General

LA-5636-MS
Informal Report
C. 3

UC-11
Issued: June 1974

CIC-14 REPORT COLLECTION
REPRODUCTION
COPY
LIBRARY COPY

Water Supply at Los Alamos During 1973

by

William D. Purtymun
Joseph E. Herceg

los alamos
scientific laboratory
of the University of California
LOS ALAMOS, NEW MEXICO 87544

UNITED STATES
ATOMIC ENERGY COMMISSIO
CONTRACT W-7405-ENG. 36

12096

In the interest of prompt distribution, this LAMS report was not edited by the Technical Information staff.

Printed in the United States of America. Available from
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22151
Price: Printed Copy $4.00 Microfiche $1.45

WATER SUPPLY AT LOS ALAMOS DURING 1973

by

William D. Purtymun and Joseph E. Herceg

ABSTRACT

The Los Alamos water supply for 1973 consisted of 1566 million gal from 16 wells in three fields, with an additional 49 million gal from a gallery in Water Canyon. Water level trends in the well fields were as anticipated for current pumpage practices. Recommendations previously made in Los Alamos Scientific Laboratory reports LA-5039-MS and LA-5296-MS for a new well for the Pajarito field and a replacement well in the Guaje field are still valid. An exceedingly dry spring and summer or an outage of a high-yield well during the period of heavy pumpage could result in a shortage of supply for an indefinite period of time.

Monthly pumping and production data are presented for each of the 16 wells and the gallery in Water Canyon for the years 1971, 1972, and 1973.

LOS ALAMOS NATL. LAB. LIBS.
3 9338 00377 2604

I. INTRODUCTION

This report summarizes pumpage, as well as pump and aquifer conditions, for the 16 wells in the Los Alamos, Guaje, and Pajarito well fields which supply most of the water used for municipal and industrial purposes in Los Alamos. A gallery in Water Canyon which makes an appreciable contribution to the Los Alamos water supply is also discussed briefly. The appendix contains basic pumping and production statistics for supply wells on a monthly basis for 1971, 1972, and 1973.

Water is pumped from the wells (Fig. 1) through transmission lines, and lifted by booster pumps into reservoirs for storage and distribution. Water from the gallery flows by gravity through a microfilter station and is pumped into one of the system reservoirs for distribution.

The Utilities and Engineering (U/E) Division of the Zia Company, the USAEC support contractor at Los Alamos, maintains and operates the water-supply system and provides production and water level data to the Los Alamos Scientific Laboratory Environmental Studies Group, H-8, for interpretation and evaluation. The purpose of the joint effort is to ensure reliable and continuing historical records, provide guidance for management of water resources and facilities, and provide for long-range planning for the water-supply system. One summary report[1] and two previous annual reports[2,3] have been issued as a result of these studies.

Pump operating time and pumpage are taken from monthly operating reports. Monthly average nonpumping and pumping water levels are computed from air-line recorders

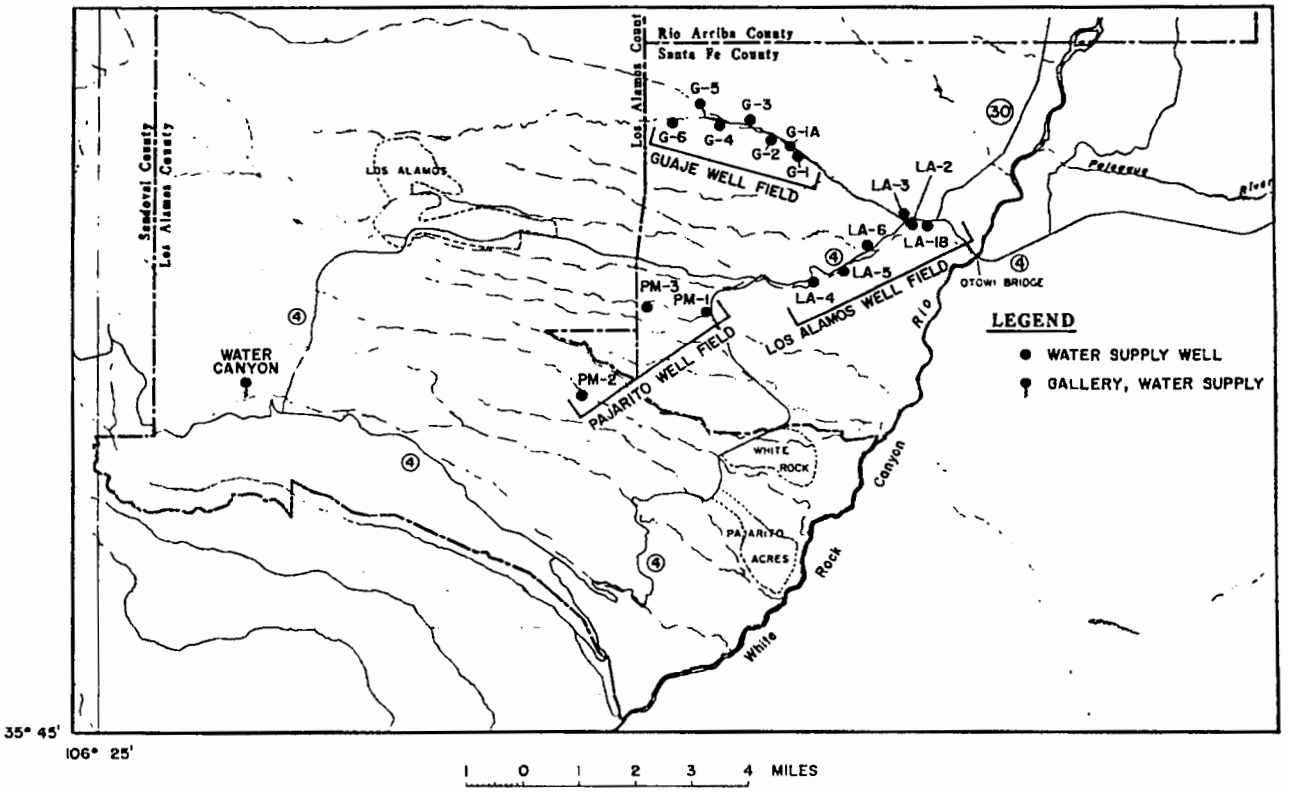

Fig. 1. Location of well fields, supply wells, and gallery water supply.

operated on each well. These data are input information for a computer program that calculates pumping rates, drawdown (difference between monthly average nonpumping and pumping water levels), specific capacity (pump rate per unit drawdown), and other statistics of interest.

Hydrographs have been prepared for one observation well and 16 supply wells. They show monthly average nonpumping and pumping water levels (a measure of well conditions), and the monthly and yearly pumpage.

II. WELL-FIELD CHARACTERISTICS

Production during 1973 was from six wells in the Los Alamos field, seven wells in the Guaje field and three wells in the Pajarito field (Fig. 1). Pumpage from the three fields increased by 56 million gal, from 1510 million gal in 1972 to 1566 million gal in 1973 (Table I). The total pumpage from the three well fields since 1947 has been 26 748 million gal. The annual production for the individual wells is shown in Table II, and monthly production data for 1971, 1972, and 1973 are given in the Appendix.

The average yearly pumping rate for the three well fields decreased 130 gpm from 8837 gpm in 1972 to 8707 gpm in 1973 (Table III). The maximum average pumping rate was 9139 gpm in 1968. The average yearly pumping rate indicates pumping conditions of wells in the three fields and should not be construed to mean that water can be delivered continuously at this rate.

TABLE I

TOTAL PUMPAGE BY FIELD BY YEAR
IN MILLIONS OF GALLONS

YEAR	LOS ALAMOS CANYON			GUAJE CANYON			PAJARITO MESA			ALL FIELDS	
	PUMP-AGE	PER-CENT	CUMU-LATIVE	PUMP-AGE	PER-CENT	CUMU-LATIVE	PUMP-AGE	PER-CENT	CUMU-LATIVE	PUMP-AGE	CUMU-LATIVE
1947	147	100.0	147	0	0.0	0	0	0.0	0	147	147
1948	264	100.0	411	0	0.0	0	0	0.0	0	264	411
1949	302	100.0	713	0	0.0	0	0	0.0	0	302	713
1950	547	99.5	1260	3	.5	3	0	0.0	0	550	1263
1951	702	91.1	1961	68	8.9	71	0	0.0	0	770	2032
1952	448	56.1	2409	350	43.9	421	0	0.0	0	798	2830
1953	444	54.4	2853	372	45.6	793	0	0.0	0	816	3646
1954	380	50.3	3233	374	49.7	1168	0	0.0	0	754	4400
1955	407	52.1	3640	375	47.9	1542	0	0.0	0	782	5182
1956	437	46.4	4077	506	53.6	2048	0	0.0	0	942	6125
1957	350	48.1	4426	378	51.9	2425	0	0.0	0	727	6852
1958	372	48.5	4798	395	51.5	2821	0	0.0	0	767	7619
1959	391	45.0	5189	478	55.0	3298	0	0.0	0	869	8487
1960	530	49.8	5719	533	50.2	3831	0	0.0	0	1062	9550
1961	546	46.7	6265	624	53.3	4455	0	0.0	0	1170	10720
1962	577	49.1	6842	597	50.9	5052	0	0.0	0	1174	11894
1963	539	45.2	7381	654	54.8	5706	0	0.0	0	1193	13087
1964	627	48.5	8008	665	51.5	6372	0	0.0	0	1292	14380
1965	447	40.0	8455	571	51.1	6943	99	8.9	99	1117	15497
1966	450	37.8	8905	613	51.5	7556	127	10.7	226	1191	16687
1967	373	28.3	9279	464	35.2	8020	481	36.5	707	1319	18006
1968	345	24.6	9623	474	33.8	8494	584	41.6	1291	1402	19408
1969	331	24.8	9954	435	32.6	8929	569	42.6	1860	1335	20743
1970	360	26.1	10314	423	30.7	9352	595	43.2	2454	1377	22120
1971	412	26.5	10726	484	31.1	9835	657	42.3	3111	1553	23673
1972	380	25.2	11107	467	30.9	10302	662	43.9	3774	1510	25183
1973	406	25.9	11512	475	30.3	10778	685	43.7	4459	1566	26748

The heaviest demands for water in 1973 occurred in June, July, and August while January, February, March, November, and December were months of least pumpage. Water for irrigation is responsible for the increased demands for water during the late spring and summer. As a result, the highest water levels in the well fields occur in the winter and early spring when pumpage is the least, and lowest levels occur during the summer when pumpage is the greatest.

Tables IV and V present percents of total pumpage and of field pumpage, respectively, for all wells by year.

A. Los Alamos Well Field

Pumpage from the Los Alamos well field increased 26 million gal from 380 million gal in 1972 to 406 million gal in 1973. The six wells produced 25.9% of the total pumpage.

Well LA-1 ceased operations as a supply well in 1956 due to a sand problem and is now used as an observation well to monitor water level trends in the lower part of the Los Alamos well field. The well was replaced by well LA-1B which is located about 150 ft northeast of LA-1. Water-level trends in well LA-1 (Fig. 2) therefore mainly reflect pumpage from nearby LA-1B.

Pumpage from well LA-1B was 12 million gal greater and water levels were slightly lower in 1973 than in 1972 (Fig. 3).

Pumpage from well LA-2 was 8 million gal greater and water levels were slightly lower in 1973 than in 1972 (Fig. 4).

TABLE II

TOTAL PUMPAGE BY WELL BY YEAR IN MILLIONS OF GALLONS

YEAR	LOS ALAMOS CANYON WELL FIELD							GUAJE CANYON WELL FIELD							PAJARITO MESA WELL FIELD			TOTAL
	LA-1	LA-1B	LA-2	LA-3	LA-4	LA-5	LA-6	G-1	G-1A	G-2	G-3	G-4	G-5	G-6	PM-1	PM-2	PM-3	
1947	54	0	28	65	0	0	0	0	0	0	0	0	0	0	0	0	0	147
1948	35	0	59	83	43	40	5	0	0	0	0	0	0	0	0	0	0	264
1949	27	0	42	42	37	58	96	0	0	0	0	0	0	0	0	0	0	302
1950	11	0	16	58	165	130	168	3	0	0	0	0	0	0	0	0	0	550
1951	15	0	58	67	174	187	201	38	0	4	7	13	7	0	0	0	0	770
1952	3	0	46	59	120	110	110	75	0	78	65	57	74	0	0	0	0	798
1953	0	0	47	70	109	104	114	97	0	106	76	55	38	0	0	0	0	816
1954	0	0	57	57	78	80	107	78	5	86	66	59	81	0	0	0	0	754
1955	10	0	49	49	94	97	108	70	53	79	69	23	80	0	0	0	0	782
1956	0	0	44	42	120	105	126	83	108	96	88	34	97	0	0	0	0	942
1957	0	0	30	26	105	86	102	56	87	76	70	24	64	0	0	0	0	727
1958	0	0	31	34	110	90	107	68	93	80	69	36	49	0	0	0	0	767
1959	0	0	41	35	114	93	108	82	103	85	75	32	102	0	0	0	0	869
1960	0	36	52	38	146	119	139	96	123	97	82	37	98	0	0	0	0	1062
1961	0	125	44	35	130	100	113	112	147	105	80	45	134	0	0	0	0	1170
1962	0	129	36	45	129	108	129	94	136	100	84	42	142	0	0	0	0	1174
1963	0	117	41	42	130	105	103	115	150	106	87	46	151	0	0	0	0	1193
1964	0	130	34	50	155	119	138	114	129	105	79	43	150	45	0	0	0	1292
1965	0	98	40	43	111	51	104	91	117	83	66	24	117	75	99	0	0	1117
1966	0	84	21	46	116	79	104	103	133	95	74	34	83	92	108	19	0	1191
1967	0	85	5	47	77	74	85	70	91	68	53	45	80	58	111	370	0	1319
1968	0	74	11	43	82	63	72	79	103	66	56	31	81	56	68	328	187	1402
1969	0	76	4	40	62	68	82	68	91	69	51	17	83	56	34	280	255	1335
1970	0	80	7	44	83	66	79	65	92	63	55	8	89	51	66	301	228	1377
1971	0	89	32	45	89	74	82	68	112	87	64	21	88	43	101	340	216	1553
1972	0	75	39	40	83	64	79	66	94	73	51	33	92	57	85	385	192	1510
1973	0	87	47	20	92	68	91	67	88	72	47	37	97	65	47	381	258	1566

TABLE III

AVERAGE YEARLY PUMPING RATE BY WELL BY YEAR IN GALLONS PER MINUTE

YEAR	LOS ALAMOS CANYON WELL FIELD							GUAJE CANYON WELL FIELD							PAJARITO MESA WELL FIELD			TOTAL
	LA-1	LA-1B	LA-2	LA-3	LA-4	LA-5	LA-6	G-1	G-1A	G-2	G-3	G-4	G-5	G-6	PM-1	PM-2	PM-3	
1947	260	0	297	373	0	0	0	0	0	0	0	0	0	0	0	0	0	930
1948	193	0	270	377	454	575	698	0	0	0	0	0	0	0	0	0	0	2567
1949	327	0	421	462	665	553	652	0	0	0	0	0	0	0	0	0	0	3079
1950	311	0	424	345	632	535	623	0	0	0	0	0	0	0	0	0	0	2870
1951	200	0	297	314	590	520	571	539	0	533	634	0	0	0	0	0	0	4197
1952	201	0	380	388	581	533	580	508	0	549	458	395	477	0	0	0	0	5051
1953	0	0	357	374	599	528	597	495	0	541	399	340	436	0	0	0	0	4666
1954	0	0	364	368	611	524	617	496	710	536	412	434	515	0	0	0	0	5587
1955	235	0	370	369	595	513	618	488	577	528	489	323	530	0	0	0	0	5635
1956	0	0	408	380	589	501	610	469	574	513	465	314	530	0	0	0	0	5353
1957	0	0	463	402	618	500	602	444	587	516	465	304	448	0	0	0	0	5350
1958	0	0	445	348	619	498	603	461	578	493	452	304	537	0	0	0	0	5337
1959	0	0	425	320	613	505	583	465	577	480	424	297	581	0	0	0	0	5263
1960	0	644	397	294	594	485	566	449	562	455	383	251	578	0	0	0	0	5658
1961	0	558	344	298	586	473	571	442	571	441	369	269	572	0	0	0	0	5495
1962	0	547	326	321	584	481	555	454	571	408	344	254	565	0	0	0	0	5411
1963	0	536	340	333	585	470	581	424	552	386	317	220	556	0	0	0	0	5298
1964	0	520	296	326	574	467	543	434	560	386	292	201	553	392	0	0	0	5545
1965	0	543	347	369	597	484	550	428	554	389	312	189	554	390	600	0	0	6307
1966	0	540	333	344	588	469	546	420	561	395	308	252	543	391	583	1429	0	7701
1967	0	562	346	347	605	485	567	446	559	410	320	277	554	393	645	1422	0	7939
1968	0	565	375	335	598	472	565	439	557	405	305	251	539	361	615	1415	1343	9139
1969	0	562	407	322	608	475	566	429	561	427	317	222	524	344	602	1412	1310	9088
1970	0	561	354	319	596	468	564	398	556	430	337	212	535	307	619	1420	1307	8983
1971	0	564	296	296	589	466	556	389	563	426	321	213	554	243	617	1402	1300	8796
1972	0	566	299	300	593	467	569	384	544	424	299	196	531	378	586	1393	1309	8837
1973	0	553	296	346	589	460	573	375	531	429	278	206	541	364	460	1388	1320	8707

TABLE IV

PERCENT OF TOTAL PUMPAGE BY WELL BY YEAR

YEAR	LOS ALAMOS CANYON WELL FIELD							GUAJE CANYON WELL FIELD							PAJARITO MESA WELL FIELD		
	LA-1	LA-1B	LA-2	LA-3	LA-4	LA-5	LA-6	G-1	G-1A	G-2	G-3	G-4	G-5	G-6	PM-1	PM-2	PM-3
1947	36.9	0.0	18.8	44.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1948	13.1	0.0	22.4	31.2	16.2	15.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1949	8.9	0.0	13.8	13.8	12.4	19.4	31.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1950	1.9	0.0	2.8	10.5	30.0	23.7	30.6	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1951	1.9	0.0	7.5	8.7	22.6	24.3	26.2	4.9	0.0	.5	.9	1.6	.9	0.0	0.0	0.0	0.0
1952	.4	0.0	5.8	7.3	15.0	13.7	13.8	9.5	0.0	9.8	8.2	7.1	9.2	0.0	0.0	0.0	0.0
1953	0.0	0.0	5.8	8.5	13.4	12.7	14.0	11.9	0.0	12.9	9.4	6.8	4.6	0.0	0.0	0.0	0.0
1954	0.0	0.0	7.5	7.6	10.4	10.6	14.2	10.3	.6	11.4	8.8	7.8	10.7	0.0	0.0	0.0	0.0
1955	1.2	0.0	6.3	6.2	12.1	12.4	13.8	9.0	6.8	10.1	8.9	2.9	10.3	0.0	0.0	0.0	0.0
1956	0.0	0.0	4.7	4.5	12.8	11.1	13.3	8.8	11.4	10.2	9.3	3.6	10.3	0.0	0.0	0.0	0.0
1957	0.0	0.0	4.1	3.6	14.5	11.9	14.1	7.7	12.0	10.5	9.7	3.3	8.9	0.0	0.0	0.0	0.0
1958	0.0	0.0	4.1	4.4	14.4	11.7	13.9	8.9	12.1	10.4	9.1	4.7	6.4	0.0	0.0	0.0	0.0
1959	0.0	0.0	4.7	4.0	13.1	10.8	12.5	9.5	11.8	9.7	8.6	3.6	11.7	0.0	0.0	0.0	0.0
1960	0.0	3.4	4.9	3.6	13.7	11.2	13.0	9.0	11.6	9.1	7.8	3.5	9.2	0.0	0.0	0.0	0.0
1961	0.0	10.7	3.8	3.0	11.1	8.6	9.6	9.6	12.6	9.0	6.8	3.8	11.5	0.0	0.0	0.0	0.0
1962	0.0	11.0	3.0	3.9	11.0	9.2	11.0	8.0	11.6	8.5	7.1	3.6	12.1	0.0	0.0	0.0	0.0
1963	0.0	9.8	3.4	3.6	10.9	8.8	8.6	9.6	12.5	8.9	7.3	3.9	12.7	0.0	0.0	0.0	0.0
1964	0.0	10.1	2.6	3.9	12.0	9.2	10.7	8.8	10.0	8.1	6.1	3.3	11.6	3.5	0.0	0.0	0.0
1965	0.0	8.8	3.6	3.9	10.0	4.5	9.3	8.1	10.4	7.4	5.9	2.1	10.5	6.7	8.9	0.0	0.0
1966	0.0	7.1	1.8	3.9	9.7	6.7	8.7	8.6	11.2	8.0	6.2	2.8	7.0	7.7	9.1	1.6	0.0
1967	0.0	6.4	.4	3.6	5.8	5.6	6.5	5.3	6.9	5.1	4.0	3.4	6.1	4.4	8.4	28.1	0.0
1968	0.0	5.3	.8	3.0	5.8	4.5	5.1	5.6	7.4	4.7	4.0	2.2	5.8	4.0	4.9	23.4	13.4
1969	0.0	5.7	.3	3.0	4.6	5.1	6.1	5.1	6.8	5.1	3.8	1.3	6.2	4.2	2.6	21.0	19.1
1970	0.0	5.8	.5	3.2	6.1	4.8	5.7	4.7	6.7	4.6	4.0	.6	6.5	3.7	4.8	21.8	16.5
1971	0.0	5.7	2.0	2.9	5.7	4.8	5.3	4.4	7.2	5.6	4.1	1.4	5.7	2.8	6.5	21.9	13.9
1972	0.0	5.0	2.6	2.6	5.5	4.3	5.2	4.4	6.2	4.9	3.4	2.2	6.1	3.8	5.6	25.5	12.7
1973	0.0	5.6	3.0	1.3	5.9	4.4	5.8	4.3	5.6	4.6	3.0	2.4	6.2	4.2	3.0	24.3	16.5

TABLE V

PERCENT OF FIELD PUMPAGE BY WELL BY YEAR

YEAR	LOS ALAMOS CANYON WELL FIELD							GUAJE CANYON WELL FIELD							PAJARITO MESA WELL FIELD		
	LA-1	LA-1B	LA-2	LA-3	LA-4	LA-5	LA-6	G-1	G-1A	G-2	G-3	G-4	G-5	G-6	PM-1	PM-2	PM-3
1947	36.9	0.0	18.8	44.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1948	13.1	0.0	22.4	31.2	16.2	15.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1949	8.9	0.0	13.8	13.8	12.4	19.4	31.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1950	1.9	0.0	2.9	10.6	30.2	23.8	30.7	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1951	2.1	0.0	8.2	9.5	24.7	26.7	28.7	55.3	0.0	5.8	10.7	18.4	9.8	0.0	0.0	0.0	0.0
1952	.8	0.0	10.3	13.1	26.7	24.5	24.6	21.6	0.0	22.4	18.7	16.3	21.1	0.0	0.0	0.0	0.0
1953	0.0	0.0	10.6	15.7	24.6	23.4	25.7	26.1	0.0	28.4	20.5	14.8	10.1	0.0	0.0	0.0	0.0
1954	0.0	0.0	15.0	15.1	20.6	21.1	28.2	20.8	1.2	23.1	17.6	15.7	21.6	0.0	0.0	0.0	0.0
1955	2.4	0.0	12.1	11.9	23.2	23.9	26.5	18.8	14.1	21.0	18.5	6.1	21.4	0.0	0.0	0.0	0.0
1956	0.0	0.0	10.1	9.6	27.5	23.9	28.8	16.5	21.3	18.9	17.4	6.7	19.2	0.0	0.0	0.0	0.0
1957	0.0	0.0	8.5	7.5	30.1	24.6	29.3	14.8	23.0	20.2	18.6	6.4	17.0	0.0	0.0	0.0	0.0
1958	0.0	0.0	8.4	9.0	29.7	24.2	28.7	17.2	23.4	20.3	17.6	9.1	12.4	0.0	0.0	0.0	0.0
1959	0.0	0.0	10.4	8.9	29.0	23.9	27.7	17.3	21.5	17.7	15.6	6.6	21.3	0.0	0.0	0.0	0.0
1960	0.0	6.9	9.7	7.2	27.5	22.5	26.2	18.0	23.0	18.1	15.5	6.9	18.4	0.0	0.0	0.0	0.0
1961	0.0	22.8	8.1	6.4	23.7	18.4	20.6	18.0	23.6	16.9	12.8	7.2	21.5	0.0	0.0	0.0	0.0
1962	0.0	22.4	6.2	7.9	22.4	18.7	22.4	15.7	22.8	16.7	14.0	7.0	23.8	0.0	0.0	0.0	0.0
1963	0.0	21.8	7.6	7.9	24.2	19.5	19.1	17.6	22.9	16.2	13.2	7.1	23.1	0.0	0.0	0.0	0.0
1964	0.0	20.8	5.5	8.0	24.7	18.9	22.1	17.1	19.4	15.8	11.8	6.4	22.6	6.8	0.0	0.0	0.0
1965	0.0	21.9	8.9	9.7	24.9	11.3	23.2	15.9	20.4	14.5	11.5	4.2	20.5	13.1	100.0	0.0	0.0
1966	0.0	13.6	4.7	10.2	25.7	17.6	23.1	16.7	21.7	15.4	12.0	5.5	13.6	15.0	85.1	14.9	0.0
1967	0.0	22.7	1.3	12.7	20.7	19.7	22.9	15.1	19.7	14.6	11.4	9.6	17.2	12.5	23.1	76.9	0.0
1968	0.0	21.5	3.3	12.4	23.7	18.4	20.8	16.6	21.8	14.0	11.9	6.6	17.1	11.9	11.7	55.2	32.1
1969	0.0	22.8	1.1	12.1	18.7	20.7	24.6	15.7	20.9	15.8	11.7	4.0	19.2	12.8	6.0	49.2	44.8
1970	0.0	22.2	2.0	12.2	23.2	18.4	22.0	15.3	21.9	14.8	13.1	1.8	21.0	12.1	11.1	50.6	38.3
1971	0.0	21.6	7.7	11.0	21.6	18.1	20.0	14.0	23.1	18.1	13.3	4.3	18.3	8.9	15.4	51.7	32.9
1972	0.0	19.8	10.3	10.4	21.7	16.9	20.8	14.1	20.1	15.7	10.9	7.1	19.8	12.2	12.8	58.2	29.0
1973	0.0	21.5	11.5	5.0	22.8	16.9	22.3	14.2	18.5	15.2	10.0	7.8	20.5	13.7	6.8	55.6	37.6

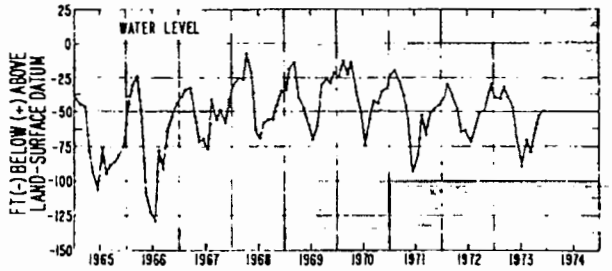

Fig. 2. Monthly average daily high water level, Los Alamos Canyon well, LA-1.

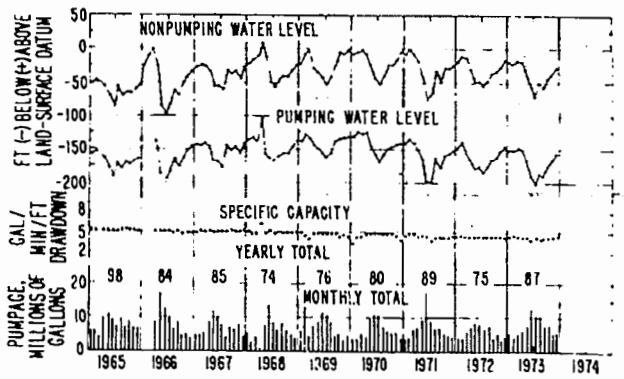

Fig. 3. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-1B.

Pumpage from well LA-3 decreased 20 million gal and water levels were slightly higher in 1973 than in 1972 (Fig. 5). The well was taken out of service on May 16 because of a possible problem with the chemical quality of the water. It was pumped only for testing during the subsequent six-month period. After the quality of the water was found to be acceptable, the well was put back into service on November 20.

Pumpage from well LA-4 was 9 million gal greater and water levels were slightly lower in 1973 than in 1972 (Fig. 6).

Pumpage from well LA-5 was 4 million gal greater and water levels were slightly lower in 1973 than in 1972 (Fig. 7). The pump was taken out of service in December due to a mechanical problem.

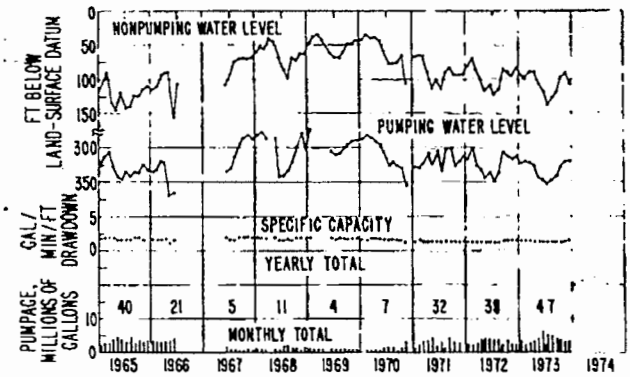

Fig. 4. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-2.

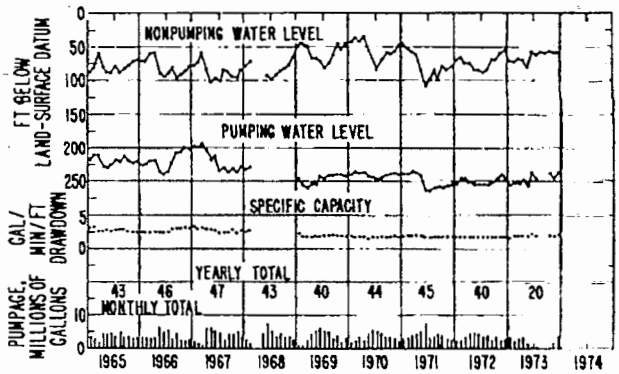

Fig. 5. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-3.

Pumpage from well LA-6 was 12 million gal greater in 1973 than in 1972 and no significant water level changes occurred (Fig. 8).

Due to increased production in the past few years, there has been a slight water level decline in the Los Alamos well field. The decline is as anticipated under the present amount of pumpage. The yearly pumping rate from the six wells increased 23 gpm from 2794 gpm in 1972 to 2817 gpm in 1973. There was no significant change in specific capacities in the six wells.

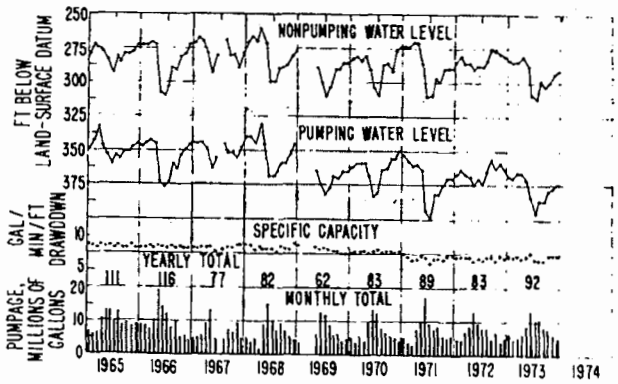

Fig. 6. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-4.

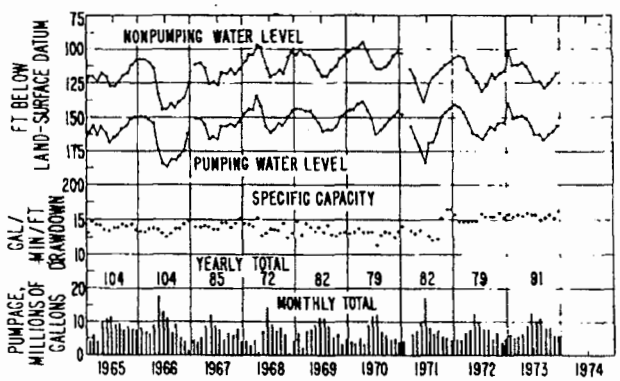

Fig. 8. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-6.

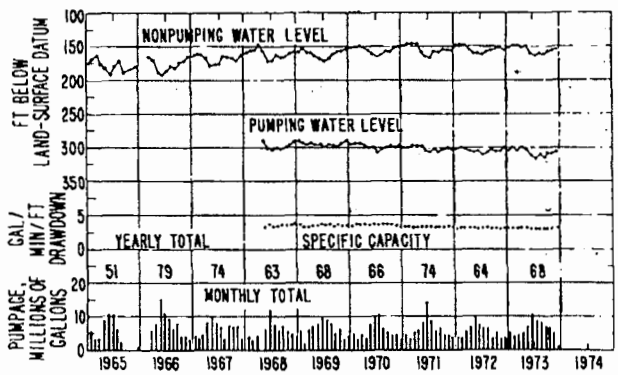

Fig. 7. Monthly average nonpumping and pumping water levels, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-5.

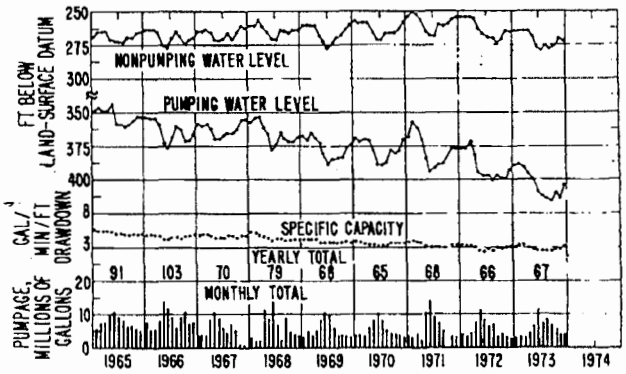

Fig. 9. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-1.

B. Guaje Well Field

Pumpage from the Guaje well field increased 8 million gal from 467 million gal in 1972 to 475 million gal in 1973. The seven wells in the field produced 30.3% of the total pumpage (Table I).

Pumpage from well G-1 was one million gal greater and water levels were slightly lower in 1973 than in 1972 (Fig. 9).

Pumpage from well G-1A decreased 6 million gal and no significant water level changes occurred from 1972 to 1973 (Fig. 10). The pumping rate declined about 40 gpm from January through November, while specific capacities have declined for the past few years. The well was taken out of service on November 22 to have the pump rebuilt and the sand cleared out of the well. The pump has been in the well since 1954.

Pumpage from well G-2 decreased one million gal and water levels showed no significant change from 1972 to 1973 (Fig. 11).

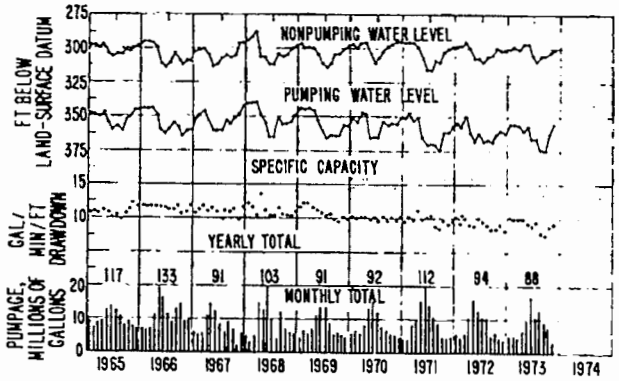

Fig. 10. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-1A.

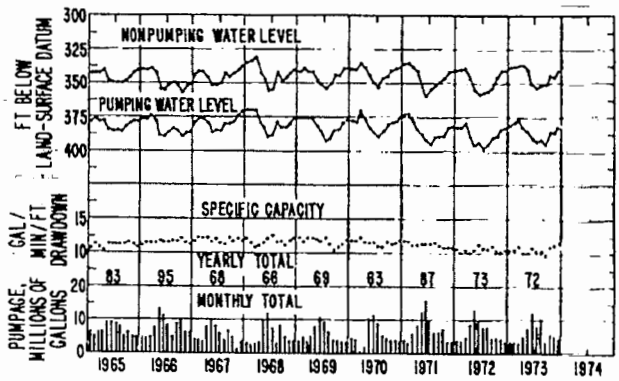

Fig. 11. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-2.

Pumpage from well G-3 decreased 4 million gal and water levels showed no significant change from 1972 to 1973 (Fig. 12).

Pumpage from well G-4 was 4 million gal greater and water levels were slightly lower in 1973 than in 1972 (Fig. 13).

Pumpage from well G-5 was 5 million gal greater and water levels showed no significant changes from 1972 to 1973 (Fig. 14).

Pumpage from well G-6 was 8 million gal greater and water levels were slightly lower in 1973 than in 1972 (Fig. 15).

In general the water levels follow the anticipated trends under the present amount of pumpage. Yearly average pumping rate declined 32 gpm from 2756 gpm in 1972 to 2724 gpm in 1973. Specific capacities of the wells are static or are showing slight declines.

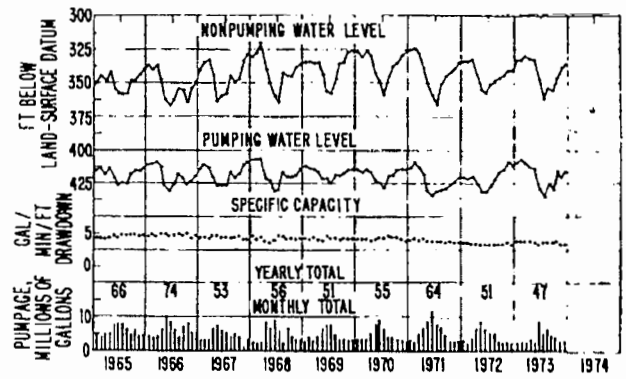

Fig. 12. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-3.

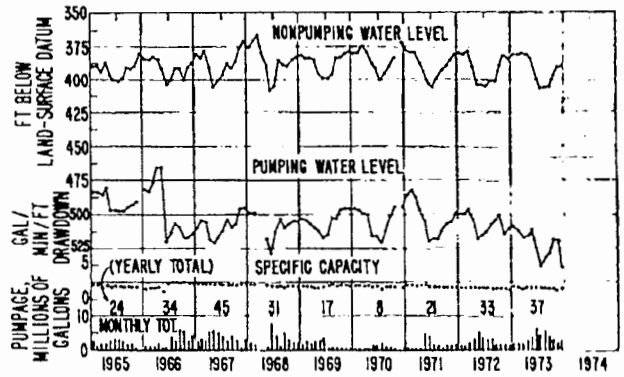

Fig. 13. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-4.

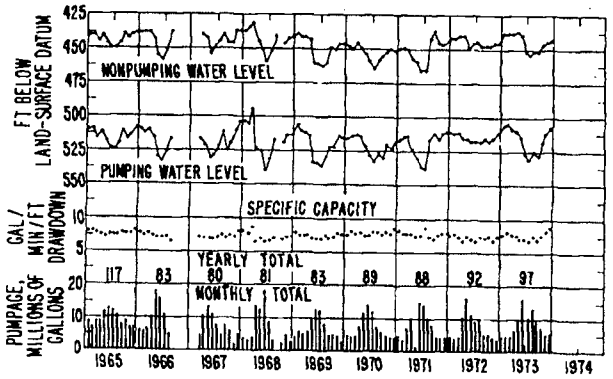

Fig. 14. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-5.

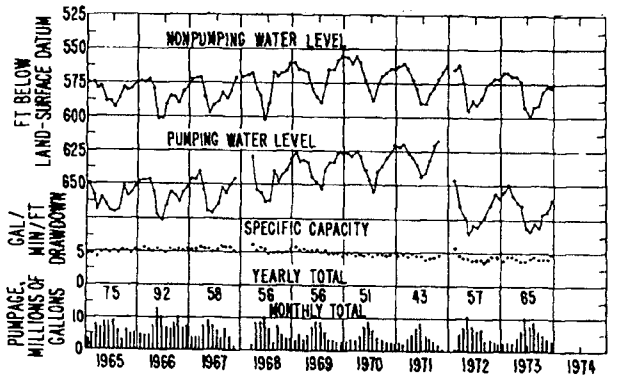

Fig. 15. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-6.

C. Pajarito Well Field

Pumpage from the Pajarito well field increased 23 million gal from 662 million gal in 1972 to 685 million gal in 1973. The three wells produced 43.7% of the total pumpage (Table I).

Pumpage from well PM-1 decreased 38 million gal, and as a result water levels were slightly higher in 1973 than in 1972 (Fig. 16). The pumping rate declined from about 580 gpm in January to about 360 gpm in October. The pump was pulled and replaced and about 300 ft of sand was cleaned out of the bottom of the well. The well was out of service from October 17 to the end of December.

Pumpage from well PM-2 decreased 4 million gal and water levels were slightly lower in 1972 than in 1973 (Fig. 17).

Pumpage from well PM-3 increased 66 million gal and water levels were lower in 1973 than in 1972 (Fig. 18).

The water level trends in well PM-1 show recovery in the past few years due to a decline in pumping rate and some additional development of the well. Water levels in wells PM-2 and PM-3 show slight declines for the past few years. Water levels are following their anticipated trends under the present amount of pumpage. Average annual pumping rate declined 120 gpm from 3288 gpm in 1972 to 3168 gpm in 1973. The largest decline in pumping rate occurred in PM-1 during the time prior to pump failure. The specific capacities show no significant changes from 1972.

III. WATER CANYON WATER SUPPLY

Production from the gallery in Water Canyon increased about 9 million gal from about 40 million gal in 1972 to about 49 million gal in 1973. The gallery is an excellent source of water, producing as much water from gravity flow as is pumped from some of the weaker wells (LA-2, LA-3, and G-4). Production data for 1971, 1972, and 1973 are shown in Table VI.

IV. SUMMARY

Pumpage has generally increased since the first well went into production in 1947, but the increase has been erratic in the past seven years (Table VII).

Pumpage increased 56 million gal or 172 acre-ft from 1972 to 1973. Requirements vary widely depending on precipitation, e.g., pumpage during a wet spring and summer will be reduced, whereas a dry spring and summer will result in a considerable increase in pumpage.

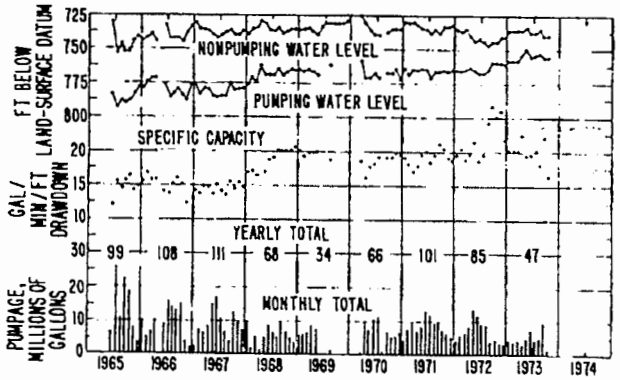

Fig. 16. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well PM-1.

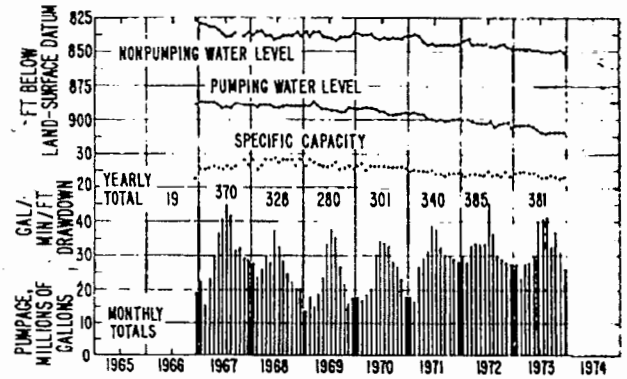

Fig. 17. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well PM-2.

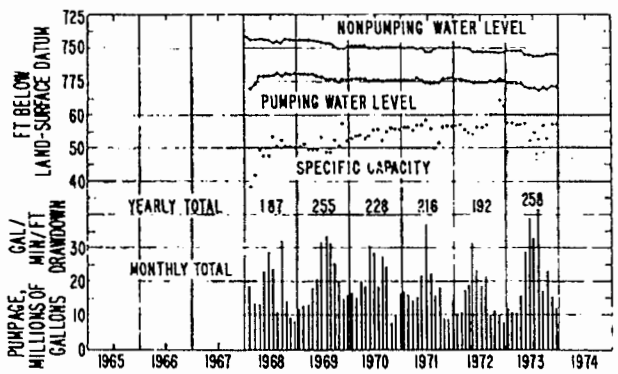

Fig. 18. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well, PM-3.

Expansion of Laboratory facilities and population and housing increases in the county will undoubtedly result in demands for a greater increase in production. The State Engineer has established underground water rights for the three well fields at 5325 acre-ft/yr.

Well field operations during 1973 were satisfactory. Water-level trends in the Los Alamos, Guaje and Pajarito well fields fell within the range expected from trends established during the past eight years. Two wells, PM-1 and G-1A, were down for repairs and cleaning of sand from the wells. Routine maintenance and repair of equipment during late fall, winter, and early spring will best prepare equipment for the heavy pumping season in late spring and summer when maximum production is necessary.

The average annual pumping rate from the three fields decreased slightly; however, most of the decrease occurred in wells that are being pulled for repairs or replacement. The specific capacities of wells

TABLE VI

PRODUCTION FROM WATER CANYON GALLERY IN MILLIONS OF GALLONS

Month	1971	1972	1973
January	3.2	3.3	4.3
February	3.0	2.6	2.8
March	3.7	2.7	1.9
April	3.6	4.1	.9
May	3.3	3.7	4.6
June	3.4	3.1	8.9
July	2.8	3.1	8.0
August	3.1	3.1	5.2
September	2.8	3.2	3.4
October	2.6	3.5	3.8
November	2.5	4.0	2.3
December	2.7	3.2	3.1
Total	36.7	39.6	49.2

TABLE VII

WELL FIELD PRODUCTION FOR 1967-1973

Year	Pumpage Million Gallons	Acre-Ft
1967	1319	4048
1968	1402	4302
1969	1335	4097
1970	1337	4226
1971	1553	4766
1972	1510	4634
1973	1566	4806

in the three fields were within acceptable limits and were considered normal.

V. RECOMMENDATIONS

New wells are considered essential for continued efficient operation of the water-supply system. Previous recommendations[2,3] for a new well in the Pajarito well field and a replacement for well G-4 in the Guaje well field are still valid. Gordon Herkenhoff and Associates, Inc., after an engineering study, concur in these recommendations, and, in fact, recommend three new wells in the Pajarito field to satisfy the long-range requirements of the Los Alamos development. Their report[4] is being prepared for the USAEC and LASL. Action should be taken in the very near future to satisfy the need for the new wells to cover any shortage that may occur due to the increasing demand for pumpage due to expansion of the Laboratory and housing in the county. The time necessary for completion of a well from design to production ranges from 18-24 months. An exceedingly dry spring and summer or outage of a high-yield well during the late spring or summer would probably result in a shortage of water for an indefinite period of time without this additional capacity.

We again recommend that the annual pumpage be limited to no more than 400 million gal from the Los Alamos field and no more than 500 million gal from the Guaje field, with additional required water to be pumped from the Pajarito field. Since 1967, when these restrictions were first established, there has been either a reversal or deceleration of water-level declines in most of the wells in the Los Alamos and Guaje fields.

REFERENCES

1. W. D. Purtymun and J. E. Herceg, "Summary of Los Alamos Municipal Well Field Characteristics, 1947-1971," Los Alamos Scientific Laboratory report LA-5040-MS (1972).

2. W. D. Purtymun and J. E. Herceg, "Water Supply at Los Alamos During 1971," Los Alamos Scientific Laboratory report LA-5039-MS (1972).

3. W. D. Purtymun and J. E. Herceg, "Water Supply at Los Alamos During 1972," Los Alamos Scientific Laboratory report LA-5296-MS (1973).

4. "Comprehensive Plan for Water System Improvements, Los Alamos, New Mexico," Gordon Herkenhoff and Associates, Inc., Engineers and Planners, 302 Eighth St., Albuquerque, New Mexico, 87102, Contract Number AT(29-1)-2201 (1974).

APPENDIX

SUMMARY OF LOS ALAMOS MUNICIPAL WELL-FIELD CHARACTERISTICS

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-1
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/ FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	-0	-0	0	24	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
FEB	71	2	-0	-0	0	21	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAR	71	3	-0	-0	0	28	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
APR	71	4	-0	-0	0	39	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAY	71	5	-0	-0	0	56	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUN	71	6	-0	-0	0	94	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUL	71	7	-0	-0	0	82	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
AUG	71	8	-0	-0	0	54	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
SEP	71	9	-0	-0	0	66	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
OCT	71	10	-0	-0	0	51	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
NOV	71	11	-0	-0	0	48	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
DEC	71	12	-0	-0	0	46	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JAN	72	13	-0	-0	0	41	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
FEB	72	14	-0	-0	0	30	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAR	72	15	-0	-0	0	38	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
APR	72	16	-0	-0	0	48	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAY	72	17	-0	-0	0	64	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUN	72	18	-0	-0	0	63	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUL	72	19	-0	-0	0	72	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
AUG	72	20	-0	-0	0	67	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
SEP	72	21	-0	-0	0	51	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
OCT	72	22	-0	-0	0	49	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
NOV	72	23	-0	-0	0	41	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
DEC	72	24	-0	-0	0	29	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JAN	73	25	-0	-0	0	39	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
FEB	73	26	-0	-0	0	39	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAR	73	27	-0	-0	0	31	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
APR	73	28	-0	-0	0	37	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAY	73	29	-0	-0	0	46	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUN	73	30	-0	-0	0	68	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUL	73	31	-0	-0	0	89	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
AUG	73	32	-0	-0	0	70	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
SEP	73	33	-0	-0	0	78	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
OCT	73	34	-0	-0	0	62	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
NOV	73	35	-0	-0	0	52	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
DEC	73	36	-0	-0	0	49	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-1B
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	118	4114	581	8	142	134	4.3	17.4	20.0	19.8	5.6	5.0	6.3	196	6600	561	30.9	1038.2
FEB	71	2	109	3930	601	1	135	134	4.5	20.2	25.5	25.2	6.0	5.3	7.0	197	6630	561	31.0	1042.1
MAR	71	3	178	6348	594	8	139	131	4.5	18.2	22.9	20.5	5.7	5.6	6.6	199	6722	563	31.2	1048.4
APR	71	4	208	7282	583	18	152	134	4.4	16.6	20.3	20.4	5.5	5.5	6.5	206	6976	563	31.4	1055.7
MAY	71	5	283	9627	567	41	165	124	4.6	16.5	20.3	20.5	5.3	5.7	6.5	206	6962	563	31.7	1065.3
JUN	71	6	531	17513	550	73	199	126	4.4	19.8	23.4	20.8	6.7	6.9	6.4	220	7440	563	32.2	1082.9
JUL	71	7	290	9138	525	65	199	134	3.9	18.5	21.5	20.1	5.5	5.1	6.1	214	7235	563	32.5	1092.0
AUG	71	8	211	7114	562	34	162	128	4.4	18.4	21.6	20.3	5.3	5.1	6.4	212	7179	564	32.7	1099.1
SEP	71	9	241	8161	564	46	177	131	4.3	18.7	22.2	20.7	6.4	6.1	6.5	217	7339	565	33.0	1107.3
OCT	71	10	167	5720	571	28	160	132	4.3	16.9	20.8	20.4	6.3	5.8	6.7	217	7364	565	33.1	1113.0
NOV	71	11	157	5396	573	27	158	131	4.4	16.7	20.3	20.3	6.5	5.9	6.6	217	7353	565	33.3	1118.4
DEC	71	12	140	4806	572	25	152	127	4.5	16.7	20.2	20.2	6.2	5.7	6.6	219	7429	564	33.4	1123.2
JAN	72	13	137	4716	574	17	149	132	4.3	16.9	20.7	20.3	5.8	5.2	6.6	221	7479	564	33.6	1127.9
FEB	72	14	128	4437	578	11	140	129	4.5	17.0	21.0	20.5	6.0	5.2	6.3	223	7521	563	33.7	1132.3
MAR	72	15	188	6410	568	14	156	142	4.0	16.7	20.6	20.5	6.2	5.6	6.3	223	7527	561	33.9	1138.8
APR	72	16	229	7818	569	30	166	136	4.2	16.7	20.4	20.4	5.1	5.1	6.4	225	7571	560	34.1	1146.6
MAY	72	17	275	9333	566	46	178	132	4.3	17.7	21.5	25.0	4.4	4.6	6.9	224	7547	560	34.4	1155.9
JUN	72	18	251	8563	569	46	177	131	4.3	13.0	15.9	17.7	4.5	4.7	6.2	201	6801	563	34.7	1164.5
JUL	72	19	229	7732	563	53	184	131	4.3	17.0	21.0	20.5	5.1	4.8	6.4	196	6684	568	34.9	1172.2
AUG	72	20	232	7880	566	46	176	130	4.4	16.9	20.7	20.3	5.1	5.0	6.4	198	6748	568	35.1	1180.1
SEP	72	21	136	4394	538	35	166	131	4.1	16.8	19.3	19.1	5.3	4.7	6.1	189	6434	567	35.2	1184.5
OCT	72	22	173	5825	561	31	163	132	4.3	16.6	19.5	19.7	6.0	5.7	6.4	190	6442	566	35.4	1190.3
NOV	72	23	109	3714	568	25	153	128	4.4	16.4	19.3	19.6	4.9	4.4	6.3	186	6302	566	35.5	1194.0
DEC	72	24	128	4430	577	14	146	132	4.4	16.5	19.5	19.7	6.0	5.5	6.5	185	6271	566	35.7	1198.4
JAN	73	25	169	5794	571	20	154	134	4.3	16.7	19.7	19.7	6.6	6.1	6.4	187	6361	566	35.8	1204.2
FEB	73	26	118	4061	574	21	152	131	4.4	16.3	19.1	19.7	5.3	4.9	6.4	186	6329	566	35.9	1208.3
MAR	73	27	150	5199	578	17	150	133	4.3	17.0	20.2	19.9	6.4	5.8	6.4	183	6229	566	36.1	1213.5
APR	73	28	183	6244	569	18	153	135	4.2	17.5	20.8	19.7	6.1	5.7	6.3	179	6097	566	36.3	1219.7
MAY	73	29	225	7599	563	30	166	136	4.1	17.8	20.3	19.8	5.6	5.2	6.4	175	5953	566	36.5	1227.3
JUN	73	30	380	12456	546	50	190	140	3.9	20.0	22.6	19.6	5.6	5.6	6.4	186	6277	562	36.9	1239.8
JUL	73	31	326	10359	530	72	201	129	4.1	20.5	22.8	19.2	6.6	5.9	6.2	194	6496	558	37.2	1250.2
AUG	73	32	317	10207	537	50	188	138	3.9	20.3	22.6	22.4	5.6	5.2	6.6	201	6690	554	37.5	1260.4
SEP	73	33	224	7286	542	58	191	133	4.1	19.3	21.6	22.4	5.5	5.4	6.6	208	6931	554	37.8	1267.6
OCT	73	34	222	7379	554	44	177	133	4.2	19.6	22.1	19.6	6.3	5.6	6.4	213	7061	554	38.0	1275.0
NOV	73	35	156	5272	563	36	166	130	4.3	17.7	20.4	19.6	6.1	5.4	6.8	216	7190	554	38.1	1280.3
DEC	73	36	158	5347	564	29	157	128	4.4	19.8	23.0	19.4	7.0	6.3	7.1	219	7267	553	38.3	1285.6

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-2
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	59	1177	332	65	329	264	1.3	8.7	5.7	11.3	2.8	1.4	3.6	32	677	349	38.3	843.6
FEB	71	2	107	2228	347	66	328	262	1.3	19.6	14.5	14.6	5.9	3.0	4.0	40	838	347	38.4	845.8
MAR	71	3	180	3420	317	64	324	260	1.2	18.4	12.4	10.9	5.8	3.0	3.5	54	1090	337	38.6	849.2
APR	71	4	208	3688	296	88	308	220	1.3	16.6	10.3	10.3	5.5	2.8	3.3	70	1364	325	38.8	852.9
MAY	71	5	271	4527	278	111	324	213	1.3	15.8	9.5	10.1	5.1	2.7	3.2	90	1691	312	39.1	857.4
JUN	71	6	118	1954	276	99	304	205	1.3	4.4	2.6	10.4	1.5	.8	3.2	97	1786	306	39.2	859.4
JUL	71	7	194	3130	269	111	334	223	1.2	12.3	7.4	10.3	3.7	1.8	3.1	110	1972	299	39.4	862.5
AUG	71	8	96	1726	300	90	304	214	1.4	8.4	5.3	10.8	2.4	1.2	3.4	115	2052	298	39.5	864.2
SEP	71	9	90	1477	274	81	301	220	1.2	7.0	4.0	10.0	2.4	1.1	3.2	122	2159	296	39.5	865.7
OCT	71	10	167	3013	301	93	325	232	1.3	16.9	10.9	10.7	6.3	3.1	3.6	133	2349	295	39.7	868.7
NOV	71	11	157	2882	306	91	320	229	1.3	16.7	10.8	10.8	6.5	3.1	3.5	137	2435	296	39.9	871.6
DEC	71	12	140	2535	302	91	310	219	1.4	16.7	10.6	10.6	6.2	3.0	3.5	149	2646	296	40.0	874.2
JAN	72	13	137	2357	287	80	313	233	1.2	16.9	10.3	10.2	5.9	2.6	3.3	155	2745	294	40.2	876.5
FEB	72	14	128	2212	288	72	300	228	1.3	17.0	10.5	10.2	6.0	2.6	3.1	157	2743	291	40.3	878.7
MAR	72	15	188	3018	268	87	324	237	1.1	16.7	9.7	9.7	6.2	2.6	3.0	158	2710	286	40.5	881.7
APR	72	16	230	4140	300	101	330	229	1.3	16.8	10.8	10.7	5.1	2.7	3.4	160	2748	287	40.7	885.9
MAY	72	17	275	4336	263	116	342	226	1.2	17.7	10.0	11.6	4.4	2.1	3.2	160	2732	285	41.0	890.2
JUN	72	18	231	4142	299	109	336	227	1.3	11.9	7.7	9.3	4.2	2.3	3.3	169	2914	287	41.2	894.4
JUL	72	19	229	4079	297	121	348	227	1.3	17.0	11.1	10.8	5.1	2.5	3.4	172	2993	289	41.4	898.4
AUG	72	20	232	4245	305	115	334	219	1.4	16.9	11.2	11.0	5.1	2.7	3.5	184	3203	291	41.7	902.7
SEP	72	21	129	2555	330	87	305	218	1.5	15.9	11.2	11.7	5.1	2.7	3.7	187	3293	294	41.8	905.2
OCT	72	22	173	3402	328	91	312	221	1.5	16.6	11.4	11.5	6.0	3.3	3.7	187	3325	296	42.0	908.6
NOV	72	23	109	2210	338	95	314	219	1.5	16.4	11.5	11.7	4.9	2.6	3.8	183	3269	297	42.1	910.9
DEC	72	24	128	2577	336	83	311	228	1.5	16.5	11.3	11.4	6.0	3.2	3.8	182	3273	299	42.2	913.4
JAN	73	25	169	3224	318	93	323	230	1.4	16.7	11.0	11.0	6.6	3.4	3.5	185	3345	301	42.4	916.7
FEB	73	26	115	2225	322	97	320	223	1.4	15.8	10.5	11.1	5.2	2.7	3.6	184	3346	303	42.5	918.9
MAR	73	27	150	2893	321	90	322	232	1.4	17.0	11.3	11.1	6.4	3.3	3.6	181	3336	307	42.6	921.8
APR	73	28	183	3330	303	91	329	238	1.3	17.5	11.1	10.5	6.1	3.1	3.4	177	3268	308	42.8	925.1
MAY	73	29	225	4108	304	108	345	237	1.3	17.8	11.0	10.7	5.6	2.8	3.5	173	3249	313	43.0	929.2
JUN	73	30	380	6390	280	119	349	230	1.2	20.0	11.6	10.1	5.6	2.9	3.3	185	3436	309	43.4	935.6
JUL	73	31	326	5419	277	139	354	215	1.3	20.5	11.9	10.0	6.6	3.1	3.2	193	3548	306	43.8	941.0
AUG	73	32	317	5233	275	127	349	222	1.2	20.3	11.6	11.5	5.6	2.6	3.4	200	3630	302	44.1	946.3
SEP	73	33	225	3842	285	117	343	226	1.3	19.4	11.4	11.8	5.5	2.8	3.5	208	3738	299	44.3	950.1
OCT	73	34	222	3922	294	98	330	232	1.3	19.6	11.7	10.4	6.3	3.0	3.4	212	3781	297	44.5	954.0
NOV	73	35	157	3001	319	91	321	230	1.4	17.8	11.6	11.1	6.2	3.1	3.8	216	3847	296	44.7	957.0
DEC	73	36	156	3107	332	107	320	213	1.6	19.6	13.3	11.4	6.9	3.7	4.2	219	3891	296	44.8	960.1

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-3
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	122	2502	342	47	242	195	1.8	17.9	12.2	11.7	5.8	3.0	3.7	196	3743	318	54.0	1162.4
FEB	71	2	114	2424	354	50	239	189	1.9	21.1	15.7	14.9	6.3	3.3	4.1	197	3763	319	54.1	1164.8
MAR	71	3	180	3690	342	53	235	182	1.9	18.4	13.3	11.8	5.8	3.3	3.8	199	3801	318	54.3	1168.5
APR	71	4	208	4157	333	62	236	174	1.9	16.6	11.6	11.6	5.5	3.1	3.7	207	3937	317	54.5	1172.6
MAY	71	5	286	5200	303	85	242	157	1.9	16.7	10.9	11.0	5.4	3.1	3.5	207	3941	317	54.8	1177.8
JUN	71	6	508	7089	233	109	263	154	1.5	18.9	9.5	8.8	6.4	2.8	2.7	220	4001	304	55.3	1184.9
JUL	71	7	220	3462	262	99	264	165	1.6	14.0	8.1	10.0	4.2	1.9	3.1	207	3786	304	55.5	1188.4
AUG	71	8	211	3823	302	62	258	176	1.7	18.4	11.6	10.9	5.3	2.7	3.4	205	3735	303	55.7	1192.2
SEP	71	9	241	4303	298	98	258	160	1.9	18.7	11.7	10.9	6.4	3.2	3.4	210	3789	301	56.0	1196.5
OCT	71	10	168	3074	305	78	259	181	1.7	17.0	11.2	10.9	6.4	3.1	3.6	211	3771	298	56.2	1199.6
NOV	71	11	158	2990	315	81	255	174	1.8	16.8	11.3	11.2	6.6	3.2	3.6	210	3738	296	56.3	1202.6
DEC	71	12	140	2724	324	78	254	176	1.8	16.7	11.4	11.4	6.2	3.3	3.7	213	3786	296	56.4	1205.3
JAN	72	13	137	2660	324	69	253	184	1.8	16.9	11.7	11.5	5.8	2.9	3.7	214	3800	296	56.6	1208.0
FEB	72	14	129	2478	320	65	247	182	1.8	17.2	11.7	11.3	6.1	2.9	3.5	215	3804	294	56.7	1210.4
MAR	72	15	187	3397	303	74	248	174	1.7	16.6	10.9	10.9	6.2	2.9	3.4	216	3780	292	56.9	1213.8
APR	72	16	230	4310	312	74	252	178	1.8	16.8	11.3	11.2	5.1	2.8	3.5	218	3792	290	57.1	1218.1
MAY	72	17	271	4645	286	83	255	172	1.7	17.5	10.7	12.6	4.3	2.3	3.5	217	3746	288	57.4	1222.8
JUN	72	18	253	4366	288	85	254	169	1.7	13.1	8.1	8.9	4.6	2.4	3.1	195	3519	300	57.7	1227.2
JUL	72	19	220	3558	270	88	256	168	1.6	16.4	9.7	9.8	4.9	2.2	3.1	195	3527	301	57.9	1230.7
AUG	72	20	232	3868	278	84	255	171	1.6	16.9	10.2	10.0	5.1	2.5	3.2	197	3531	298	58.1	1234.6
SEP	72	21	136	2372	291	68	252	184	1.6	16.8	10.4	10.3	5.3	2.5	3.3	188	3370	298	58.2	1237.0
OCT	72	22	173	3244	313	69	248	179	1.7	16.6	10.8	10.9	6.0	3.2	3.5	189	3384	299	58.4	1240.2
NOV	72	23	109	2154	329	59	241	182	1.8	16.4	11.2	11.4	4.9	2.6	3.7	185	3315	299	58.5	1242.4
DEC	72	24	128	2614	340	55	246	191	1.8	16.5	11.5	11.6	6.0	3.2	3.8	184	3305	300	58.7	1245.0
JAN	73	25	169	3443	340	71	256	185	1.8	16.7	11.7	11.7	6.6	3.6	3.8	186	3371	301	58.8	1248.4
FEB	73	26	115	2353	341	72	254	182	1.9	15.8	11.1	11.7	5.2	2.9	3.8	185	3360	302	58.9	1250.8
MAR	73	27	147	3069	348	69	254	185	1.9	16.6	12.0	12.0	6.3	3.4	3.8	182	3333	305	59.1	1253.8
APR	73	28	183	3725	339	70	250	180	1.9	17.5	12.4	11.8	6.1	3.4	3.8	178	3284	308	59.3	1257.6
MAY	73	29	90	1798	333	82	257	175	1.9	7.1	4.8	11.7	2.3	1.2	3.8	163	3047	312	59.4	1259.4
JUN	73	30	13	283	363	58	239	181	2.0	.7	.5	13.0	.2	.1	4.2	143	2707	316	59.4	1259.6
JUL	73	31	10	225	375	62	247	185	2.0	.6	.5	13.6	.2	.1	4.4	125	2429	323	59.4	1259.9
AUG	73	32	0	0	0	59	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106	2107	331	59.4	1259.9
SEP	73	33	0	0	0	59	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95	1909	336	59.4	1259.9
OCT	73	34	7	154	367	57	240	183	2.0	.6	.5	13.0	.2	.1	4.2	81	1651	340	59.4	1260.0
NOV	73	35	86	1798	348	58	246	188	1.9	9.8	7.0	12.1	3.4	1.9	4.2	79	1622	342	59.5	1261.8
DEC	73	36	157	3458	367	58	237	179	2.1	19.7	14.8	12.6	7.0	4.1	4.6	81	1692	346	59.6	1265.3

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-4
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	136	5023	616	272	352	80	7.7	20.0	24.5	21.0	6.5	6.1	6.7	195	6967	597	69.9	2495.9
FEB	71	2	105	3782	600	273	358	85	7.1	19.4	24.6	25.2	5.8	5.1	7.0	195	6970	596	70.1	2499.7
MAR	71	3	76	2756	604	268	361	93	6.5	7.8	10.0	20.8	2.4	2.4	6.7	189	6745	596	70.1	2502.5
APR	71	4	210	7613	604	272	361	89	6.8	16.7	21.2	21.1	5.5	5.7	6.8	196	7015	596	70.3	2510.1
MAY	71	5	290	10348	595	287	369	82	7.3	16.9	21.8	21.5	5.5	6.1	6.8	198	7087	596	70.6	2520.4
JUN	71	6	511	17497	571	310	392	82	7.0	19.0	23.3	21.6	6.4	6.9	6.7	210	7460	591	71.1	2537.9
JUL	71	7	282	9493	561	307	398	91	6.2	18.0	22.3	21.5	5.3	5.3	6.5	204	7206	589	71.4	2547.4
AUG	71	8	211	7532	595	293	382	89	6.7	18.4	22.9	21.5	5.3	5.4	6.7	203	7169	590	71.6	2555.0
SEP	71	9	240	8445	586	299	383	84	7.0	18.6	22.9	21.5	6.4	6.3	6.8	207	7317	589	71.9	2563.4
OCT	71	10	162	5803	597	289	375	86	6.9	16.4	21.1	21.3	6.1	5.9	7.1	207	7318	589	72.0	2569.2
NOV	71	11	156	5613	600	287	370	83	7.2	16.6	21.1	21.2	6.5	6.1	6.9	207	7325	589	72.2	2574.8
DEC	71	12	140	5060	602	287	370	83	7.3	16.7	21.3	21.3	6.2	6.0	7.0	210	7414	589	72.3	2579.9
JAN	72	13	133	4835	606	284	367	83	7.3	16.4	21.2	21.5	5.7	5.3	6.9	210	7398	588	72.5	2584.7
FEB	72	14	122	4418	604	279	364	85	7.1	16.2	20.9	21.4	5.7	5.2	6.6	211	7451	588	72.6	2589.1
MAR	72	15	187	6727	600	285	368	83	7.2	16.6	21.6	21.6	6.2	5.8	6.6	220	7782	589	72.8	2595.9
APR	72	16	227	8143	598	285	369	84	7.1	16.6	21.3	21.4	5.0	5.3	6.8	222	7826	588	73.0	2604.0
MAY	72	17	370	12667	571	290	376	86	6.6	23.8	29.2	25.3	5.9	6.2	6.9	228	8019	585	73.4	2616.7
JUN	72	18	280	9867	587	287	371	84	7.0	14.5	18.3	18.2	5.0	5.4	6.4	209	7384	588	73.6	2626.5
JUL	72	19	222	7809	586	288	375	87	6.7	16.5	21.2	21.4	4.9	4.9	6.7	204	7243	591	73.9	2634.3
AUG	72	20	225	8022	594	283	366	83	7.2	16.4	21.1	21.3	4.9	5.1	6.8	205	7284	591	74.1	2642.4
SEP	72	21	136	4895	600	274	357	83	7.2	16.8	21.5	21.3	5.3	5.2	6.8	197	6988	592	74.2	2647.3
OCT	72	22	181	6515	600	276	363	87	6.9	17.3	21.8	21.0	6.3	6.4	6.8	198	7048	592	74.4	2653.8
NOV	72	23	109	3940	602	278	359	81	7.4	16.4	20.5	20.8	4.9	4.7	6.7	194	6908	592	74.5	2657.7
DEC	72	24	130	4749	609	279	364	85	7.2	16.8	20.9	20.8	6.1	5.9	6.8	193	6882	593	74.7	2662.5
JAN	73	25	169	6134	605	284	368	84	7.2	16.7	20.9	20.9	6.6	6.5	6.8	196	6990	593	74.8	2668.6
FEB	73	26	126	4600	608	285	369	84	7.2	17.4	21.6	20.9	5.7	5.6	6.8	197	7006	593	74.9	2673.2
MAR	73	27	147	5336	605	284	366	82	7.4	16.6	20.8	20.8	6.3	6.0	6.7	193	6890	593	75.1	2678.5
APR	73	28	166	6115	614	281	366	85	7.2	15.9	20.4	21.3	5.5	5.6	6.9	188	6721	594	75.3	2684.7
MAY	73	29	239	8557	597	288	371	83	7.2	18.9	22.9	21.0	6.0	5.9	6.8	177	6378	599	75.5	2693.2
JUN	73	30	376	13111	581	308	383	75	7.7	19.8	23.8	20.9	5.6	5.9	6.8	185	6649	597	75.9	2706.3
JUL	73	31	310	10611	570	311	394	83	6.9	19.5	23.3	20.6	6.2	6.1	6.7	193	6882	595	76.2	2716.9
AUG	73	32	318	10960	574	301	386	85	6.8	20.3	24.3	23.9	5.6	5.5	7.0	201	7127	592	76.5	2727.9
SEP	73	33	236	8108	573	303	387	84	6.8	20.4	24.0	23.7	5.8	6.0	7.0	209	7395	590	76.7	2736.0
OCT	73	34	222	7722	580	300	378	78	7.4	19.6	23.1	20.5	6.3	5.9	6.7	212	7495	588	77.0	2743.7
NOV	73	35	153	5648	615	294	377	83	7.4	17.4	21.9	21.4	6.0	5.8	7.4	216	7638	589	77.1	2749.4
DEC	73	36	154	5471	592	292	374	82	7.2	19.3	23.5	20.4	6.8	6.5	7.5	218	7698	589	77.3	2754.8

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-5
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	136	3983	488	150	301	151	3.2	20.0	19.4	16.7	6.5	4.8	5.3	197	5539	469	71.4	2137.3
FEB	71	2	105	3029	481	146	300	154	3.1	19.4	19.7	20.2	5.8	4.1	5.6	197	5551	469	71.5	2140.4
MAR	71	3	180	5076	470	146	298	152	3.1	18.4	18.3	16.2	5.8	4.5	5.2	200	5616	469	71.7	2145.4
APR	71	4	210	5912	469	148	300	152	3.1	16.7	16.5	16.4	5.5	4.4	5.3	207	5821	468	71.9	2151.4
MAY	71	5	288	8036	465	160	300	140	3.3	16.8	16.9	16.8	5.4	4.8	5.3	208	5853	468	72.2	2159.4
JUN	71	6	505	13981	461	167	307	140	3.3	18.8	18.6	17.5	6.4	5.5	5.4	220	6177	469	72.7	2173.4
JUL	71	7	327	8963	457	166	308	142	3.2	20.8	21.1	17.5	6.2	5.0	5.3	216	6080	468	73.0	2182.3
AUG	71	8	211	5861	463	156	302	146	3.2	18.4	17.8	16.7	5.3	4.2	5.2	215	6037	468	73.2	2188.2
SEP	71	9	240	6626	460	159	307	148	3.1	18.6	18.0	16.9	6.4	5.0	5.3	220	6147	467	73.4	2194.8
OCT	71	10	161	4545	470	154	303	149	3.2	16.3	16.5	16.8	6.1	4.6	5.6	220	6154	467	73.6	2199.4
NOV	71	11	156	4436	474	153	301	148	3.2	16.6	16.7	16.8	6.5	4.8	5.5	220	6152	467	73.8	2203.8
DEC	71	12	140	3969	472	153	303	150	3.1	16.7	16.7	16.7	6.2	4.7	5.5	222	6201	466	73.9	2207.8
JAN	72	13	133	3766	472	147	302	155	3.0	16.4	16.5	16.7	5.7	4.1	5.4	221	6183	466	74.0	2211.5
FEB	72	14	122	3486	476	146	300	154	3.1	16.2	16.5	16.9	5.7	4.1	5.2	223	6221	466	74.1	2215.0
MAR	72	15	188	5282	468	148	302	154	3.0	16.7	17.0	16.9	6.2	4.6	5.2	223	6239	465	74.3	2220.3
APR	72	16	227	6365	467	154	305	151	3.1	16.6	16.5	16.7	5.0	4.1	5.3	225	6276	465	74.6	2226.7
JUN	72	17	360	9877	457	159	306	147	3.1	18.6	18.3	14.2	6.5	5.4	5.0	231	6430	464	74.9	2236.5
JUN	72	18	280	7667	456	159	305	146	3.1	14.5	14.2	14.2	5.0	4.2	5.0	212	5904	464	75.2	2244.2
JUL	72	19	222	6125	460	161	311	150	3.1	16.5	16.6	16.8	4.9	3.8	5.3	203	5667	465	75.4	2250.3
AUG	72	20	225	6302	467	157	307	150	3.1	16.4	16.6	16.8	4.9	4.0	5.3	204	5704	465	75.7	2256.6
SEP	72	21	136	3872	475	154	303	149	3.2	16.8	17.0	16.9	5.3	4.1	5.4	196	5474	466	75.8	2260.5
OCT	72	22	164	4658	473	153	306	153	3.1	15.7	15.6	16.6	5.7	4.5	5.4	196	5484	466	76.0	2265.2
NOV	72	23	114	3247	475	150	305	155	3.1	17.2	16.9	16.4	5.1	3.9	5.3	193	5385	466	76.1	2268.4
DEC	72	24	130	3769	483	154	300	146	3.3	16.8	16.6	16.5	6.1	4.7	5.4	192	5368	467	76.2	2272.2
JAN	73	25	169	4802	474	151	307	156	3.0	16.7	16.4	16.4	6.6	5.1	5.3	195	5454	467	76.4	2277.0
FEB	73	26	126	3612	478	148	302	154	3.1	17.4	17.0	16.4	5.7	4.4	5.3	195	5465	467	76.5	2280.6
MAR	73	27	143	4066	474	147	305	158	3.0	16.2	15.8	16.3	6.1	4.6	5.2	191	5363	467	76.6	2284.7
APR	73	28	166	4710	473	151	301	150	3.2	15.9	15.7	16.4	5.5	4.3	5.3	186	5226	468	76.8	2289.4
MAY	73	29	244	6818	466	150	304	154	3.0	19.3	18.2	16.4	6.1	4.7	5.3	177	4971	469	77.0	2296.2
JUN	73	30	379	10248	451	162	314	152	3.0	19.9	18.6	16.2	5.6	4.6	5.2	185	5186	468	77.4	2306.4
JUL	73	31	310	8354	449	165	317	152	3.0	19.5	18.4	16.2	6.2	4.8	5.3	192	5371	466	77.7	2314.8
AUG	73	32	293	7906	450	162	311	149	3.0	18.7	17.5	18.7	5.2	4.0	5.5	198	5505	464	78.0	2322.7
SEP	73	33	236	6465	457	163	315	152	3.0	20.4	19.2	18.9	5.8	4.7	5.6	206	5721	463	78.3	2329.2
OCT	73	34	230	6333	459	160	309	149	3.1	20.3	19.0	16.2	6.5	4.8	5.3	212	5861	461	78.5	2335.5
NOV	73	35	163	4550	465	157	309	152	3.1	18.5	17.6	16.2	6.4	4.7	5.6	216	5969	461	78.7	2340.1
DEC	73	36	17	476	467	155	307	152	3.1	2.1	2.0	16.1	.8	.6	5.9	206	5695	460	78.7	2340.5

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-6
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	109	3739	572	102	143	41	13.9	16.0	18.2	19.5	5.2	4.5	6.2	193	6528	564	71.7	2503.5
FEB	71	2	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	184	6218	563	71.7	2503.5
MAR	71	3	185	6386	575	115	158	43	13.4	18.9	23.1	19.8	5.9	5.6	6.4	187	6316	563	71.8	2509.9
APR	71	4	210	7278	578	121	165	44	13.1	16.7	20.3	20.2	5.5	5.5	6.5	195	6610	564	72.0	2517.2
MAY	71	5	293	9798	557	129	171	42	13.3	17.1	20.6	20.2	5.5	5.8	6.4	196	6626	562	72.3	2527.0
JUN	71	6	512	16959	552	138	185	47	11.7	19.1	22.6	20.9	6.4	6.7	6.4	210	7046	560	72.9	2544.0
JUL	71	7	258	8336	539	125	168	43	12.5	16.4	19.6	20.6	4.9	4.7	6.3	201	6742	559	73.1	2552.3
AUG	71	8	207	6810	548	121	168	47	11.7	18.0	20.7	19.8	5.2	4.9	6.2	199	6690	559	73.3	2559.1
SEP	71	9	240	7815	543	118	162	44	12.3	18.6	21.2	19.9	6.4	5.8	6.3	204	6818	557	73.6	2566.9
OCT	71	10	162	5390	555	114	150	36	15.4	16.4	19.6	19.8	6.1	5.5	6.5	204	6814	556	73.7	2572.3
NOV	71	11	156	5247	561	112	146	34	16.5	16.6	19.8	19.8	6.5	5.7	6.5	204	6817	556	73.9	2577.6
DEC	71	12	140	4709	561	110	144	34	16.5	16.7	19.8	19.8	6.2	5.6	6.5	206	6872	556	74.0	2582.3
JAN	72	13	133	4482	562	106	142	36	15.6	16.4	19.6	19.9	5.7	4.9	6.4	208	6934	556	74.1	2586.8
FEB	72	14	122	4064	555	105	143	38	14.6	16.2	19.3	19.7	5.7	4.8	6.1	218	7273	556	74.3	2590.8
MAR	72	15	186	6299	564	109	147	38	14.9	16.5	20.2	20.4	6.1	5.5	6.3	218	7266	555	74.5	2597.1
APR	72	16	227	7473	549	116	153	37	14.8	16.6	19.5	19.6	5.0	4.9	6.2	220	7282	552	74.7	2604.6
MAY	72	17	361	12453	575	123	162	39	14.7	23.3	28.7	25.4	5.7	6.1	7.0	225	7503	555	75.0	2617.0
JUN	72	18	280	9461	563	125	163	38	14.8	14.5	17.5	17.5	5.0	5.2	6.1	206	6878	556	75.3	2626.5
JUL	72	19	222	7560	568	130	166	36	15.8	16.5	20.5	20.7	4.9	4.7	6.5	203	6814	559	75.5	2634.1
AUG	72	20	225	7746	574	125	163	38	15.1	16.4	20.4	20.6	4.9	4.9	6.5	204	6892	562	75.8	2641.8
SEP	72	21	136	4726	579	118	156	38	15.2	16.8	20.7	20.6	5.3	5.1	6.6	196	6634	565	75.9	2646.5
OCT	72	22	181	6301	580	120	158	38	15.3	17.3	21.0	20.3	6.3	6.1	6.6	197	6710	566	76.1	2652.8
NOV	72	23	114	3996	584	116	153	37	15.8	17.2	20.7	20.2	5.1	4.7	6.5	194	6606	568	76.2	2656.8
DEC	72	24	130	4594	589	115	154	39	15.1	16.8	20.2	20.1	6.1	5.7	6.6	193	6596	569	76.3	2661.4
JAN	73	25	169	5958	588	102	139	37	15.9	16.7	20.3	20.3	6.6	6.3	6.6	196	6719	571	76.5	2667.4
FEB	73	26	126	4426	585	112	150	38	15.4	17.4	20.8	20.1	5.7	5.4	6.5	196	6749	573	76.6	2671.8
MAR	73	27	147	5113	580	112	149	37	15.7	16.6	19.9	20.0	6.3	5.7	6.4	193	6651	574	76.8	2676.9
APR	73	28	166	5846	587	110	148	38	15.4	15.9	19.5	20.3	5.5	5.4	6.6	188	6515	577	76.9	2682.8
MAY	73	29	243	8539	586	113	150	37	15.8	19.2	22.8	20.6	6.1	5.9	6.6	178	6189	579	77.2	2691.3
JUN	73	30	372	12606	565	120	156	36	15.7	19.6	22.9	20.3	5.5	5.7	6.6	186	6451	578	77.6	2703.9
JUL	73	31	310	10486	564	126	162	36	15.7	19.5	23.1	20.4	6.2	6.0	6.6	193	6695	577	77.9	2714.4
AUG	73	32	318	10765	564	124	162	38	14.8	20.3	23.9	23.5	5.6	5.4	6.9	201	6946	576	78.2	2725.2
SEP	73	33	237	8025	564	128	165	37	15.3	20.5	23.8	23.3	5.8	5.9	6.9	209	7221	575	78.4	2733.2
OCT	73	34	230	7872	570	126	162	36	15.8	20.3	23.6	20.2	6.5	6.0	6.6	213	7352	574	78.6	2741.1
NOV	73	35	165	5549	561	122	159	37	15.1	18.7	21.5	19.5	6.5	5.7	6.8	218	7482	573	78.8	2746.6
DEC	73	36	155	5439	585	119	155	36	16.2	19.4	23.3	20.1	6.9	6.4	7.4	220	7552	573	79.0	2752.1

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL G-1
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	142	3540	415	253	367	114	3.6	16.1	15.9	14.5	6.8	4.3	4.5	225	5363	397	61.3	1660.5
FEB	71	2	110	2701	409	250	357	107	3.8	16.1	15.4	14.5	6.1	3.7	4.8	221	5258	397	61.4	1663.2
MAR	71	3	170	4047	397	251	363	112	3.5	12.6	11.8	14.2	5.5	3.6	4.4	222	5271	395	61.5	1667.2
APR	71	4	85	2012	395	257	373	116	3.4	4.8	4.5	14.2	2.2	1.5	4.4	209	4930	393	61.6	1669.2
MAY	71	5	469	10918	388	263	385	122	3.2	17.4	18.3	14.5	8.8	6.5	4.4	217	5125	393	62.1	1680.1
JUN	71	6	642	14589	379	267	394	127	3.0	16.2	16.1	14.5	8.1	5.7	4.4	232	5463	392	62.7	1694.7
JUL	71	7	438	9814	373	267	391	124	3.0	16.8	15.6	13.9	8.3	5.5	4.4	239	5605	391	63.2	1704.5
AUG	71	8	315	7384	391	260	388	128	3.1	16.1	15.5	14.3	8.0	5.3	4.4	247	5785	390	63.5	1711.9
SEP	71	9	252	5927	392	261	387	126	3.1	15.8	15.7	15.0	6.7	4.4	4.5	254	5932	390	63.7	1717.8
OCT	71	10	-0	-0	0	259	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	242	5637	389	63.7	1717.8
NOV	71	11	140	3420	407	256	376	120	3.4	16.6	16.3	16.3	5.8	3.7	4.7	241	5625	389	63.9	1721.3
DEC	71	12	145	3536	406	254	376	122	3.3	16.7	16.3	16.3	6.4	4.2	4.7	242	5657	389	64.0	1724.8
JAN	72	13	153	3727	406	254	376	122	3.3	16.7	16.2	16.2	6.5	4.1	4.7	243	5673	389	64.2	1728.5
FEB	72	14	127	3065	402	254	376	122	3.3	16.3	15.8	13.7	6.0	3.6	4.4	245	5703	389	64.3	1731.6
MAR	72	15	173	4115	396	254	371	117	3.4	15.2	14.6	13.7	5.7	3.6	4.4	245	5709	388	64.5	1735.7
APR	72	16	328	7619	387	255	382	127	3.0	14.5	14.1	13.9	7.2	5.0	4.4	265	6176	388	64.8	1743.3
MAY	72	17	500	11389	380	264	394	130	2.9	14.1	13.9	14.1	7.9	5.6	4.6	268	6215	387	65.3	1754.7
JUN	72	18	365	8268	378	267	398	131	2.9	14.2	13.7	14.0	6.6	4.5	4.1	245	5689	388	65.7	1763.0
JUL	72	19	303	6852	377	269	396	127	3.0	14.3	13.8	13.8	6.7	4.3	4.3	233	5442	389	66.0	1769.8
AUG	72	20	315	7093	375	271	400	129	2.9	14.3	13.7	13.8	6.9	4.5	4.3	233	5418	387	66.3	1776.9
SEP	72	21	163	3779	386	275	396	121	3.2	14.3	14.0	14.0	6.4	4.0	4.4	226	5239	386	66.5	1780.7
OCT	72	22	174	4048	388	272	398	126	3.1	14.7	14.3	14.1	6.1	3.9	4.4	240	5576	386	66.6	1784.8
NOV	72	23	144	3322	384	265	389	124	3.1	14.3	13.8	13.8	6.4	3.9	4.3	241	5568	385	66.8	1788.1
DEC	72	24	120	2792	388	266	391	125	3.1	14.3	14.0	14.0	5.6	3.5	4.3	239	5506	384	66.9	1790.9
JAN	73	25	138	3261	394	265	389	124	3.2	14.6	14.6	14.3	5.4	3.4	4.4	238	5467	384	67.0	1794.1
FEB	73	26	140	3322	395	265	388	123	3.2	14.2	14.1	14.2	6.3	4.0	4.4	239	5488	383	67.2	1797.5
MAR	73	27	127	3012	395	265	390	125	3.2	14.3	13.8	13.9	5.4	3.4	4.4	235	5396	383	67.3	1800.5
APR	73	28	192	4552	395	265	395	130	3.0	14.5	14.0	13.8	6.4	4.2	4.4	223	5141	384	67.5	1805.0
MAY	73	29	283	6556	386	268	400	132	2.9	15.4	14.6	13.9	7.1	4.5	4.4	205	4738	385	67.8	1811.6
JUN	73	30	519	11010	354	276	409	133	2.7	14.5	13.5	13.3	7.7	4.9	4.1	218	4967	379	68.3	1822.6
JUL	73	31	331	7042	355	278	412	134	2.6	14.3	13.4	13.4	6.7	4.0	4.2	220	4982	377	68.6	1829.6
AUG	73	32	410	8920	363	275	413	138	2.6	14.1	13.4	13.6	7.2	4.5	4.4	228	5135	375	69.0	1838.5
SEP	73	33	296	6595	371	277	416	139	2.7	15.4	15.1	13.9	7.3	4.8	4.5	239	5369	374	69.3	1845.1
OCT	73	34	234	5349	381	275	409	134	2.8	14.5	14.1	13.9	6.6	4.1	4.4	244	5478	373	69.6	1850.5
NOV	73	35	164	3858	392	271	413	142	2.8	15.0	15.5	14.3	6.5	4.0	4.7	246	5522	374	69.7	1854.4
DEC	73	36	163	3990	408	272	404	132	3.1	16.5	17.4	17.6	7.2	4.7	5.1	250	5622	375	69.9	1858.3

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL G-1A
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	112	3915	583	290	353	63	9.2	12.7	17.6	20.3	5.3	4.8	6.3	228	7606	556	52.0	1764.3
FEB	71	2	111	3815	573	290	346	56	10.2	16.2	21.8	20.3	6.1	5.2	6.7	224	7468	556	52.1	1768.1
MAR	71	3	231	7929	572	293	354	61	9.4	17.1	23.1	20.5	7.4	7.0	6.4	230	7695	557	52.4	1776.0
APR	71	4	326	11236	574	300	351	51	11.3	18.3	25.0	20.6	8.6	8.4	6.4	235	7926	563	52.7	1787.2
MAY	71	5	462	15229	549	309	367	58	9.5	17.1	25.5	20.5	8.7	9.0	6.3	240	8101	561	53.1	1802.5
JUN	71	6	651	21712	556	316	371	55	10.1	16.4	24.0	21.3	8.2	8.5	6.5	257	8657	562	53.8	1824.2
JUL	71	7	435	14572	558	316	370	54	10.3	16.6	23.1	20.8	8.2	8.2	6.5	263	8873	563	54.2	1838.8
AUG	71	8	311	10810	579	308	373	65	8.9	15.9	22.7	21.2	7.9	7.8	6.6	271	9177	565	54.5	1849.6
SEP	71	9	247	8210	554	310	375	65	8.5	15.5	21.8	21.2	6.6	6.1	6.4	276	9340	564	54.8	1857.8
OCT	71	10	142	4882	573	302	361	59	9.7	14.5	20.9	24.8	5.4	5.0	6.8	275	9300	564	54.9	1862.7
NOV	71	11	140	4668	556	300	361	61	9.1	16.6	22.2	22.2	5.8	5.1	6.4	274	9269	563	55.1	1867.3
DEC	71	12	145	4864	559	298	356	58	9.6	16.7	22.5	22.4	6.4	5.8	6.5	276	9320	563	55.2	1872.2
JAN	72	13	153	5208	567	298	354	56	10.1	16.7	23.7	22.7	6.5	5.7	6.5	279	9428	562	55.4	1877.4
FEB	72	14	124	4149	558	297	356	59	9.5	16.0	21.4	19.0	5.8	4.9	6.1	281	9456	562	55.5	1881.5
MAR	72	15	173	5650	544	295	349	54	10.1	15.2	20.1	18.8	5.7	4.9	6.0	276	9266	560	55.7	1887.2
APR	72	16	328	10579	538	300	360	60	9.0	14.5	19.6	19.4	7.2	6.9	6.1	276	9211	556	56.0	1897.8
MAY	72	17	497	16037	538	308	367	59	9.1	14.0	19.6	19.9	7.0	7.9	6.5	279	9278	555	56.5	1913.8
JUN	72	18	385	12528	542	307	360	53	10.2	15.0	20.8	20.1	6.9	6.9	5.9	257	8513	553	56.9	1926.3
JUL	72	19	303	10031	552	310	367	57	9.7	14.3	20.2	20.2	6.7	6.3	6.3	246	8135	552	57.2	1936.4
AUG	72	20	315	10407	551	306	366	60	9.2	14.3	20.1	20.2	6.9	6.6	6.3	246	8101	549	57.5	1946.8
SEP	72	21	163	5338	546	305	369	64	8.5	14.3	19.8	19.8	6.4	5.7	6.2	239	7862	548	57.7	1952.1
OCT	72	22	174	5678	544	300	362	62	8.8	14.7	20.1	19.7	6.1	5.5	6.2	242	7928	547	57.8	1957.8
NOV	72	23	144	4639	537	301	358	57	9.4	14.3	19.2	19.3	6.4	5.5	6.0	242	7926	546	58.0	1962.4
DEC	72	24	120	3781	525	301	360	59	8.9	14.3	18.9	18.9	5.6	4.7	5.9	240	7835	544	58.1	1966.2
JAN	73	25	138	4463	539	300	354	54	10.0	14.6	20.0	19.5	5.4	4.7	6.0	239	7773	543	58.2	1970.7
FEB	73	26	140	4645	553	299	355	56	9.9	14.2	19.8	19.8	6.3	5.6	6.2	240	7815	543	58.4	1975.3
MAR	73	27	127	4177	548	300	356	56	9.8	14.3	19.2	19.2	5.4	4.7	6.1	236	7692	543	58.5	1979.5
APR	73	28	192	6318	548	297	361	64	8.6	14.5	19.5	19.2	6.4	5.8	6.1	225	7337	544	58.7	1985.8
MAY	73	29	282	9372	554	297	357	60	9.2	15.3	20.9	19.9	7.1	6.4	6.3	207	6781	546	59.0	1995.2
JUN	73	30	517	16544	533	306	366	60	8.9	14.4	20.2	20.1	7.7	7.4	6.2	218	7116	544	59.5	2011.7
JUL	73	31	331	10426	525	310	366	56	9.4	14.3	19.8	19.8	6.7	6.0	6.1	220	7149	541	59.8	2022.2
AUG	73	32	410	12848	522	306	373	67	7.8	14.1	19.4	19.6	7.2	6.5	6.4	228	7352	537	60.2	2035.0
SEP	73	33	296	9144	515	306	374	68	7.6	15.4	20.9	19.2	7.3	6.7	6.3	239	7670	534	60.5	2044.2
OCT	73	34	234	7218	514	303	362	59	8.7	14.5	19.0	18.7	6.6	5.5	6.0	244	7798	532	60.8	2051.4
NOV	73	35	93	2788	500	300	355	55	9.1	8.5	11.2	18.3	3.7	2.9	6.0	240	7644	531	60.9	2054.2
DEC	73	36	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	230	7329	531	60.9	2054.2

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL G-2
FOR LAST THREE YEARS

DATE MO	DATE YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	71	1	142	3828	449	335	373	38	11.8	16.1	17.2	15.7	6.8	4.7	4.9	202	5205	430	61.1	1648.7
FEB	71	2	110	2895	439	335	373	38	11.5	16.1	16.5	15.5	6.1	3.9	5.1	197	5095	430	61.2	1651.6
MAR	71	3	222	5900	443	336	377	41	10.8	16.5	17.2	15.9	7.1	5.2	4.9	215	5561	431	61.4	1657.5
APR	71	4	314	8356	444	341	383	42	10.6	17.7	18.6	15.9	8.3	6.3	5.0	236	6104	432	61.7	1665.9
MAY	71	5	468	11757	419	352	388	36	11.6	17.3	19.7	15.6	8.8	7.0	4.8	242	6218	428	62.2	1677.6
JUN	71	6	646	15776	407	359	392	33	12.3	16.3	17.5	15.6	8.1	6.2	4.8	259	6569	423	62.8	1693.4
JUL	71	7	417	10176	407	354	394	40	10.2	16.0	16.1	15.1	7.9	5.7	4.7	263	6690	424	63.3	1703.6
AUG	71	8	269	6780	420	352	388	36	11.7	13.7	14.2	15.4	6.8	4.9	4.8	268	6802	423	63.5	1710.4
SEP	71	9	256	6642	432	349	387	38	11.4	16.1	17.6	16.5	6.8	5.0	5.0	274	6958	424	63.8	1717.0
OCT	71	10	291	7797	447	346	387	41	10.9	29.7	33.3	19.3	11.0	7.9	5.3	285	7275	426	64.1	1724.8
NOV	71	11	140	3699	440	342	382	40	11.0	16.6	17.6	17.6	5.8	4.0	5.1	284	7264	426	64.2	1728.5
DEC	71	12	145	3818	439	341	381	40	11.0	16.7	17.6	17.6	6.4	4.6	5.1	285	7285	426	64.4	1732.3
JAN	72	13	153	4047	441	341	382	41	10.8	16.7	17.6	17.6	6.5	4.4	5.1	286	7304	426	64.5	1736.4
FEB	72	14	126	3276	433	340	382	42	10.3	16.2	16.9	14.8	5.9	3.9	4.7	287	7335	426	64.6	1739.7
MAR	72	15	173	4463	430	338	379	41	10.5	15.2	15.8	14.9	5.7	3.9	4.8	283	7216	425	64.8	1744.1
APR	72	16	328	8328	423	347	389	42	10.1	14.5	15.4	15.2	7.2	5.4	4.8	284	7213	423	65.1	1752.4
MAY	72	17	508	12664	416	356	395	39	10.7	14.3	15.5	15.4	8.1	6.2	5.1	288	7290	422	65.6	1765.1
JUN	72	18	380	9507	417	358	393	35	11.9	14.8	15.8	15.4	6.8	5.2	4.5	265	6768	425	66.0	1774.6
JUL	72	19	303	7624	419	357	397	40	10.5	14.3	15.4	15.4	6.7	4.8	4.8	256	6555	427	66.3	1782.3
AUG	72	20	315	7894	418	356	395	39	10.7	14.3	15.3	15.3	6.9	5.0	4.8	260	6648	426	66.6	1790.2
SEP	72	21	163	4178	427	353	389	36	11.9	14.3	15.5	15.5	6.4	4.5	4.9	252	6443	426	66.8	1794.3
OCT	72	22	174	4508	432	346	388	42	10.3	14.7	16.0	15.7	6.1	4.4	4.9	242	6169	424	67.0	1798.8
NOV	72	23	144	3770	436	341	383	42	10.4	14.3	15.6	15.7	6.4	4.5	4.9	243	6175	424	67.1	1802.6
DEC	72	24	120	3142	436	341	382	41	10.6	14.3	15.7	15.7	5.6	3.9	4.9	241	6118	424	67.2	1805.8
JAN	73	25	138	3554	429	338	380	42	10.2	14.6	15.9	15.5	5.4	3.7	4.8	239	6077	423	67.4	1809.3
FEB	73	26	141	3547	419	338	378	40	10.5	14.3	15.1	15.0	6.3	4.3	4.7	241	6100	423	67.5	1812.9
MAR	73	27	126	3358	444	337	377	40	11.1	14.2	15.4	15.6	5.4	3.8	4.9	237	6008	423	67.7	1816.2
APR	73	28	191	5148	449	337	381	44	10.2	14.4	15.9	15.7	6.4	4.7	5.0	225	5743	425	67.8	1821.4
MAY	73	29	282	7438	440	341	385	44	10.0	15.3	16.6	15.8	7.1	5.1	5.0	206	5306	428	68.1	1828.8
JUN	73	30	502	12326	409	351	389	38	10.8	14.0	15.1	15.4	7.5	5.5	4.8	217	5541	426	68.6	1841.1
JUL	73	31	330	8027	405	353	392	39	10.4	14.2	15.3	15.3	6.6	4.6	4.7	219	5574	425	69.0	1849.2
AUG	73	32	420	10438	414	352	392	40	10.4	14.4	15.7	15.6	7.4	5.3	5.1	228	5786	424	69.4	1859.6
SEP	73	33	145	3628	417	351	394	43	9.7	7.5	8.3	15.6	3.6	2.7	5.1	226	5740	423	69.5	1863.2
OCT	73	34	215	5891	457	345	386	41	11.1	13.3	15.5	16.6	6.1	4.5	5.3	229	5856	425	69.7	1869.1
NOV	73	35	163	4448	455	346	386	40	11.4	14.9	17.9	16.6	6.4	4.6	5.5	231	5912	426	69.9	1873.6
DEC	73	36	163	4624	473	341	382	41	11.5	16.5	20.2	20.4	7.2	5.5	6.0	235	6036	429	70.1	1878.2

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL G-3
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	143	3033	353	326	413	87	4.1	16.3	13.6	12.3	6.8	3.7	3.8	227	4575	336	61.1	1356.1
FEB	71	2	111	2310	347	325	409	84	4.1	16.2	13.2	12.3	6.1	3.1	4.0	223	4482	335	61.3	1358.4
MAR	71	3	231	4700	339	327	413	86	3.9	17.1	13.7	12.2	7.4	4.1	3.8	230	4596	334	61.5	1363.1
APR	71	4	321	6341	329	339	419	80	4.1	18.1	14.1	11.8	8.5	4.7	3.7	236	4690	332	61.8	1369.4
MAY	71	5	459	8519	309	350	431	81	3.8	17.0	14.3	11.5	8.6	5.0	3.5	241	4761	329	62.3	1377.9
JUN	71	6	655	11574	295	360	435	75	3.9	16.5	12.8	11.3	8.2	4.5	3.4	259	5014	323	62.9	1389.5
JUL	71	7	418	7643	305	366	432	66	4.6	16.0	12.1	11.3	7.9	4.3	3.6	264	5101	323	63.3	1397.1
AUG	71	8	316	6799	359	350	430	80	4.5	16.1	14.2	13.1	8.0	4.9	4.1	272	5311	325	63.7	1403.9
SEP	71	9	256	4841	315	345	429	84	3.8	16.1	12.9	12.0	6.8	3.6	3.6	278	5395	323	63.9	1408.8
OCT	71	10	142	2785	327	341	426	85	3.8	14.5	11.9	14.1	5.4	2.8	3.9	277	5359	322	64.1	1411.6
NOV	71	11	140	2772	330	336	424	88	3.8	16.6	13.2	13.2	5.8	3.0	3.8	277	5332	321	64.2	1414.3
DEC	71	12	145	2858	329	334	421	87	3.8	16.7	13.2	13.2	6.4	3.4	3.8	278	5348	321	64.3	1417.2
JAN	72	13	153	3000	327	334	421	87	3.8	16.7	13.1	13.1	6.5	3.3	3.7	279	5345	319	64.5	1420.2
FEB	72	14	126	2494	330	333	421	88	3.7	16.2	12.9	11.3	5.9	2.9	3.6	280	5360	319	64.6	1422.7
MAR	72	15	173	3433	331	331	420	89	3.7	15.2	12.2	11.4	5.7	3.0	3.7	275	5255	318	64.8	1426.1
APR	72	16	328	6151	313	339	426	87	3.6	14.5	11.4	11.3	7.2	4.0	3.5	276	5239	316	65.1	1432.3
MAY	72	17	514	8989	291	354	431	77	3.8	14.5	11.0	10.8	8.2	4.4	3.5	280	5278	314	65.6	1441.3
JUN	72	18	357	6052	283	357	431	74	3.8	13.9	10.1	10.5	6.4	3.3	3.1	256	4818	314	66.0	1447.3
JUL	72	19	303	5330	293	350	426	76	3.9	14.3	10.7	10.7	6.7	3.3	3.4	246	4625	313	66.3	1452.6
AUG	72	20	307	5402	293	347	422	75	3.9	13.9	10.5	10.8	6.7	3.4	3.3	245	4509	306	66.6	1458.0
SEP	72	21	163	2856	292	342	416	74	3.9	14.3	10.6	10.6	6.4	3.1	3.3	238	4343	305	66.8	1460.9
OCT	72	22	150	2505	278	339	415	76	3.7	12.7	8.9	10.1	5.2	2.4	3.2	238	4320	302	66.9	1463.4
NOV	72	23	144	2547	295	334	408	74	4.0	14.3	10.6	10.6	6.4	3.0	3.3	239	4301	300	67.1	1466.0
DEC	72	24	120	2109	293	334	411	77	3.8	14.3	10.6	10.6	5.6	2.6	3.3	236	4239	299	67.2	1468.1
JAN	73	25	132	2343	296	332	409	77	3.8	14.0	10.5	10.7	5.2	2.5	3.3	235	4184	297	67.3	1470.4
FEB	73	26	141	2436	288	332	407	75	3.8	14.3	10.4	10.3	6.3	3.0	3.2	236	4179	295	67.5	1472.8
MAR	73	27	126	2297	304	329	409	80	3.8	14.2	10.5	10.7	5.4	2.6	3.4	232	4085	293	67.6	1475.1
APR	73	28	184	3374	306	331	412	81	3.8	13.9	10.4	10.7	6.1	3.1	3.4	220	3853	292	67.8	1478.5
MAY	73	29	128	2288	298	333	413	80	3.7	7.0	5.1	10.7	3.2	1.6	3.4	188	3295	292	67.9	1480.8
JUN	73	30	522	8633	276	347	428	81	3.4	14.5	10.6	10.4	7.8	3.9	3.2	202	3510	290	68.4	1489.4
JUL	73	31	331	5205	262	361	434	73	3.6	14.3	9.9	9.9	6.7	3.0	3.1	204	3500	286	68.7	1494.6
AUG	73	32	420	6669	265	353	425	72	3.7	14.4	10.1	9.9	7.4	3.4	3.2	213	3605	282	69.2	1501.3
SEP	73	33	296	4747	267	356	429	73	3.7	15.4	10.8	10.0	7.3	3.5	3.3	224	3763	279	69.5	1506.1
OCT	73	34	237	3921	276	347	416	69	4.0	14.6	10.3	10.0	6.7	3.0	3.2	232	3881	279	69.7	1510.0
NOV	73	35	164	2740	278	338	419	81	3.4	15.0	11.0	10.2	6.5	2.8	3.4	233	3897	278	69.9	1512.7
DEC	73	36	162	2696	277	337	417	80	3.5	16.4	11.8	11.9	7.2	3.2	3.5	237	3946	278	70.0	1515.4

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL 3-4
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	55	714	216	377	487	110	2.0	6.3	3.2	7.6	2.6	.9	2.4	54	682	212	41.5	704.1
FEB	71	2	22	286	217	378	484	106	2.0	3.2	1.6	7.7	1.2	.4	2.5	55	692	211	41.6	704.4
MAR	71	3	32	408	213	378	489	111	1.9	2.4	1.2	7.6	1.0	.4	2.4	56	707	211	41.6	704.8
APR	71	4	93	1196	214	387	498	111	1.9	5.2	2.7	7.7	2.5	.9	2.4	61	775	210	41.7	706.0
MAY	71	5	346	4747	229	394	505	111	2.1	12.8	8.0	8.5	6.5	2.8	2.6	82	1055	214	42.0	710.7
JUN	71	6	324	3955	203	404	520	116	1.8	8.2	4.4	7.8	4.1	1.6	2.4	99	1255	211	42.4	714.7
JUL	71	7	175	1940	185	405	517	112	1.6	6.7	3.1	6.9	3.3	1.1	2.2	98	1235	210	42.5	716.6
AUG	71	8	125	1622	216	397	518	121	1.8	6.4	3.4	7.9	3.2	1.2	2.5	103	1302	211	42.7	718.2
SEP	71	9	60	762	212	392	512	120	1.8	3.8	2.0	8.1	1.6	.6	2.5	105	1332	211	42.7	719.0
OCT	71	10	121	1568	216	389	506	117	1.8	12.4	6.7	9.3	4.6	1.6	2.6	114	1454	212	42.8	720.6
NOV	71	11	142	1892	222	384	505	121	1.8	16.9	9.0	8.9	5.9	2.1	2.6	126	1612	213	43.0	722.4
DEC	71	12	145	1915	220	380	499	119	1.8	16.7	8.9	8.8	6.4	2.3	2.5	137	1750	213	43.1	724.4
JAN	72	13	153	2003	218	380	499	119	1.8	16.7	8.7	8.7	6.5	2.2	2.5	145	1858	214	43.3	726.4
FEB	72	14	121	1553	214	380	500	120	1.8	15.6	8.0	7.3	5.7	1.8	2.3	153	1963	214	43.4	727.9
MAR	72	15	166	2150	216	378	496	118	1.8	14.6	7.6	7.5	5.5	1.9	2.4	164	2109	214	43.6	730.1
APR	72	16	328	3485	177	390	504	114	1.6	14.5	6.5	6.4	7.2	2.3	2.0	184	2299	208	43.9	733.6
MAY	72	17	513	5618	183	404	517	113	1.6	14.5	6.9	6.8	8.2	2.8	2.2	198	2372	200	44.4	739.2
JUN	72	18	346	3962	191	404	515	111	1.7	13.4	6.6	7.1	6.2	2.2	2.1	200	2372	198	44.8	743.1
JUL	72	19	303	3480	191	405	512	107	1.8	14.3	7.0	7.0	6.7	2.2	2.2	210	2501	198	45.1	746.6
AUG	72	20	319	3742	196	401	507	106	1.8	14.4	7.2	7.2	7.0	2.4	2.2	226	2677	197	45.4	750.4
SEP	72	21	163	1919	196	401	504	103	1.9	14.3	7.1	7.1	6.4	2.1	2.2	235	2774	197	45.5	752.3
OCT	72	22	164	1964	200	389	500	111	1.8	13.9	7.0	7.2	5.7	1.9	2.3	239	2807	196	45.7	754.2
NOV	72	23	144	1884	218	382	514	132	1.7	14.3	7.8	7.8	6.4	2.2	2.4	239	2806	196	45.8	756.1
DEC	72	24	120	1558	216	384	510	126	1.7	14.3	7.8	7.8	5.6	1.9	2.4	237	2776	196	46.0	757.7
JAN	73	25	132	1726	218	380	509	129	1.7	14.0	7.7	7.9	5.2	1.8	2.4	235	2753	195	46.1	759.4
FEB	73	26	141	1892	224	380	512	132	1.7	14.3	8.0	8.0	6.3	2.3	2.5	237	2782	196	46.2	761.3
MAR	73	27	126	1670	221	380	517	137	1.6	14.2	7.7	7.8	5.4	1.9	2.4	233	2742	196	46.4	763.0
APR	73	28	188	2504	222	381	515	134	1.7	14.2	7.7	7.8	6.3	2.3	2.5	222	2660	200	46.6	765.5
MAY	73	29	288	3622	210	384	511	127	1.7	15.7	8.1	7.5	7.2	2.5	2.4	203	2494	205	46.8	769.1
JUN	73	30	509	6191	203	400	520	120	1.7	14.2	7.6	7.6	7.6	2.8	2.4	216	2679	206	47.4	775.3
JUL	73	31	331	4055	204	407	538	131	1.6	14.3	7.7	7.7	6.7	2.3	2.4	219	2727	208	47.7	779.3
AUG	73	32	410	4944	201	406	502	126	1.6	14.1	7.5	7.6	7.2	2.5	2.5	226	2827	208	48.1	784.3
SEP	73	33	297	3603	202	405	528	123	1.6	15.5	8.2	7.6	7.3	2.6	2.5	238	2968	208	48.4	787.9
OCT	73	34	234	2801	200	397	518	121	1.6	14.5	7.4	7.3	6.6	2.1	2.3	243	3037	208	48.6	790.7
NOV	73	35	182	1945	178	390	519	129	1.4	16.7	7.8	6.5	7.2	2.0	2.1	246	3043	206	48.8	792.6
DEC	73	36	168	2239	222	390	534	144	1.5	17.0	9.8	9.6	7.5	2.7	2.8	250	3099	206	49.0	794.9

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL G-5
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	143	4748	553	450	518	68	8.1	16.3	21.3	19.3	6.8	5.8	6.0	229	7370	536	55.6	1805.3
FEB	71	2	110	3633	550	449	516	67	8.2	16.1	20.7	19.5	6.1	4.9	6.4	225	7253	536	55.7	1808.9
MAR	71	3	231	7529	543	451	519	68	8.0	17.1	21.9	19.5	7.4	6.6	6.0	232	7474	537	55.9	1816.5
APR	71	4	313	10357	551	458	525	67	8.2	17.6	23.1	19.8	8.3	7.8	6.2	237	7684	539	56.2	1826.8
MAY	71	5	37	1170	527	460	531	71	7.4	1.4	2.0	19.6	.7	.7	6.0	207	6741	542	56.3	1828.0
JUN	71	6	453	14360	528	466	537	71	7.4	11.4	15.9	20.3	5.7	5.6	6.2	207	6725	542	56.7	1842.4
JUL	71	7	369	14344	648	463	538	75	8.6	14.1	22.7	24.1	7.0	8.0	7.5	207	6954	560	57.1	1856.7
AUG	71	8	313	10256	546	442	517	75	7.3	16.0	21.5	20.0	7.9	7.4	6.2	215	7218	560	57.4	1867.0
SEP	71	9	265	8200	516	435	511	76	6.8	16.6	21.8	19.7	7.0	6.1	6.0	222	7400	556	57.7	1875.2
OCT	71	10	142	4578	537	445	516	71	7.6	14.5	19.6	23.2	5.4	4.7	6.3	221	7346	555	57.8	1879.7
NOV	71	11	139	4533	544	444	512	68	8.0	16.5	21.6	21.8	5.8	4.9	6.3	220	7318	555	57.9	1884.3
DEC	71	12	142	4642	545	443	511	68	8.0	16.4	21.5	21.8	6.3	5.5	6.3	221	7362	554	58.1	1888.9
JAN	72	13	153	4951	539	441	512	71	7.6	16.7	21.6	21.6	6.5	5.4	6.2	222	7379	553	58.2	1893.9
FEB	72	14	124	4039	543	442	512	70	7.8	16.0	20.9	18.5	5.8	4.8	5.9	223	7413	553	58.4	1897.9
MAR	72	15	172	5520	535	440	511	71	7.5	15.1	19.6	18.5	5.7	4.8	5.9	218	7246	553	58.5	1903.4
APR	72	16	328	10495	533	439	515	76	7.0	14.5	19.5	19.2	7.2	6.8	6.0	220	7257	550	58.9	1913.9
MAY	72	17	522	16145	515	448	515	67	7.7	14.7	19.7	19.1	8.3	7.9	6.3	260	8505	545	59.4	1930.1
JUN	72	18	378	11855	523	444	517	73	7.2	14.7	19.7	19.4	6.8	6.5	5.7	254	8296	545	59.8	1941.9
JUL	72	19	303	9655	531	439	516	77	6.9	14.3	19.5	19.5	6.7	6.0	6.1	248	7906	530	60.1	1951.6
AUG	72	20	319	10111	528	446	517	71	7.4	14.4	19.6	19.4	7.0	6.4	6.0	249	7894	529	60.4	1961.7
SEP	72	21	163	5255	537	443	515	72	7.5	14.3	19.5	19.5	6.4	5.6	6.1	240	7648	530	60.5	1966.9
OCT	72	22	174	5678	544	441	516	75	7.3	14.7	20.1	19.7	6.1	5.5	6.2	243	7740	531	60.7	1972.6
NOV	72	23	146	4754	543	437	514	77	7.0	14.5	19.7	19.5	6.5	5.6	6.1	244	7758	531	60.9	1977.4
DEC	72	24	120	3929	546	437	510	73	7.5	14.3	19.7	19.7	5.6	4.9	6.1	242	7699	531	61.0	1981.3
JAN	73	25	132	4313	545	437	506	69	7.9	14.0	19.3	19.7	5.2	4.5	6.1	240	7646	531	61.1	1985.6
FEB	73	26	141	4614	545	437	504	67	8.1	14.3	19.6	19.6	6.3	5.6	6.1	241	7694	531	61.3	1990.2
MAR	73	27	132	4406	556	437	508	71	7.8	14.8	20.2	19.5	5.4	4.9	6.2	238	7601	532	61.4	1994.6
APR	73	28	188	6264	555	436	509	73	7.6	14.2	19.3	19.5	6.3	5.8	6.2	226	7248	533	61.6	2000.9
MAY	73	29	289	9368	540	439	514	75	7.2	15.7	20.9	19.4	7.2	6.4	6.1	207	6683	538	61.9	2010.3
JUN	73	30	514	16282	528	452	526	74	7.1	14.3	19.9	19.9	7.6	7.3	6.1	218	7052	538	62.4	2026.5
JUL	73	31	331	10617	535	453	530	77	6.9	14.3	20.2	20.2	6.7	6.1	6.3	221	7133	539	62.7	2037.2
AUG	73	32	418	13460	537	451	524	73	7.4	14.4	20.3	20.2	7.4	6.8	6.6	229	7412	539	63.1	2050.6
SEP	73	33	296	9568	539	451	527	76	7.1	15.4	21.9	20.1	7.3	7.0	6.6	240	7771	539	63.4	2060.2
OCT	73	34	233	7627	546	446	517	71	7.7	14.4	20.1	19.9	6.6	5.8	6.3	245	7933	540	63.7	2067.8
NOV	73	35	163	5388	551	444	511	67	8.2	14.9	21.7	20.2	6.4	5.6	6.6	246	7986	540	63.8	2073.2
DEC	73	36	166	5548	557	443	507	64	8.7	16.8	24.2	24.0	7.4	6.6	7.0	250	8121	541	64.0	2078.7

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL 3-6
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	143	2509	292	562	625	63	4.6	16.3	11.3	10.2	6.8	3.1	3.2	230	4215	305	19.7	435.3
FEB	71	2	110	1895	287	562	620	58	5.0	16.1	10.8	10.2	6.1	2.6	3.3	225	4098	303	19.8	437.2
MAR	71	3	231	3885	280	564	627	63	4.4	17.1	11.3	10.1	7.4	3.4	3.1	232	4173	300	20.0	441.1
APR	71	4	326	5372	275	573	630	57	4.8	18.3	12.0	9.9	8.6	4.0	3.1	238	4231	296	20.4	446.4
MAY	71	5	462	7265	262	580	635	55	4.8	17.1	12.2	9.8	8.7	4.3	3.0	244	4227	289	20.8	453.7
JUN	71	6	592	8420	237	589	644	55	4.3	14.9	9.3	9.1	7.5	3.3	2.8	255	4234	277	21.4	462.1
JUL	71	7	362	4565	210	590	642	52	4.0	13.8	7.2	7.8	6.9	2.6	2.4	255	4074	266	21.8	466.7
AUG	71	8	308	4068	220	582	631	49	4.5	15.7	8.5	8.1	7.8	2.9	2.5	263	4073	259	22.1	470.7
SEP	71	9	257	3052	198	577	623	46	4.3	16.1	8.1	7.6	6.8	2.3	2.3	269	4052	251	22.3	473.8
OCT	71	10	141	1789	211	571	617	46	4.6	14.4	7.6	9.1	5.4	1.8	2.5	268	3973	247	22.5	475.6
NOV	71	11	-0	-0	0	566	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	255	3755	245	22.5	475.6
DEC	71	12	-0	-0	0	562	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	244	3568	243	22.5	475.6
JAN	72	13	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	232	3359	241	22.5	475.6
FEB	72	14	29	784	451	564	647	83	5.4	3.7	4.0	15.4	1.4	.9	4.9	226	3267	241	22.5	475.4
MAR	72	15	108	2840	438	562	665	103	4.3	9.5	10.1	15.2	3.6	2.5	4.9	215	3180	246	22.6	479.2
APR	72	16	298	7254	406	575	675	100	4.1	13.2	13.5	14.6	6.6	4.7	4.6	213	3336	261	22.9	486.5
MAY	72	17	494	11152	376	594	686	92	4.1	13.9	13.6	13.9	7.9	5.5	4.6	216	3660	283	23.4	497.6
JUN	72	18	364	8005	367	587	679	92	4.0	14.1	13.3	13.6	6.6	4.4	4.0	197	3626	307	23.8	505.6
JUL	72	19	303	6612	364	590	681	91	4.0	14.3	13.3	13.3	6.7	4.1	4.2	192	3796	330	24.1	512.2
AUG	72	20	319	7021	367	586	677	91	4.0	14.4	13.6	13.4	7.0	4.5	4.2	193	4042	350	24.4	519.3
SEP	72	21	163	3588	367	578	673	95	3.9	14.3	13.3	13.3	6.4	3.8	4.2	185	4087	368	24.6	522.8
OCT	72	22	174	3858	370	574	665	91	4.1	14.7	13.7	13.4	6.1	3.8	4.2	188	4259	378	24.7	526.7
NOV	72	23	144	3201	370	571	657	86	4.3	14.3	13.3	13.3	6.4	3.8	4.1	200	4526	378	24.9	529.9
DEC	72	24	120	2676	372	571	660	89	4.2	14.3	13.4	13.4	5.6	3.3	4.2	210	4749	378	25.0	532.6
JAN	73	25	132	2708	342	567	654	87	3.9	14.0	12.1	12.4	5.2	2.9	3.8	221	4975	376	25.1	535.3
FEB	73	26	141	3056	361	567	649	82	4.4	14.3	13.0	13.0	6.3	3.7	4.0	230	5164	374	25.3	538.3
MAR	73	27	126	2873	380	569	657	88	4.3	14.2	13.2	13.3	5.4	3.2	4.2	231	5167	372	25.4	541.2
APR	73	28	188	4273	379	569	662	93	4.1	14.2	13.2	13.3	6.3	3.9	4.2	222	4919	369	25.6	545.5
MAY	73	29	288	6210	359	573	664	91	3.9	15.7	13.8	12.9	7.2	4.3	4.1	205	4507	366	25.9	551.7
JUN	73	30	508	10720	352	592	681	89	4.0	14.1	13.1	13.3	7.6	4.8	4.1	217	4733	363	26.4	562.4
JUL	73	31	332	7173	360	598	683	85	4.2	14.3	13.7	13.6	6.7	4.1	4.2	220	4780	363	26.7	569.6
AUG	73	32	419	9063	361	592	677	85	4.2	14.4	13.7	13.5	7.4	4.6	4.4	228	4950	362	27.1	578.7
SEP	73	33	296	6487	365	591	681	90	4.1	15.4	14.8	13.6	7.3	4.8	4.5	239	5191	362	27.4	585.1
OCT	73	34	232	5178	372	581	671	90	4.1	14.3	13.6	13.6	6.6	3.9	4.3	244	5301	362	27.7	590.3
NOV	73	35	163	3703	379	577	668	91	4.2	14.9	14.9	13.9	6.4	3.8	4.6	245	5343	363	27.8	594.0
DEC	73	36	166	3844	386	577	660	83	4.6	16.8	16.8	16.6	7.4	4.6	4.9	249	5441	364	28.0	597.9

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL PM-1
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP		GPM/	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	110	4438	672	729	764	35	19.2	20.5	11.3	19.8	5.2	5.4	7.3	158	5884	622	13.4	491.3
FEB	71	2	191	7656	668	731	768	37	18.1	32.2	18.9	19.6	10.5	10.4	7.8	173	6522	627	13.6	498.9
MAR	71	3	280	9847	586	731	765	34	17.2	35.7	10.2	17.7	9.0	8.7	6.5	197	7337	622	13.9	508.8
APR	71	4	199	7040	590	732	765	33	17.9	26.3	13.3	17.9	5.3	5.3	6.6	192	7101	616	14.1	515.8
MAY	71	5	242	8352	575	735	764	29	19.8	27.0	13.5	17.5	4.6	4.9	6.6	197	7176	608	14.3	524.2
JUN	71	6	352	13143	622	735	766	31	20.1	27.1	14.7	18.7	4.4	5.2	7.3	199	7315	612	14.7	537.3
JUL	71	7	346	12657	610	738	771	33	18.5	31.6	17.3	18.6	6.6	7.1	7.1	201	7427	615	15.0	550.0
AUG	71	8	256	9469	616	735	766	31	19.9	29.9	16.2	18.6	6.5	6.8	7.0	222	8214	615	15.3	559.4
SEP	71	9	271	10001	615	738	767	29	21.2	30.8	16.9	18.7	7.2	7.5	7.1	229	8478	616	15.5	569.4
OCT	71	10	178	7037	659	733	765	32	20.6	26.6	14.8	19.6	6.8	7.1	7.8	232	8622	620	15.7	576.5
NOV	71	11	147	5601	635	733	766	33	19.2	23.7	12.5	19.0	6.1	6.1	7.3	232	8646	621	15.9	582.1
DEC	71	12	156	5769	616	732	765	33	18.7	28.2	15.1	18.5	6.9	6.9	7.1	227	8417	617	16.0	587.8
JAN	72	13	131	5467	696	730	765	35	19.9	21.2	12.0	20.4	5.6	6.0	8.0	229	8503	619	16.1	593.3
FEB	72	14	134	5600	697	731	765	34	20.5	22.3	12.7	20.4	6.3	6.6	7.6	224	8332	619	16.3	598.9
MAR	72	15	151	6170	681	728	764	36	18.9	19.8	11.0	20.2	5.0	5.3	7.5	214	8025	626	16.4	605.1
APR	72	16	250	8590	573	734	763	29	19.7	27.9	14.0	17.5	5.5	5.6	6.5	218	8155	624	16.7	613.7
MAY	72	17	389	13568	581	738	765	27	21.5	32.6	17.3	17.7	6.2	6.7	7.1	230	8589	622	17.1	627.2
JUN	72	18	336	11628	577	736	767	31	18.6	32.3	16.9	17.6	6.1	6.4	6.3	229	8463	617	17.4	638.9
JUL	72	19	267	9256	578	738	767	29	19.9	25.4	12.6	17.6	5.9	5.8	6.6	222	8180	614	17.7	648.1
AUG	72	20	270	9199	568	741	764	23	24.7	27.6	13.7	17.4	5.9	5.9	6.5	223	8157	609	17.9	657.3
SEP	72	21	122	3972	543	737	757	20	27.1	20.2	9.1	16.7	4.8	4.3	6.2	211	7655	605	18.1	661.3
OCT	72	22	146	4398	502	737	757	20	25.1	23.1	9.9	15.6	5.1	4.3	5.7	208	7435	595	18.2	665.7
NOV	72	23	110	3797	575	735	757	22	26.2	19.6	9.3	17.5	4.9	4.5	6.4	205	7284	592	18.3	669.5
DEC	72	24	109	3294	504	735	758	23	21.9	20.5	8.6	15.6	5.1	4.1	5.6	201	7078	586	18.4	672.8
JAN	73	25	123	4273	579	735	758	23	25.2	20.6	9.9	17.5	4.8	4.5	6.5	201	6979	580	18.6	677.1
FEB	73	26	104	3595	576	735	758	23	25.0	20.1	9.6	17.5	4.7	4.4	6.4	198	6812	573	18.7	680.6
MAR	73	27	120	4146	576	735	758	23	25.0	20.9	10.0	17.5	5.1	4.7	6.4	195	6643	566	18.8	684.8
APR	73	28	94	2862	507	735	754	19	26.7	15.0	6.2	15.8	3.1	2.6	5.7	182	6166	563	18.9	687.7
MAY	73	29	164	4526	460	734	749	15	30.7	18.5	7.1	14.5	4.1	3.1	5.2	164	5412	551	19.0	692.2
JUN	73	30	270	7177	443	737	755	18	24.6	21.8	8.4	14.1	4.0	3.2	5.2	158	5041	531	19.3	699.4
JUL	73	31	165	4248	429	737	754	17	25.2	15.5	5.5	13.7	3.3	2.4	5.0	150	4624	515	19.5	703.6
AUG	73	32	198	4922	414	735	753	18	23.0	16.4	5.7	13.3	3.5	2.5	5.1	144	4267	495	19.7	708.5
SEP	73	33	393	9557	405	740	755	15	27.0	39.5	16.3	13.1	9.6	7.0	4.9	166	4733	474	20.1	718.1
OCT	73	34	57	1242	363	739	756	17	21.4	7.3	2.1	11.8	1.6	.9	4.2	159	4470	469	20.1	719.3
NOV	73	35	-0	-0	0	-0	-0.	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150	4153	462	20.1	719.3
DEC	73	36	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141	3879	460	20.1	719.3

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL PM-2
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	210	17888	1420	838	895	57	24.9	39.1	45.4	41.7	10.0	21.8	15.4	294	25048	1420	15.5	1315.6
FEB	71	2	191	16311	1423	837	895	58	24.5	32.2	40.2	41.8	10.5	22.2	16.5	293	24993	1420	15.7	1331.9
MAR	71	3	311	26415	1416	839	896	57	24.8	39.7	51.4	42.8	10.0	23.3	15.7	301	25659	1420	16.0	1358.3
APR	71	4	353	29811	1408	842	896	54	26.1	46.6	56.5	42.8	9.3	22.3	15.8	311	26455	1419	16.3	1388.1
MAY	71	5	371	31354	1409	842	898	56	25.2	41.4	50.8	42.9	7.0	18.6	16.1	312	25512	1418	16.7	1419.5
JUN	71	6	460	38806	1406	844	899	55	25.6	35.4	43.3	42.3	5.8	15.2	16.4	316	26872	1416	17.2	1458.3
JUL	71	7	452	37564	1385	844	902	58	23.9	41.3	51.4	42.2	8.6	21.0	16.1	321	27189	1412	17.6	1495.8
AUG	71	8	393	32877	1394	842	900	58	24.0	45.9	56.1	42.0	9.9	23.6	15.8	322	27220	1409	18.0	1528.7
SEP	71	9	366	30543	1391	842	901	59	23.6	41.6	51.6	42.2	9.7	22.8	16.1	325	27431	1406	18.4	1559.3
OCT	71	10	363	30466	1399	842	900	58	24.1	54.3	64.2	41.7	13.8	31.0	16.5	330	27789	1405	18.7	1589.7
NOV	71	11	349	29333	1401	842	900	58	24.2	56.3	65.6	41.9	14.5	31.8	16.1	336	28287	1403	19.1	1619.1
DEC	71	12	216	18163	1401	841	899	58	24.2	39.0	47.4	42.1	9.6	21.7	16.2	336	28294	1402	19.3	1637.2
JAN	72	13	350	29398	1400	843	900	57	24.6	56.5	64.3	41.1	14.9	32.1	16.0	348	29253	1401	19.6	1666.6
FEB	72	14	331	27835	1402	841	900	59	23.8	55.0	62.9	41.0	15.5	32.9	15.3	360	30214	1400	20.0	1694.5
MAR	72	15	386	32393	1399	844	902	58	24.1	50.5	57.8	41.6	12.8	28.1	15.5	366	30712	1399	20.4	1726.9
APR	72	16	404	33755	1393	844	902	58	24.0	45.1	54.9	42.5	8.9	22.0	15.7	370	31041	1398	20.8	1760.6
MAY	72	17	397	33189	1393	844	902	58	24.0	33.3	42.3	42.5	6.3	16.3	16.9	372	31193	1397	21.2	1793.8
JUN	72	18	404	33654	1388	844	902	58	23.9	38.8	48.9	42.5	7.3	18.4	15.1	368	30764	1395	21.6	1827.5
JUL	72	19	544	45435	1392	847	902	55	25.3	51.8	61.8	42.5	12.0	28.4	15.9	375	31420	1396	22.1	1872.9
AUG	72	20	438	36456	1387	847	905	58	23.9	44.7	54.3	42.4	9.6	23.2	15.8	379	31718	1395	22.5	1909.3
SEP	72	21	360	30049	1391	845	903	58	24.0	59.6	68.9	42.9	14.1	32.2	15.8	378	31677	1395	22.9	1939.4
OCT	72	22	339	28344	1394	844	902	58	24.0	53.7	63.9	43.3	11.9	27.6	15.8	376	31500	1394	23.2	1967.7
NOV	72	23	332	27692	1390	847	902	55	25.3	59.3	67.8	42.3	14.9	32.9	15.5	375	31364	1394	23.6	1995.4
DEC	72	24	326	27087	1385	848	906	58	23.9	61.3	71.0	43.0	15.2	33.5	15.5	384	32107	1393	23.9	2022.5
JAN	73	25	325	27097	1390	847	904	57	24.4	54.5	62.7	42.1	12.7	28.5	15.5	382	31915	1392	24.2	2049.6
FEB	73	26	277	23170	1394	847	904	57	24.5	53.6	61.7	42.4	12.4	28.1	15.5	378	31527	1391	24.5	2072.8
MAR	73	27	325	27198	1395	848	904	56	24.9	56.6	65.5	42.4	13.8	30.6	15.4	373	31094	1391	24.8	2100.0
APR	73	28	334	27862	1390	847	904	57	24.4	53.4	60.0	43.2	11.1	25.6	15.5	367	30603	1391	25.2	2127.8
MAY	73	29	356	29829	1396	848	905	57	24.5	40.2	47.1	43.9	8.9	20.5	15.8	363	30323	1391	25.5	2157.7
JUN	73	30	476	39602	1387	849	907	56	23.9	38.5	46.2	44.0	7.1	17.8	16.1	369	30818	1391	26.0	2197.3
JUL	73	31	484	40146	1382	850	909	59	23.4	45.6	52.1	44.1	9.7	22.9	16.2	364	30378	1390	26.5	2237.4
AUG	73	32	494	40974	1382	851	910	59	23.4	40.9	47.2	44.4	8.7	20.7	16.9	369	30754	1389	27.0	2278.4
SEP	73	33	385	32012	1386	851	909	58	23.9	38.7	54.6	44.7	9.4	23.5	16.9	371	30918	1389	27.4	2310.4
OCT	73	34	440	36560	1385	850	909	59	23.5	56.3	60.6	45.1	12.5	27.8	16.0	379	31602	1388	27.8	2347.0
NOV	73	35	369	30632	1384	849	909	60	23.1	65.3	66.5	51.3	14.5	31.7	16.7	383	31847	1387	28.2	2377.6
DEC	73	36	306	25469	1387	850	909	59	23.5	65.4	66.6	51.4	13.6	30.2	17.5	381	31713	1388	28.5	2403.1

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL PM-3
FOR LAST THREE YEARS

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
						NON PUMP	PUMP			PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	71	1	217	17045	1309	750	773	23	56.9	40.4	43.3	38.5	10.3	20.7	14.2	242	19002	1306	8.7	686.9
FEB	71	2	211	16605	1312	750	773	23	57.0	35.6	40.9	38.5	11.6	22.6	15.2	243	19070	1306	8.9	703.5
MAR	71	3	193	15099	1304	750	774	24	54.3	24.6	29.4	39.4	6.2	13.3	14.5	238	18672	1305	9.1	718.6
APR	71	4	205	15884	1291	751	773	22	58.7	27.1	30.1	39.3	5.4	11.9	14.5	236	18442	1304	9.3	734.5
MAY	71	5	283	22062	1299	751	774	23	56.5	31.6	35.7	39.6	5.3	13.1	14.9	227	17704	1302	9.6	756.6
JUN	71	6	486	37669	1292	753	775	22	58.7	37.4	42.0	38.9	6.1	14.8	15.1	237	18476	1302	10.1	794.3
JUL	71	7	296	22881	1288	753	776	23	56.0	27.1	31.3	39.2	5.6	12.8	15.0	241	18844	1301	10.4	817.1
AUG	71	8	207	16264	1310	750	776	26	50.4	24.2	27.7	39.4	5.2	11.7	14.8	229	17902	1301	10.6	833.4
SEP	71	9	242	18688	1287	751	776	25	51.5	27.5	31.6	39.1	6.4	14.0	14.9	234	18227	1300	10.8	852.1
OCT	71	10	128	9984	1300	750	773	23	56.5	19.1	21.0	38.7	4.9	10.1	15.4	236	18383	1299	10.9	862.1
NOV	71	11	124	9753	1311	750	773	23	57.0	20.0	21.8	39.2	5.2	10.6	15.1	234	18221	1299	11.1	871.8
DEC	71	12	182	14347	1314	750	773	23	57.1	32.9	37.5	39.4	8.0	17.1	15.2	231	18025	1300	11.2	886.2
JAN	72	13	138	10847	1310	750	773	23	57.0	22.3	23.7	38.5	5.9	11.9	15.0	225	17509	1299	11.4	897.0
FEB	72	14	137	10825	1317	750	773	23	57.3	22.8	24.5	38.6	6.4	12.8	14.4	218	17027	1299	11.5	907.9
MAR	72	15	227	17500	1285	751	774	23	55.9	29.7	31.2	38.2	7.5	15.2	14.2	221	17227	1298	11.7	925.4
APR	72	16	242	19088	1315	751	775	24	54.8	27.0	31.1	40.1	5.3	12.4	14.9	224	17494	1300	12.0	944.4
MAY	72	17	406	31749	1303	753	777	24	54.3	34.1	40.4	39.8	6.5	15.6	15.8	235	18301	1300	12.4	976.2
JUN	72	18	300	23483	1305	753	776	23	56.7	28.8	34.1	39.9	5.4	12.8	14.2	219	17117	1302	12.7	999.7
JUL	72	19	240	18851	1309	753	776	23	56.9	22.8	25.6	39.9	5.3	11.8	15.0	214	16782	1304	12.9	1018.5
AUG	72	20	272	21491	1317	753	776	23	57.3	27.8	32.0	40.2	6.0	13.7	15.0	220	17217	1305	13.2	1040.0
SEP	72	21	122	9564	1309	753	774	21	62.3	20.2	22.0	40.4	4.8	10.3	14.9	210	16458	1307	13.3	1049.6
OCT	72	22	146	11585	1322	753	775	22	60.1	23.1	26.1	41.1	5.1	11.3	15.0	211	16592	1309	13.5	1061.2
NOV	72	23	118	9338	1319	753	773	20	65.9	21.1	22.9	40.2	5.3	11.1	14.7	211	16557	1309	13.6	1070.5
DEC	72	24	97	7754	1332	753	774	21	63.4	18.2	20.3	41.4	4.5	9.6	14.9	204	16008	1309	13.7	1078.3
JAN	73	25	148	11835	1333	753	776	23	57.9	24.8	27.4	40.4	5.8	12.5	14.9	205	16090	1311	13.8	1090.1
FEB	73	26	136	10766	1319	753	776	23	57.4	26.3	28.7	40.1	6.1	13.1	14.7	204	16085	1311	14.0	1100.9
MAR	73	27	129	10201	1318	753	776	23	57.3	22.5	24.6	40.1	5.5	11.5	14.6	196	15477	1314	14.1	1111.1
APR	73	28	198	15706	1322	753	776	23	57.5	31.6	33.8	41.1	6.6	14.4	14.8	193	15195	1314	14.3	1126.8
MAY	73	29	365	28967	1323	755	778	23	57.5	41.2	45.7	41.6	9.1	19.9	15.0	189	14963	1318	14.7	1155.7
JUN	73	30	491	38901	1320	755	780	25	52.8	39.7	45.4	41.9	7.3	17.5	15.4	205	16248	1320	15.2	1194.6
JUL	73	31	413	32713	1320	756	780	24	55.0	38.9	42.4	42.2	8.3	18.7	15.5	220	17403	1321	15.6	1227.4
AUG	73	32	516	40874	1320	756	781	25	52.8	42.7	47.1	42.4	9.1	20.6	16.1	240	19019	1321	16.1	1268.2
SEP	73	33	217	17087	1312	756	779	23	57.1	21.8	29.1	42.3	5.3	12.5	16.0	248	19644	1321	16.3	1285.3
OCT	73	34	285	22577	1320	755	780	25	52.8	36.4	37.4	43.0	8.1	17.1	15.3	259	20560	1321	16.6	1307.9
NOV	73	35	196	15459	1315	755	778	23	57.2	34.7	33.5	48.7	7.7	16.0	15.8	266	21070	1321	16.8	1323.4
DEC	73	36	162	12758	1313	755	778	23	57.1	34.6	33.4	48.6	7.2	15.1	16.6	271	21487	1320	16.9	1336.1

KT:354(120)

☆ US GOVERNMENT PRINTING OFFICE: 1974 — 784-530/57