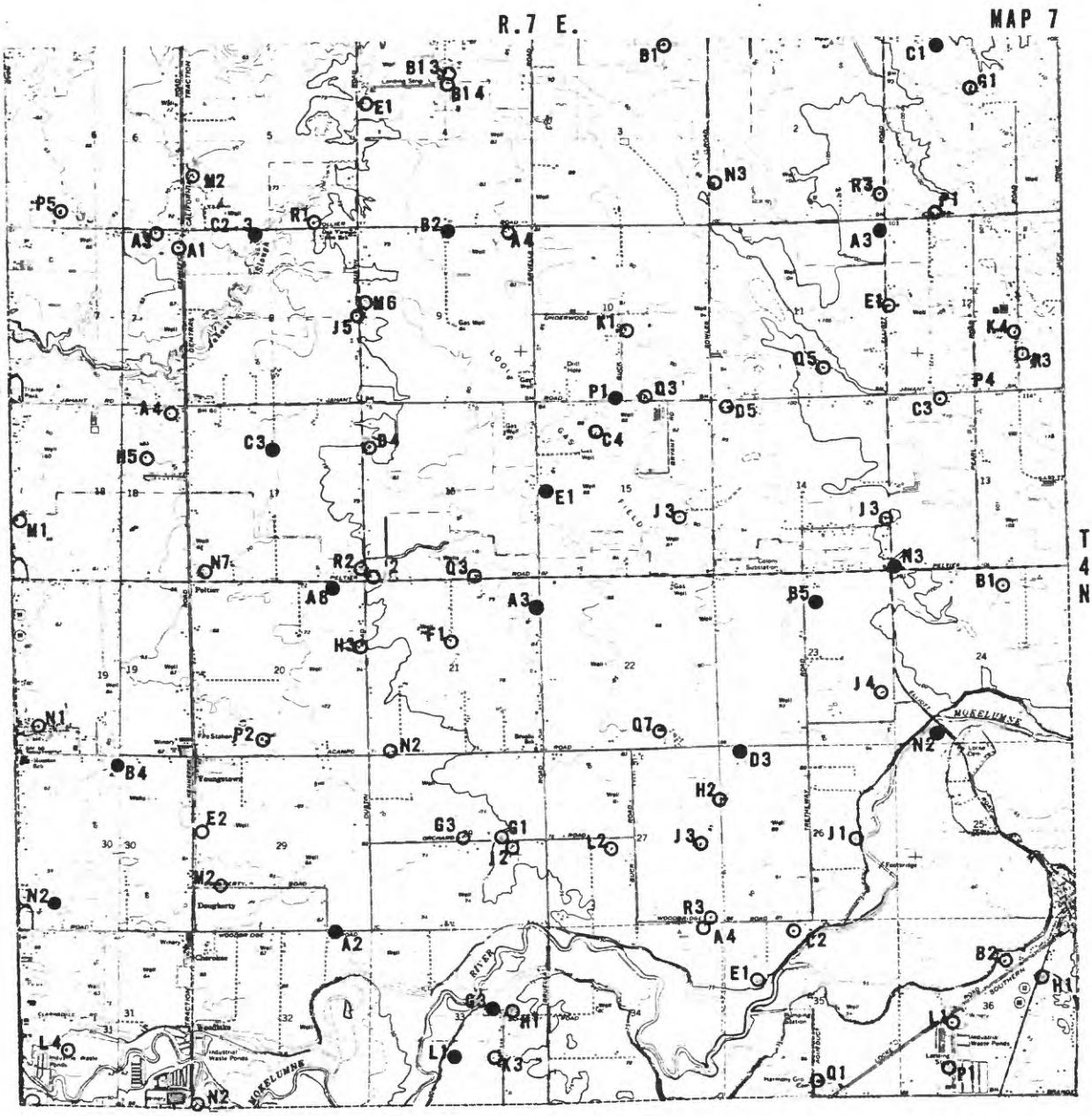

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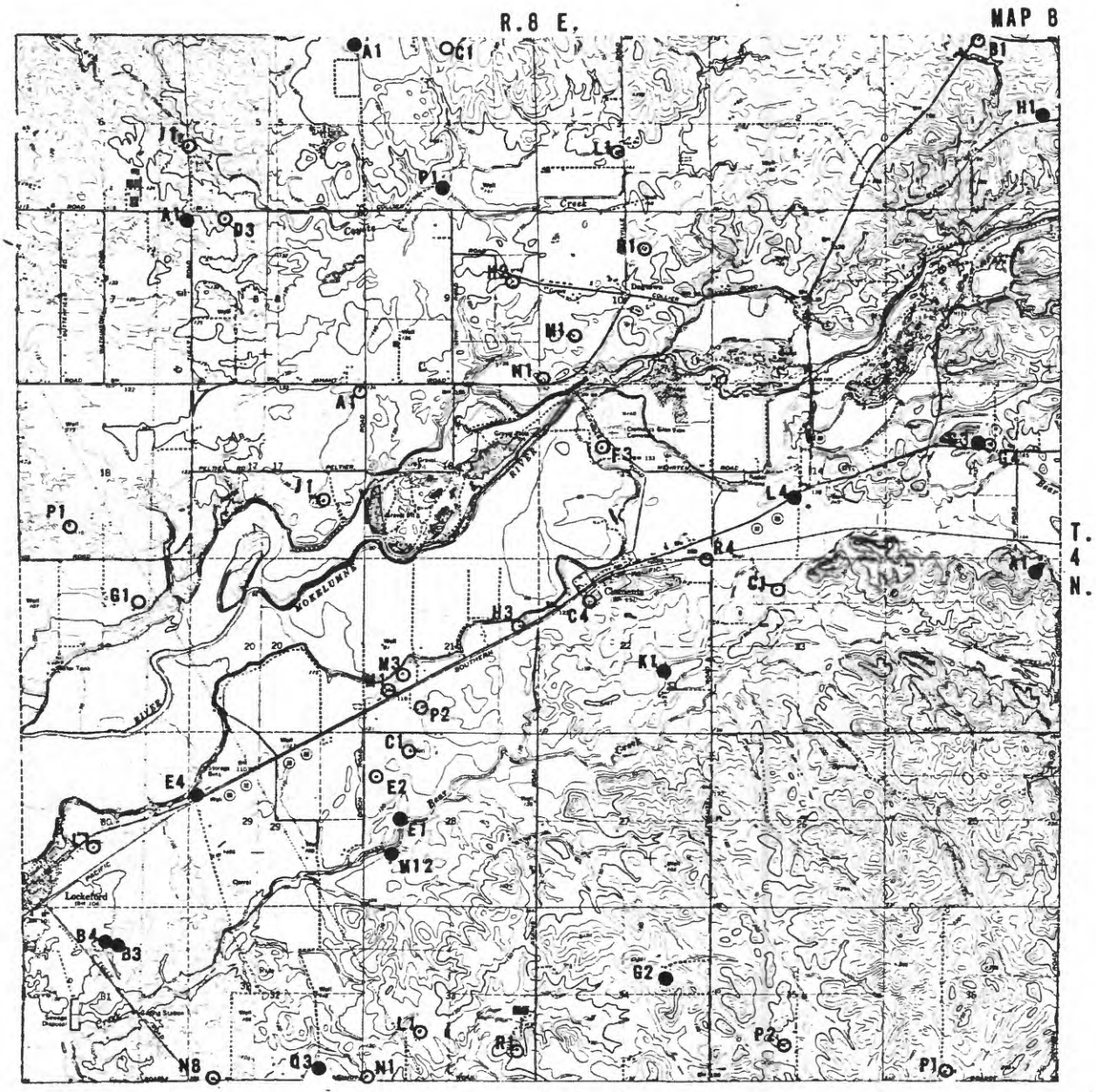
EXPLANATION

A1 ● Location of well sampled

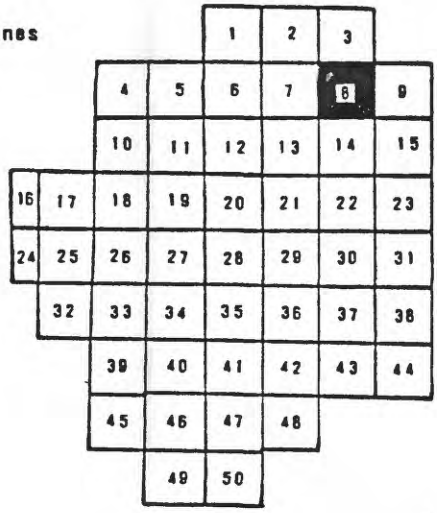
○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

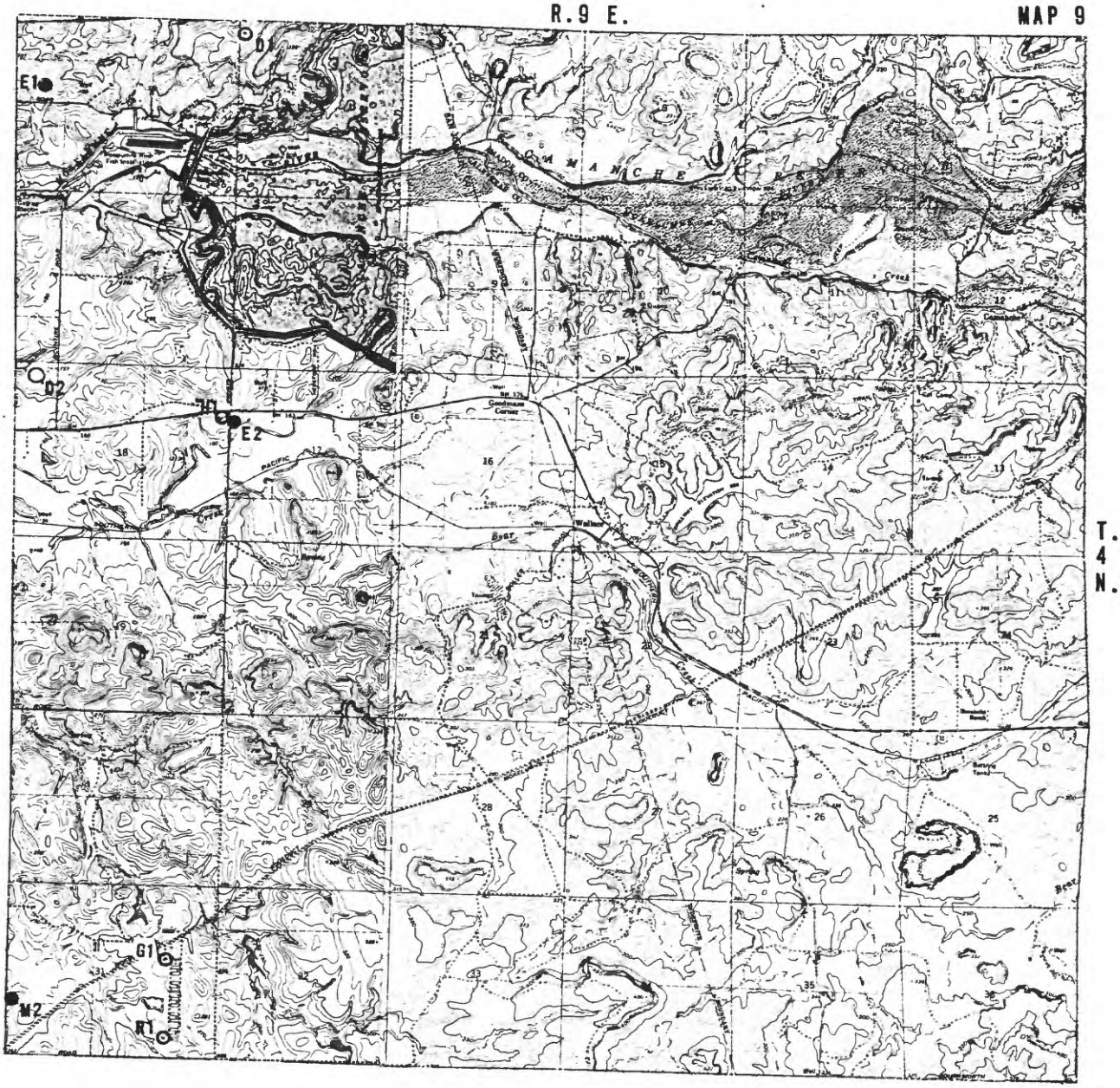


EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES



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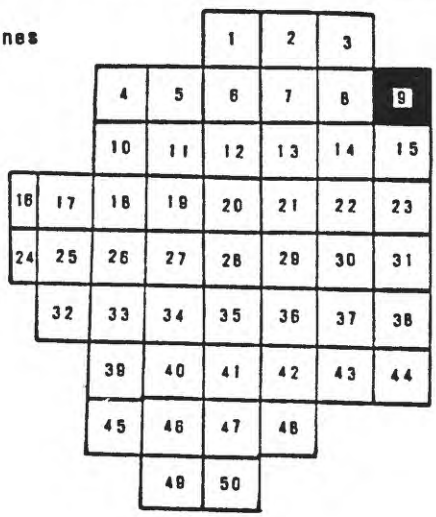
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

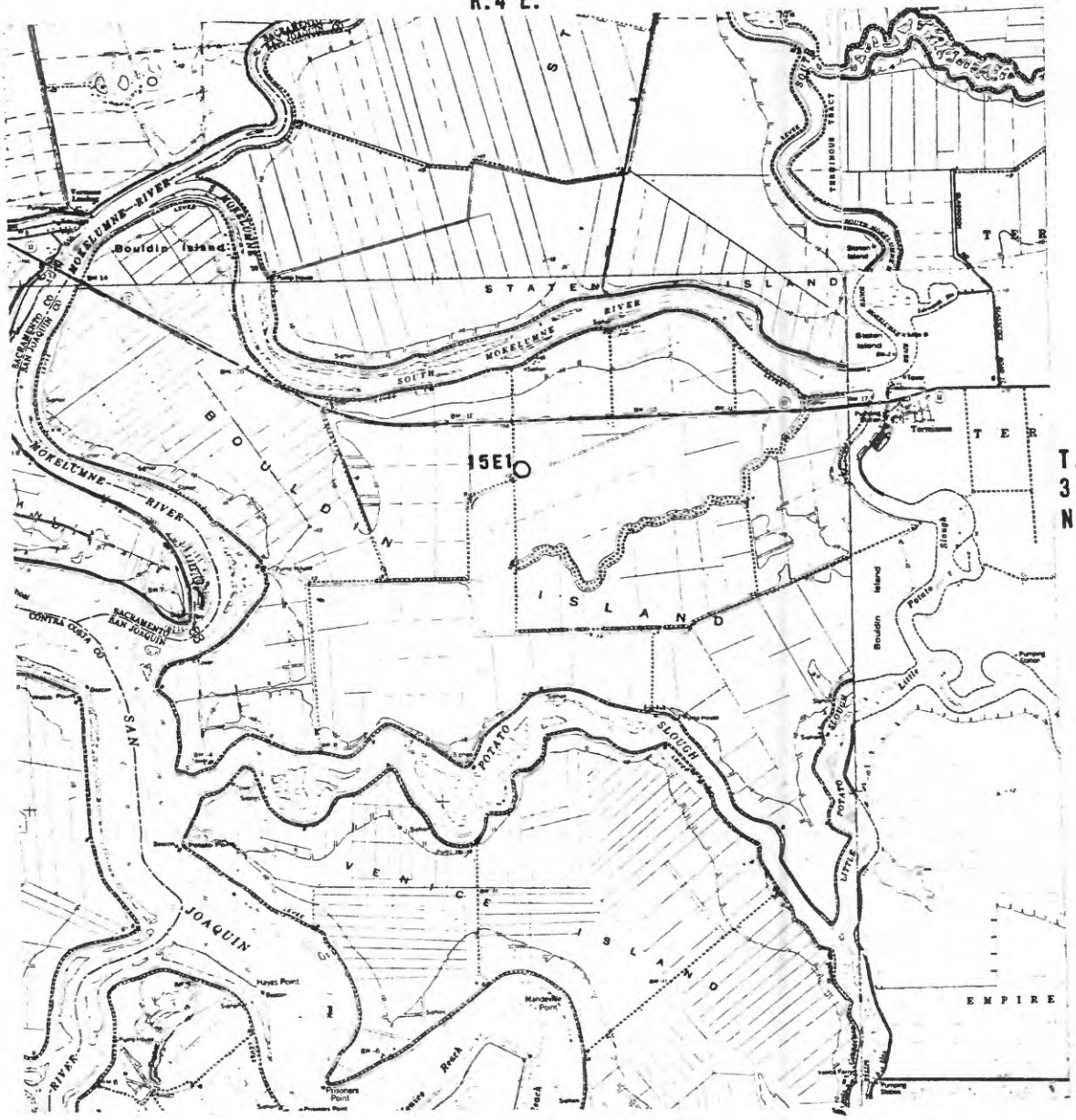
0 1 2 MILES



MAP 10

R.4 E.

T. 3 N.



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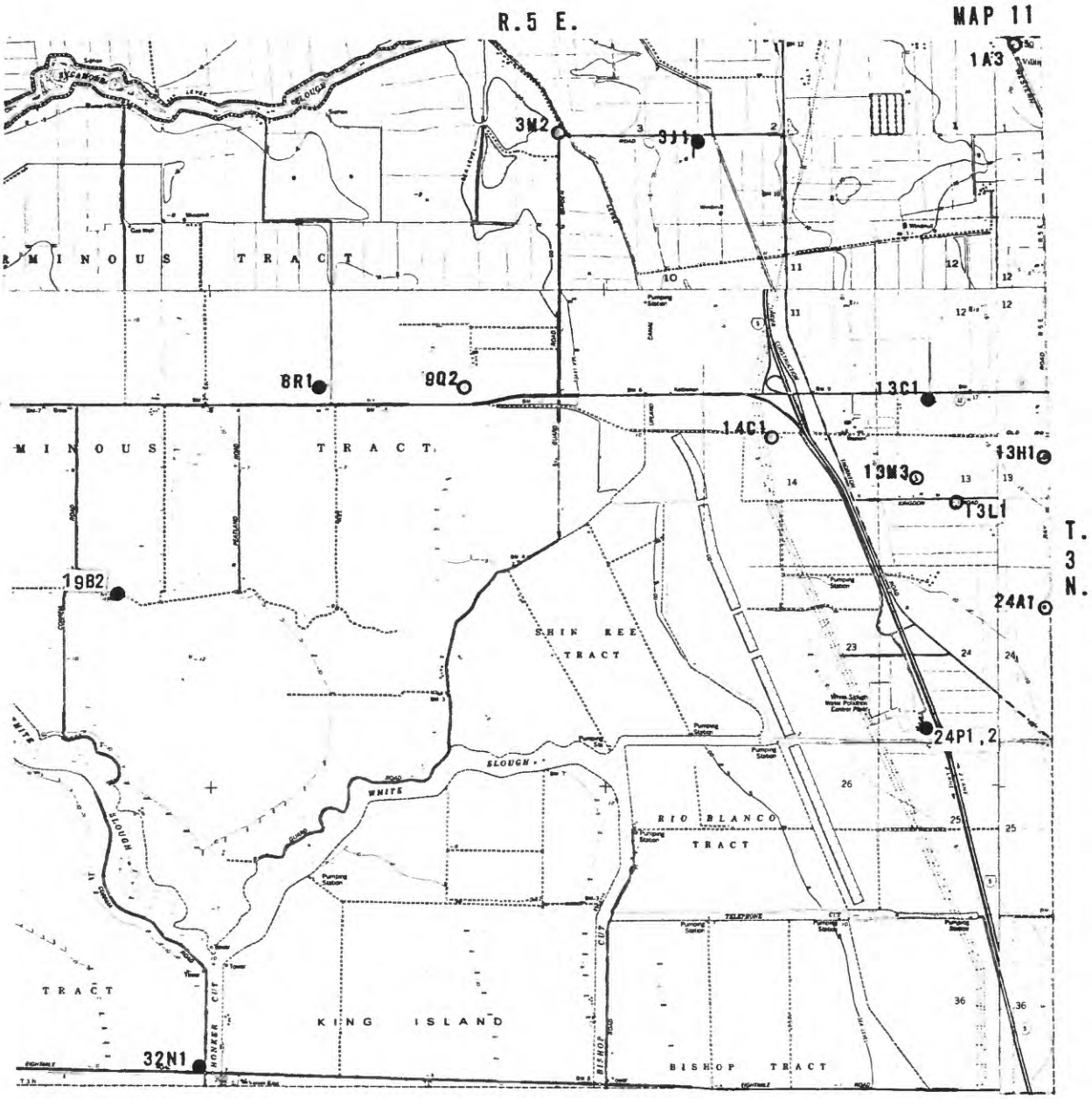
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



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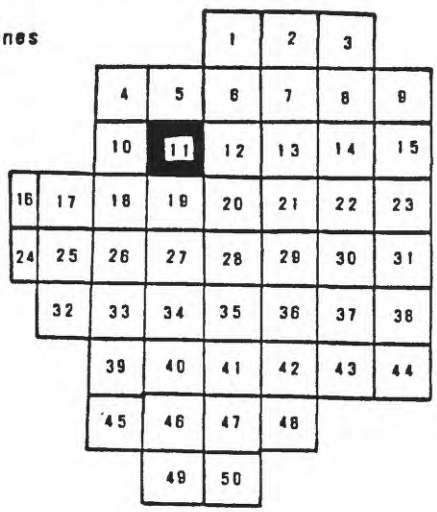
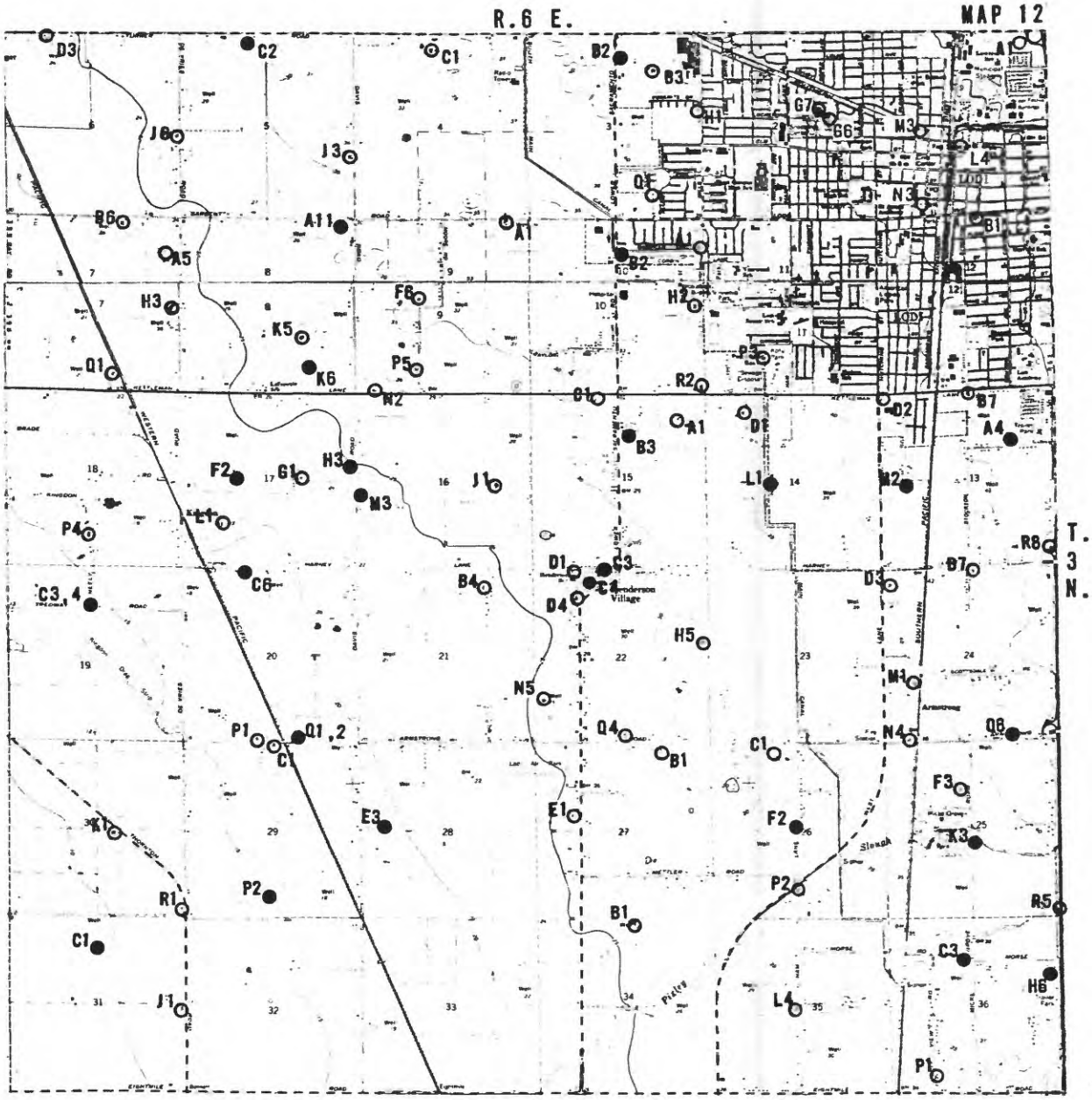
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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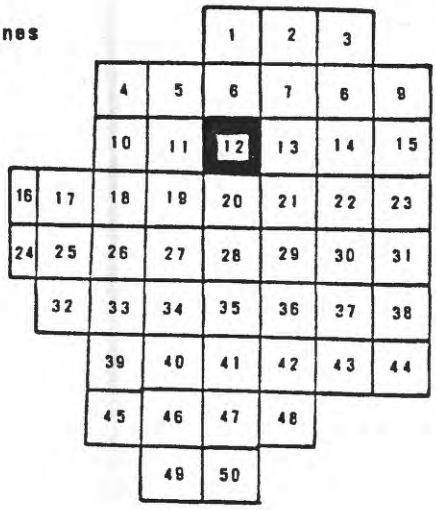
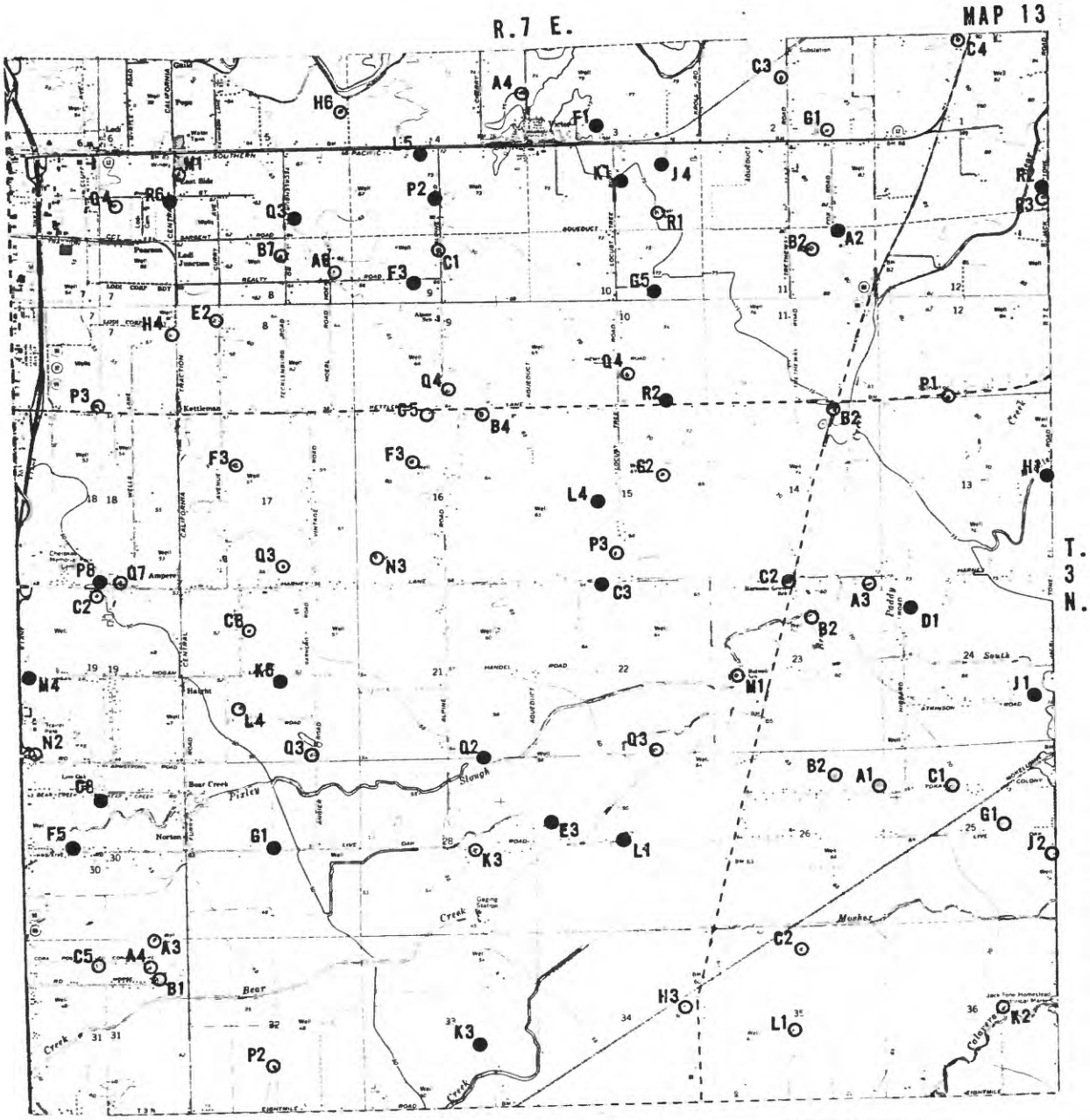
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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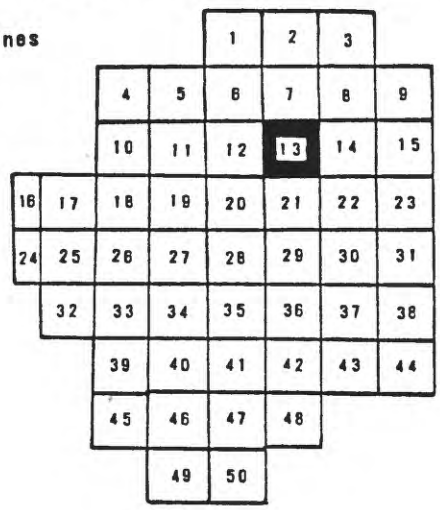
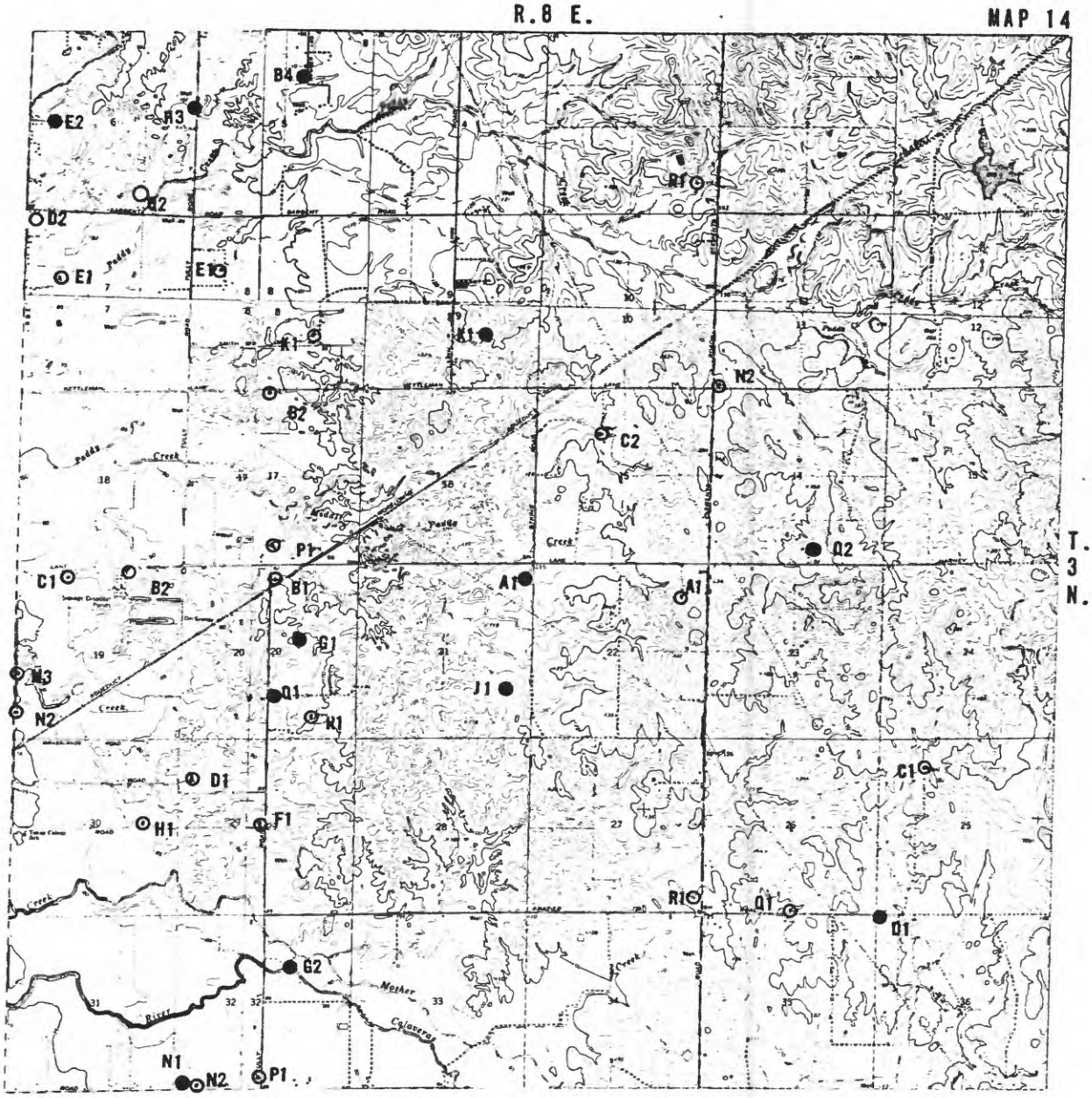
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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EXPLANATION

A1 ● Location of well sampled

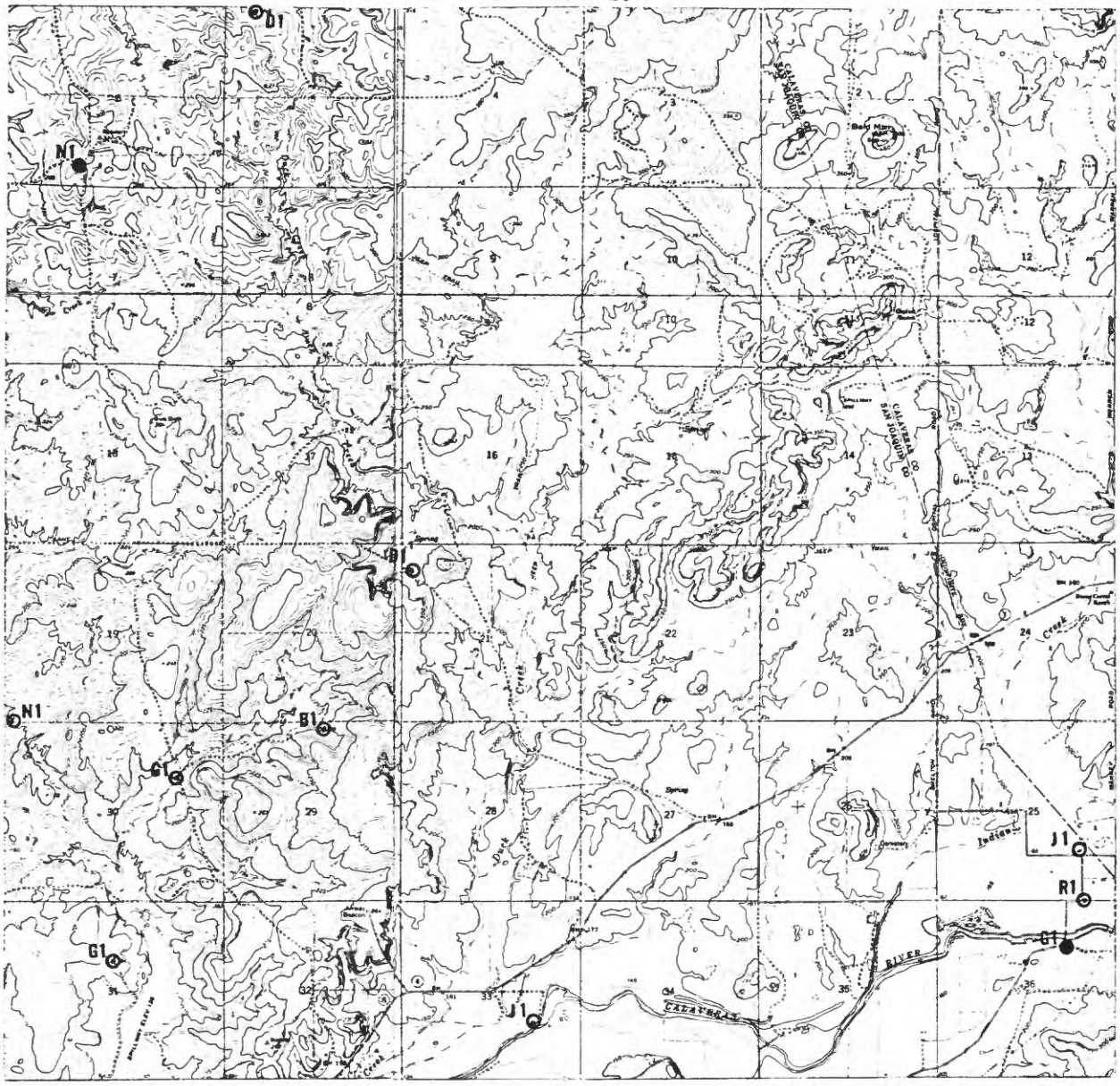
○ Location of well canvassed

0 1 2 MILES

		1	2	3		
	4	5	6	7	8	9
	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
	39	40	41	42	43	44
	45	46	47	48
		49	50

R.9 E.

MAP 15



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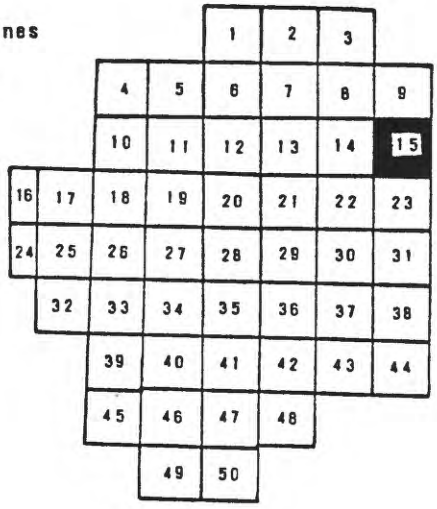
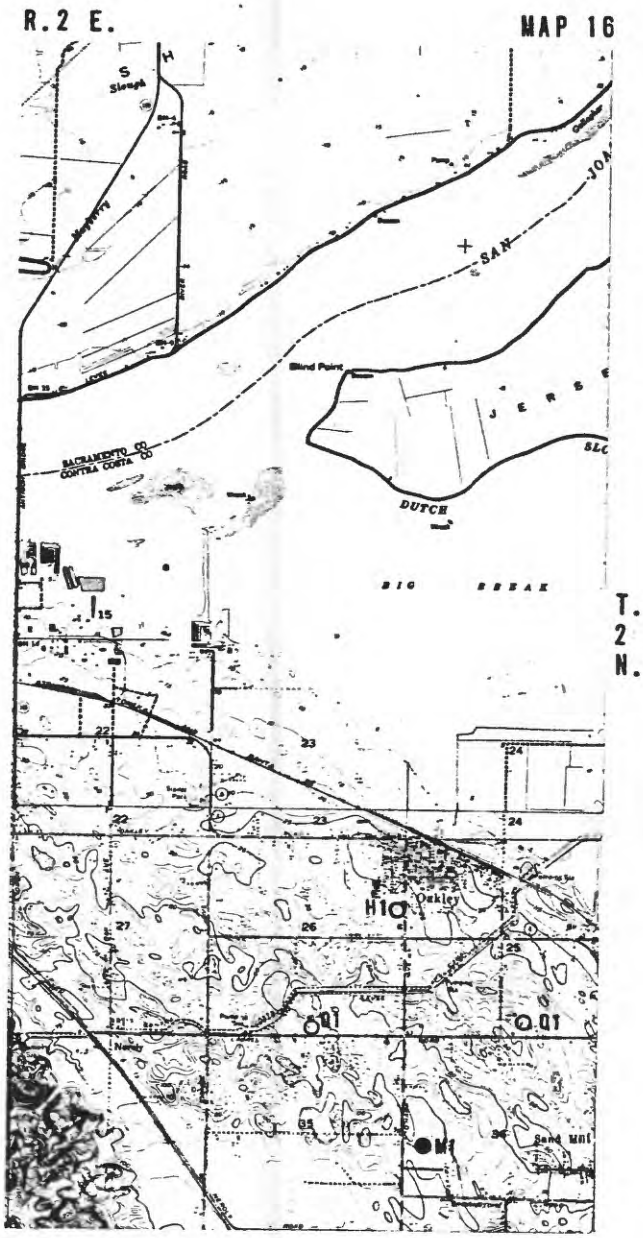
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





Well numbers in land grants are based on sections lines projected by the California Departmant of Water Resources. Projected section lines are not shown.

EXPLANATION

A1
● Location of well sampled

O Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
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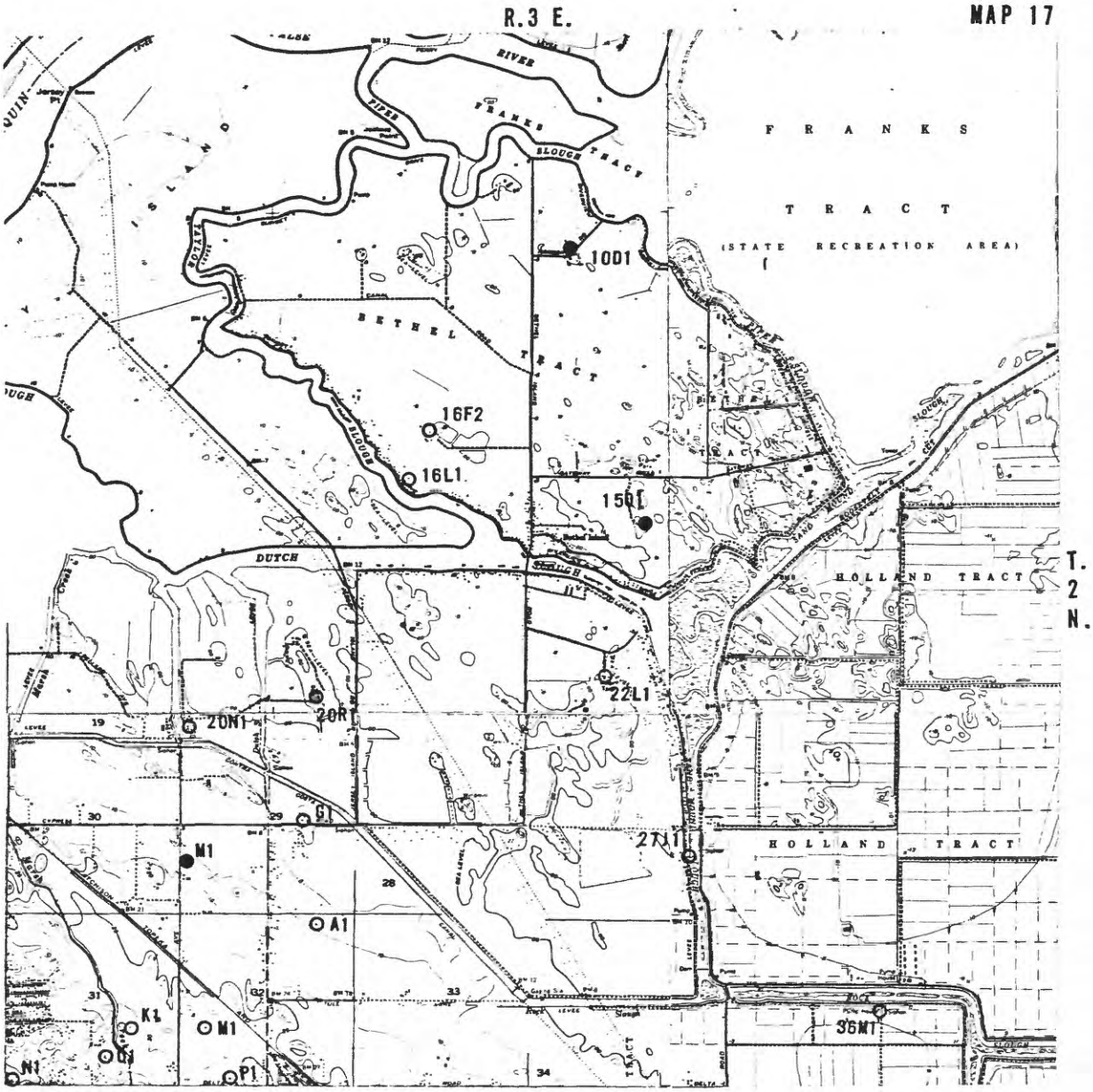
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



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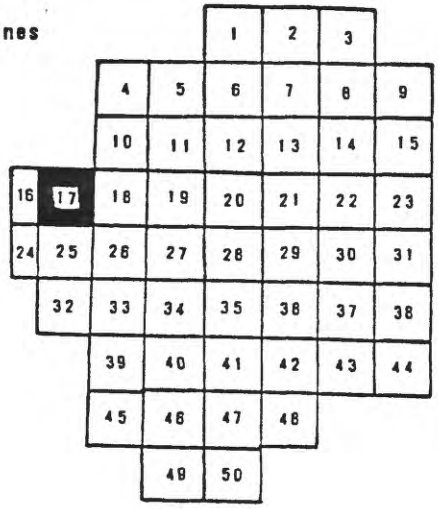
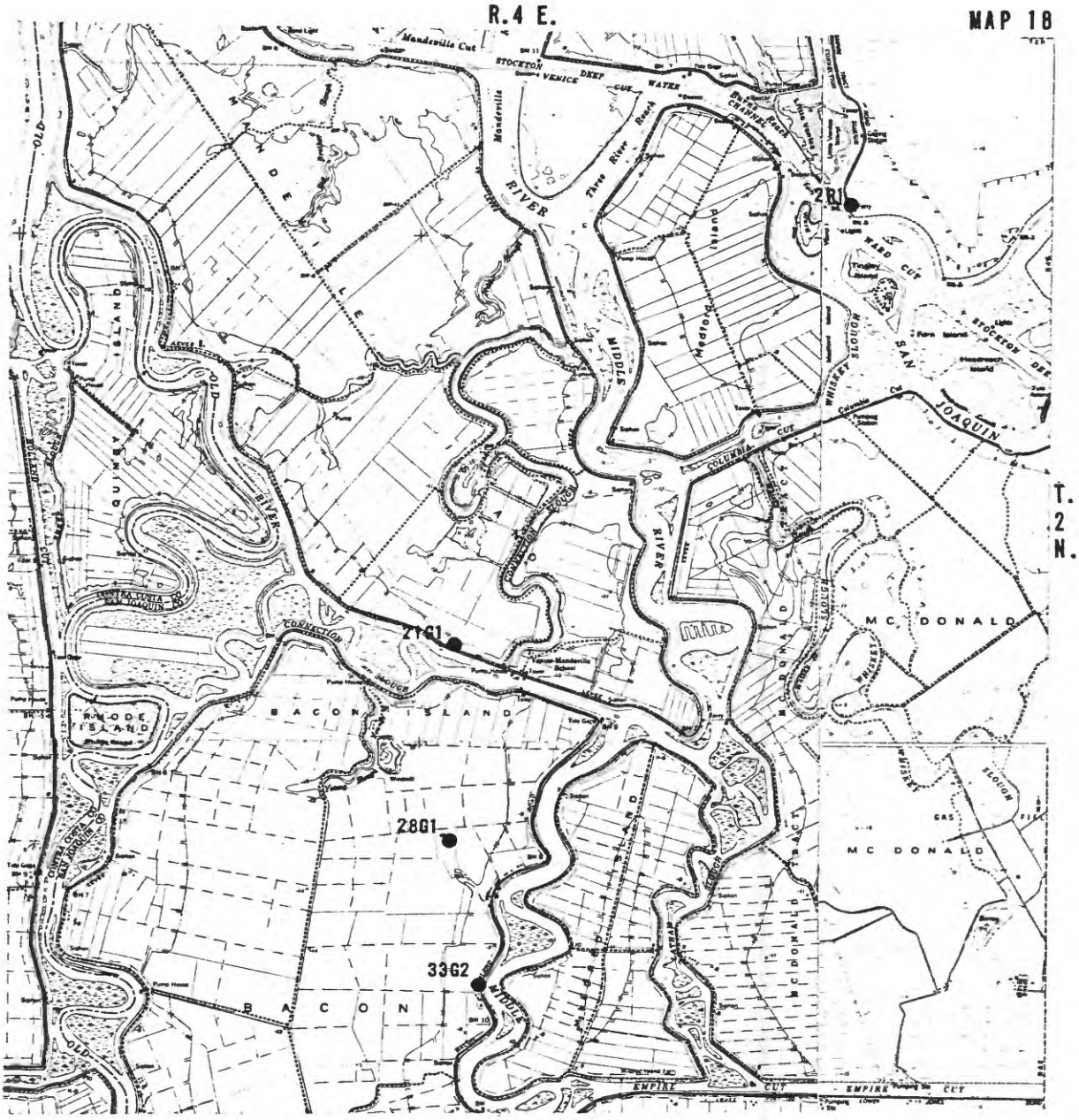
EXPLANATION

A1
● Location of well sampled

O Location of well canvassed

0 1 2 MILES





Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1
● Location of well sampled

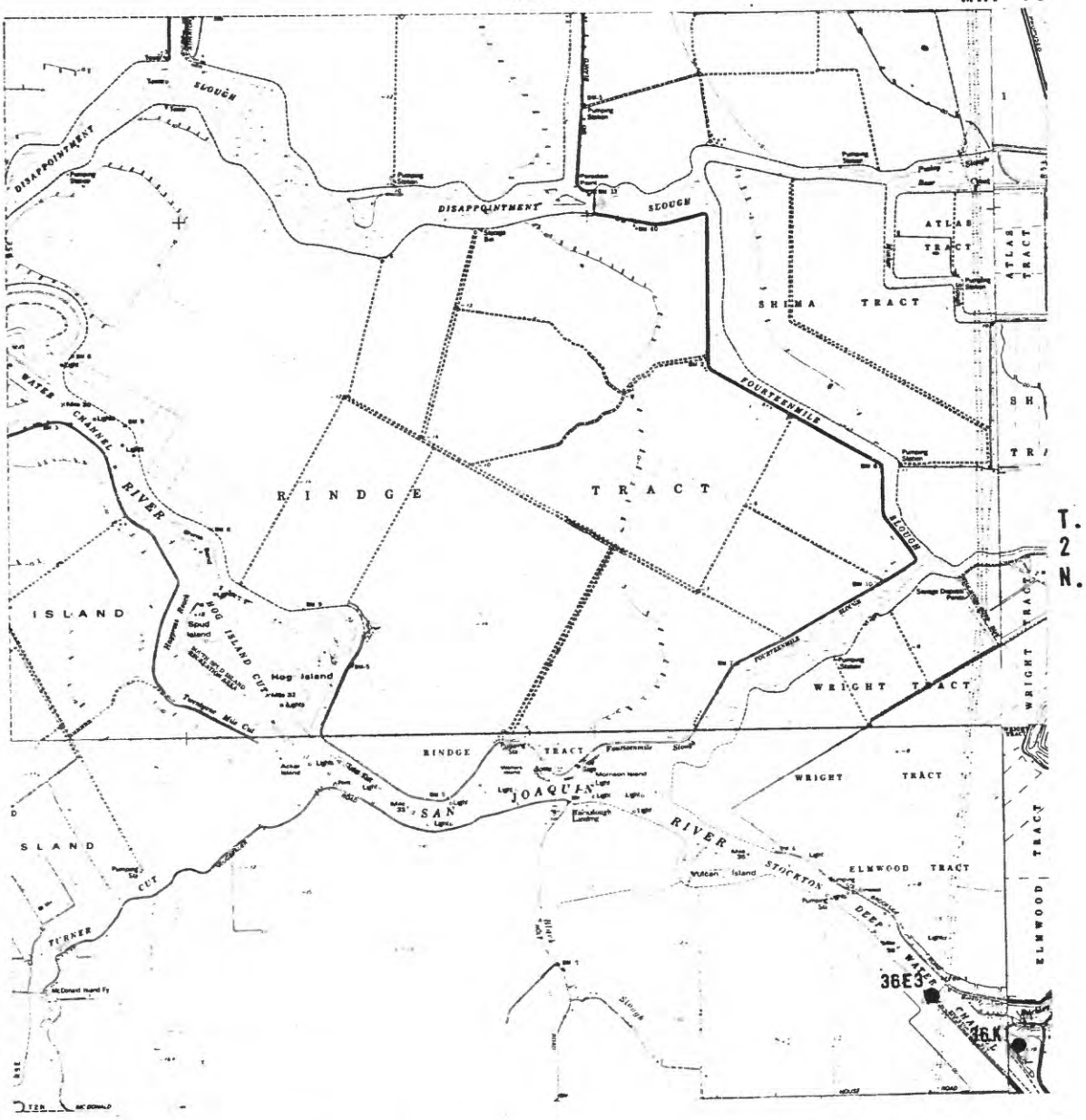
○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			

R.5 E.

MAP 19



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

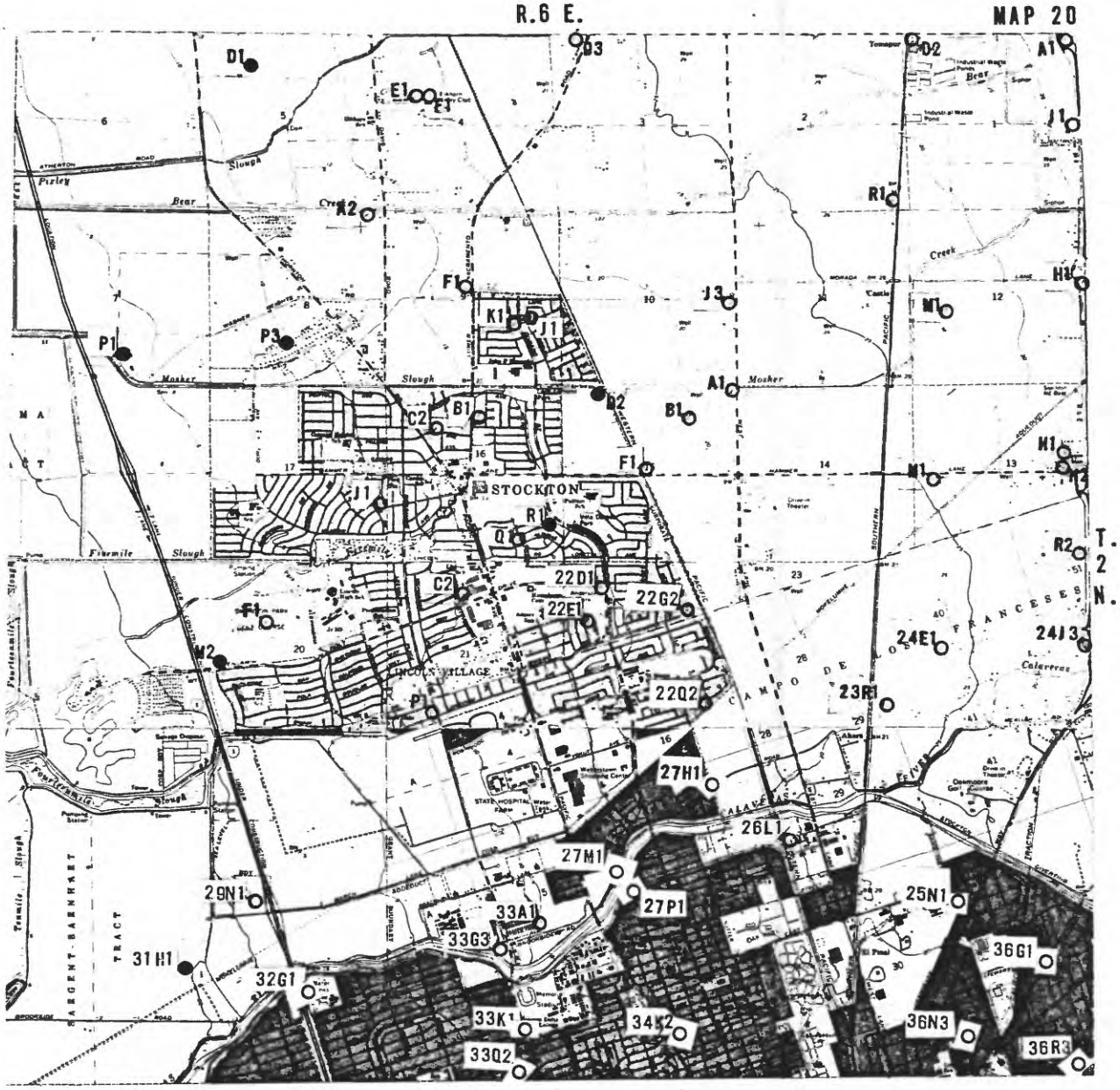
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

		1	2	3		
	4	5	6	7	8	9
	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

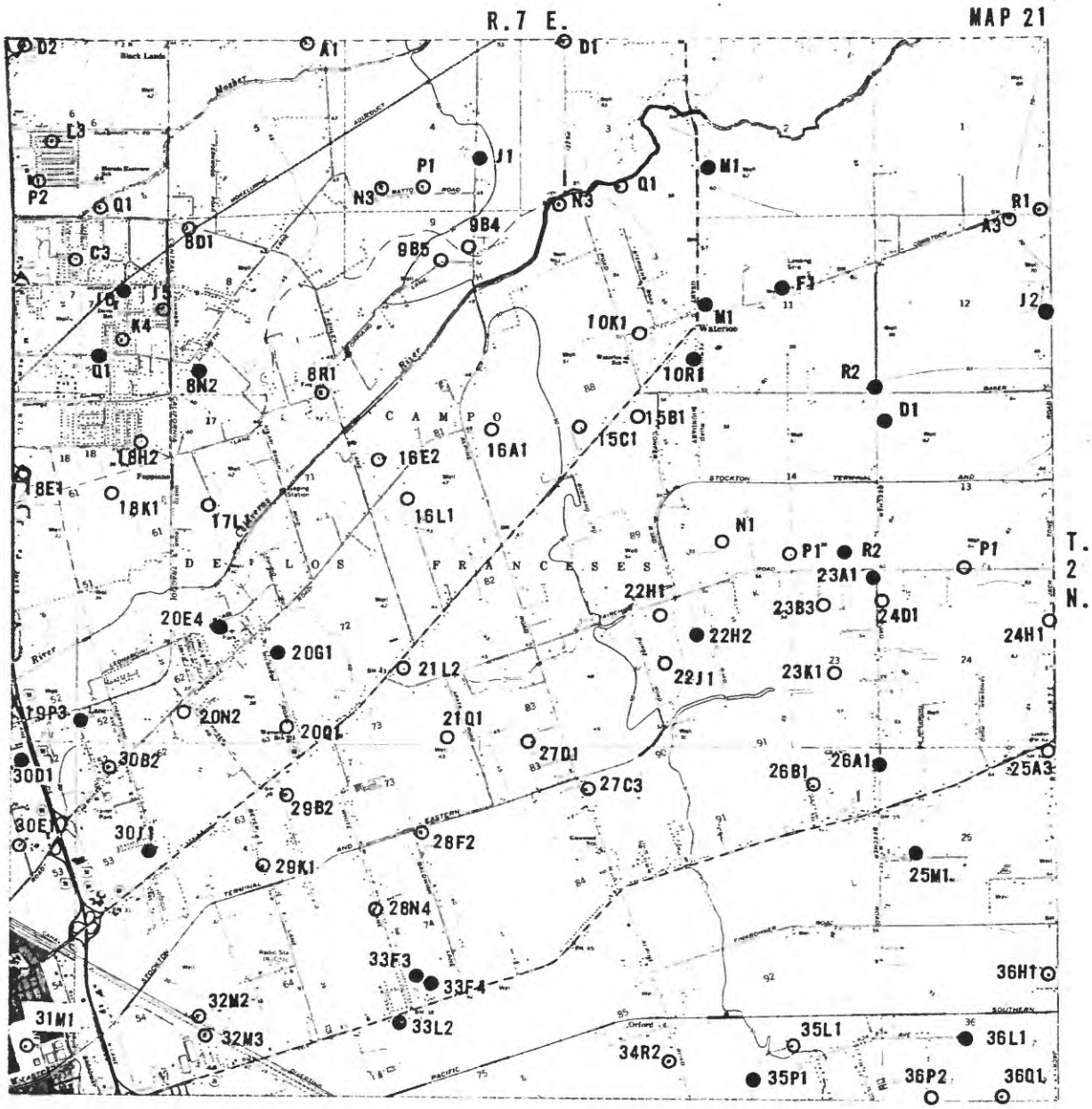
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

		1	2	3		
	4	5	6	7	8	9
	10	11	12	13	14	15
16 17	18	19	20	21	22	23
24 25	26	27	28	29	30	31
32	33	34	35	36	37	38
	39	40	41	42	43	44
	45	46	47	48		
		49	50			



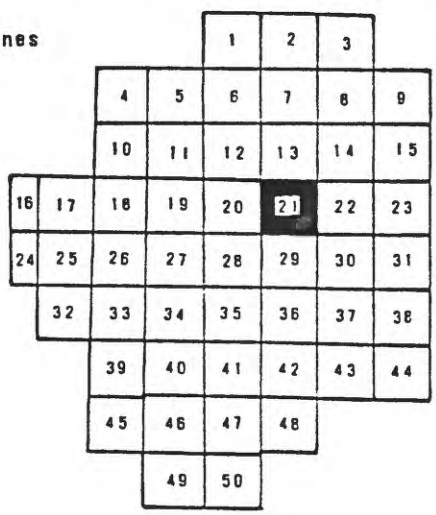
Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

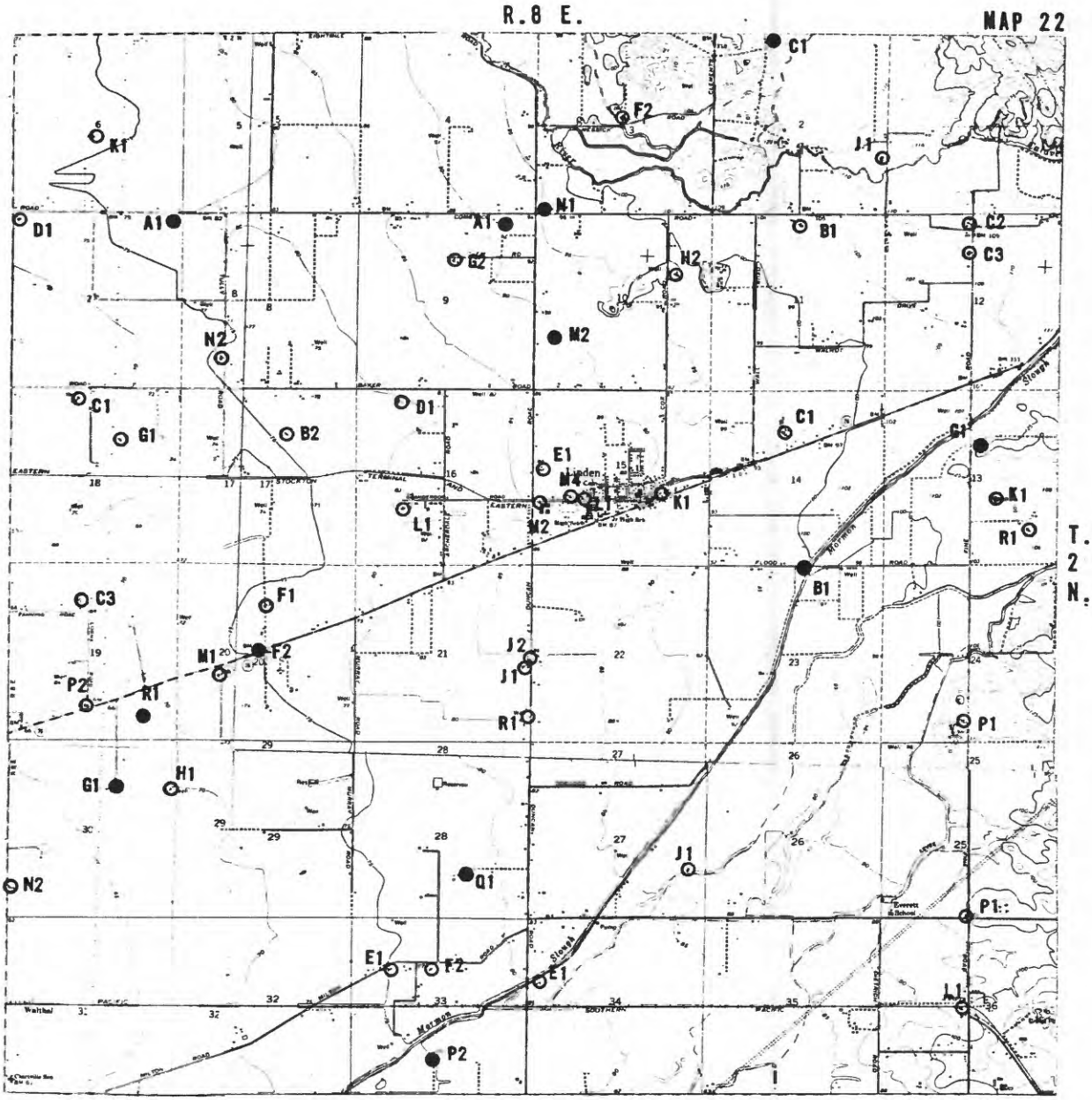
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1 ● Location of well sampled

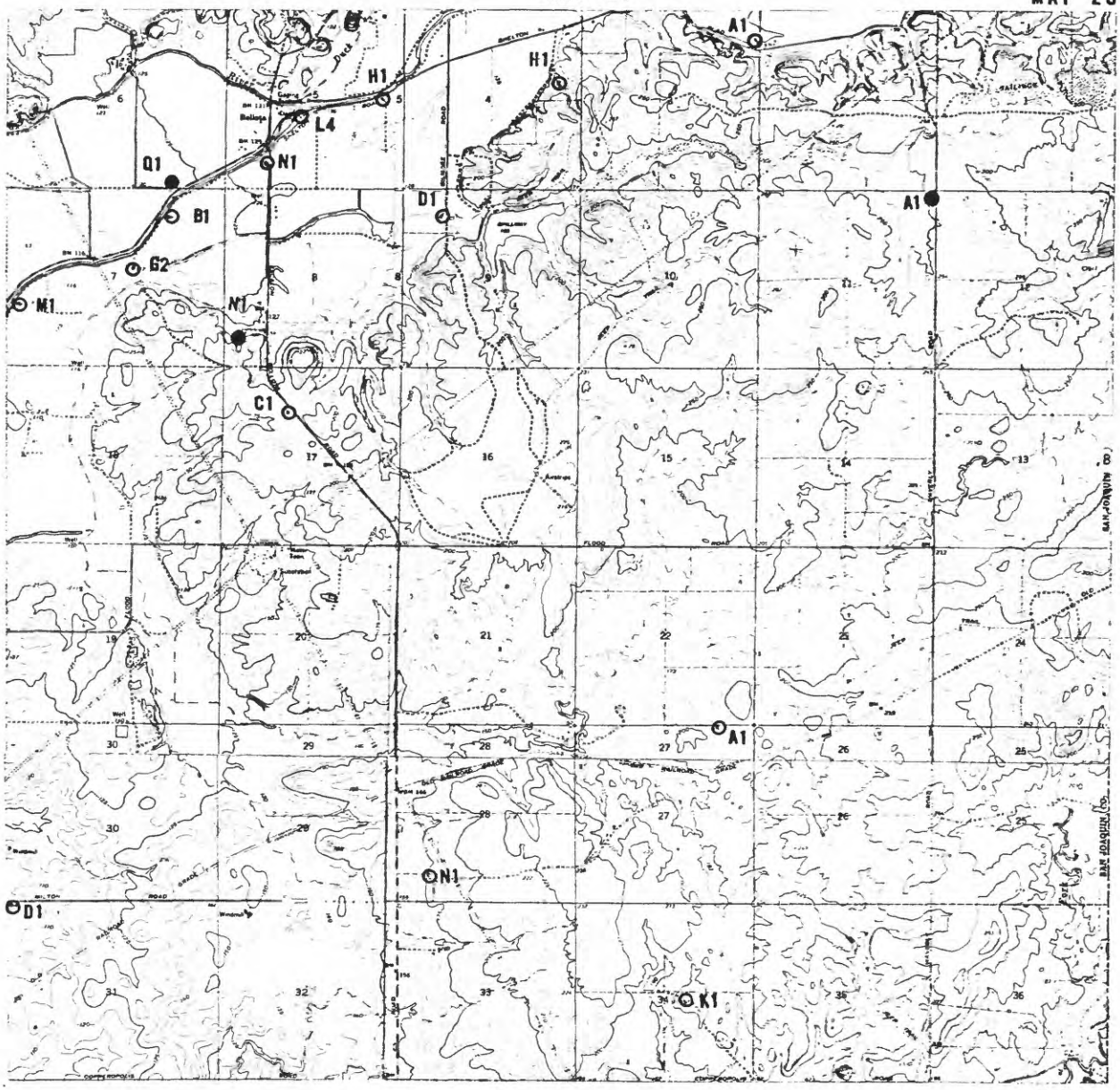
○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			

R.9 E.

MAP 23



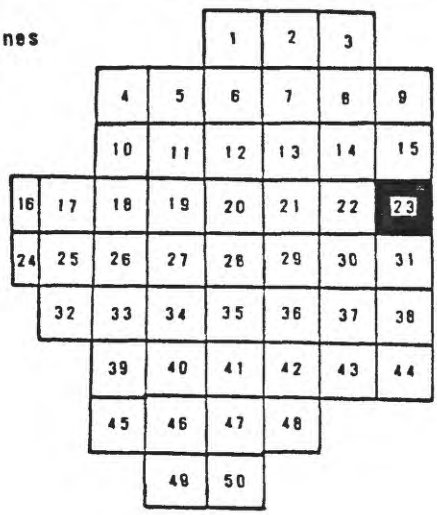
Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1
● Location of well sampled

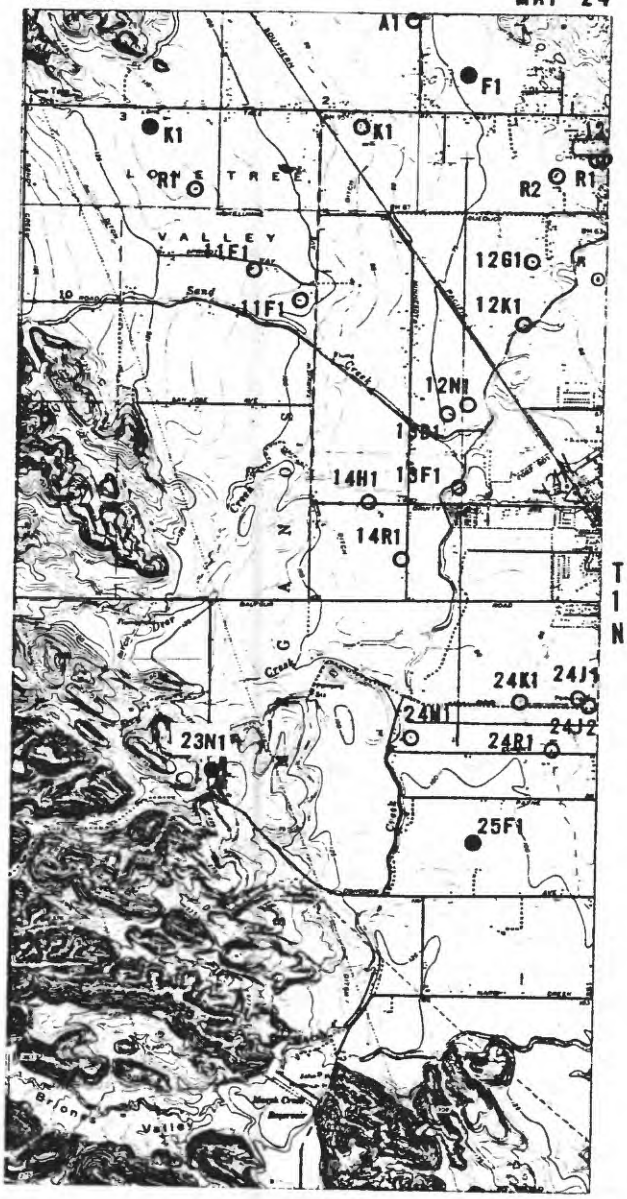
○ Location of well canvassed

0 1 2 MILES



R.2 E.

MAP 24



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

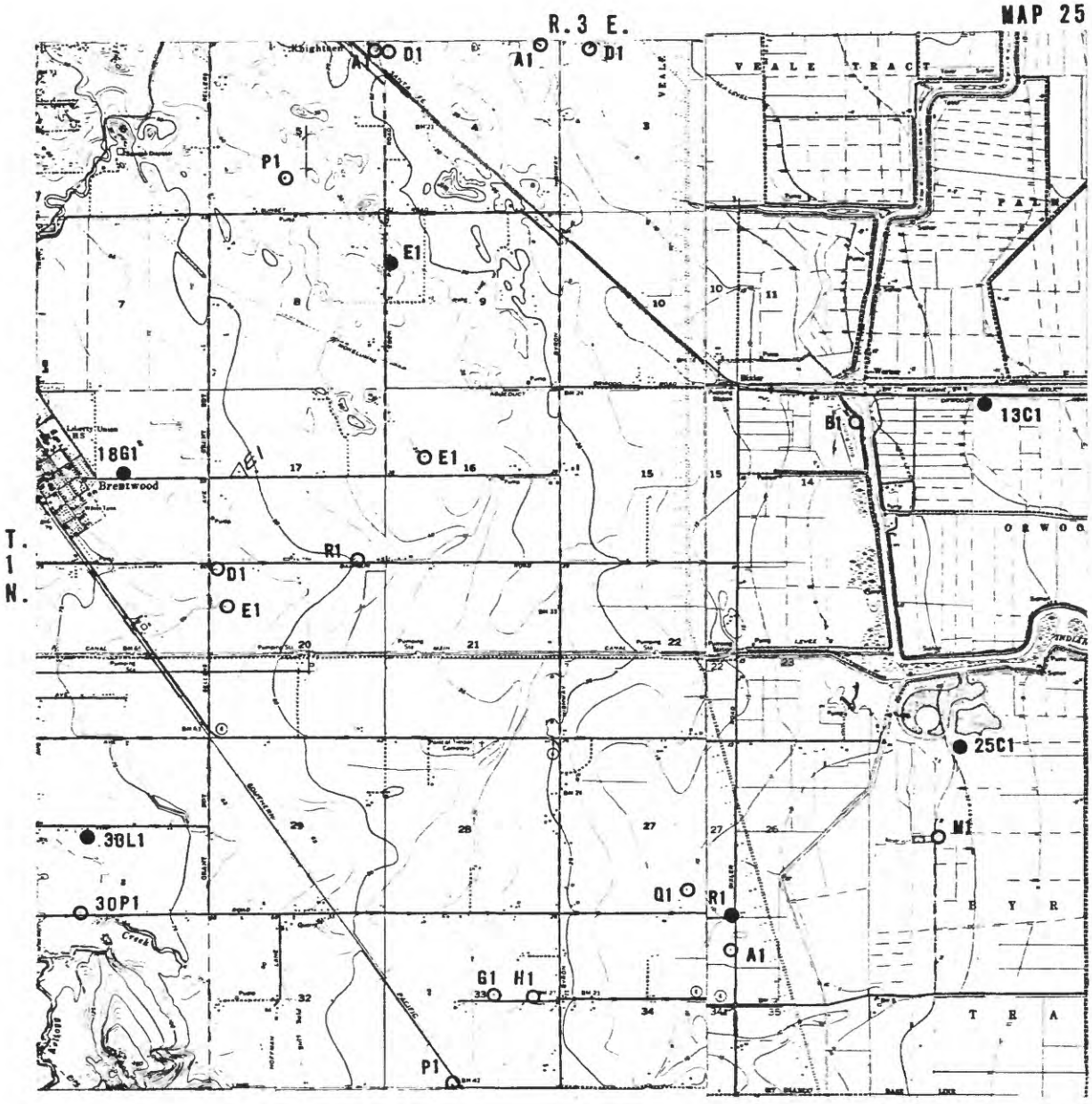
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
	4	5	6	7	8	9
	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
	39	40	41	42	43	44
	45	46	47	48		
		49	50			



Well numbers in land grants ara based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

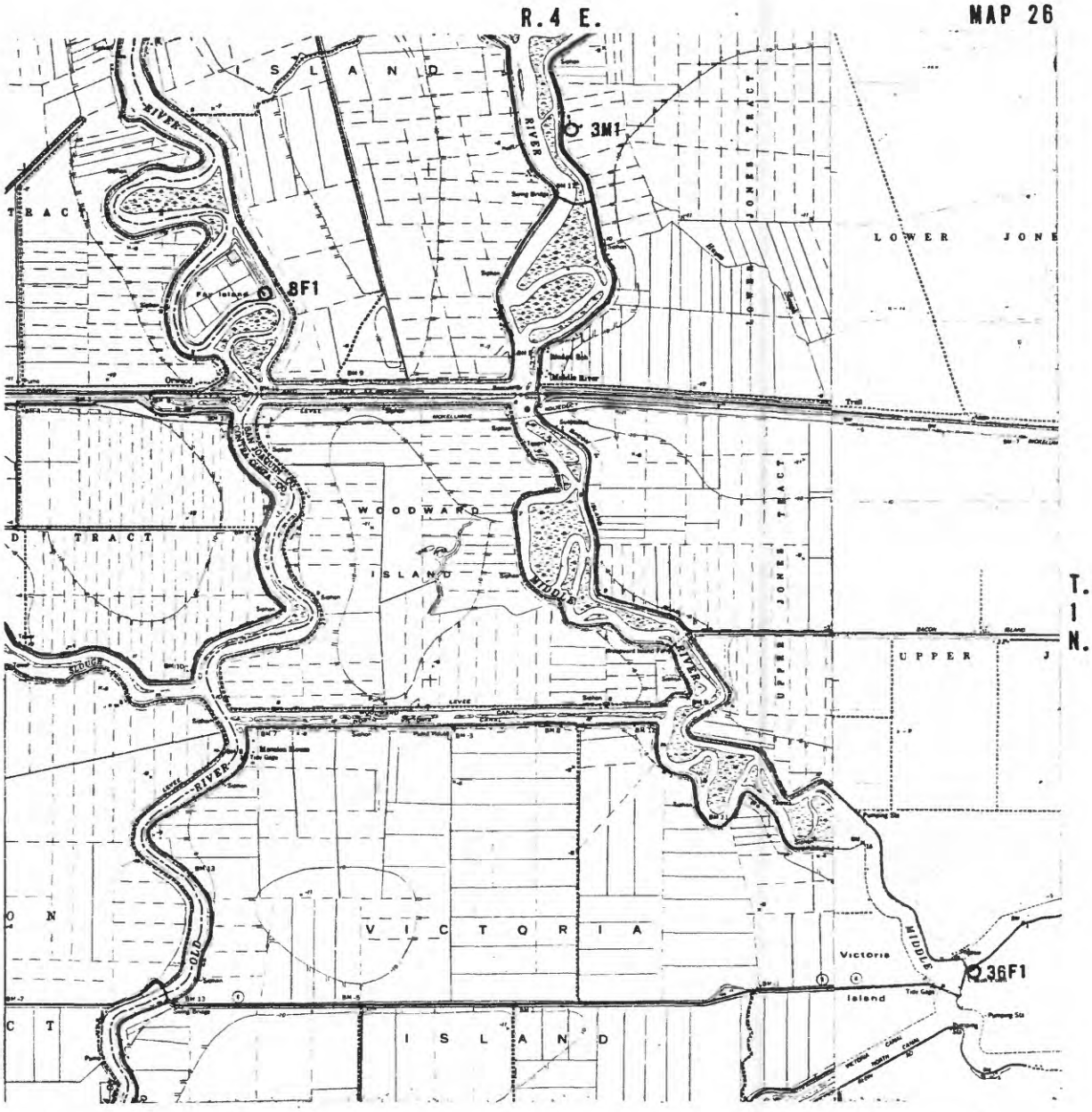
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

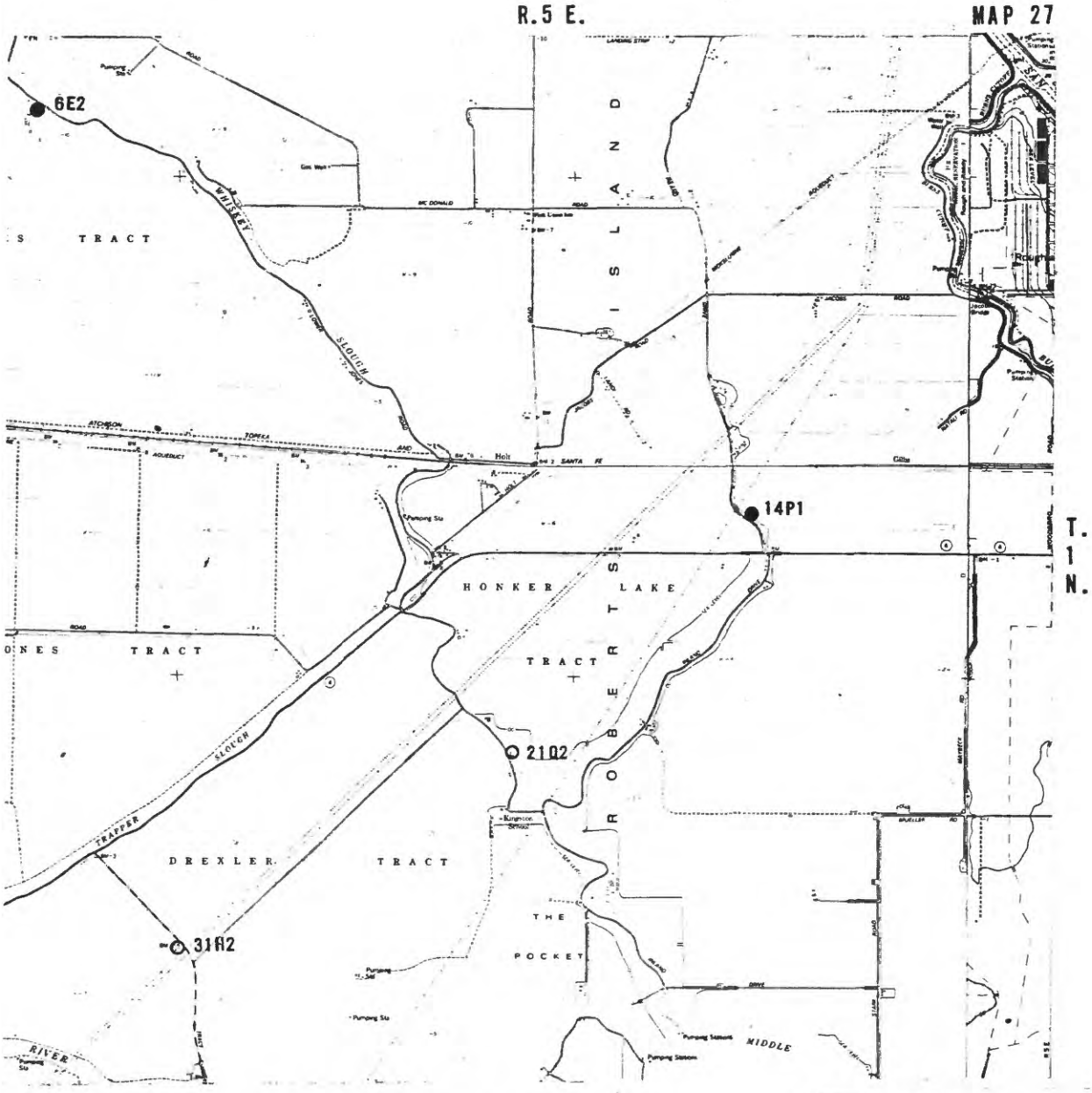
EXPLANATION

A1
● Location of well sampled

O Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

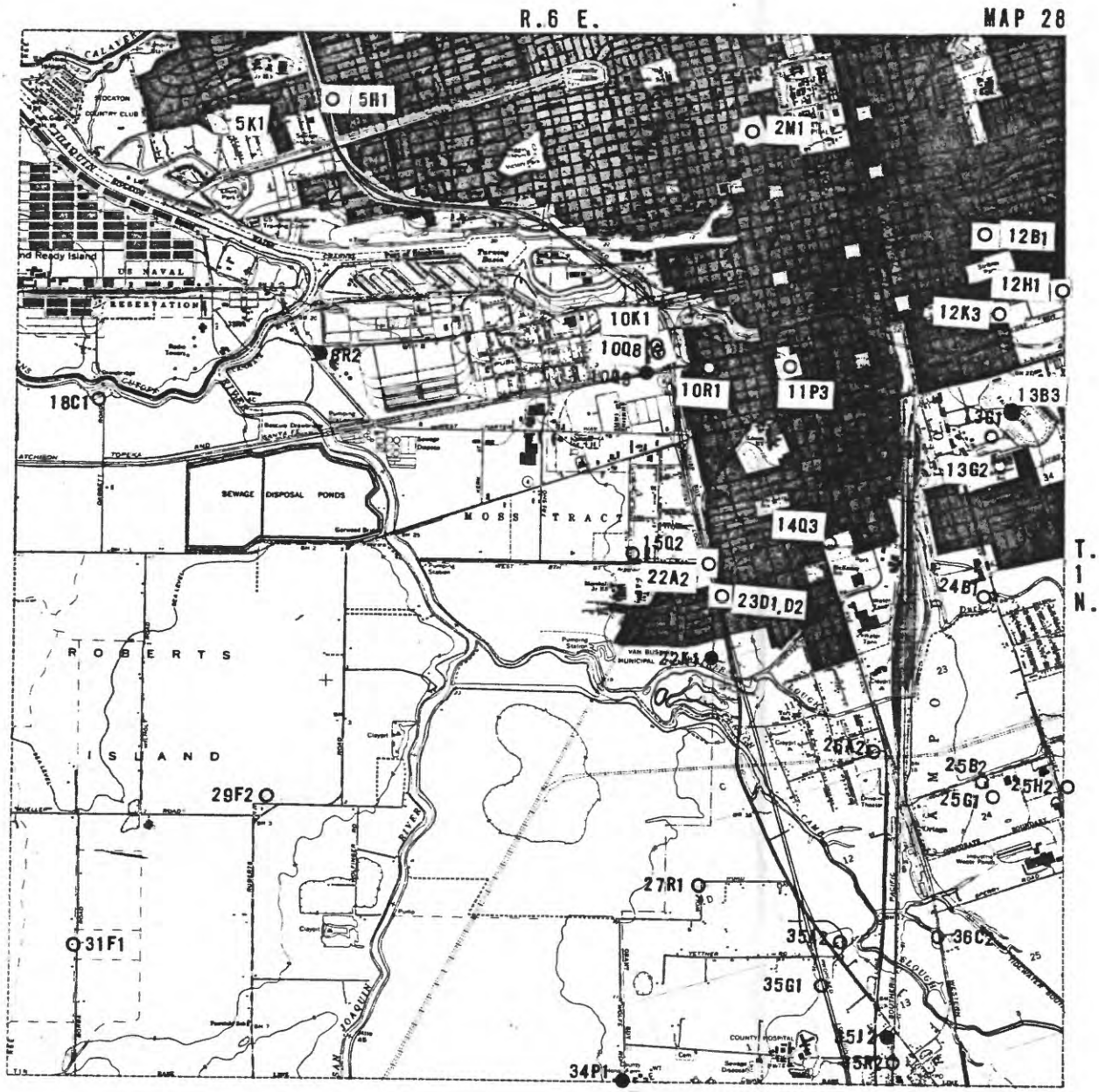
EXPLANATION

A1
● Location of well sampled

O Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

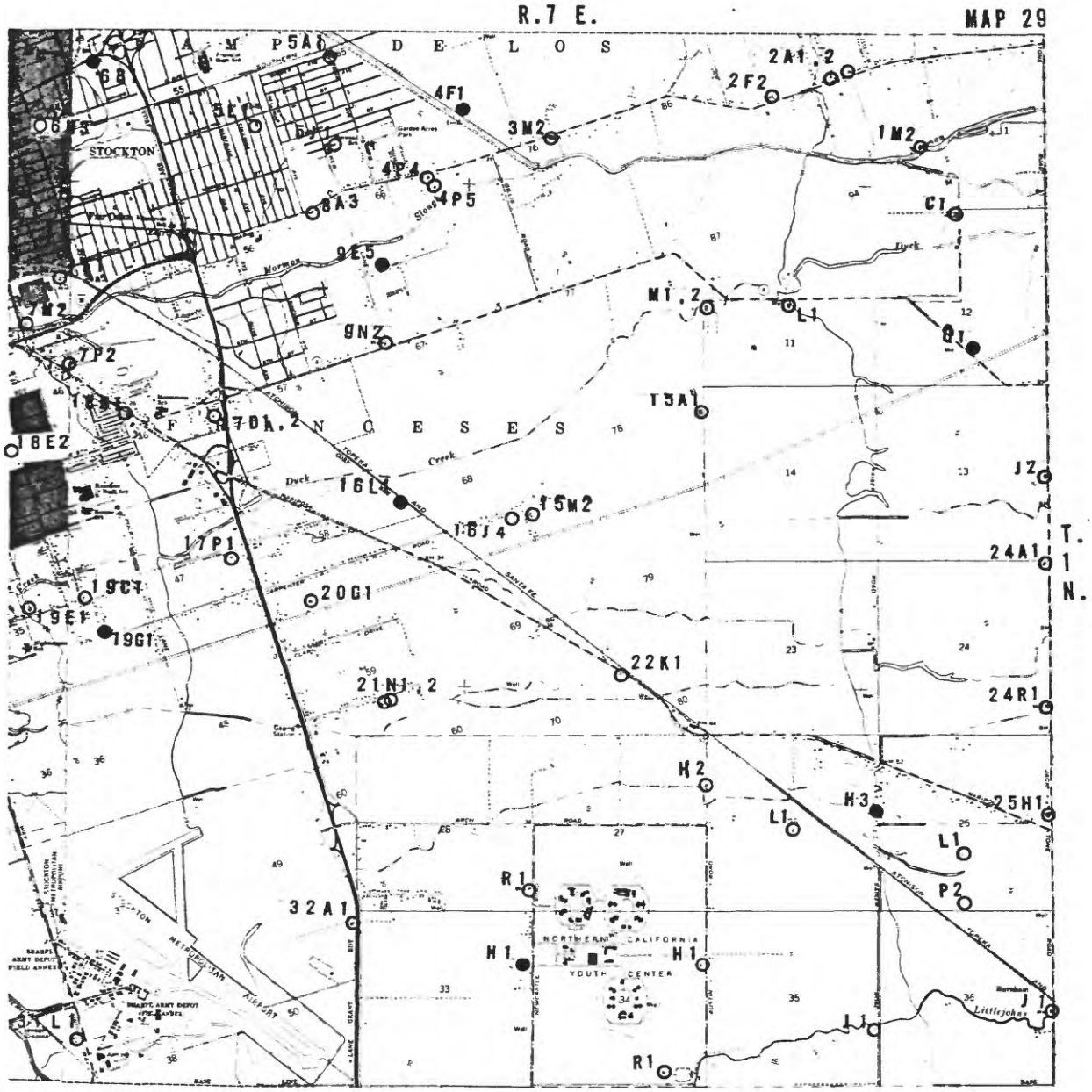
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

		1	2	3		
	4	5	6	7	8	9
	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

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		4	5	6	7	8	9
		10	11	12	13	14	15
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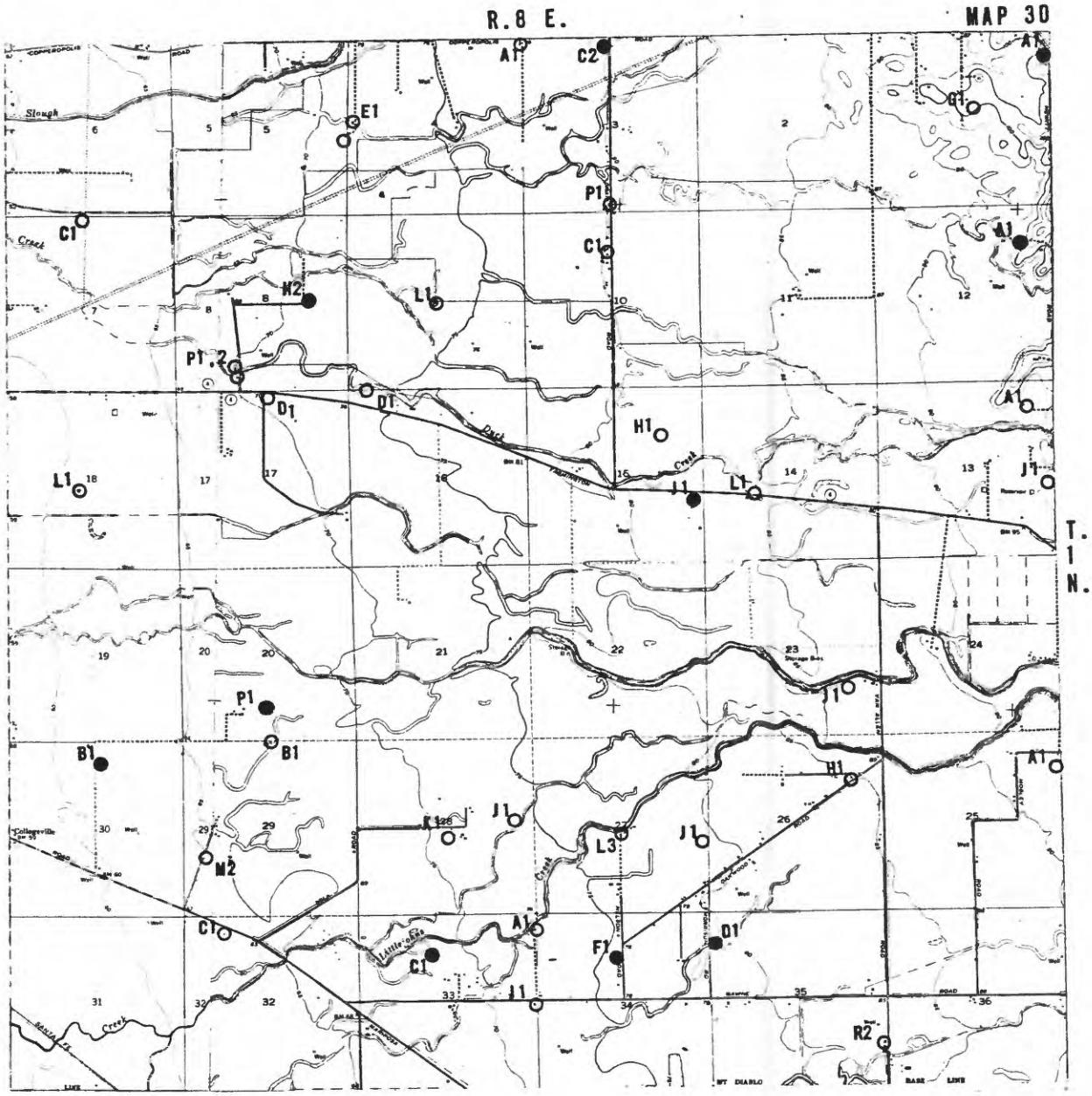
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



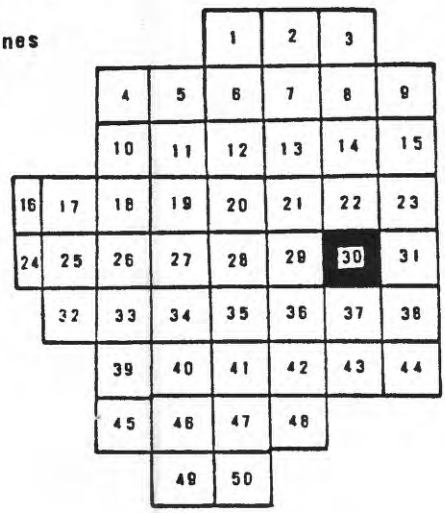
Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

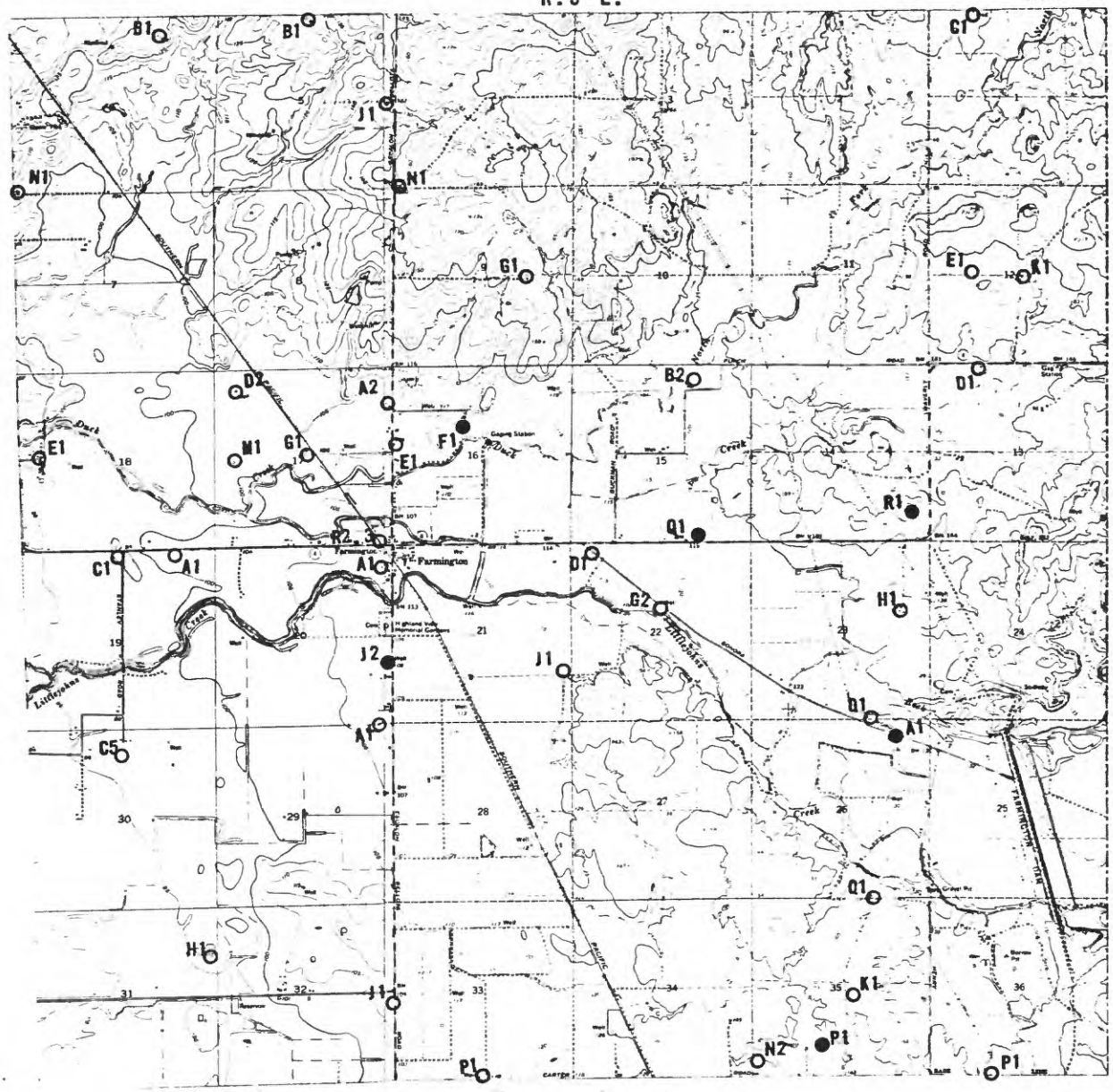
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

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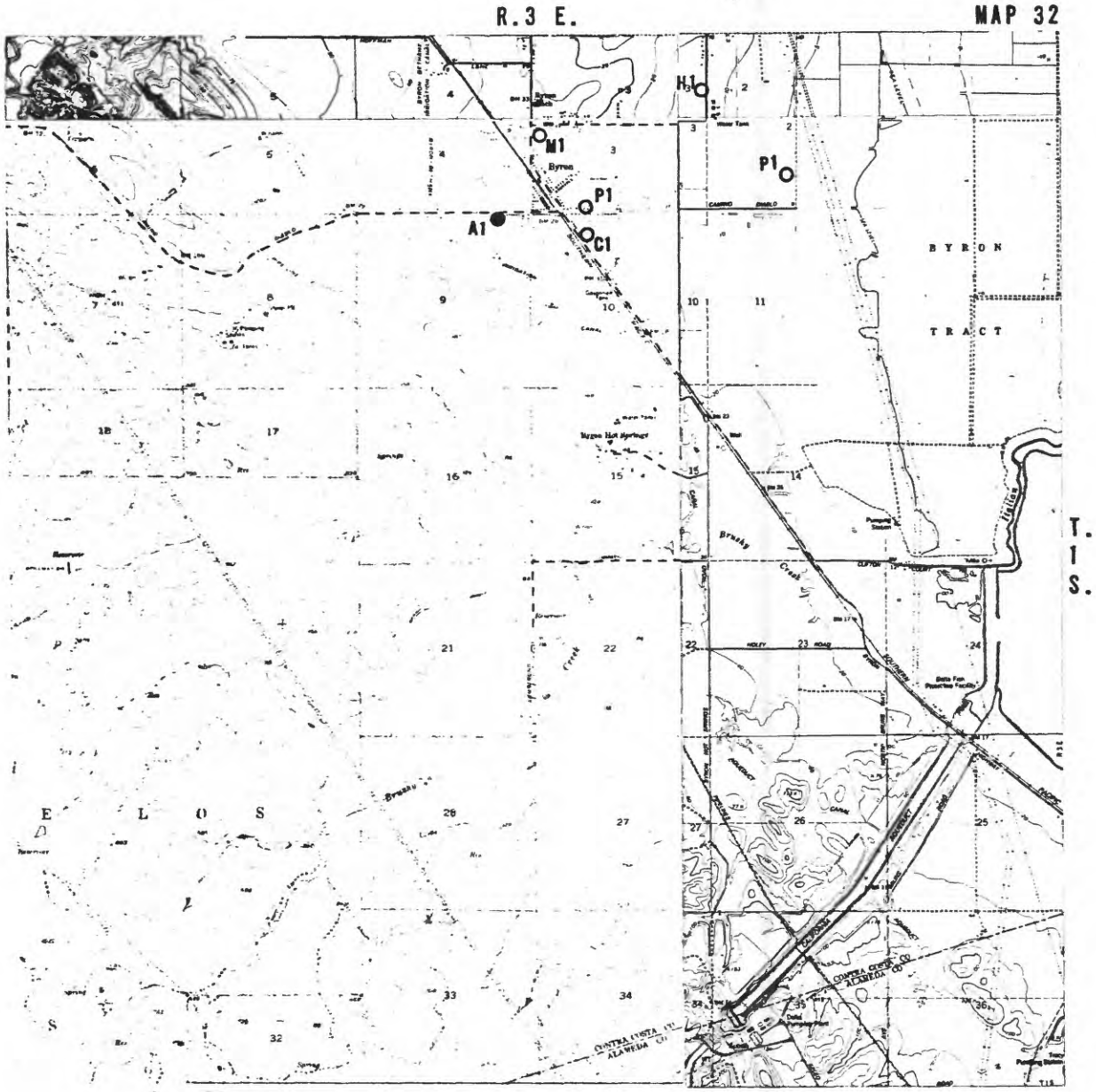
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

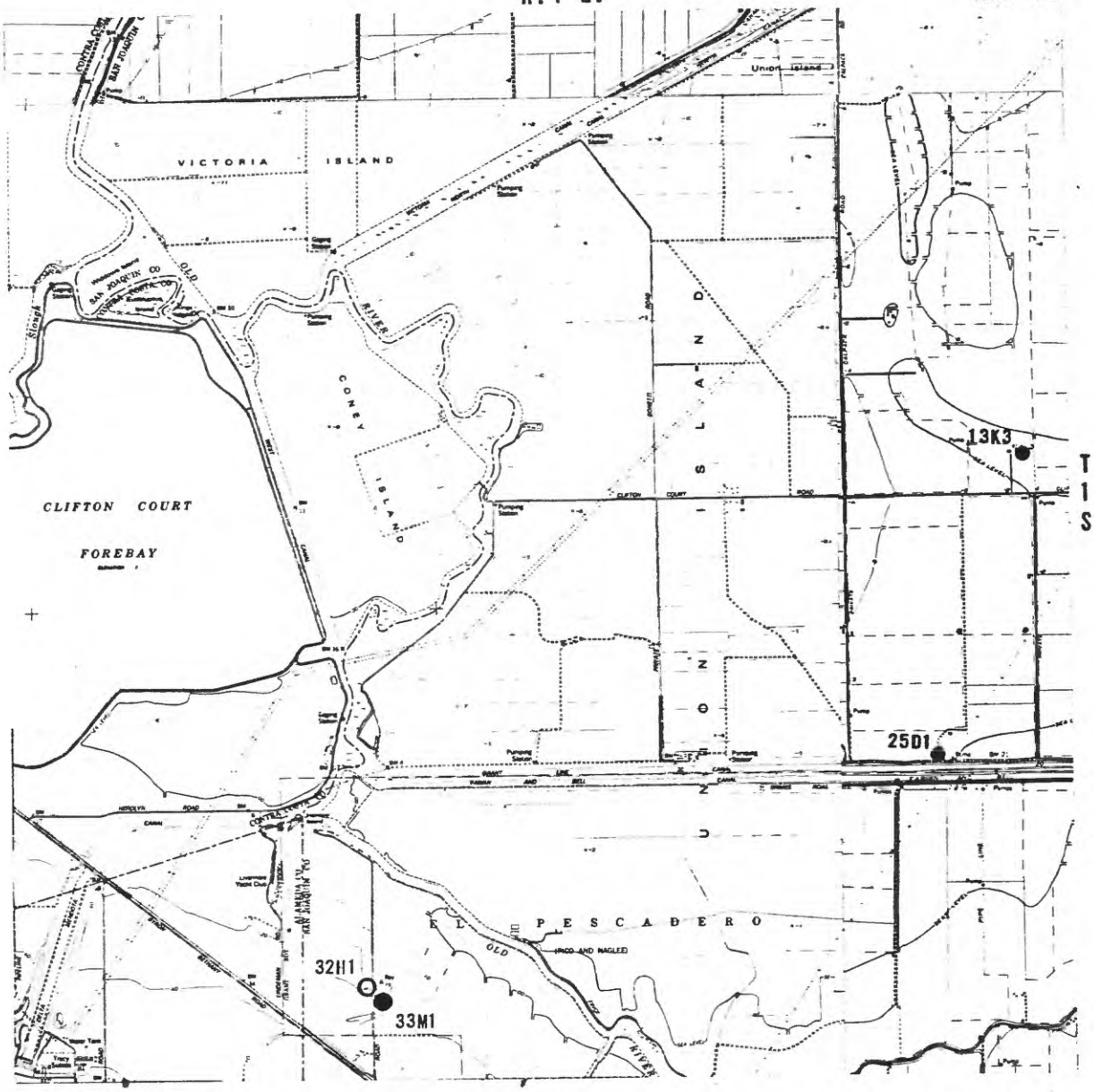
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
	4	5	6	7	8	9
	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



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EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

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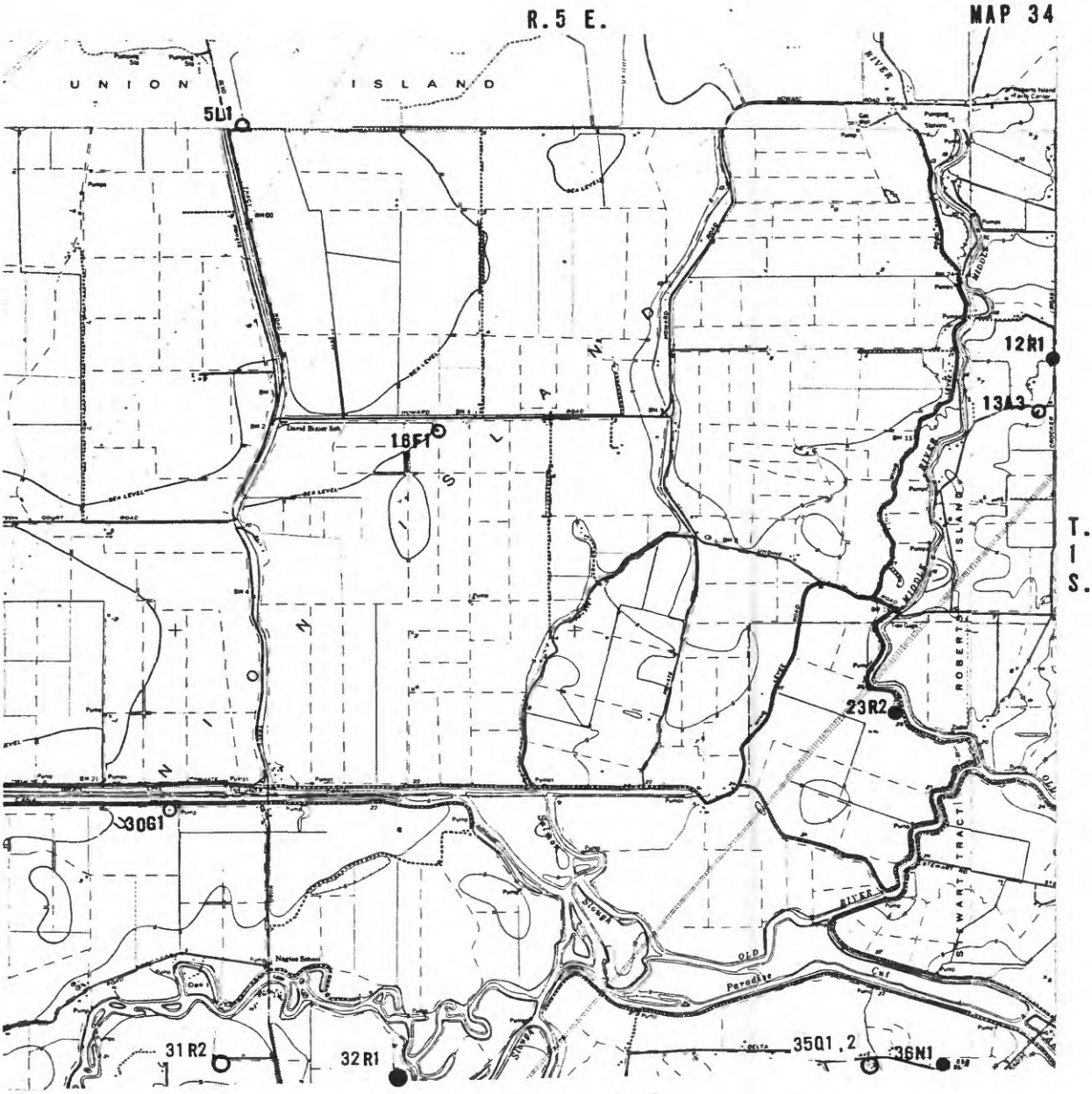
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



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EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
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24	25	26	27	28	29	30	31
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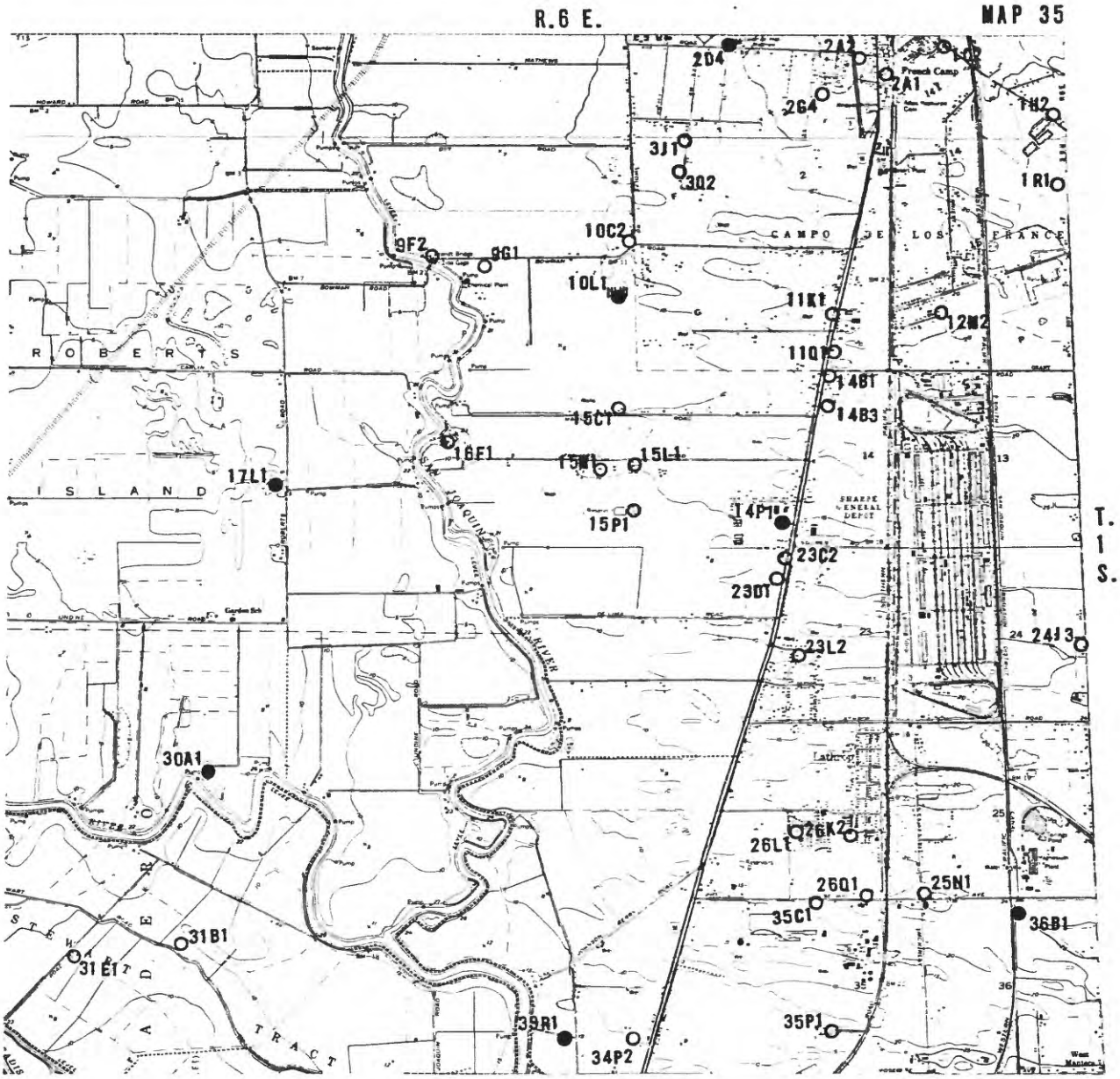
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



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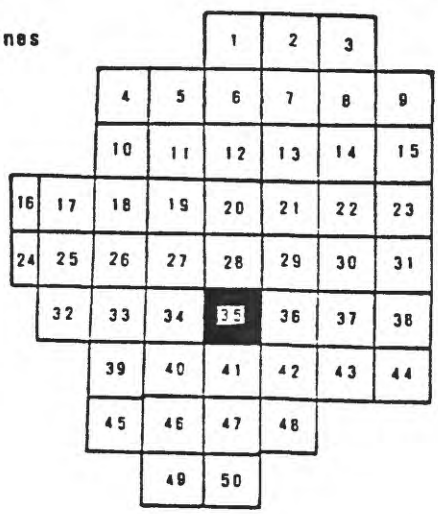
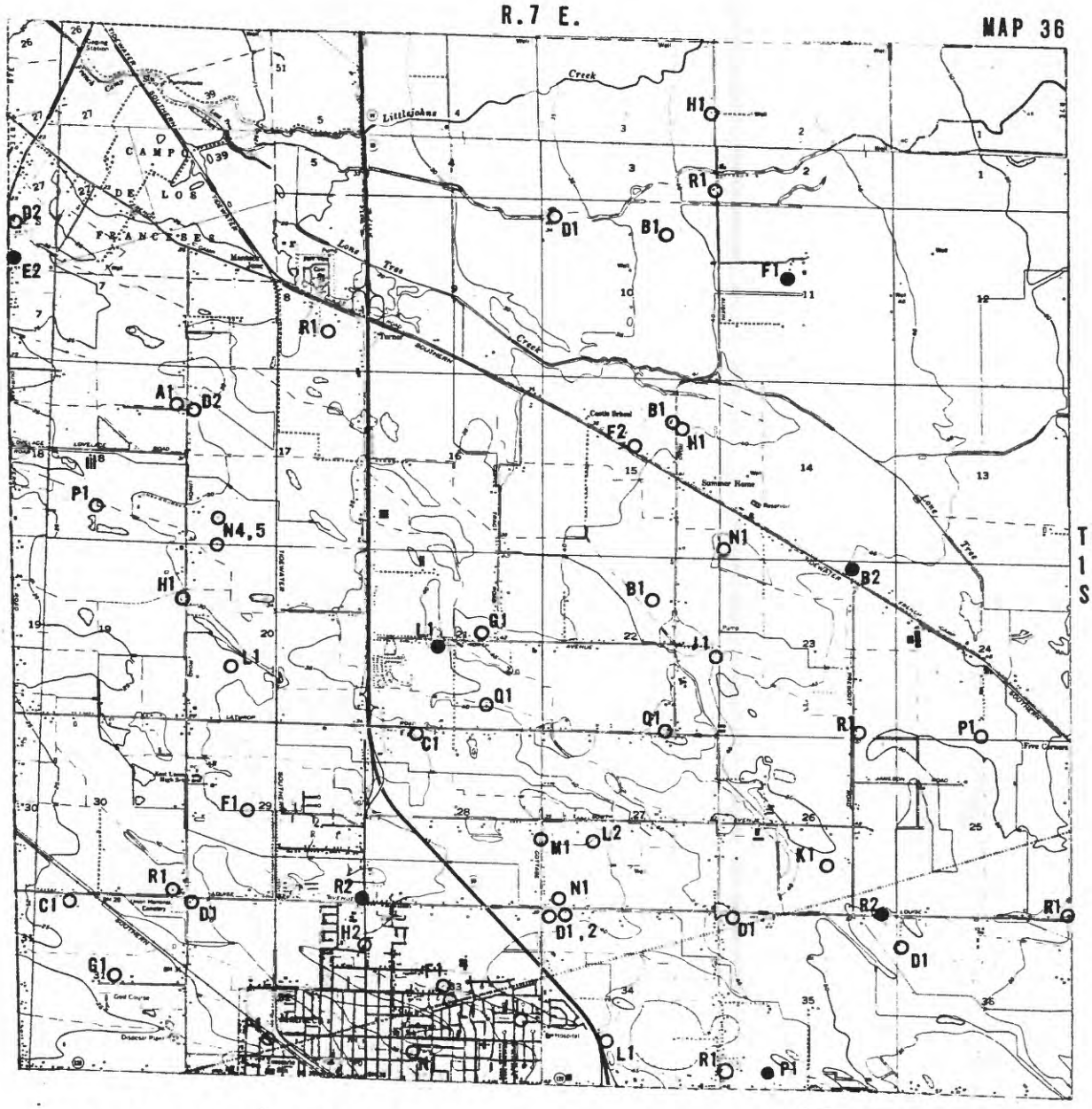
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
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24	25	26	27	28	29	30	31
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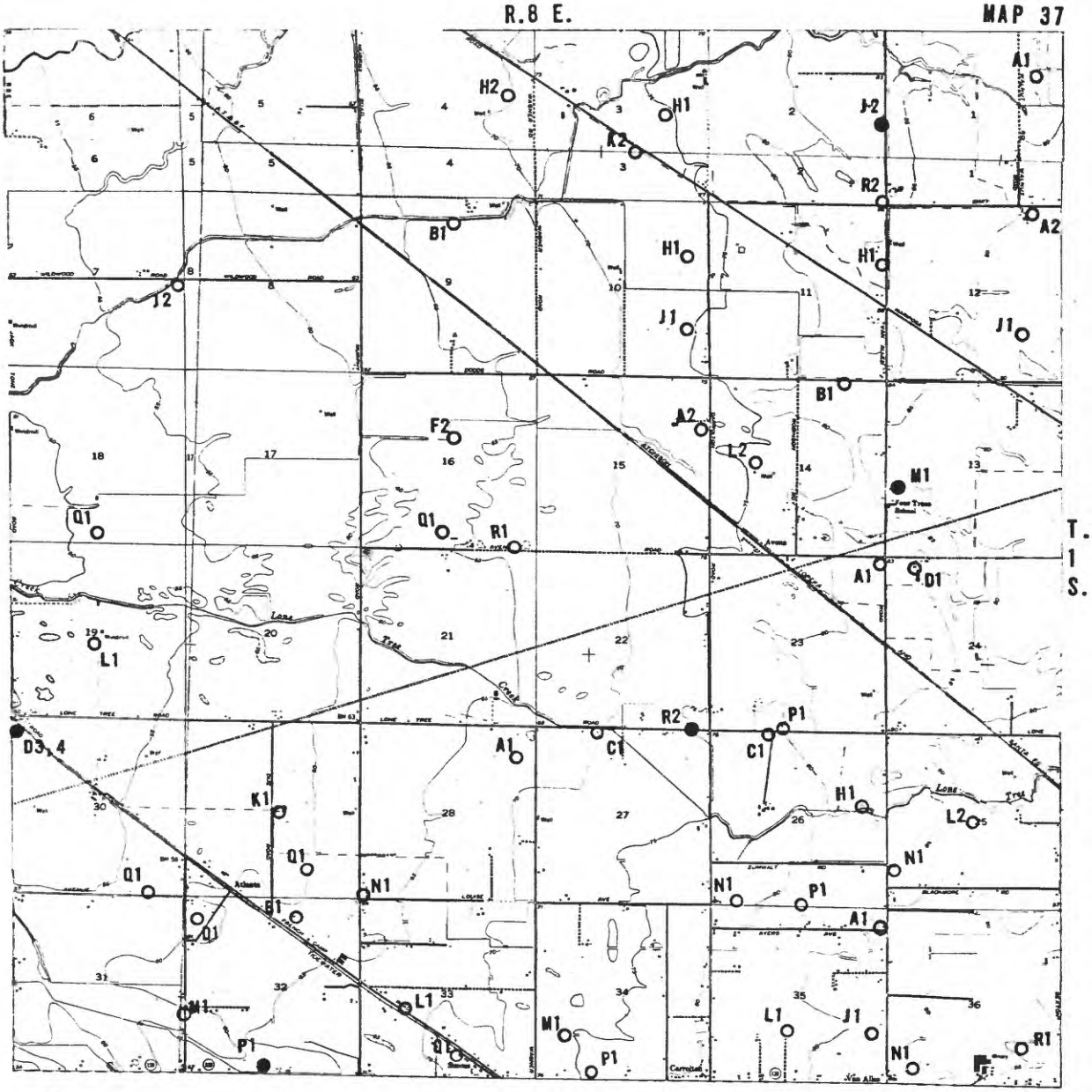
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



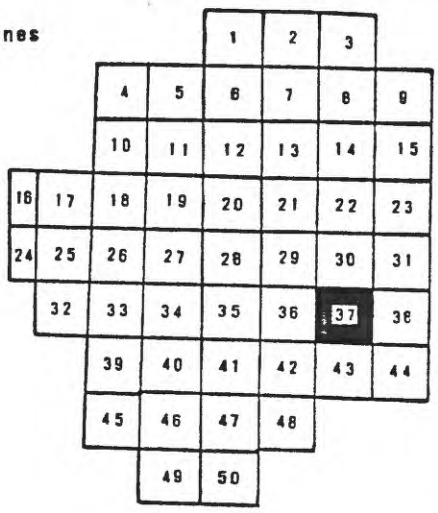
Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

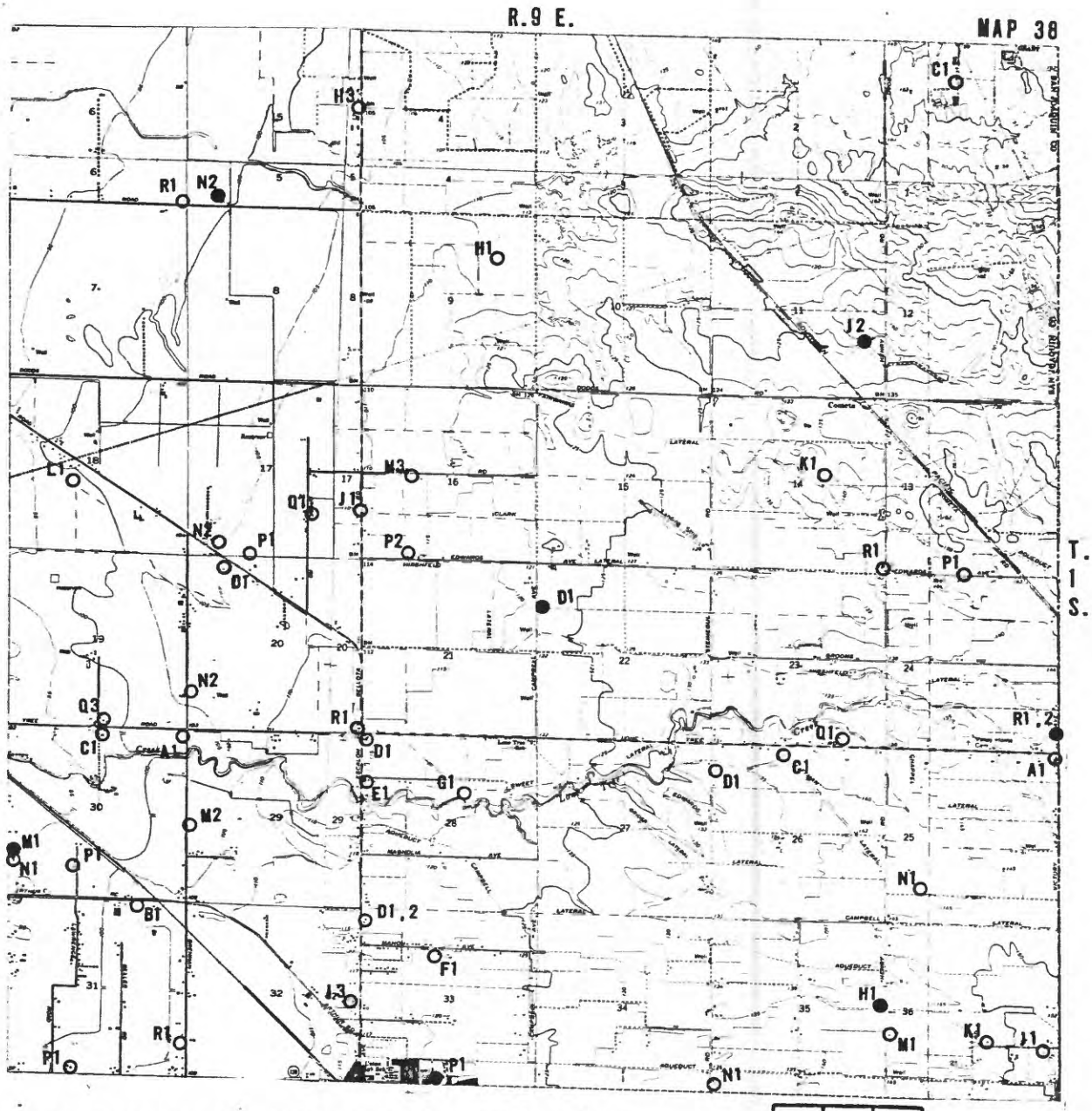
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





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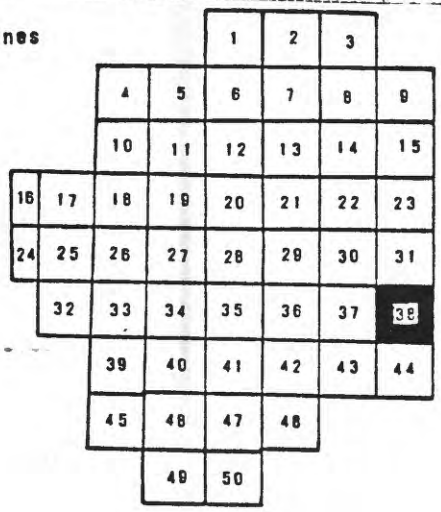
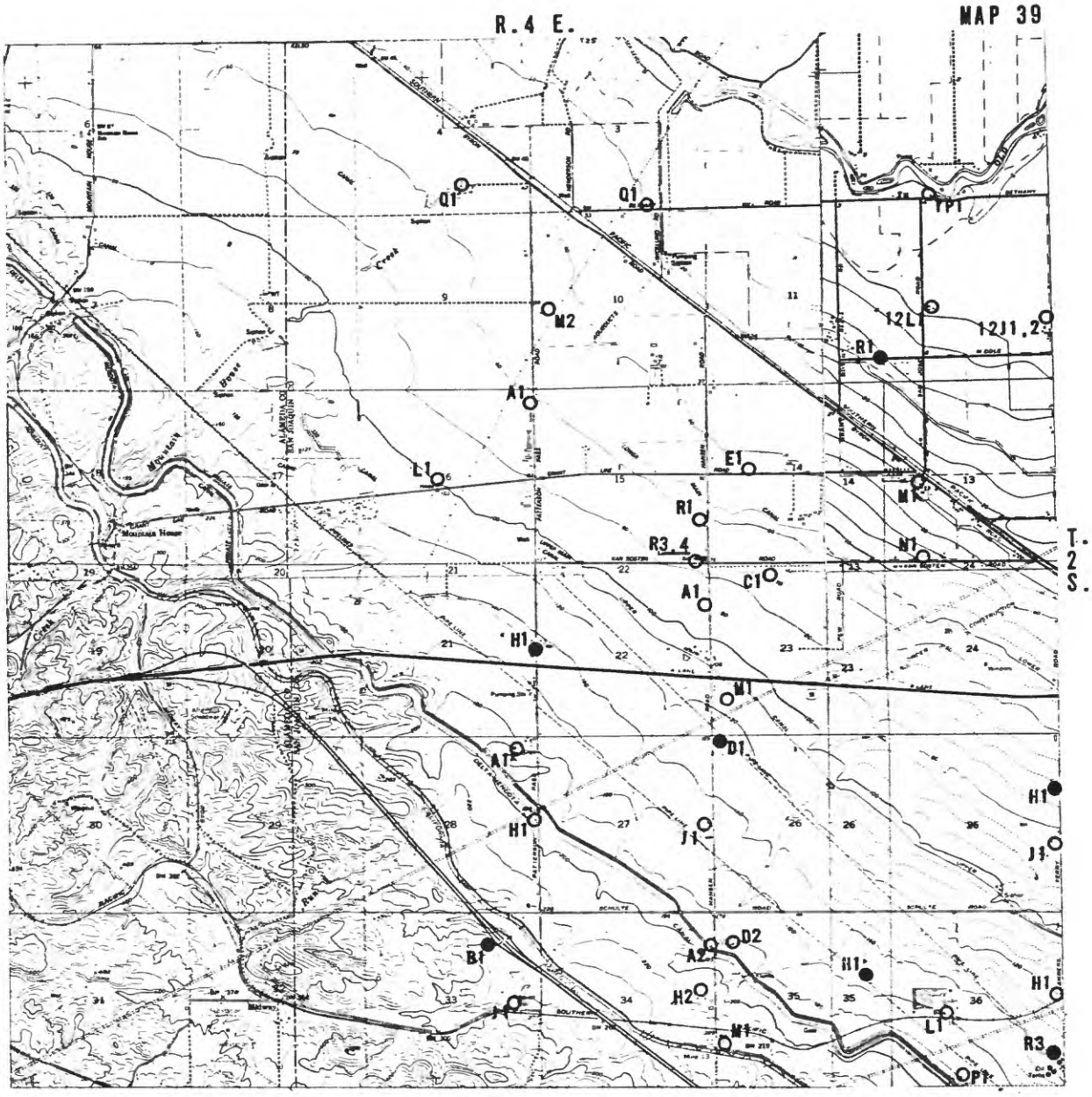
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
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16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
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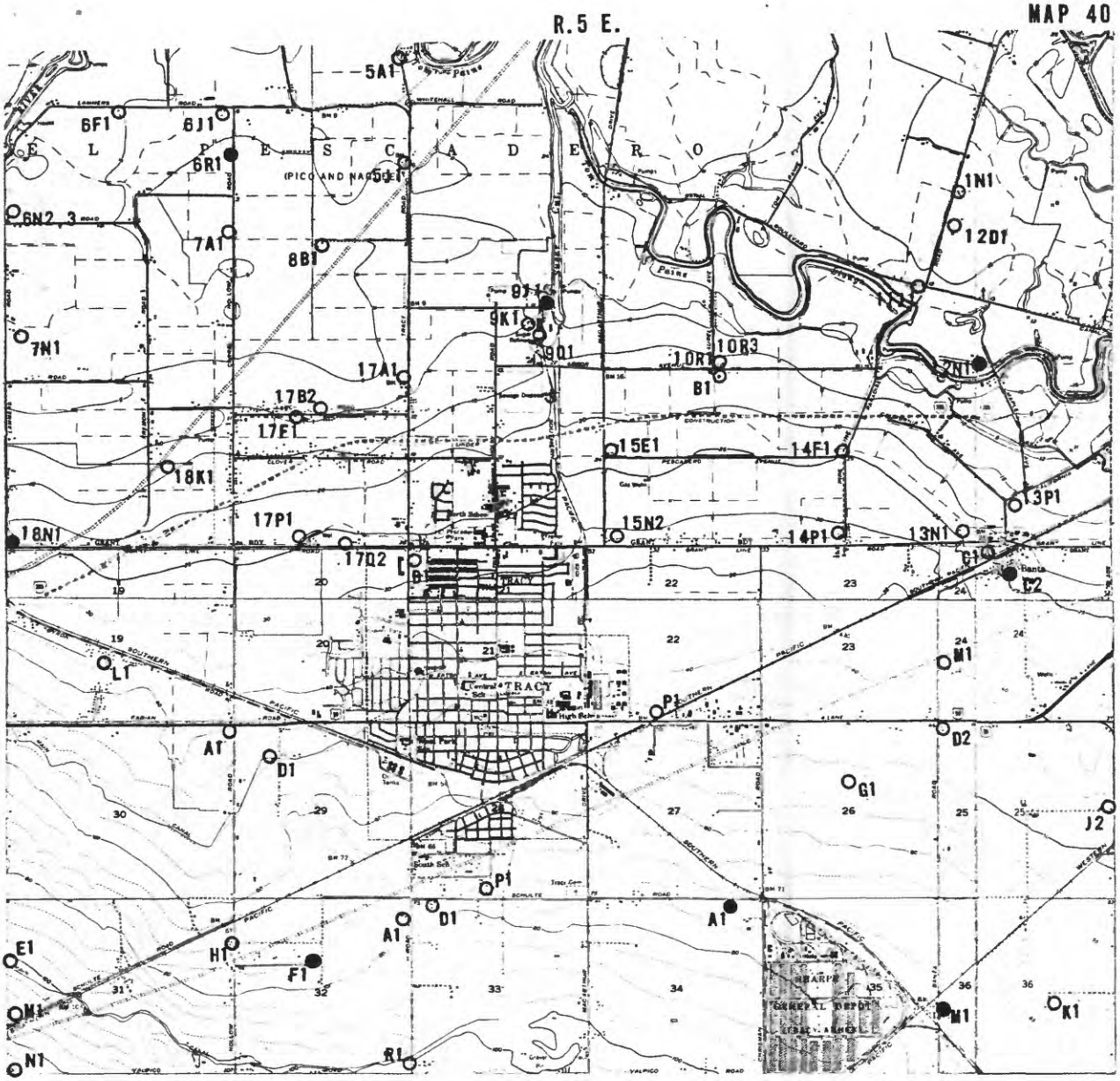
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
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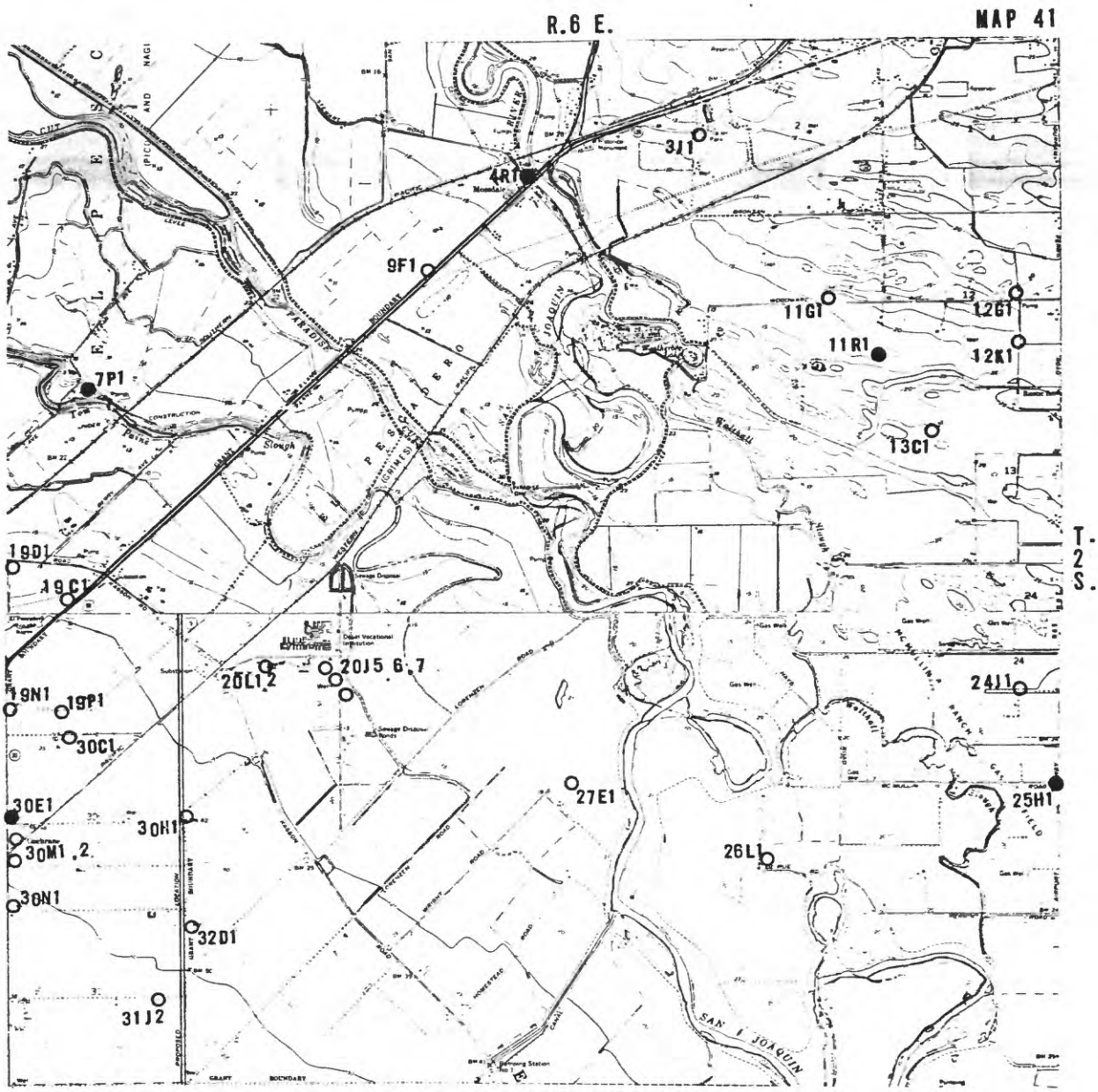
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section linas are not shown.

EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3		
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
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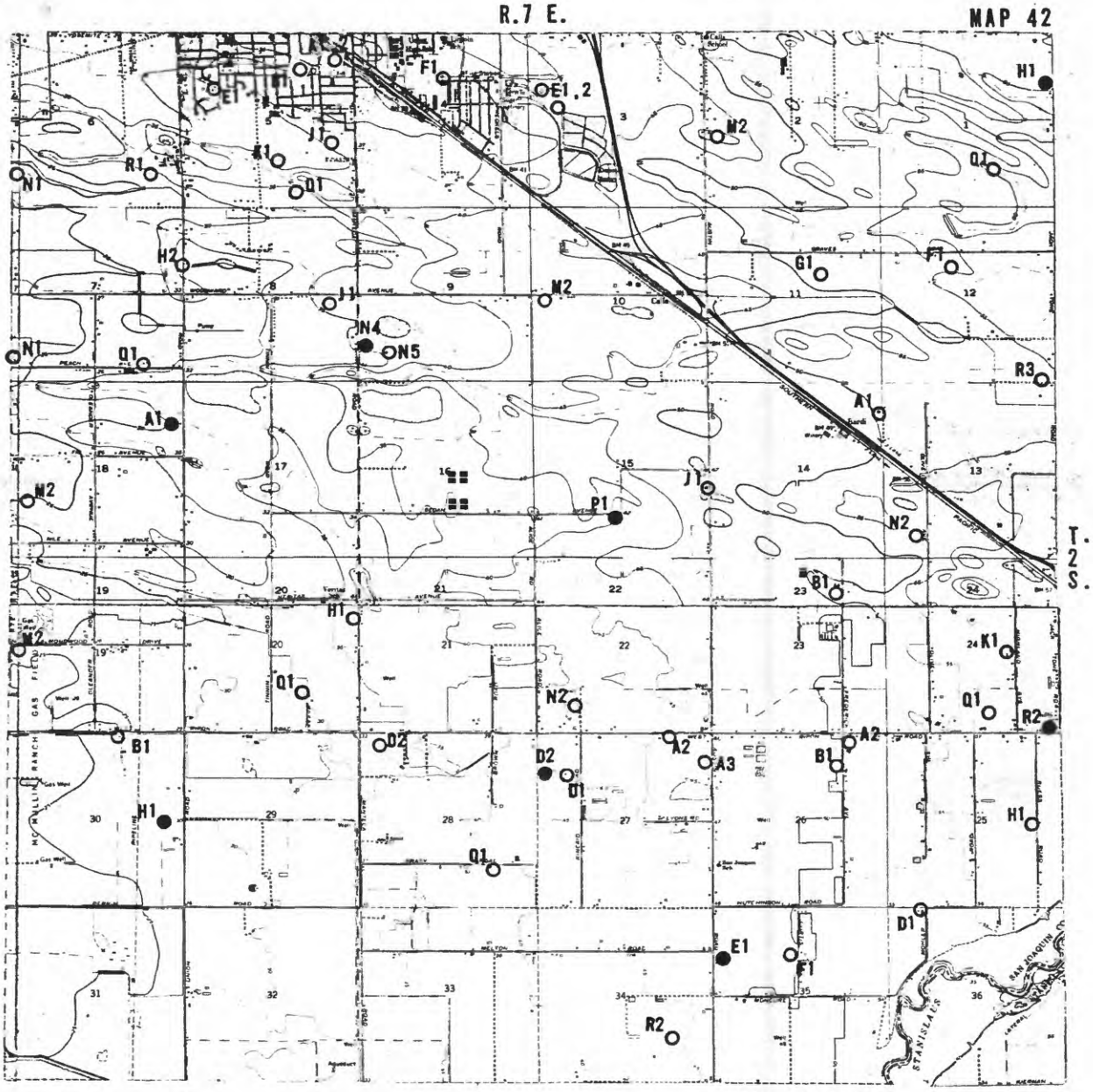
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



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EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
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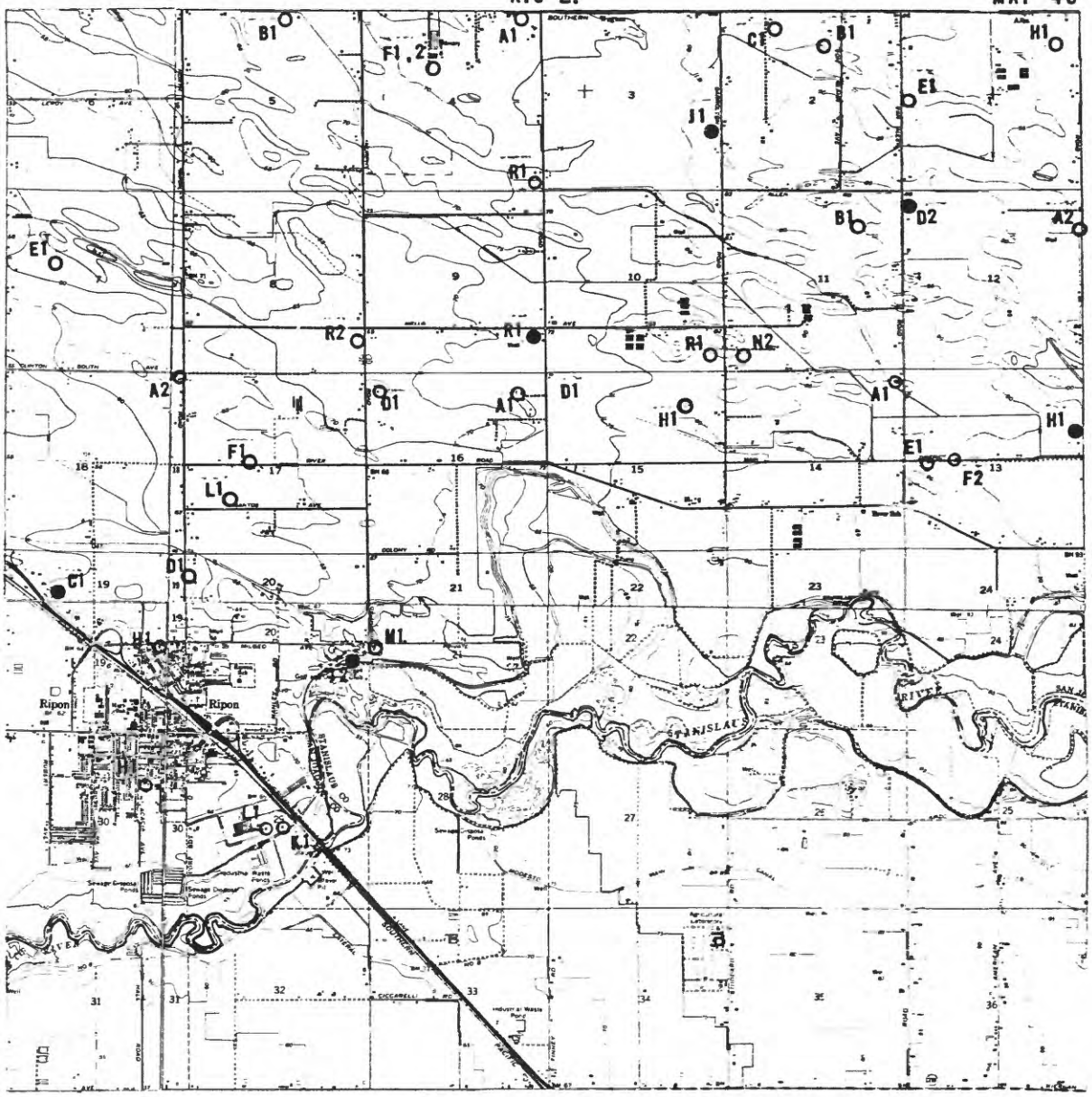
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



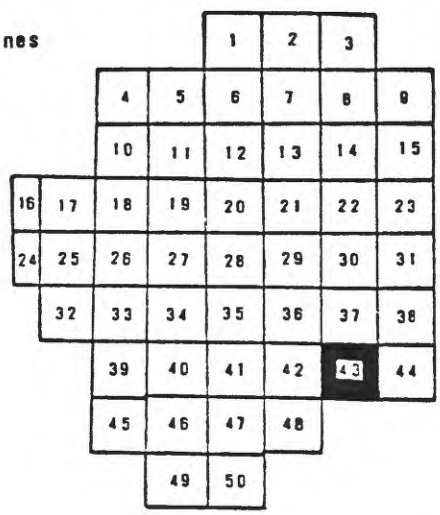
Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

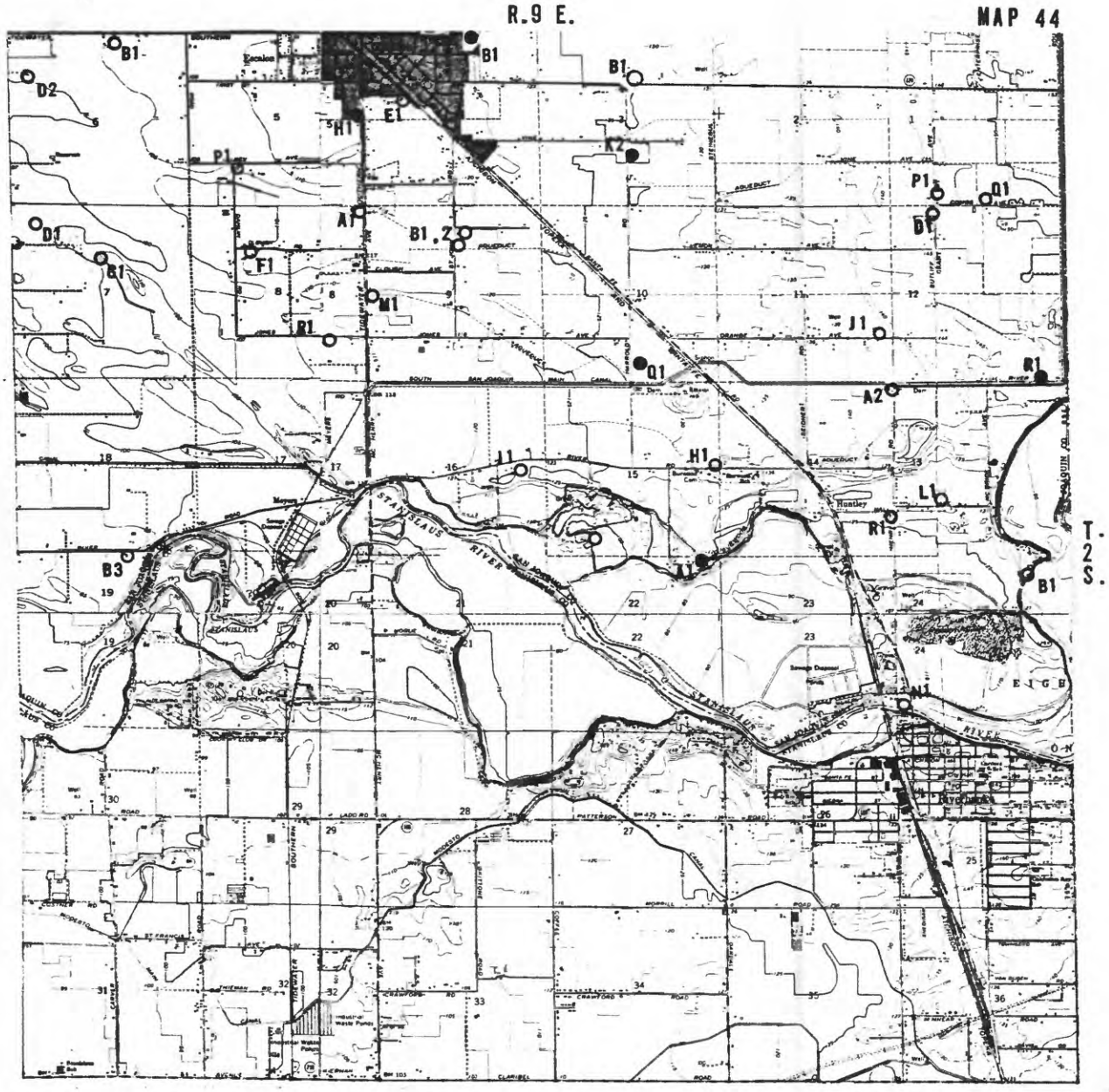
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES





Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1 ● Location of well sampled

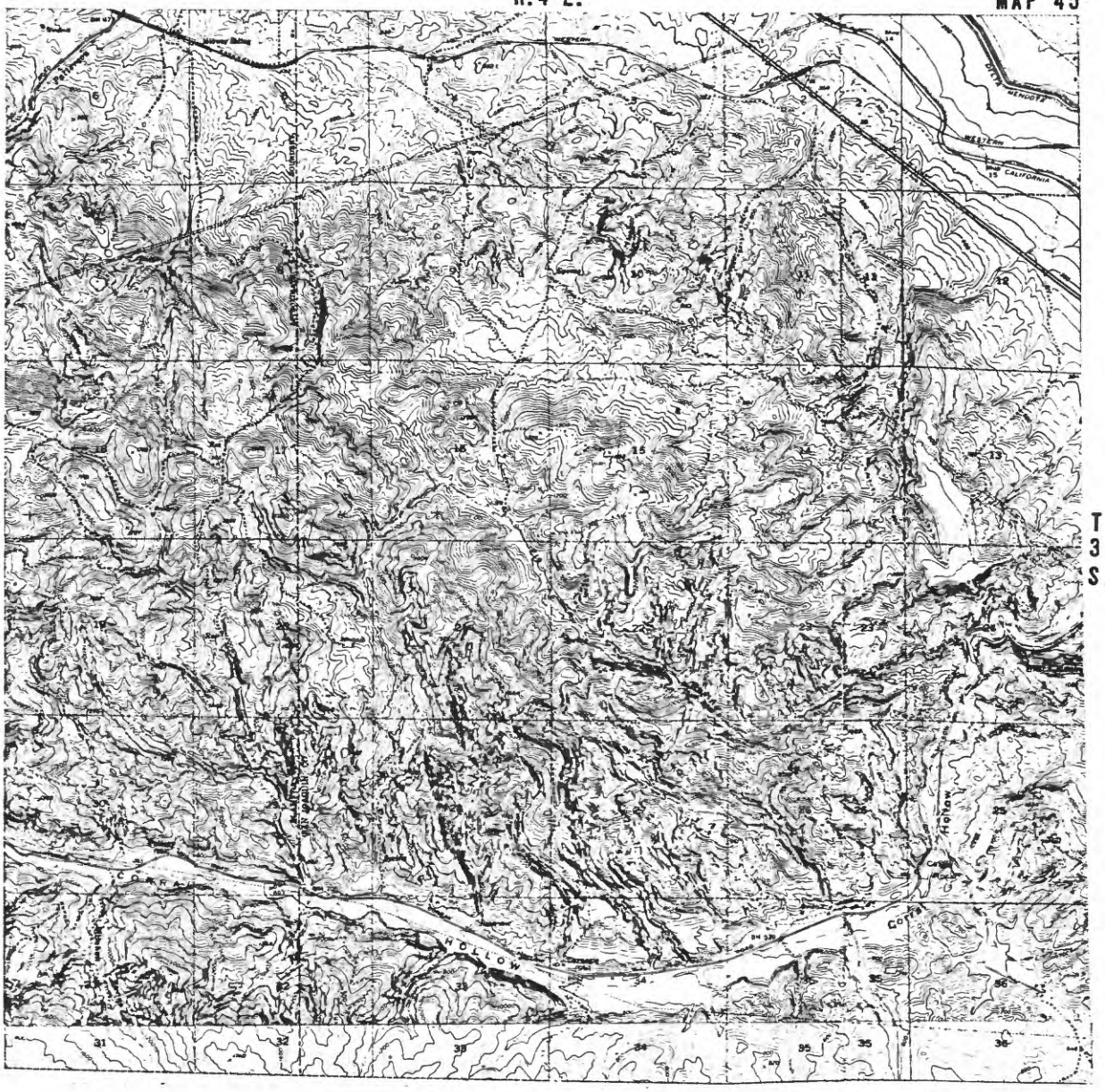
○ Location of well canvassed

0 1 2 MILES

		1	2	3		
	4	5	6	7	8	9
	10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			

R.4 E.

MAP 45



T. 3 S.

Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

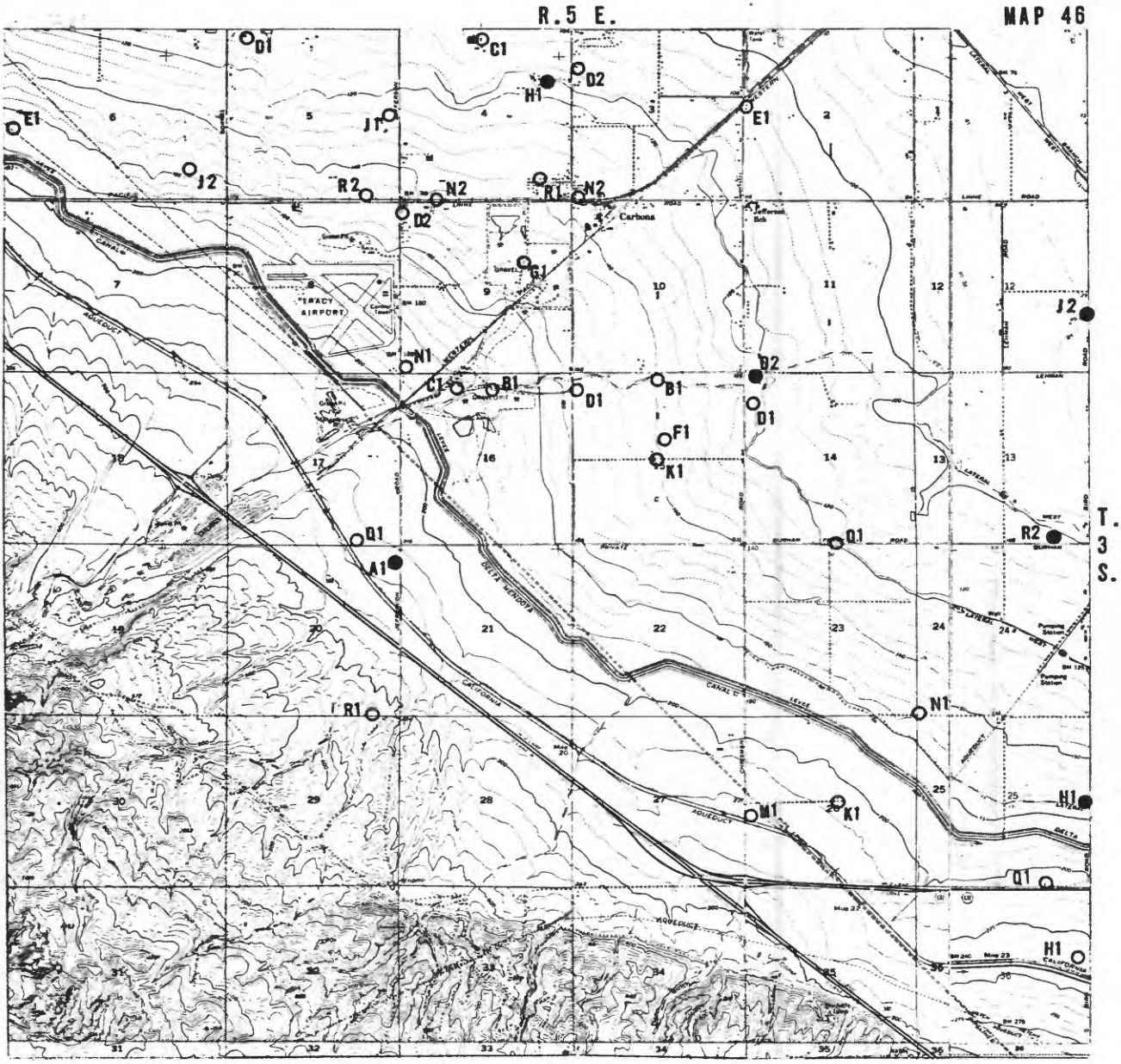
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

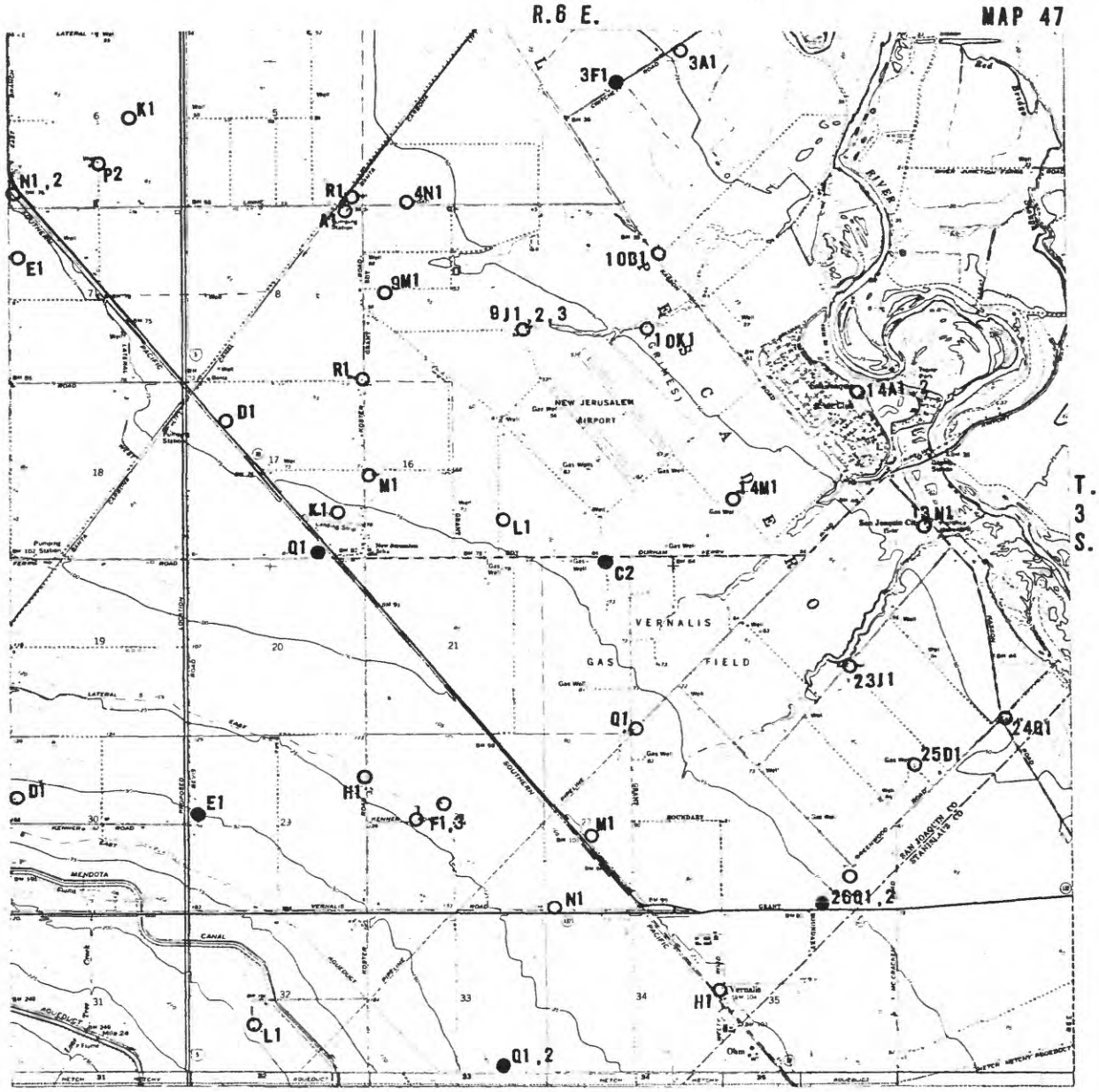
EXPLANATION

A1
● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

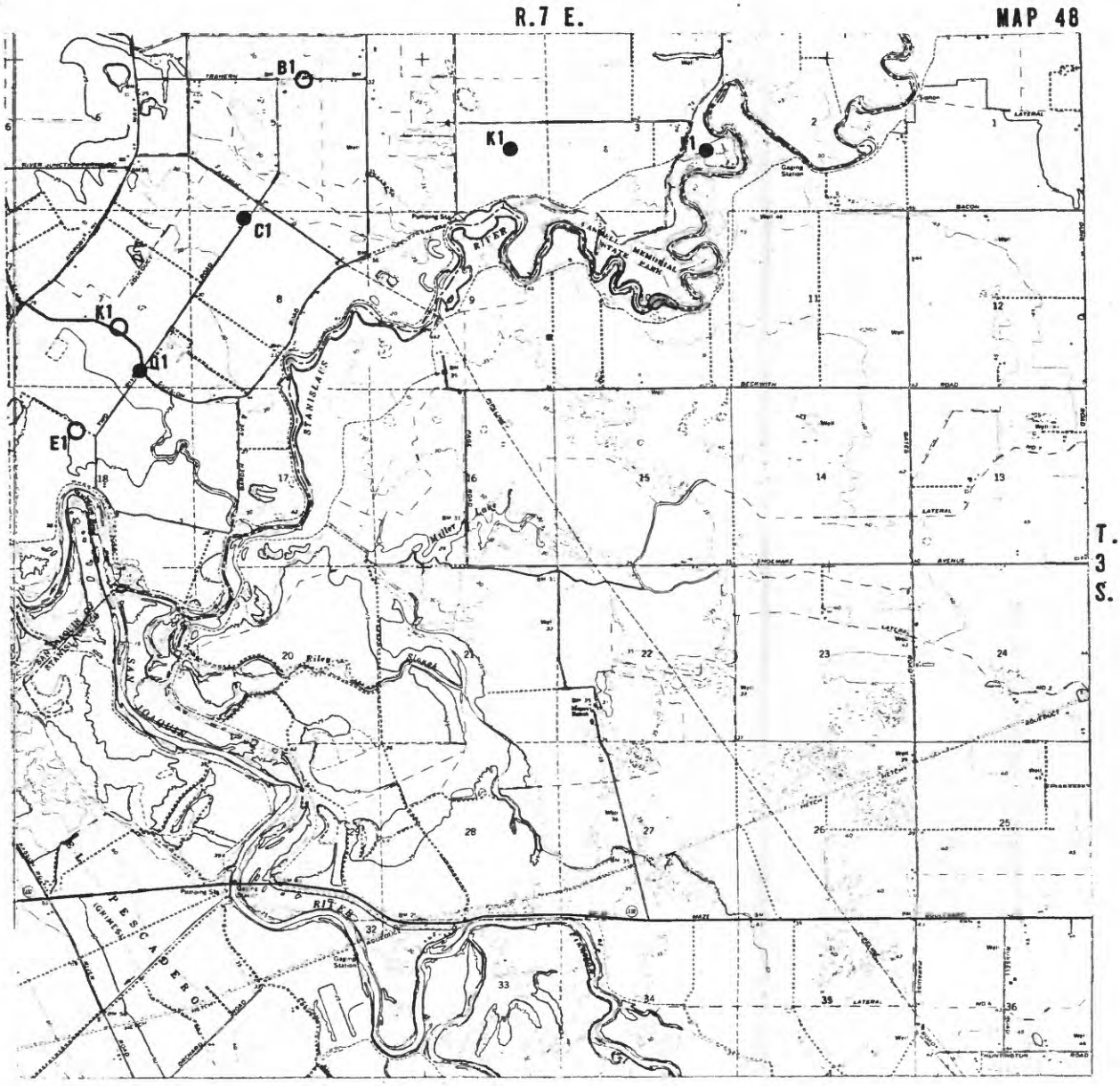
EXPLANATION

A1 ● Location of well sampled

○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1
● Location of well sampled

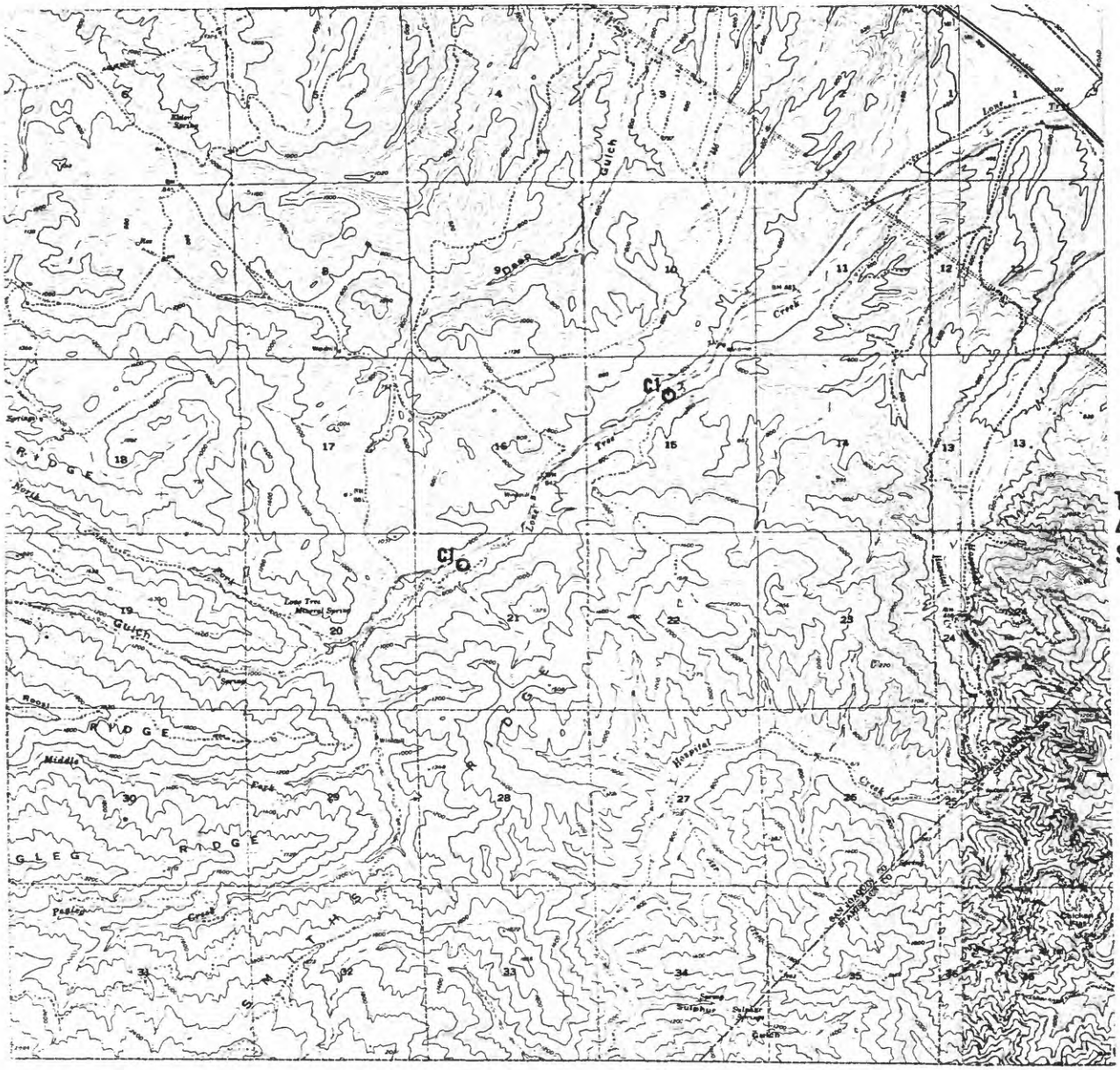
○ Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			

R.5 E.

MAP 49



T. 4 S.

Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

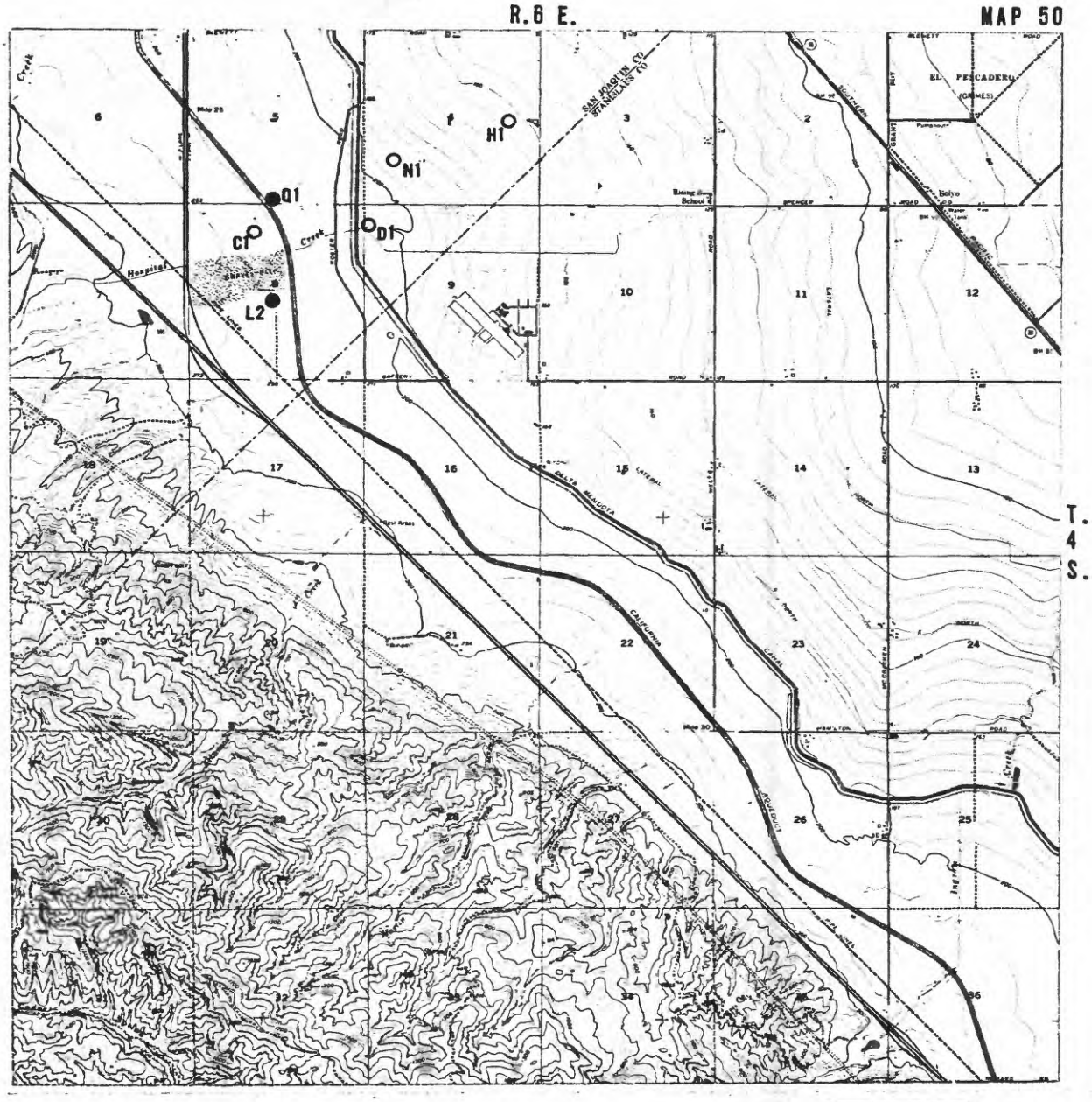
EXPLANATION

A1
● Location of well sampled

O Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			



Well numbers in land grants are based on sections lines projected by the California Department of Water Resources. Projected section lines are not shown.

EXPLANATION

A1 ● Location of well sampled

O Location of well canvassed

0 1 2 MILES

			1	2	3	
		4	5	6	7	8	9
		10	11	12	13	14	15
16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31
	32	33	34	35	36	37	38
		39	40	41	42	43	44
		45	46	47	48		
			49	50			