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Water Supply at Los Alamos During 1971

by

William D. Purtymun
Joseph E. Herceg

In cooperation with the Los Alamos Office of The US Atomic Energy Commission and the Utilities and Engineering Division of The Zia Company.

WATER SUPPLY AT LOS ALAMOS DURING 1971

by

William D. Purtymun and Joseph E. Herceg

ABSTRACT

Total production from the 16 wells in 3 well fields in 1971 was 1,553 million gal. An additional 37 million gal were added to the water supply from a gallery in Water Canyon. Water-level trends in the well fields are as anticipated. Limited pumpage in the Los Alamos and Guaje well fields has slowed or reversed water-level declines in most wells and will thus prolong their lives.

The pumping rate at well LA-2 declined owing to increased production. The pumping rate at well G-6 declined owing to pump wear and subsequent failure. The pump at G-6 was replaced in March. The pumping rate at well G-4 is held to about 200 gpm because of casing deterioration and entry into the well of part of the gravel pack. The well cannot be repaired but must be replaced.

An additional new well in the Pajarito well field is necessary to provide adequate supply during periods of peak demand and to meet increasing water needs.

Monthly pumping and production data for each of the 16 wells for 1969, 1970, and 1971 are included in the report.

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 at Los Alamos. A gallery in Water Canyon which makes an appreciable and valuable contribution to the Los Alamos water supply is also discussed briefly. The Appendix contains monthly pumping and production statistics for supply wells for 1969, 1970, and 1971 (included as basic data).

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 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 joint purpose of the U/E Division and H-8 is to ensure reliable and continuing historical records, provide guidance for management of water resources and facilities, and provide for long-range planning of the water-supply system.

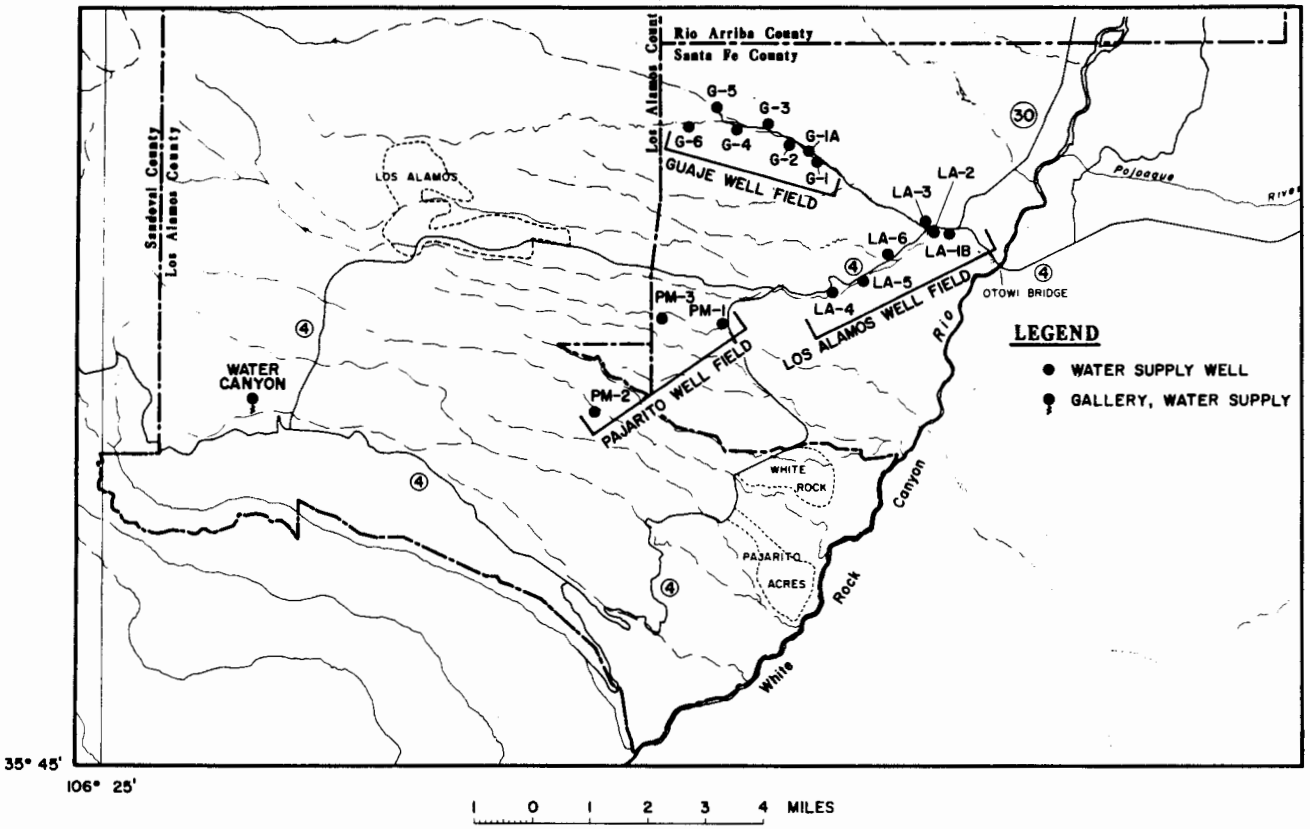

Fig. 1. Location of well fields, supply wells, and spring water supply.

Pump-operating time and pumpage are taken from monthly operating reports. Monthly average nonpumping and pumping water levels are computed from airline recorders operated on each well. This data is input information for a computer program that calculates pumping rates in gallons per minute (gpm), drawdown (difference between monthly average nonpumping and pumping water levels), specific capacity in gpm/ft (gallons per minute per foot of drawdown), and other parameters of interest.

Hydrographs have been prepared for 1 observation well and 16 supply wells for inclusion in this report. They show monthly average nonpumping and pumping water levels (a measure of water-level trends with pumpage), specific capacity (a measure of well conditions) and the monthly and yearly pumpage.

II. WELL-FIELD CHARACTERISTICS

Production during 1971 was from six wells in the Los Alamos field, seven in the Guaje field, and three in the Pajarito field (Fig. 1). Pumpage from the three fields increased by 176 million gal, from 1,377 million gal in 1970 to 1,553 million gal in 1971 (Table I). Total pumpage from the three well fields since 1947 has been 23,673 million gal. Production for individual wells is shown in Table II.

The average yearly pumping rate for the three well fields decreased about 187 gpm, from 8,983 gpm in 1970 to 8,796 gpm in 1971 (Table III). The maximum average pumping rate was 9,139 gpm in 1968.

The heaviest demand for water occurs in May, June, and July. With summer rains, the demand decreases. November, December, January, and February are the months of least pumpage. It

TABLE I

TOTAL PUMPAGE BY FIELD BY YEAR
IN MILLIONS OF GALLONS

YEAR	LOS ALAMOS CANYON			GLAJE CANYON			PAJARITO MESA			ALL FIELDS	
	PUMPAGE	PERCENT	CUMULATIVE	PUMPAGE	PERCENT	CUMULATIVE	PUMPAGE	PERCENT	CUMULATIVE	PUMPAGE	CUMULATIVE
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

is quite evident that the increased demand during the spring and summer is used for irrigation. The result is that the highest water levels in the well fields occur when pumpage is least during winter, and the lowest levels occur during the spring and summer when pumpage is greatest.

Tables IV and V present percent of total pumpage and percent of field pumpage, respectively, by well by year.

A. Los Alamos Well Field

Pumpage from the Los Alamos well field increased 52 million gal, from 360 million gal in 1970 to 412 million gal in 1971. The six wells in the field produced about 26.5% of the total pumpage.

Well LA-1 is used as an observation well to monitor water-level trends in the lower part of the Los Alamos well field. The well is located about 150 ft southeast of LA-1B. Water-level trends in well LA-1 therefore reflect pumpage from the nearby LA-1B (Fig. 2).

Pumpage from well LA-1B was 9 million gal greater, and water levels were slightly lower

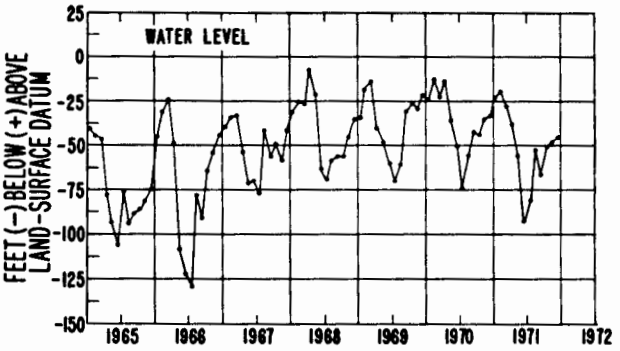

Fig. 2. Monthly average daily high water level, Los Alamos Canyon well, LA-1

in 1971 than in 1970. The overall trend since 1965 has been a slight water-level recovery (Fig. 3).

Pumpage from well LA-2 was 25 million gal greater in 1971 than in 1970. Owing to this increased pumpage, water levels were slightly lower in 1971. No significant changes in water-level trends have occurred since 1965 (Fig. 4).

Pumpage from well LA-3 was about 1 million gal greater, and water levels were slightly lower in 1971 than in 1970. No significant changes

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	30	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	113	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

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	290	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	530	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	551	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

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	11.8	14.1	7.7	12.0	10.5	9.7	3.3	8.8	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

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	6.0	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	18.6	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	56.2	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

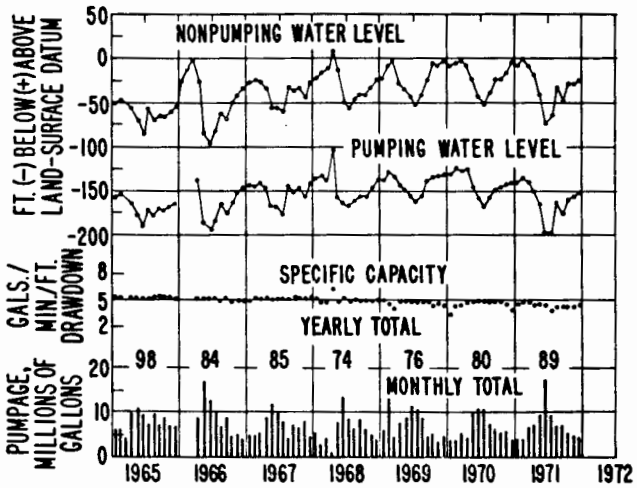

Fig. 3. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-1B.

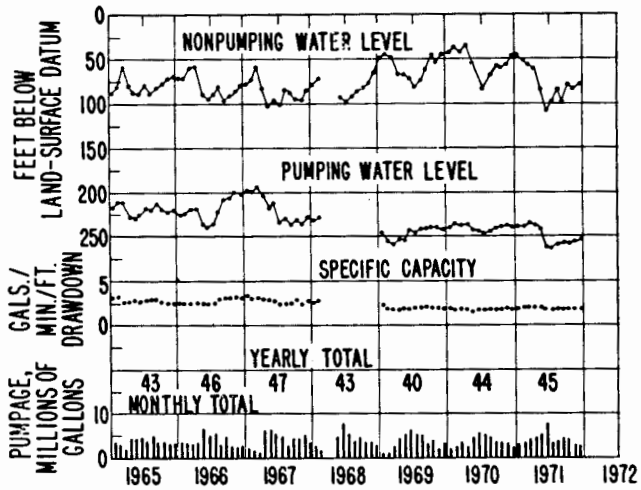

Fig. 5. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-3.

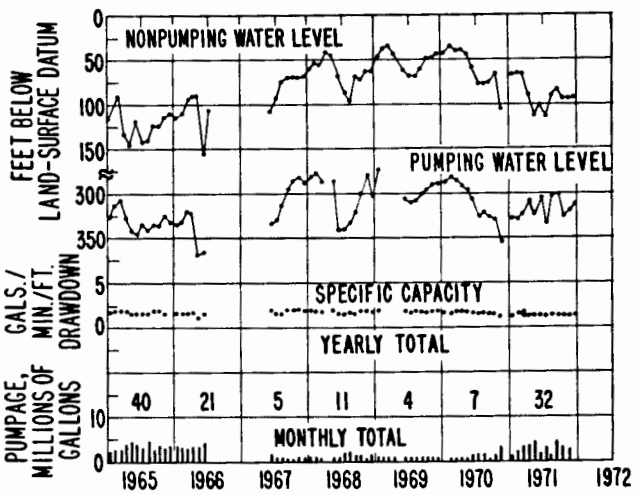

Fig. 4. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-2.

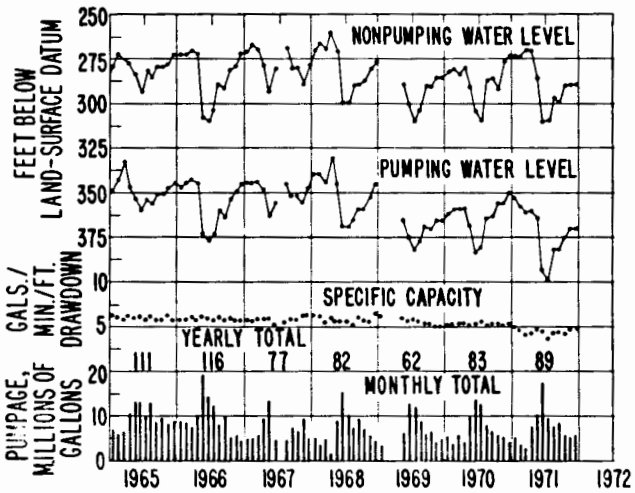

Fig. 6. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-4.

in water-level trends have occurred since 1965 (Fig. 5).

Pumpage from well LA-4 was 6 million gal greater in 1971 than in 1970. Water levels were slightly lower in 1971, continuing the slow decline which began in 1965 (Fig. 6).

Pumpage from well LA-5 was about 8 million gal greater in 1971 than in 1970, and there was no significant change in water level. The overall trend since 1965 has been a slight water-level recovery (Fig. 7).

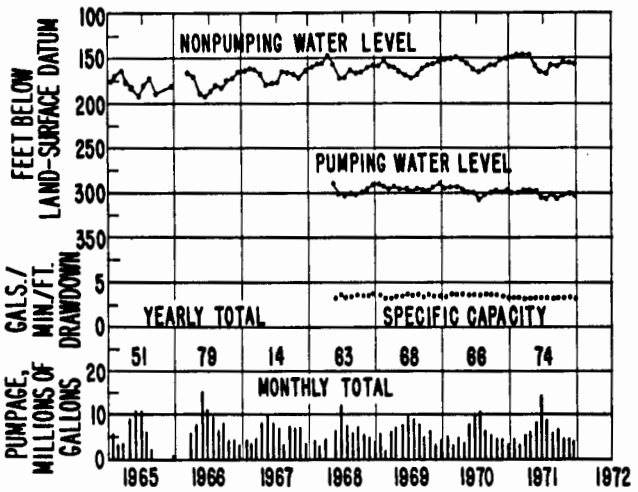

Fig. 7. Monthly average nonpumping and pumping water levels, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-5.

Pumpage from well LA-6 was about 3 million gal greater in 1971 than in 1970 (Table II). There was a slight water-level rise in 1971, continuing the recovery that began in 1967 (Fig. 8). It is due to reduced pumpage, from over 100 million gal to about 80 million gal annually.

The yearly average pumping rate from the six wells decreased about 95 gpm, from 2,862 gpm in 1970 to 2,767 gpm in 1971. The largest decrease, in LA-2, was probably due to increased pumpage that lowered the nonpumping level slightly.

B. Guaje Well Field

Pumpage from the Guaje well field increased 61 million gal, from 423 million gal in 1970 to 484 million gal in 1971. The seven wells in the field produced about 31.1% of the total pumpage (Table I).

Pumpage from well G-1 was about 3 million gal greater, and water levels were slightly lower in 1971 than in 1970 (Fig. 9). The overall trend has been a decline in water level since 1965 (with the largest declines occurring from 1968 through 1971) due to the close spacing of wells G-1, G-1A, and G-2. The movement of ground water in the aquifer is from G-2 to G-1A to G-1, so the recharge to the vicinity of G-1 is partly diverted by pumpage of the other two wells. Concurrently, specific capacity has decreased gradually. This may be due in part to sand accumulations covering some of the screened sections of the well, and in part to declining water level.

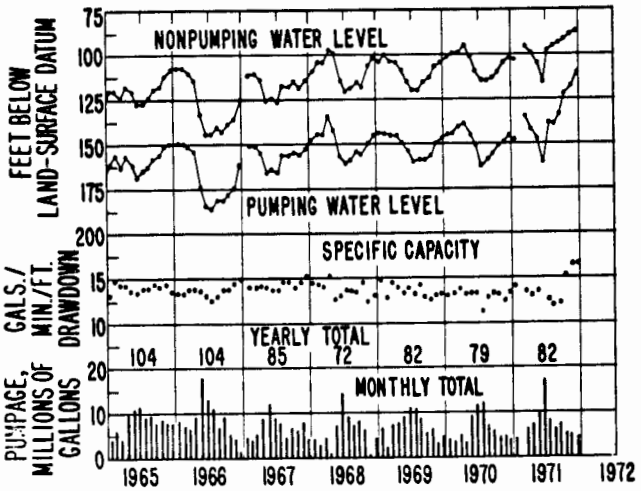

Fig. 8. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-6.

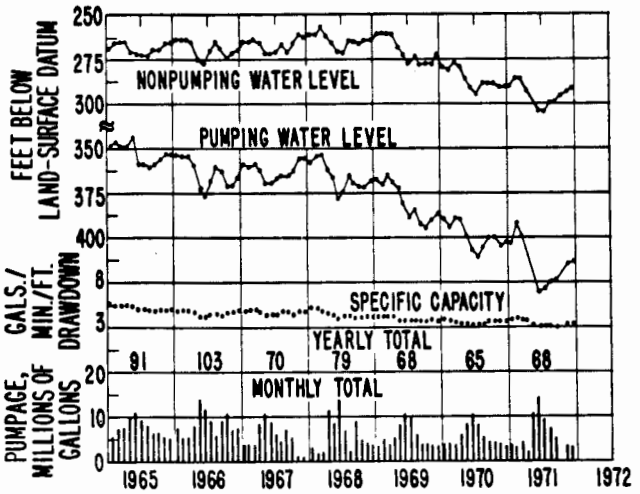

Fig. 9. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-1.

Pumpage from well G-1A was about 20 million gal greater in 1971 than in 1970. This pumpage caused slightly lower water levels in 1971. There have been no significant changes in water level from 1965 through 1971 (Fig. 10).

Pumpage from well G-2 was about 24 million gal greater, and water levels were slightly lower in 1971 than in 1970. There have been no significant changes in water level since 1965 (Fig. 11).

Pumpage from well G-3 was about 9 million gal greater, and water levels were slightly lower in 1971 than in 1970. There have been no significant changes in the water level since 1965 (Fig. 12).

Pumpage from well G-4 was about 13 million gal greater, and water levels were slightly lower in 1971 than in 1970. There have been no significant changes in water level since 1965 (Fig. 13). Deterioration and a break in the casing have allowed the

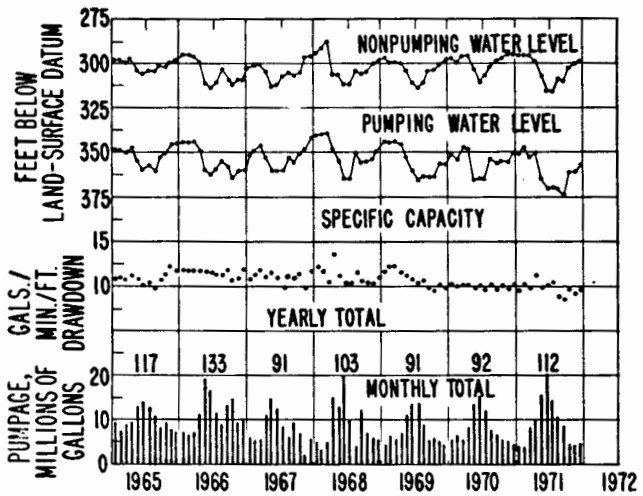

Fig. 10. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-1A.

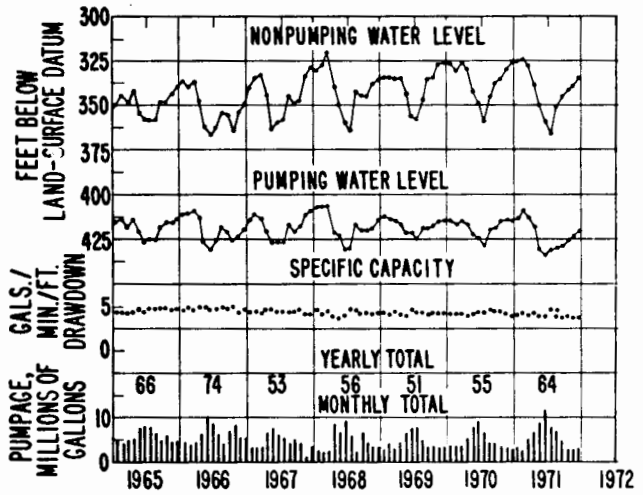

Fig. 12. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-3.

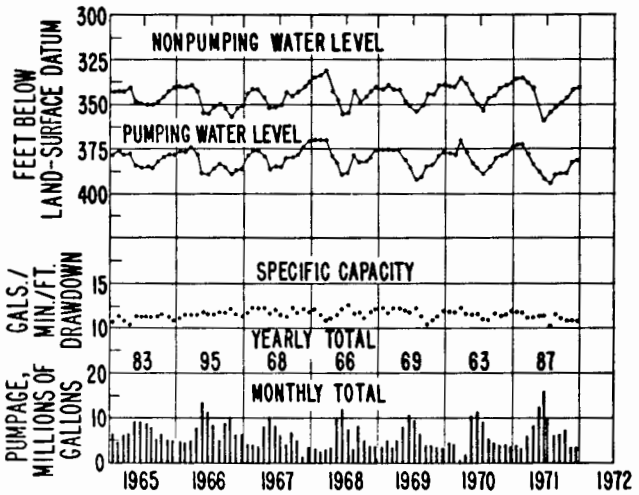

Fig. 11. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-2.

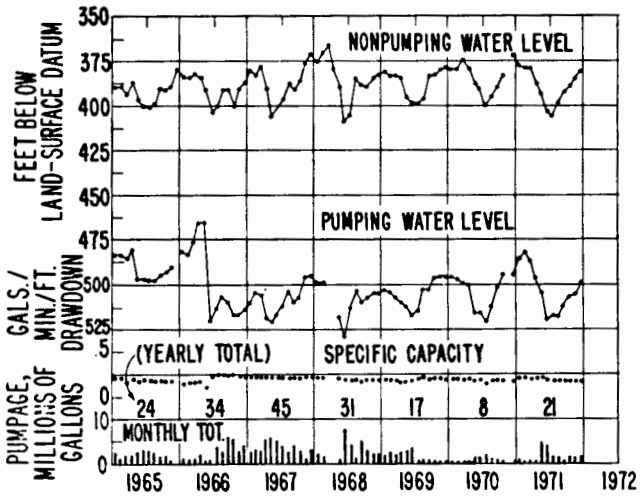

Fig. 13. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-4.

gravel pack to enter the well below a depth of 750 ft. This has caused heavy sanding. The sand and gravel cannot be removed below 800 ft because of an obstruction in the casing, so only the upper 800 ft of the 1,940-ft well bore is open. Despite repeated removal of sand from the upper part of the hole (above 800 ft), sand continues to accumulate. The pump has been reset several times, and with a specific capacity of about 2 gpm/ft of drawdown, the well can produce only about 200 gpm under controlled pumpage to keep water above the pump bowels. This well should be replaced soon by a new well in the approximate vicinity to provide a balanced pumping facility and achieve maximum benefits from the water-supply system in the Guaje well field.

Pumpage from well G-5 decreased about 1 million gal from 1970 to 1971, and water levels remained about the same. No significant changes in water level have occurred since 1965 (Fig. 14). The pump was pulled from the hole in May 1971 for repair, and approximately 10 ft of sand was bailed from the well. A break or obstruction in the casing at a depth of 675 ft prevented further entry of the sand pump. The casing is probably offset and open below that point as the well's efficiency (specific capacity) has not changed appreciably over the years. The well is a strong producer as compared to wells LA-2, LA-3, and G-4.

Pumpage from well G-6 decreased about 8 million gal, and no significant changes in water level occurred from 1970 to 1971 (Fig. 15). There has been a general water-level rise since 1965 as pumping rate has been decreased. The pump failed in December. Pump failure was evidenced by a steadily declining pumping rate with no apparent change in specific capacity. The pump was replaced in March 1972. Sand was removed from the well from a depth of about 1,465 ft to 1,580 ft, about 80 ft below the bottom of the casing.

The yearly average pumping rate from the seven wells decreased about 66 gpm, from 2,775 gpm in 1970 to 2,709 gpm in 1971 (Table III). The major decline was 64 gpm in G-6 owing to pump failure.

C. Pajarito Well Field

Pumpage from the Pajarito well field increased 62 million gal, from 595 million gal in 1970 to 657 million gal in 1971. The three wells in the field produced about 42.3% of the total pumpage (Table I).

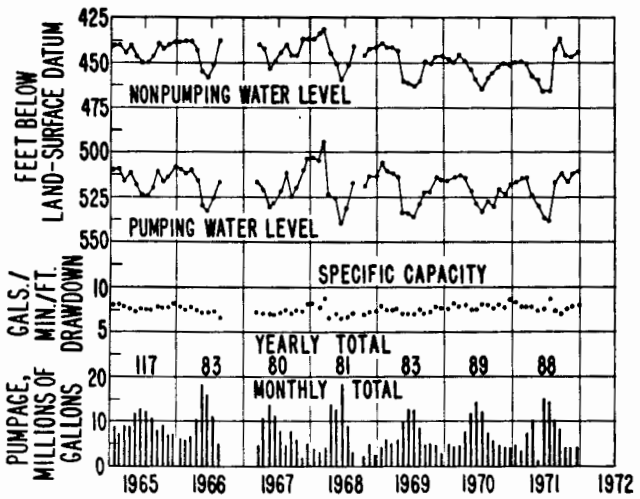

Fig. 14. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-5.

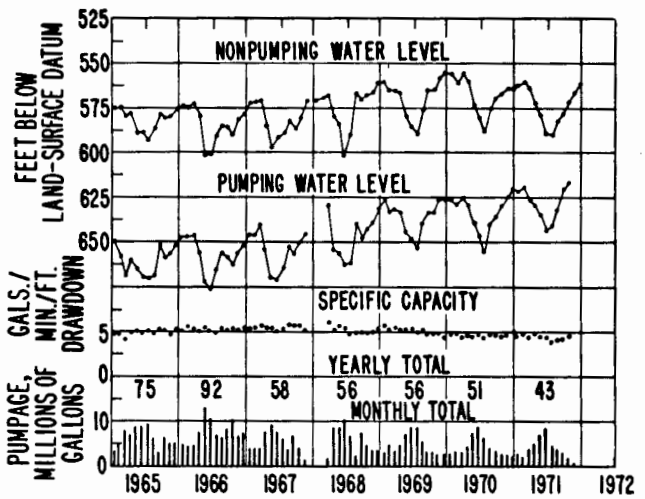

Fig. 15. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-6.

Pumpage from well PM-1 was 35 million gal greater in 1971 than in 1970. This increased pumpage caused slightly lower water levels in 1971. The overall water-level trend since 1965 has been a slight recovery (Fig. 16).

Pumpage from well PM-2 was 39 million gal greater, and water levels were slightly lower in 1971 than in 1970. Since the well went into production in 1967, there has been a general gentle decline of water level (Fig. 17).

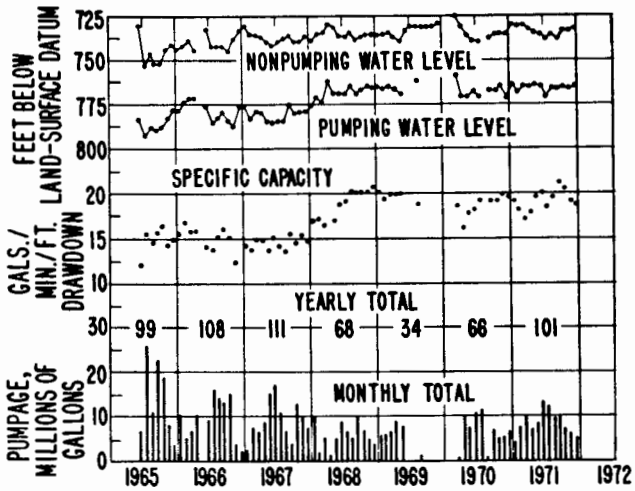

Fig. 16. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well PM-1.

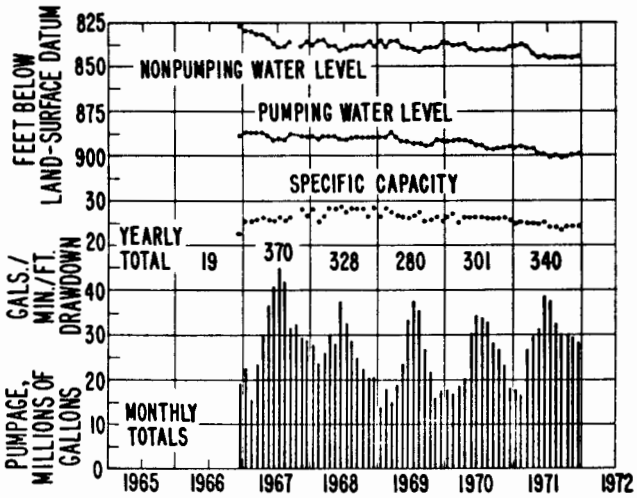

Fig. 17. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well PM-2.

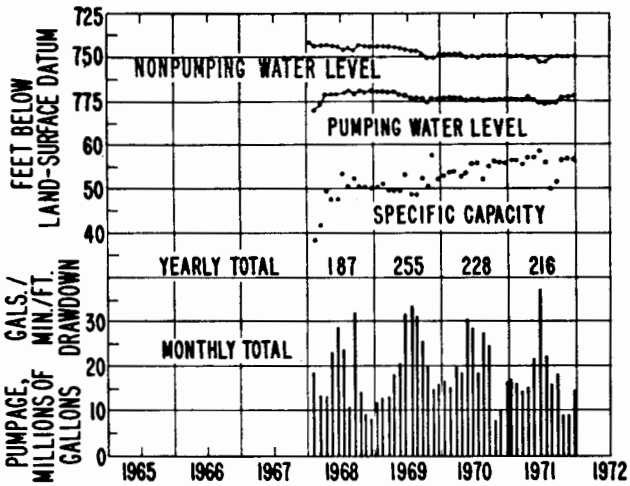

Fig. 18. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well, PM-3.

Pumpage from well PM-3 decreased about 12 million gal from 1970 to 1971, but the decrease caused no significant change in water level (Fig. 18). The water-level decline in 1968 and 1969 has apparently been stabilized.

There was no significant change in pumping rate for the three wells from 1970 to 1971, though the pumping rate declined 27 gpm, from 3,346 gpm in 1970 to 3,319 in 1971.

III. WATER CANYON WATER SUPPLY

Production from the gallery in Water Canyon decreased 31 million gal, from 68 million gal in 1970 to 37 million gal in 1971. The gallery is dug into a brecciated welded tuff underlain by a nonwelded tuff. Recharge to the area is from precipitation on the flanks of the mountains west of the gallery. Recharge is probably very rapid, so deficient precipitation is reflected by decreased production from the gallery. The gallery is a good source of water, producing as much as some of the weaker wells (LA-2, LA-3, and G-4). Production for 1970 and 1971 is shown in Table VI.

TABLE VI

PRODUCTION FROM WATER CANYON SPRING IN MILLIONS OF GALLONS

Month	1970	1971
January	4.9	3.2
February	4.0	3.0
March	4.6	3.7
April	5.7	3.6
May	7.9	3.3
June	7.8	3.4
July	6.8	2.8
August	6.9	3.1
September	6.9	2.8
October	5.1	2.6
November	4.3	2.5
December	3.2	2.7
Total	68.1	36.7

IV. SUMMARY

Pumpage has generally increased since the first well went into production in 1947. The increase has been erratic in the past five years:

PUMPAGE

Year	(Millions of Gallons)	(Acre-Feet)
1967	1,319	4,048
1968	1,402	4,302
1969	1,335	4,097
1970	1,337	4,226
1971	1,553	4,766

The overall increase from 1967 to 1971 has been about 718 acre-feet (ac-ft), or approximately 180 ac-ft/yr. Extrapolating the annual increase of 180 ac-ft/yr, we find that the pumpage from the wells will reach 5,306 ac-ft in 1974 and 5,486 ac-ft in 1975.

Factors related to water usage vary widely, and the increase of 180 ac-ft/yr is a rough estimate, at best. One of the biggest variables is precipitation. Pumpage during a wet spring and summer will be reduced, whereas a dry spring and summer will considerably increase pumpage. Other factors are expansion of Laboratory facilities and rate of population and housing increase in the county.

The State Engineer has established underground water rights for the three well fields as 5,329 ac-ft of pumpage per year. With the estimated increase of 180 ac-ft/yr, pumpage will equal these rights in 1974 or 1975.

Well-field operation during 1971 was satisfactory. Slight water-level declines occurred where pumpage in 1971 exceeded that in 1970, but water levels generally fell in the range expected for current production from consideration of trends established during the past six years.

The continued decrease in pumping rate in well LA-2 in the Los Alamos well field is due to increased pumpage in 1971. The slowly declining water-level trends observed in well LA-4 are as expected under current pumpage.

The decline of water levels in well G-1 is the result of heavy pumpage from wells G-1A and G-2 which diverts part of the aquifer recharge in the vicinity. Well efficiency (as measured by specific capacity) is declining because of lowering of the water table and accumulation of sand in the casing which has covered some of the slotted sections.

The deterioration of the pump in well G-6 decreased the well's pumping rate during 1971. The pump ultimately failed and was replaced in March.

Water-level trends in the wells of the Pajarito well field are as expected under present pumpage. The period of record for most wells is too short, and annual pumpage is too erratic to really determine water-level trends at present.

Total pumpage from the three well fields was 1,553 million gal, with an additional 37 million gal added to the water supply from the gallery in Water Canyon.

V. RECOMMENDATIONS

The spring and summer of 1971 were exceedingly dry. Monthly pumpage peaked during June and July. The daily pumpage reached a near

maximum for several days during these months. Pumpage would not be able to meet these demands if any of the supply equipment failed. Even with all systems in operation, the well capacity is below projected summer usage for 1975. We recommend (1) that a new well be provided in the Pajarito field approximately 3,500 ft southwest or northwest of existing well PM-2, and (2) that well G-4 be replaced with a new well. The addition and replacement wells would not only provide improved dependability but would allow better management of well fields by distribution of pumpage to minimize drawdown and sanding.

We again recommend that the annual pumpage be limited to 400 million gal or less from the Los Alamos well field and to 500 million gal or less from the Guaje field, with additional required water 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.

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	69	1	-0	-0	0	35	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
FEB	69	2	-0	-0	0	19	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAR	69	3	-0	-0	0	14	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
APR	69	4	-0	-0	0	40	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAY	69	5	-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
JUN	69	6	-0	-0	0	61	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUL	69	7	-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
AUG	69	8	-0	-0	0	61	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
SEP	69	9	-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
OCT	69	10	-0	-0	0	26	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
NOV	69	11	-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
DEC	69	12	-0	-0	0	19	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JAN	70	13	-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	70	14	-0	-0	0	12	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAR	70	15	-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
APR	70	16	-0	-0	0	14	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAY	70	17	-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
JUN	70	18	-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
JUL	70	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	70	20	-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
SEP	70	21	-0	-0	0	44	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
OCT	70	22	-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
NOV	70	23	-0	-0	0	35	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
DEC	70	24	-0	-0	0	33	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JAN	71	25	-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	26	-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	27	-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	28	-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	29	-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	30	-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	31	-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	32	-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	33	-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	34	-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	35	-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	36	-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

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL LA-18
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	69	1	178	6053	567	22	138	116	4.9	27.1	28.0	18.2	8.7	7.9	6.1	186	6302	564	26.4	884.7
FEB	69	2	59	1320	564	6	128	122	4.6	18.6	21.3	24.0	1.9	1.7	6.5	182	6175	564	26.4	886.0
MAR	69	3	153	4569	573	1	135	134	4.3	19.0	22.3	23.7	5.8	5.6	6.6	183	6199	564	26.5	890.6
APR	69	4	230	7829	567	29	145	116	4.9	24.8	29.1	24.0	7.6	7.3	6.6	202	6838	564	26.8	898.4
MAY	69	5	266	8918	559	34	149	115	4.9	21.8	24.5	21.9	6.3	6.3	6.5	205	6916	562	27.0	907.4
JUN	69	6	338	11248	555	42	156	114	4.9	19.9	22.3	19.1	6.4	6.1	6.6	201	6759	560	27.4	918.6
JUL	69	7	317	10396	547	52	163	111	4.9	19.4	21.7	19.3	6.3	5.7	6.6	203	6819	560	27.7	929.0
AUG	69	8	243	8103	556	41	156	115	4.8	19.5	21.8	19.3	6.7	5.6	6.2	206	6922	560	27.9	937.1
SEP	69	9	125	4245	566	22	138	116	4.9	16.6	18.2	19.1	5.3	4.2	6.6	195	6552	560	28.1	941.3
OCT	69	10	152	5224	573	5	134	129	4.4	18.2	19.7	18.8	6.5	5.5	6.6	191	6443	561	28.2	946.6
NOV	69	11	88	3029	574	8	133	125	4.6	19.9	22.0	19.1	5.3	4.5	6.6	186	6250	561	28.3	949.6
DEC	69	12	135	4756	587	1	133	132	4.4	20.5	23.1	19.3	7.2	6.3	6.8	187	6307	562	28.4	954.4
JAN	70	13	132	4596	580	8	134	126	4.6	21.7	23.5	19.2	6.7	5.8	6.7	183	6186	563	28.6	959.0
FEB	70	14	102	3572	584	-3	125	128	4.6	19.3	21.8	19.5	5.4	4.8	6.8	188	6374	564	28.7	962.5
MAR	70	15	150	5240	582	2	130	128	4.5	19.6	22.0	19.3	7.4	6.3	6.2	190	6430	565	28.8	967.8
APR	70	16	120	4234	588	-6	117	123	4.8	19.9	22.6	19.5	4.5	4.1	6.3	181	6130	566	28.9	972.0
MAY	70	17	288	9794	567	24	147	123	4.6	20.4	23.2	19.6	6.0	5.7	6.2	182	6203	566	29.2	981.8
JUN	70	18	359	11775	547	44	160	116	4.7	19.5	21.8	19.3	6.2	5.9	6.2	184	6247	565	29.6	993.6
JUL	70	19	367	11604	527	52	169	117	4.5	19.7	21.8	19.2	7.1	6.7	6.1	188	6348	561	30.0	1005.2
AUG	70	20	234	7782	554	38	158	120	4.6	19.8	22.4	19.5	7.2	6.0	6.2	188	6321	561	30.2	1013.0
SEP	70	21	186	6241	559	23	149	126	4.4	19.8	22.0	19.4	6.7	5.8	6.2	193	6487	561	30.4	1019.2
OCT	70	22	190	5423	565	22	146	124	4.6	19.1	21.6	19.5	6.9	6.1	6.3	193	6504	560	30.5	1024.6
NOV	70	23	161	5532	573	15	143	128	4.5	18.1	21.3	20.0	6.9	6.2	6.5	199	6712	561	30.7	1030.1
DEC	70	24	110	3890	589	5	141	136	4.3	19.4	22.3	23.0	5.5	4.8	6.7	197	6640	561	30.8	1034.0
JAN	71	25	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	26	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	27	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	28	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	29	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	30	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	31	270	9138	525	65	199	134	3.9	18.5	21.5	20.1	5.5	5.1	6.2	214	7235	563	32.5	1092.0
AUG	71	32	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	33	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	34	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	35	137	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	36	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

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	69	1	24	601	417	45	272	227	1.8	3.6	2.8	13.4	1.2	.8	4.5	43	958	376	37.8	832.0
FEB	69	2	8	195	406	36	-0	0	0.0	3.8	3.1	17.3	.4	.3	4.7	42	945	375	37.8	832.2
MAR	69	3	12	349	485	32	-0	0	0.0	1.7	1.7	20.1	.5	.4	5.6	41	919	377	37.8	832.5
APR	69	4	6	152	422	43	-0	0	0.0	.6	.6	17.9	.2	.1	5.1	41	932	377	37.8	832.7
MAY	69	5	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39	876	375	37.8	832.7
JUN	69	6	14	353	420	61	306	245	1.7	.8	.7	14.5	.3	.2	5.0	37	824	375	37.8	833.0
JUL	69	7	24	538	374	68	313	245	1.5	1.5	1.1	13.2	.5	.3	4.5	32	739	381	37.8	833.6
AUG	69	8	22	508	385	68	308	240	1.6	1.8	1.4	13.3	.6	.3	4.2	26	608	390	37.8	834.1
SEP	69	9	16	381	397	59	303	244	1.6	2.1	1.6	13.4	.7	.4	4.6	23	544	393	37.9	834.5
OCT	69	10	9	217	402	47	297	250	1.6	1.1	.8	13.2	.4	.2	4.6	19	449	397	37.9	834.7
NOV	69	11	4	97	404	47	290	243	1.7	.9	.7	13.5	.2	.1	4.7	17	397	397	37.9	834.8
DEC	69	12	16	396	413	42	290	248	1.7	2.4	1.9	13.6	.9	.5	4.8	13	316	407	37.9	835.2
JAN	70	13	12	296	411	42	289	247	1.7	2.0	1.5	13.6	.6	.4	4.7	12	290	406	37.9	835.5
FEB	70	14	12	205	396	33	284	251	1.6	2.3	1.7	13.2	.6	.4	4.6	12	298	405	37.9	835.7
MAR	70	15	16	398	415	40	288	248	1.7	2.1	1.7	13.7	.8	.5	4.4	13	302	400	37.9	836.1
APR	70	16	16	398	415	40	284	244	1.7	2.6	2.1	13.7	.6	.4	4.5	13	322	400	37.9	836.5
MAY	70	17	26	607	389	43	296	253	1.5	1.8	1.4	13.5	.5	.4	4.4	16	373	399	38.0	837.1
JUN	70	18	36	817	378	59	308	249	1.5	2.0	1.5	13.3	.6	.4	4.3	17	411	394	38.0	838.0
JUL	70	19	42	899	357	76	327	251	1.4	2.3	1.7	13.0	.8	.5	4.1	19	442	389	38.0	838.9
AUG	70	20	35	764	364	75	321	246	1.5	3.0	2.2	12.8	1.1	.6	4.1	20	463	386	38.1	839.6
SEP	70	21	9	196	363	75	327	252	1.4	1.0	.7	12.6	.3	.2	4.1	19	447	384	38.1	839.8
OCT	70	22	34	733	359	64	330	266	1.4	4.1	2.9	12.4	1.5	.8	4.0	21	490	380	38.1	840.6
NOV	70	23	103	1845	299	105	354	249	1.2	11.6	7.1	10.4	4.4	2.1	3.4	30	636	356	38.2	842.4
DEC	70	24	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	603	354	38.2	842.4
JAN	71	25	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	26	107	2228	347	66	328	262	1.3	19.8	14.5	14.6	5.9	3.0	4.0	40	838	347	38.4	845.8
MAR	71	27	160	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	28	208	3688	296	68	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	29	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	30	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	31	174	3130	269	111	334	223	1.2	12.3	7.4	10.3	3.7	1.8	3.2	110	1972	299	39.4	862.5
AUG	71	32	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	33	80	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	34	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	35	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	36	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

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	69	1	3	83	461	48	245	197	2.3	.5	.4	14.8	.1	.1	4.9	167	3322	332	49.5	1075.9
FEB	69	2	37	779	351	44	254	210	1.7	17.6	12.6	14.9	1.8	1.0	4.1	164	3227	328	49.6	1076.6
MAR	69	3	134	2552	317	46	258	212	1.5	19.2	12.4	13.2	5.9	3.1	4.4	164	3214	326	49.7	1079.2
APR	69	4	230	4518	327	67	254	187	1.8	24.8	16.8	13.9	7.6	4.2	3.8	183	3591	326	49.9	1083.7
MAY	69	5	266	5025	315	67	254	187	1.7	21.8	13.8	12.3	6.3	3.5	3.7	186	3616	324	50.2	1088.7
JUN	69	6	336	6066	301	74	242	168	1.8	19.8	12.0	10.4	6.4	3.3	3.6	180	3478	322	50.5	1094.8
JUL	69	7	323	5793	299	81	245	164	1.8	19.8	12.1	10.6	6.4	3.2	3.6	183	3502	318	50.8	1100.6
AUG	69	8	243	4645	319	74	242	168	1.9	19.5	12.5	11.0	6.7	3.2	3.5	187	3567	318	51.1	1105.2
SEP	69	9	165	2664	355	60	240	180	2.0	16.6	11.4	12.0	5.3	2.6	4.1	177	3379	319	51.2	1107.9
OCT	69	10	152	3121	342	44	238	194	1.8	18.2	11.7	11.2	6.5	3.3	4.0	173	3328	320	51.4	1111.0
NOV	69	11	88	1862	353	51	240	189	1.9	19.9	13.6	11.8	5.3	2.8	4.1	167	3219	320	51.5	1112.9
DEC	69	12	135	2952	364	44	242	198	1.8	20.5	14.4	12.0	7.2	3.9	4.2	173	3338	322	51.6	1115.8
JAN	70	13	74	1613	363	44	241	197	1.8	12.2	8.3	12.0	3.8	2.0	4.3	179	3466	323	51.7	1117.4
FEB	70	14	102	2188	358	38	237	199	1.8	19.3	13.3	11.9	5.4	2.9	4.1	184	3583	325	51.8	1119.6
MAR	70	15	150	3234	359	43	239	196	1.8	19.6	13.6	11.9	7.4	3.9	3.6	185	3640	327	51.9	1122.9
APR	70	16	120	2522	350	33	238	205	1.7	19.9	13.5	11.6	4.5	2.5	3.8	176	3474	329	52.0	1125.4
MAY	70	17	209	5158	307	56	243	187	1.6	19.8	12.2	10.6	5.8	3.0	3.2	177	3485	328	52.3	1130.5
JUN	70	18	359	6371	296	72	244	172	1.7	19.5	11.8	10.4	6.2	3.2	3.3	179	3510	326	52.7	1136.9
JUL	70	19	367	6037	274	84	246	162	1.7	19.7	11.3	10.0	7.1	3.5	3.2	183	3531	322	53.0	1143.0
AUG	70	20	235	4434	314	68	244	176	1.8	19.9	12.8	11.1	7.2	3.4	3.5	182	3513	321	53.3	1147.4
SEP	70	21	185	3659	330	58	242	184	1.8	19.7	12.9	11.4	6.7	3.4	3.7	187	3596	320	53.5	1151.0
OCT	70	22	190	3287	342	62	240	178	1.9	19.1	13.1	11.8	6.9	3.7	3.8	188	3610	320	53.6	1154.3
NOV	70	23	161	3383	350	56	239	183	1.9	19.1	13.0	12.2	6.9	3.8	4.0	194	3736	321	53.8	1157.7
DEC	70	24	110	2146	325	46	240	194	1.7	19.4	12.3	12.7	5.5	2.7	3.7	192	3669	319	53.9	1159.9
JAN	71	25	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	26	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	27	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	28	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	29	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	30	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	31	220	3462	262	99	264	165	1.6	14.0	8.1	10.0	4.2	1.9	3.0	207	3786	304	55.5	1188.4
AUG	71	32	211	3823	302	82	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	33	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	34	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	35	158	2990	315	81	255	174	1.8	16.8	11.3	11.2	6.6	3.2	3.7	210	3738	296	56.3	1202.6
DEC	71	36	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

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	69	1	87	3162	606	273	343	70	8.7	13.2	14.6	19.4	4.3	4.1	6.5	187	6686	597	65.9	2348.8
FEB	69	2	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180	6427	596	65.9	2348.8
MAR	69	3	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	169	6019	595	65.9	2348.8
APR	69	4	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	166	5936	594	65.9	2348.8
MAY	69	5	150	5825	647	278	354	76	8.5	12.3	16.0	25.4	3.6	4.1	7.5	160	5715	596	66.0	2354.6
JUN	69	6	340	12225	599	290	364	74	8.1	20.0	24.3	20.7	6.4	6.7	7.2	152	5475	602	66.4	2366.8
JUL	69	7	323	11599	599	299	371	72	8.3	19.8	24.2	21.1	6.4	6.4	7.2	154	5581	603	66.7	2378.4
AUG	69	8	245	8859	603	292	366	74	8.1	19.7	23.8	20.9	6.7	6.1	6.7	157	5687	605	66.9	2387.3
SEP	69	9	162	5921	609	280	357	77	7.9	21.5	25.4	20.5	6.9	5.8	7.1	148	5396	606	67.1	2393.2
OCT	69	10	174	6363	609	280	359	79	7.7	20.9	23.9	20.0	7.4	6.7	7.0	147	5342	607	67.3	2399.6
NOV	69	11	89	3270	612	273	354	81	7.6	20.1	23.8	20.4	5.4	4.8	7.1	141	5132	608	67.4	2402.8
DEC	69	12	124	4587	617	273	354	81	7.6	18.8	22.3	20.3	6.6	6.1	7.1	141	5151	608	67.5	2407.4
JAN	70	13	134	4918	612	283	363	80	7.6	22.0	25.2	20.3	6.8	6.2	7.1	145	5297	609	67.6	2412.3
FEB	70	14	102	3747	612	282	360	78	7.8	19.3	22.9	20.5	5.4	5.0	7.1	154	5609	609	67.7	2416.1
MAR	70	15	150	5450	606	283	359	76	8.0	19.6	22.9	20.1	7.4	6.6	6.5	166	6064	608	67.9	2421.5
APR	70	16	120	4376	608	270	358	88	6.9	19.9	23.3	20.1	4.5	4.3	6.5	176	6428	608	68.0	2425.9
MAY	70	17	205	9478	596	291	369	78	7.6	18.7	22.4	20.6	5.5	5.5	6.6	186	6733	604	68.2	2435.4
JUN	70	18	306	13030	593	304	383	79	7.5	19.9	24.1	20.9	6.3	6.6	6.7	188	6800	603	68.6	2448.4
JUL	70	19	301	12539	579	310	381	71	8.2	19.4	23.6	21.0	7.0	7.3	6.7	191	6878	600	69.0	2461.0
AUG	70	20	265	7976	591	288	364	76	7.8	19.1	22.9	20.8	6.9	6.2	6.6	189	6805	599	69.2	2468.9
SEP	70	21	186	6668	597	287	363	76	7.9	19.8	23.5	20.7	6.7	6.2	6.6	191	6867	598	69.4	2475.6
OCT	70	22	161	5792	600	282	357	75	8.0	19.3	23.0	20.7	6.9	6.5	6.6	190	6819	597	69.5	2481.4
NOV	70	23	153	5532	603	276	355	79	7.6	17.2	21.3	21.0	6.5	6.2	6.8	196	7008	597	69.7	2486.9
DEC	70	24	140	3990	605	273	349	76	8.0	19.4	22.9	23.5	5.5	4.9	6.9	194	6958	596	69.8	2490.9
JAN	71	25	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	26	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	27	76	2750	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	28	210	7613	604	272	361	89	6.8	16.7	21.2	21.1	5.5	5.7	6.7	196	7015	596	70.3	2510.1
MAY	71	29	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	30	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	31	282	9493	561	307	398	91	6.2	18.0	22.3	21.5	5.3	5.3	6.6	204	7206	589	71.4	2547.4
AUG	71	32	211	7532	595	293	382	89	6.7	18.4	22.9	21.5	5.3	5.4	6.8	203	7169	590	71.6	2555.0
SEP	71	33	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	34	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	35	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	36	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

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	69	1	183	5342	487	157	294	137	3.6	27.8	24.7	15.6	8.9	7.0	5.2	191	5402	472	66.7	2004.1
FEB	69	2	61	1693	463	153	296	143	3.2	29.0	27.3	19.7	2.9	2.2	5.4	189	5336	471	66.7	2005.8
MAR	69	3	211	5912	467	157	298	141	3.3	30.2	28.8	19.4	9.3	7.3	5.4	196	5506	469	66.9	2011.7
APR	69	4	230	6517	472	160	296	136	3.5	24.8	24.2	20.0	7.6	6.1	5.5	214	6036	469	67.2	2018.2
MAY	69	5	268	7492	466	164	298	134	3.5	22.0	20.6	18.3	6.4	5.3	5.4	219	6157	468	67.4	2025.7
JUN	69	6	334	9288	463	169	298	129	3.6	19.7	18.4	16.0	6.3	5.1	5.5	210	5932	470	67.8	2035.0
JUL	69	7	363	8894	459	173	303	130	3.5	19.8	18.5	16.2	6.4	4.9	5.5	213	6011	471	68.1	2043.9
AUG	69	8	245	6847	466	169	298	129	3.6	19.7	18.4	16.1	6.7	4.7	5.2	216	6091	470	68.3	2050.7
SEP	69	9	162	4620	475	160	301	141	3.4	21.5	19.8	16.0	6.9	4.6	5.5	207	5856	470	68.5	2055.4
OCT	69	10	175	5822	554	157	301	144	3.9	21.0	21.9	18.2	7.4	6.1	6.1	206	5884	476	68.7	2061.2
NOV	69	11	86	2486	482	155	296	141	3.4	19.5	18.1	16.1	5.2	3.7	5.6	200	5699	476	68.8	2063.7
DEC	69	12	124	3587	482	153	294	141	3.4	18.8	17.4	15.9	6.6	4.7	5.5	200	5708	475	68.9	2067.3
JAN	70	13	127	3606	473	153	294	141	3.4	20.9	18.5	15.7	6.4	4.5	5.5	195	5564	474	69.0	2070.9
FEB	70	14	102	2884	471	152	296	144	3.3	19.3	17.6	15.7	5.4	3.9	5.5	199	5663	474	69.1	2073.8
MAR	70	15	150	4295	477	150	295	145	3.3	19.6	18.0	15.8	7.4	5.2	5.1	194	5528	475	69.3	2078.0
APR	70	16	120	3457	480	153	298	145	3.3	19.9	18.4	15.9	4.5	3.4	5.2	185	5273	476	69.4	2081.5
MAY	70	17	274	7645	465	159	301	142	3.3	19.4	18.1	16.1	5.7	4.4	5.1	185	5286	476	69.7	2089.2
JUN	70	18	368	10092	457	166	302	136	3.4	20.0	18.7	16.1	6.4	5.1	5.2	188	5353	475	70.0	2099.2
JUL	70	19	367	10137	460	167	309	142	3.2	19.7	19.1	16.7	7.1	5.9	5.3	192	5456	474	70.4	2109.4
AUG	70	20	245	6368	472	164	303	139	3.4	19.1	18.3	16.6	6.9	4.9	5.3	190	5417	475	70.6	2115.7
SEP	70	21	187	5305	473	159	301	142	3.3	19.9	18.7	16.4	6.7	5.0	5.3	192	5474	475	70.8	2121.1
OCT	70	22	160	4472	466	158	299	141	3.3	19.1	17.8	16.1	6.9	5.0	5.2	191	5361	468	71.0	2125.5
NOV	70	23	155	4450	478	152	302	150	3.2	17.5	17.1	16.7	6.6	5.0	5.4	197	5525	468	71.1	2130.0
DEC	70	24	118	3381	478	150	300	150	3.2	20.8	19.4	18.6	5.9	4.2	5.4	196	5508	468	71.2	2133.4
JAN	71	25	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	26	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	27	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	28	210	5512	469	148	300	152	3.1	16.7	16.5	16.4	5.5	4.4	5.2	207	5821	468	71.9	2151.4
MAY	71	29	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	30	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	31	327	8983	457	166	308	142	3.2	20.8	21.1	17.5	6.2	5.0	5.4	216	6080	468	73.0	2182.3
AUG	71	32	211	5861	463	156	302	146	3.2	18.4	17.8	16.7	5.3	4.2	5.3	215	6037	468	73.2	2188.2
SEP	71	33	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	34	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	35	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	36	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

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		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	69	1	183	6382	581	104	143	39	14.9	27.8	29.5	18.6	8.9	8.3	6.2	181	6127	565	67.0	2345.6
FEB	69	2	85	2219	569	97	144	47	12.1	31.0	35.8	24.2	3.1	2.9	6.6	179	6066	565	67.1	2347.8
MAR	69	3	209	7152	570	104	145	41	13.9	29.9	34.8	23.6	9.2	8.8	6.9	185	6280	564	67.3	2354.9
APR	69	4	230	7902	573	104	145	41	14.0	24.8	29.4	24.2	7.6	7.4	6.7	203	6895	565	67.5	2362.8
MAY	69	5	268	9071	564	108	150	42	13.4	22.0	25.0	22.1	6.4	6.4	6.5	207	7004	564	67.8	2371.9
JUN	69	6	334	11197	559	115	155	40	14.0	19.7	22.2	19.3	6.3	6.1	6.7	198	6729	566	68.1	2383.1
JUL	69	7	323	10783	556	120	162	42	13.2	19.8	22.5	19.6	6.4	5.9	6.7	201	6816	566	68.4	2393.9
AUG	69	8	246	8232	559	120	159	39	14.3	19.8	22.2	19.4	6.7	5.7	6.2	203	6908	566	68.7	2402.1
SEP	69	9	192	5499	566	114	158	44	12.9	21.5	23.6	19.1	6.9	5.4	6.6	195	6626	566	68.8	2407.6
OCT	69	10	171	5821	567	112	157	45	12.6	20.5	21.9	18.6	7.3	6.1	6.6	193	6556	566	69.0	2413.5
NOV	69	11	87	2995	574	106	150	44	13.0	19.7	21.8	19.1	5.2	4.4	6.6	200	6784	566	69.1	2416.4
DEC	69	12	124	4278	575	104	148	44	13.1	18.8	20.8	18.9	6.6	5.7	6.6	200	6796	566	69.2	2420.7
JAN	70	13	130	4490	576	103	145	42	13.7	21.3	23.0	19.1	6.6	5.7	6.6	196	6638	565	69.3	2425.2
FEB	70	14	108	3714	573	99	142	43	13.3	20.5	22.7	19.1	5.7	5.0	6.7	199	6763	565	69.4	2428.9
MAR	70	15	150	5206	578	99	141	42	13.8	19.6	21.9	19.2	7.4	6.3	6.2	194	6601	566	69.6	2434.1
APR	70	16	108	3756	580	96	140	44	13.2	17.9	20.0	19.2	4.0	3.7	6.2	184	6255	566	69.7	2437.9
MAY	70	17	282	9608	568	102	145	43	13.2	19.9	22.7	19.6	5.9	5.6	6.3	185	6300	566	70.0	2447.5
JUN	70	18	353	11911	562	110	151	41	13.7	19.2	22.1	19.8	6.1	6.0	6.3	187	6359	567	70.3	2459.4
JUL	70	19	301	11986	553	116	163	47	11.8	19.4	22.5	20.1	7.0	7.0	6.2	190	6460	566	70.7	2471.4
AUG	70	20	225	7433	551	116	159	43	12.8	19.1	21.4	19.3	6.9	5.8	6.2	188	6391	565	70.9	2478.8
SEP	70	21	186	6286	563	113	155	42	13.4	19.8	22.2	19.5	6.7	5.9	6.2	190	6457	565	71.1	2485.1
OCT	70	22	161	5434	563	110	153	43	13.1	19.3	21.6	19.4	6.9	6.1	6.2	190	6425	565	71.3	2490.6
NOV	70	23	155	5218	561	107	150	43	13.0	17.5	20.1	19.6	6.6	5.8	6.4	195	6610	564	71.4	2495.8
DEC	70	24	118	4041	571	103	145	42	13.6	20.8	23.2	22.2	5.9	5.0	6.5	195	6590	564	71.5	2499.8
JAN	71	25	109	3739	572	102	143	41	13.9	16.0	18.2	19.5	5.2	4.5	6.3	193	6528	564	71.7	2503.5
FEB	71	26	-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	27	185	6386	575	92	135	43	13.4	18.9	23.1	19.8	5.9	5.6	6.4	187	6316	563	71.8	2509.9
APR	71	28	210	7278	578	98	142	44	13.1	16.7	20.3	20.2	5.5	5.5	6.4	195	6610	564	72.0	2517.2
MAY	71	29	273	9798	557	106	148	42	13.3	17.1	20.6	20.2	5.5	5.8	6.4	196	6626	562	72.3	2527.0
JUN	71	30	512	16959	552	115	162	47	11.7	19.1	22.6	20.9	6.4	6.7	6.5	210	7046	560	72.9	2544.0
JUL	71	31	258	8336	539	96	139	43	12.5	16.4	19.6	20.6	4.9	4.7	6.3	201	6742	559	73.1	2552.3
AUG	71	32	207	6810	548	92	139	47	11.7	18.0	20.7	19.8	5.2	4.9	6.2	199	6690	559	73.3	2559.1
SEP	71	33	240	7815	543	89	133	44	12.3	18.6	21.2	19.9	6.4	5.8	6.3	204	6818	557	73.6	2566.9
OCT	71	34	162	5390	555	85	121	36	15.4	16.4	19.6	19.8	6.1	5.5	6.5	204	6814	556	73.7	2572.3
NOV	71	35	136	5247	561	83	117	34	16.5	16.6	19.8	19.8	6.5	5.7	6.5	204	6817	556	73.9	2577.6
DEC	71	36	140	4709	561	81	115	34	16.5	16.7	19.8	19.8	6.2	5.6	6.5	206	6872	556	74.0	2582.3

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

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL NON PUMP	WATER LEVEL PUMP	DRAW DOWN	SPEC CAP-ACITY	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	YEARLY AVERAGE PUMP-AGE	YEARLY AVERAGE RATE	CUMULATIVE PUMP TIME	CUMULATIVE PUMP-AGE
MO	YR		HR	THSND GAL	GPM	FT	FT	FT	GPM/FT							HR	THSND GAL	GPM	THSND HR	MILLN GAL
JAN	69	1	128	3493	455	261	367	106	4.3	14.1	15.4	15.6	6.3	4.6	4.8	249	6556	438	55.9	1527.4
FEB	69	2	109	5065	447	261	370	109	4.1	14.1	15.2	15.4	9.1	6.7	5.2	257	6767	438	56.1	1532.4
MAR	69	3	138	3658	442	261	365	104	4.2	13.2	14.1	15.3	6.1	4.5	5.1	261	6849	437	56.2	1536.1
APR	69	4	201	5350	444	261	370	109	4.1	14.1	15.3	15.6	6.6	5.0	5.2	239	6264	436	56.4	1541.4
MAY	69	5	334	8509	425	268	374	106	4.0	15.0	15.7	15.3	7.9	6.0	4.8	238	6203	434	56.7	1549.9
JUN	69	6	419	10492	417	273	381	108	3.9	15.2	15.6	15.1	7.9	5.7	5.0	225	5869	435	57.2	1560.4
JUL	69	7	404	10034	414	277	388	111	3.7	16.2	16.2	15.1	8.1	5.5	5.0	232	6043	433	57.6	1570.5
AUG	69	8	264	6828	431	273	383	110	3.9	16.7	16.8	15.3	7.2	4.7	4.8	245	6365	433	57.8	1577.3
SEP	69	9	146	3838	438	278	392	114	3.8	15.5	15.4	15.1	6.2	3.8	5.1	228	5920	432	58.0	1581.1
OCT	69	10	167	4246	424	277	394	117	3.6	16.6	16.0	14.7	7.1	4.5	4.9	225	5814	431	58.1	1585.4
NOV	69	11	135	3475	429	277	388	111	3.9	16.3	15.8	14.7	8.1	5.1	5.0	223	5752	430	58.3	1588.9
DEC	69	12	132	3343	422	272	386	114	3.7	16.6	16.1	14.5	7.1	4.4	4.9	221	5694	429	58.4	1592.2
JAN	70	13	155	3902	420	279	390	111	3.8	16.5	15.6	14.4	7.9	4.9	4.8	224	5728	427	58.6	1596.1
FEB	70	14	157	3958	420	283	395	112	3.8	16.2	15.5	14.5	8.3	5.3	4.9	221	5636	425	58.7	1600.1
MAR	70	15	153	3886	423	278	389	111	3.8	19.3	18.7	14.6	7.5	4.7	4.5	222	5655	424	58.9	1603.9
APR	70	16	247	6111	412	279	392	113	3.6	18.2	17.7	14.6	9.2	6.0	4.4	226	5718	422	59.1	1610.1
MAY	70	17	370	8571	386	286	399	113	3.4	15.2	14.1	13.9	7.7	5.0	4.3	229	5724	416	59.5	1618.6
JUN	70	18	459	10534	382	291	407	116	3.3	16.2	15.0	14.0	7.9	5.3	4.3	232	5727	411	59.9	1629.2
JUL	70	19	361	8106	374	295	412	117	3.2	15.2	14.6	14.2	7.0	4.7	4.3	229	5566	405	60.3	1637.3
AUG	70	20	218	5235	400	288	407	119	3.4	16.1	15.4	14.4	6.7	4.1	4.5	225	5434	402	60.5	1642.5
SEP	70	21	172	4162	403	288	399	111	3.6	15.2	14.5	14.4	6.2	3.9	4.5	227	5461	401	60.7	1646.7
OCT	70	22	144	3533	409	288	400	112	3.7	15.5	14.6	14.5	6.2	4.0	4.5	225	5401	400	60.8	1650.2
NOV	70	23	148	3567	402	291	405	114	3.5	16.6	15.5	15.5	6.3	4.0	4.7	226	5409	398	61.0	1653.8
DEC	70	24	128	3148	410	291	403	112	3.7	16.2	15.6	14.5	6.4	3.9	4.7	226	5393	398	61.1	1656.9
JAN	71	25	142	3540	415	290	404	114	3.6	16.1	15.9	14.5	6.8	4.3	4.5	225	5363	397	61.3	1660.5
FEB	71	26	110	2701	409	287	394	107	3.8	16.1	15.4	14.5	6.1	3.7	4.7	221	5258	397	61.4	1663.2
MAR	71	27	170	4047	397	288	400	112	3.5	12.6	11.8	14.2	5.5	3.6	4.4	222	5271	395	61.5	1667.2
APR	71	28	85	2012	395	294	410	116	3.4	4.8	4.5	14.2	2.2	1.5	4.6	209	4930	393	61.6	1669.2
MAY	71	29	409	10918	388	309	422	122	3.2	17.4	18.3	14.5	8.8	6.5	4.4	217	5125	393	62.1	1680.1
JUN	71	30	642	14589	379	304	431	127	3.0	16.2	16.1	14.5	8.1	5.7	4.4	232	5463	392	62.7	1694.7
JUL	71	31	438	9814	373	304	428	124	3.0	16.8	15.6	13.9	8.3	5.5	4.4	239	5605	391	63.2	1704.5
AUG	71	32	315	7384	391	297	425	128	3.1	16.1	15.5	14.3	8.0	5.3	4.5	247	5785	390	63.5	1711.9
SEP	71	33	252	5927	392	298	424	126	3.1	15.8	15.7	15.0	6.7	4.4	4.5	254	5932	390	63.7	1717.8
OCT	71	34	-0	-0	0	296	-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	35	140	3420	407	293	413	120	3.4	16.6	16.3	16.3	5.8	3.7	4.7	241	5625	389	63.9	1721.3
DEC	71	36	145	3536	406	291	413	122	3.3	16.7	16.3	16.3	6.4	4.2	4.7	242	5657	389	64.0	1724.8

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	69	1	129	4371	565	296	344	48	11.8	14.2	19.3	19.3	6.3	5.7	6.0	257	8586	557	46.6	1581.5
FEB	69	2	141	6408	566	298	344	46	12.3	14.3	19.5	19.5	9.2	8.5	6.6	265	8857	557	46.8	1588.0
MAR	69	3	153	5194	566	298	344	46	12.3	14.6	20.0	19.6	6.7	6.4	6.5	267	8910	557	46.9	1593.2
APR	69	4	202	6815	562	298	347	49	11.5	14.1	19.5	19.7	6.6	6.4	6.6	246	8188	555	47.1	1600.0
MAY	69	5	337	11249	556	307	356	49	11.4	15.1	20.8	20.0	8.0	7.9	6.5	241	8036	557	47.5	1611.2
JUN	69	6	419	13984	556	312	363	51	10.9	15.2	20.8	20.2	7.9	7.6	6.6	226	7588	558	47.9	1625.2
JUL	69	7	404	13394	553	314	367	53	10.4	16.2	21.6	20.2	8.1	7.3	6.7	234	7846	558	48.3	1638.6
AUG	69	8	264	8880	561	310	363	53	10.6	16.7	21.9	19.9	7.2	6.1	6.2	247	8289	558	48.5	1647.5
SEP	69	9	159	5430	569	304	363	59	9.6	16.9	21.8	19.6	6.8	5.4	6.6	231	7773	560	48.7	1652.9
OCT	69	10	167	5699	569	303	363	60	9.5	16.6	21.5	19.7	7.1	6.0	6.6	228	7670	561	48.9	1658.6
NOV	69	11	138	4709	569	300	356	56	10.2	16.7	21.4	19.5	8.3	7.0	6.6	226	7611	561	49.0	1663.3
DEC	69	12	132	4509	569	298	356	58	9.8	16.6	21.7	19.6	7.1	6.0	6.6	225	7560	561	49.1	1667.9
JAN	70	13	149	5144	575	297	351	54	10.7	15.9	20.6	19.7	7.6	6.5	6.6	226	7625	562	49.3	1673.0
FEB	70	14	159	5460	572	299	355	56	10.2	16.4	21.4	19.8	8.4	7.3	6.6	224	7539	562	49.4	1678.5
MAR	70	15	153	5206	567	296	347	51	11.1	19.3	25.0	19.5	7.5	6.3	6.1	224	7540	562	49.6	1683.7
APR	70	16	274	8469	515	297	349	52	9.9	20.2	24.5	18.3	10.2	8.3	6.2	230	7678	557	49.9	1692.1
MAY	70	17	393	13131	557	307	366	59	9.4	16.1	21.5	20.1	8.2	7.6	6.2	234	7835	557	50.3	1705.3
JUN	70	18	454	15034	552	312	368	56	9.9	16.0	21.4	20.2	7.9	7.6	6.2	237	7922	557	50.7	1720.3
JUL	70	19	306	11982	546	308	366	58	9.4	15.4	21.5	20.6	7.1	6.9	6.3	234	7804	556	51.1	1732.3
AUG	70	20	214	7160	558	302	359	57	9.8	15.8	21.0	20.0	6.6	5.6	6.5	230	7661	556	51.3	1739.4
SEP	70	21	184	6258	567	299	358	59	9.6	16.3	21.8	20.3	6.6	5.9	6.3	232	7730	556	51.5	1745.7
OCT	70	22	155	5365	577	297	356	59	9.8	16.7	22.2	20.5	6.7	6.0	6.4	231	7702	556	51.6	1751.1
NOV	70	23	148	5034	567	294	356	62	9.1	16.6	21.9	21.9	6.3	5.6	6.6	232	7729	556	51.8	1756.1
DEC	70	24	123	4253	576	295	352	57	10.1	15.6	21.0	20.4	6.2	5.3	6.6	231	7708	556	51.9	1760.3
JAN	71	25	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	26	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	27	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	28	346	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	29	402	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	30	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	31	435	14572	558	316	370	54	10.3	16.6	23.1	20.8	8.2	8.2	6.6	263	8873	563	54.2	1838.8
AUG	71	32	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	33	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	34	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	35	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	36	145	4864	559	298	356	58	9.6	16.7	22.5	22.4	6.4	5.8	6.4	276	9320	563	55.2	1872.2

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL G-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		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	69	1	169	3320	439	341	376	35	12.3	14.2	14.6	14.7	6.3	4.3	4.6	227	5532	406	56.0	1516.8
FEB	69	2	142	5011	435	339	376	37	11.8	14.3	15.0	15.0	9.2	6.6	5.0	235	5748	408	56.2	1521.8
MAR	69	3	146	3773	431	341	376	35	12.3	13.9	14.5	14.9	6.4	4.6	5.0	237	5806	408	56.3	1525.6
APR	69	4	202	5208	430	341	376	35	12.3	14.1	14.9	15.1	6.6	4.9	5.0	241	5923	409	56.5	1530.8
MAY	69	5	329	8328	422	348	383	35	12.1	14.8	15.4	15.2	7.8	5.8	4.9	236	5826	412	56.8	1539.2
JUN	69	6	419	10390	413	352	387	35	11.8	15.2	15.5	15.0	7.9	5.7	4.9	227	5666	417	57.2	1549.5
JUL	69	7	404	9546	410	355	389	34	12.1	16.2	16.1	15.0	8.1	5.4	4.9	234	5876	418	57.7	1559.5
AUG	69	8	261	6615	422	350	387	37	11.4	16.5	16.3	15.0	7.2	4.6	4.7	246	6175	419	57.9	1566.1
SEP	69	9	152	4229	464	343	385	42	11.0	16.2	16.9	15.9	6.5	4.2	5.1	229	5816	423	58.1	1570.3
OCT	69	10	167	4377	437	343	383	40	10.9	16.6	16.5	15.1	7.1	4.6	5.1	226	5753	425	58.2	1574.7
NOV	69	11	138	3677	444	339	378	39	11.4	16.7	16.7	15.3	8.3	5.4	5.1	224	5730	426	58.4	1578.4
DEC	69	12	140	3762	448	339	376	37	12.1	17.6	18.1	15.4	7.5	5.0	5.1	223	5720	427	58.5	1582.1
JAN	70	13	154	4128	447	339	378	39	11.5	16.4	16.5	15.3	7.8	5.2	5.1	225	5787	428	58.7	1586.3
FEB	70	14	159	4224	443	341	379	38	11.7	16.4	16.5	15.3	8.4	5.7	5.1	223	5721	428	58.8	1590.5
MAR	70	15	11	300	455	334	371	37	12.3	1.4	1.4	15.7	.5	.4	4.6	211	5432	428	58.8	1590.8
APR	70	16	68	1843	452	336	379	43	10.5	5.0	5.3	16.0	2.5	1.8	4.9	200	5152	429	58.9	1592.6
MAY	70	17	392	10388	442	346	384	38	11.6	16.1	17.0	15.9	8.2	6.0	4.9	205	5323	432	59.3	1603.0
JUN	70	18	446	11566	432	352	388	36	12.0	15.7	16.5	15.8	7.7	5.8	4.7	208	5421	435	59.7	1614.6
JUL	70	19	363	8719	400	353	389	36	11.1	15.3	15.7	15.1	7.0	5.1	4.6	204	5319	434	60.1	1623.3
AUG	70	20	212	5440	428	347	386	39	11.0	15.7	16.0	15.4	6.5	4.2	4.8	200	5221	435	60.3	1628.8
SEP	70	21	187	4768	425	346	382	36	11.8	16.6	16.6	15.2	6.7	4.5	4.7	203	5266	432	60.5	1633.5
OCT	70	22	155	3998	430	341	379	38	11.3	16.7	16.5	15.3	6.7	4.5	4.7	202	5234	432	60.7	1637.5
NOV	70	23	149	3832	432	340	378	38	11.4	16.6	16.6	16.7	6.3	4.3	5.0	203	5247	431	60.8	1641.4
DEC	70	24	136	3559	436	337	374	37	11.8	17.3	17.6	15.5	6.8	4.4	5.0	203	5230	430	60.9	1644.9
JAN	71	25	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	26	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	27	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	28	314	8356	444	341	383	42	10.6	17.7	18.6	15.9	8.3	6.3	5.2	236	6104	432	61.7	1665.9
MAY	71	29	408	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	30	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	31	417	10176	407	354	394	40	10.2	16.0	16.1	15.1	7.9	5.7	4.8	263	6690	424	63.3	1703.6
AUG	71	32	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	33	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	34	271	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	35	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	36	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

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	69	1	129	2585	334	333	411	78	4.3	14.2	11.4	11.4	6.3	3.4	3.6	256	4687	305	55.7	1249.5
FEB	69	2	192	3741	325	333	414	81	4.0	14.3	11.2	11.2	9.2	4.9	3.8	265	4849	305	55.9	1253.2
MAR	69	3	148	2630	330	335	414	79	4.2	14.1	11.3	11.4	6.5	3.6	3.8	266	4867	305	56.1	1256.1
APR	69	4	205	4000	325	335	416	81	4.0	14.3	11.5	11.4	6.7	3.7	3.8	245	4484	306	56.3	1260.1
MAY	69	5	329	6005	304	344	421	77	4.0	14.8	11.1	10.9	7.8	4.2	3.5	239	4437	309	56.6	1266.1
JUN	69	6	419	7459	297	356	421	65	4.6	15.2	11.1	10.8	7.9	4.1	3.6	227	4302	316	57.0	1273.6
JUL	69	7	407	7031	288	358	425	67	4.3	16.3	11.3	10.5	8.1	3.9	3.5	235	4424	314	57.4	1280.6
AUG	69	8	251	4596	305	347	418	71	4.3	15.9	11.3	10.8	6.9	3.2	3.4	245	4592	312	57.7	1285.2
SEP	69	9	151	2995	331	335	418	83	4.0	16.0	12.0	11.4	6.4	3.0	3.9	228	4283	313	57.8	1288.2
OCT	69	10	165	3474	351	333	417	84	4.2	16.4	13.1	12.2	7.0	3.6	4.1	225	4238	314	58.0	1291.7
NOV	69	11	135	2935	362	326	414	88	4.1	16.3	13.3	12.4	8.1	4.3	4.2	223	4222	316	58.1	1294.6
DEC	69	12	141	3030	358	326	414	88	4.1	17.7	14.6	12.3	7.5	4.0	4.1	223	4232	317	58.3	1297.7
JAN	70	13	154	3497	378	326	416	90	4.2	16.4	14.0	13.0	7.8	4.4	4.3	225	4308	319	58.4	1301.2
FEB	70	14	159	3420	358	328	418	90	4.0	16.4	13.4	12.4	8.4	4.6	4.2	222	4281	321	58.6	1304.6
MAR	70	15	153	3334	363	326	414	88	4.1	19.3	16.0	12.5	7.5	4.0	3.9	222	4315	323	58.7	1307.9
APR	70	16	247	5214	352	330	417	87	4.0	18.2	15.1	12.5	9.2	5.1	3.8	226	4416	326	59.0	1313.1
MAY	70	17	341	7672	327	344	423	79	4.1	16.0	12.6	11.8	8.2	4.5	3.6	231	4555	329	59.4	1320.8
JUN	70	18	446	8531	319	349	424	75	4.3	15.7	12.2	11.7	7.7	4.3	3.6	233	4644	332	59.8	1329.3
JUL	70	19	361	6603	305	358	430	72	4.2	15.2	11.9	11.5	7.0	3.8	3.5	229	4608	335	60.2	1335.9
AUG	70	20	249	4280	341	345	420	75	4.6	15.4	12.6	12.3	6.4	3.3	3.8	226	4582	338	60.4	1340.2
SEP	70	21	185	3827	345	337	420	83	4.2	16.4	13.3	12.3	6.7	3.6	3.8	229	4651	339	60.6	1344.0
OCT	70	22	155	3217	346	334	416	82	4.2	16.7	13.3	12.3	6.7	3.6	3.8	228	4630	338	60.7	1347.3
NOV	70	23	148	3104	350	329	415	86	4.1	16.6	13.5	13.5	6.3	3.5	4.1	229	4644	338	60.9	1350.4
DEC	70	24	128	2664	347	327	415	88	3.9	16.2	13.2	12.3	6.4	3.3	3.9	228	4614	337	61.0	1353.0
JAN	71	25	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	26	141	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	27	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	28	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	29	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	30	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	31	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	32	316	6799	359	350	430	80	4.5	16.1	14.2	13.1	8.0	4.9	3.5	272	5311	325	63.7	1403.9
SEP	71	33	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	34	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	35	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	36	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

MONTHLY PUMPING AND PRODUCTION STATISTICS
FOR WELL G-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	69	1	169	1877	243	380	503	123	2.0	14.2	8.3	8.3	6.3	2.5	2.6	174	2586	248	39.7	680.1
FEB	69	2	192	2776	241	383	505	122	2.0	14.3	8.3	8.3	9.2	3.7	2.8	182	2685	246	39.9	682.9
MAR	69	3	148	2008	226	383	507	124	1.8	14.1	7.7	7.8	6.5	2.5	2.6	194	2853	245	40.0	684.9
APR	69	4	205	2495	203	385	510	125	1.6	14.3	7.2	7.1	6.7	2.3	2.4	211	3061	241	40.2	687.4
MAY	69	5	244	2928	200	394	512	118	1.7	11.0	5.4	7.2	5.8	2.1	2.3	227	3227	237	40.5	690.3
JUN	69	6	252	3392	224	399	517	118	1.9	9.1	5.1	8.1	4.8	1.8	2.7	203	2839	233	40.7	693.7
JUL	69	7	63	861	228	399	514	115	2.0	2.5	1.4	8.3	1.3	.5	2.8	183	2550	232	40.8	694.6
AUG	69	8	20	281	234	392	503	111	2.1	1.3	.7	8.3	.5	.2	2.6	176	2443	231	40.8	694.9
SEP	69	9	19	274	240	384	503	119	2.0	2.0	1.1	8.3	.8	.3	2.8	148	2031	228	40.8	695.1
OCT	69	10	12	172	239	383	496	113	2.1	1.2	.6	8.3	.5	.2	2.8	132	1789	226	40.9	695.3
NOV	69	11	9	131	243	380	496	116	2.1	1.1	.6	8.3	.5	.2	2.8	120	1611	224	40.9	695.4
DEC	69	12	16	231	241	378	496	118	2.0	2.0	1.1	8.3	.9	.3	2.8	109	1452	222	40.9	695.7
JAN	70	13	16	223	232	379	495	116	2.0	1.7	.9	8.0	.8	.3	2.7	100	1314	220	40.9	695.9
FEB	70	14	12	169	235	379	497	118	2.0	1.2	.7	8.1	.6	.2	2.7	85	1097	216	40.9	696.1
MAR	70	15	16	230	240	375	500	125	1.9	2.0	1.1	8.2	.8	.3	2.6	74	949	215	40.9	696.3
APR	70	16	26	383	246	379	501	122	2.0	1.9	1.1	8.7	1.0	.4	2.7	59	773	219	41.0	696.7
MAY	70	17	98	1379	235	368	516	128	1.8	4.0	2.3	8.4	2.0	.8	2.6	47	644	230	41.0	698.0
JUN	70	18	122	1558	213	392	517	125	1.7	4.3	2.2	7.8	2.1	.8	2.4	36	491	229	41.2	699.6
JUL	70	19	167	2182	194	402	522	120	1.6	7.9	3.9	7.4	3.6	1.3	2.0	46	601	217	41.4	701.8
AUG	70	20	68	815	200	394	513	119	1.7	5.0	2.4	7.2	2.1	.6	2.2	50	646	215	41.4	702.6
SEP	70	21	33	409	207	389	503	114	1.8	2.9	1.4	7.4	1.2	.4	2.3	51	657	214	41.5	703.0
OCT	70	22	8	97	202	383	496	113	1.8	.9	.4	7.2	.3	.1	2.2	51	651	213	41.5	703.1
NOV	70	23	-0	-0	0	380	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50	640	213	41.5	703.1
DEC	70	24	20	254	212	371	489	118	1.8	2.5	1.3	7.5	1.0	.3	2.4	50	642	212	41.5	703.4
JAN	71	25	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	26	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	27	32	408	213	378	489	111	1.9	2.4	1.2	7.6	1.0	.4	2.3	56	707	211	41.6	704.8
APR	71	28	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	29	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	30	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	31	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	32	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	33	60	762	212	392	512	120	1.8	3.8	2.0	8.1	1.6	.6	2.4	105	1332	211	42.7	719.0
OCT	71	34	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	35	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	36	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

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	69	1	169	4150	536	439	506	67	8.0	14.2	18.3	18.3	6.3	5.4	5.7	209	6736	537	50.1	1632.5
FEB	69	2	171	6096	532	441	511	70	7.6	14.3	18.3	18.3	9.2	8.0	6.2	217	6988	536	50.3	1638.6
MAR	69	3	157	5023	533	441	511	70	7.6	15.0	19.3	18.5	6.9	6.2	6.1	219	7040	535	50.5	1643.7
APR	69	4	205	6532	531	444	513	69	7.7	14.3	18.7	18.6	6.7	6.1	6.2	200	6404	534	50.7	1650.2
MAY	69	5	316	9895	522	460	534	74	7.1	14.2	18.3	18.8	7.5	6.9	6.1	193	6165	531	51.0	1660.1
JUN	69	6	419	12799	509	462	534	72	7.1	15.2	19.1	18.5	7.9	7.0	6.1	180	5694	528	51.4	1672.9
JUL	69	7	407	12564	514	464	536	72	7.1	16.3	20.3	18.8	8.1	6.9	6.2	188	5920	525	51.8	1685.4
AUG	69	8	202	8258	525	460	529	69	7.6	16.6	20.3	18.7	7.2	5.7	5.8	202	6346	524	52.1	1693.7
SEP	69	9	159	5058	530	448	522	74	7.2	16.9	20.3	18.2	6.8	5.0	6.2	215	6767	524	52.3	1698.8
OCT	69	10	165	5252	531	450	522	72	7.4	16.4	19.8	18.4	7.0	5.5	6.2	221	6958	524	52.4	1704.0
NOV	69	11	137	4388	534	446	513	67	8.0	16.6	19.9	18.3	8.3	6.5	6.2	220	6905	524	52.6	1708.4
DEC	69	12	102	3285	537	446	515	69	7.8	12.8	15.8	18.5	5.5	4.3	6.2	221	6942	524	52.7	1711.7
JAN	70	13	162	5182	533	447	516	69	7.7	17.3	20.7	18.3	8.2	6.5	6.1	223	7028	524	52.8	1716.9
FEB	70	14	157	5028	534	449	513	64	8.3	16.2	19.7	18.4	8.3	6.7	6.2	221	6939	524	53.0	1721.9
MAR	70	15	153	4887	532	446	513	67	7.9	19.3	23.5	18.3	7.5	5.9	5.7	220	6927	524	53.1	1726.8
APR	70	16	247	7832	528	448	514	66	8.0	18.2	22.7	18.7	9.2	7.7	5.7	224	7036	524	53.4	1734.6
MAY	70	17	378	12482	523	454	522	68	7.7	16.3	20.5	18.8	8.3	7.2	5.8	231	7251	524	53.8	1747.1
JUN	70	18	459	14555	529	460	528	68	7.8	16.2	20.8	19.4	7.9	7.3	6.0	234	7398	527	54.2	1761.6
JUL	70	19	366	11603	528	466	532	66	8.0	15.4	20.8	20.0	7.1	6.7	6.1	231	7317	529	54.6	1773.3
AUG	70	20	218	7088	542	459	527	68	8.0	16.1	20.8	19.5	6.7	5.5	6.1	227	7220	530	54.8	1780.3
SEP	70	21	184	6013	545	456	527	71	7.7	16.3	20.9	19.5	6.6	5.6	6.0	229	7300	531	55.0	1786.4
OCT	70	22	155	5218	561	453	522	69	8.1	16.7	21.6	19.9	6.7	5.9	6.1	228	7297	533	55.2	1791.6
NOV	70	23	148	4871	549	451	523	72	7.6	16.6	21.2	21.2	6.3	5.5	6.4	229	7337	534	55.3	1796.4
DEC	70	24	124	4112	553	452	518	66	8.4	15.7	20.3	19.6	6.2	5.1	6.3	231	7406	535	55.4	1800.6
JAN	71	25	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	26	140	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	27	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	28	313	10357	551	458	525	67	8.2	17.6	23.1	19.8	8.3	7.8	6.1	237	7684	539	56.2	1826.8
MAY	71	29	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	30	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	31	309	14344	648	463	538	75	8.6	14.1	22.7	24.1	7.0	8.0	6.5	207	6954	560	57.1	1856.7
AUG	71	32	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	33	205	8200	516	435	511	76	6.8	16.6	21.8	19.7	7.0	6.1	6.2	222	7400	556	57.7	1875.2
OCT	71	34	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	35	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	36	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

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

DATE MO	DATE YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WTR LEVEL NON PUMP FT	WTR LEVEL PUMP FT	DRW DOWN FT	SPEC CAP-ACITY GPM/FT	PRCNT OF FILED PUMP TIME	PRCNT OF FILED PUMP-AGE	PRCNT OF FILED RATE	PRCNT OF TOTAL PUMP TIME	PRCNT OF TOTAL PUMP-AGE	PRCNT OF TOTAL RATE	YRLY AVRAGE PUMP TIME HR	YRLY AVRAGE PUMP-AGE THSND GAL	YRLY AVRAGE RATE GPM	CUMULTIVE PUMP TIME THSND HR	CUMULTIVE PUMP-AGE MILLN GAL
JAN	69	1	133	2895	363	561	626	65	5.6	14.7	12.8	12.4	6.5	3.8	3.9	227	4927	361	14.2	329.0
FEB	69	2	171	4121	360	564	633	69	5.2	14.3	12.4	12.4	9.2	5.4	4.2	243	5271	361	14.4	333.1
MAR	69	3	157	3395	360	564	631	67	5.4	15.0	13.1	12.5	6.9	4.2	4.1	253	5467	360	14.6	336.5
APR	69	4	209	4471	357	566	633	67	5.3	14.6	12.8	12.5	6.9	4.2	4.2	238	5105	357	14.8	341.0
MAY	69	5	339	7118	350	578	645	67	5.2	15.2	13.2	12.6	8.0	5.0	4.1	235	4987	354	15.1	348.1
JUN	69	6	418	8586	342	585	649	64	5.3	15.1	12.8	12.4	7.9	4.7	4.1	228	4832	354	15.5	356.7
JUL	69	7	407	8127	333	587	654	67	5.0	16.3	13.1	12.1	8.1	4.5	4.0	236	4976	352	15.9	364.8
AUG	69	8	258	5177	334	575	640	65	5.1	16.3	12.7	11.9	7.1	3.6	3.7	248	5219	350	16.2	370.0
SEP	69	9	155	3135	337	564	633	69	4.9	16.5	12.6	11.6	6.6	3.1	3.9	232	4858	349	16.4	373.1
OCT	69	10	104	3299	335	564	633	69	4.9	16.3	12.4	11.6	7.0	3.5	3.9	228	4750	347	16.5	376.4
NOV	69	11	135	2682	331	557	626	69	4.8	16.3	12.2	11.4	8.1	4.0	3.8	226	4692	345	16.7	379.1
DEC	69	12	132	2621	331	554	626	72	4.6	16.6	12.6	11.4	7.1	3.5	3.8	225	4636	344	16.8	381.8
JAN	70	13	148	2939	331	557	627	70	4.7	15.8	11.7	11.3	7.5	3.7	3.8	226	4639	342	16.9	384.7
FEB	70	14	166	3306	332	560	629	69	4.8	17.1	12.9	11.5	8.8	4.4	3.8	224	4571	340	17.1	388.0
MAR	70	15	153	2976	324	557	625	68	4.8	19.3	14.3	11.2	7.5	3.6	3.5	224	4536	338	17.3	391.0
APR	70	16	247	4684	316	562	631	69	4.6	18.2	13.6	11.2	9.2	4.6	3.4	227	4554	335	17.5	395.7
MAY	70	17	397	7314	307	573	640	67	4.6	16.3	12.0	11.1	8.3	4.2	3.4	232	4570	329	17.9	403.0
JUN	70	18	456	8329	304	581	644	63	4.8	16.0	11.9	11.1	7.9	4.2	3.4	235	4549	323	18.4	411.3
JUL	70	19	366	6488	295	591	655	64	4.6	15.4	11.7	11.2	7.1	3.8	3.4	231	4412	318	18.7	417.8
AUG	70	20	215	4081	316	575	640	65	4.9	15.9	12.0	11.4	6.6	3.2	3.4	228	4321	316	18.9	421.9
SEP	70	21	193	3304	301	569	635	66	4.6	16.2	11.5	10.8	6.6	3.1	3.3	230	4335	314	19.1	425.2
OCT	70	22	155	2736	294	568	630	62	4.7	16.7	11.3	10.4	6.7	3.1	3.3	229	4288	312	19.3	427.9
NOV	70	23	150	2620	291	566	626	60	4.9	16.9	11.4	11.2	6.4	2.9	3.3	231	4283	309	19.4	430.5
DEC	70	24	149	2235	289	564	621	57	5.1	16.4	11.1	10.2	6.5	2.8	3.3	230	4251	307	19.6	432.8
JAN	71	25	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	26	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	27	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	28	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	29	482	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	30	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	31	362	4565	210	590	642	52	4.0	13.8	7.2	7.8	6.9	2.6	2.5	255	4074	266	21.8	466.7
AUG	71	32	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	33	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	34	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	35	-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	36	-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

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			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	69	1	154	5567	602	735	765	30	20.1	32.0	17.2	18.1	7.5	7.3	6.4	144	5292	611	10.7	391.9
FEB	69	2	161	5938	615	735	767	32	19.2	30.3	16.3	18.3	7.7	7.8	7.2	155	5695	611	10.9	397.8
MAR	69	3	178	6389	598	735	765	30	19.9	33.3	18.3	18.3	7.8	7.8	6.9	158	5754	607	11.0	404.2
APR	69	4	233	8369	599	737	767	30	20.0	33.9	18.5	18.1	7.7	7.8	7.0	177	6431	606	11.3	412.5
MAY	69	5	221	7962	600	739	769	30	20.0	28.9	15.2	18.2	5.2	5.6	7.0	184	6663	604	11.5	420.5
JUN	69	6	-0	-0	0	732	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	163	5930	605	11.5	420.5
JUL	69	7	-0	-0	0	730	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148	5383	605	11.5	420.5
AUG	69	8	4	144	600	730	762	32	18.7	.5	.2	18.0	.1	.1	6.6	136	4939	604	11.5	420.7
SEP	69	9	-0	-0	0	730	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114	4128	604	11.5	420.7
OCT	69	10	-0	-0	0	730	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98	3564	604	11.5	420.7
NOV	69	11	-0	-0	0	730	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88	3194	604	11.5	420.7
DEC	69	12	-0	-0	0	728	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79	2864	602	11.5	420.7
JAN	70	13	-0	-0	0	727	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66	2400	602	11.5	420.7
FEB	70	14	-0	-0	0	727	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53	1905	599	11.5	420.7
MAR	70	15	2	65	542	725	765	40	13.5	.4	.2	16.6	.1	.1	7.7	38	1378	599	11.5	420.7
APR	70	16	254	9878	648	732	772	40	16.2	34.8	20.3	19.2	9.4	9.7	7.0	40	1504	625	11.8	430.6
MAY	70	17	187	7452	664	735	773	38	17.5	19.9	10.8	19.5	3.9	4.3	7.3	37	1462	654	11.9	438.1
JUN	70	18	323	11480	592	738	771	33	18.0	29.5	15.4	17.9	5.6	5.8	6.7	64	2418	628	12.3	449.5
JUL	70	19	320	11312	589	740	770	30	19.6	33.5	17.8	17.8	6.2	6.6	6.8	91	3361	617	12.6	460.8
AUG	70	20	1	23	383	732	-0	0	0.0	.1	.0	12.3	.0	.0	6.3	91	3351	617	12.6	460.9
SEP	70	21	190	6825	599	737	768	31	19.3	26.9	13.8	18.0	6.8	6.4	6.6	106	3920	614	12.8	467.7
OCT	70	22	146	5317	607	735	768	33	18.4	26.3	13.4	18.2	6.3	6.0	6.7	119	4363	613	12.9	473.0
NOV	70	23	145	5313	611	734	765	31	19.7	25.5	13.2	18.3	6.2	5.9	6.8	131	4805	613	13.1	478.3
DEC	70	24	213	8509	666	736	772	36	18.5	33.3	19.7	19.7	10.7	10.5	7.6	148	5514	619	13.3	486.8
JAN	71	25	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	26	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	27	280	9847	586	731	765	34	17.2	35.7	19.2	17.7	9.0	8.7	6.5	197	7337	622	13.9	508.8
APR	71	28	199	7040	590	732	765	33	17.9	26.3	13.3	17.9	5.3	5.3	6.5	192	7101	616	14.1	515.8
MAY	71	29	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	30	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	31	346	12657	610	738	771	33	18.5	31.6	17.3	18.6	6.6	7.1	7.2	201	7427	615	15.0	550.0
AUG	71	32	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	33	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	34	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	35	147	5601	635	733	766	33	19.2	23.7	12.5	19.0	6.1	6.1	7.1	232	8646	621	15.9	582.1
DEC	71	36	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

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	69	1	172	14560	1411	835	888	53	26.6	35.8	45.1	42.5	8.4	19.0	15.1	309	26193	1414	8.6	731.7
FEB	69	2	209	17705	1412	838	888	50	28.2	39.4	48.5	42.0	10.1	23.3	16.4	302	25596	1414	8.8	749.4
MAR	69	3	178	15066	1411	835	886	51	27.7	33.3	43.1	43.1	7.8	18.5	16.2	290	24639	1414	9.0	764.5
APR	69	4	221	18807	1418	835	888	53	26.8	32.2	41.6	42.8	7.3	17.6	16.6	279	23652	1414	9.2	783.3
MAY	69	5	276	23309	1408	838	891	53	26.6	36.0	44.6	42.5	6.6	16.3	16.3	274	23241	1413	9.5	806.6
JUN	69	6	396	33488	1409	838	891	53	26.6	48.5	50.7	52.2	7.5	18.2	16.6	269	22812	1412	9.9	840.1
JUL	69	7	448	37848	1408	840	893	53	26.6	50.5	52.1	51.7	8.9	20.7	17.0	274	23239	1412	10.3	877.9
AUG	69	8	427	35552	1411	842	893	51	27.7	50.9	52.7	42.3	11.5	24.5	15.6	281	23811	1411	10.7	913.5
SEP	69	9	321	27220	1413	838	893	55	25.7	49.5	51.2	51.7	13.7	26.8	16.5	283	23954	1412	11.1	940.7
OCT	69	10	260	22080	1415	838	893	55	25.7	50.6	52.3	51.7	11.0	23.2	16.4	282	23911	1412	11.3	962.8
NOV	69	11	195	16540	1414	838	891	53	26.7	50.1	51.9	51.7	11.8	24.5	16.4	278	23574	1412	11.5	979.3
DEC	69	12	208	17742	1422	835	891	56	25.4	50.0	51.8	51.8	11.1	23.5	16.4	275	23327	1412	11.7	997.1
JAN	70	13	211	17938	1417	836	890	54	26.2	49.8	51.6	51.9	10.7	22.6	16.3	279	23608	1412	11.9	1015.0
FEB	70	14	200	16972	1414	837	890	53	26.7	50.0	51.8	51.8	10.5	22.7	16.4	278	23547	1413	12.1	1032.0
MAR	70	15	217	18424	1415	837	891	54	26.2	46.1	48.0	43.3	10.7	22.2	15.2	281	23827	1413	12.4	1050.4
APR	70	16	258	20255	1418	836	891	55	25.8	32.6	41.5	42.0	8.9	19.8	15.3	282	23947	1413	12.6	1070.7
MAY	70	17	359	30673	1424	839	893	54	26.4	38.2	44.4	41.9	7.5	17.8	15.7	289	24561	1414	13.0	1101.3
JUN	70	18	405	34484	1419	840	894	54	26.3	37.0	46.4	42.9	7.0	17.4	16.1	290	24644	1416	13.4	1135.8
JUL	70	19	396	33759	1421	840	894	54	26.3	41.5	53.1	43.0	7.6	19.6	16.4	286	24303	1417	13.8	1169.6
AUG	70	20	361	32509	1422	841	895	54	26.3	51.9	54.1	45.7	11.7	25.2	15.0	283	24050	1418	14.1	1202.1
SEP	70	21	328	28010	1423	840	895	55	25.9	46.4	56.4	42.8	11.8	26.2	15.8	283	24115	1419	14.5	1230.1
OCT	70	22	307	26168	1421	840	895	55	25.8	55.2	66.1	42.5	13.2	29.4	15.7	287	24456	1420	14.8	1256.3
NOV	70	23	274	23356	1421	841	895	54	26.3	48.2	57.9	42.5	11.7	26.1	16.1	294	25024	1420	15.0	1279.6
DEC	70	24	213	18082	1415	838	894	56	25.3	33.3	41.8	41.8	10.7	22.3	16.1	294	25052	1420	15.3	1297.7
JAN	71	25	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	26	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	27	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	28	353	29811	1408	842	896	54	26.1	46.6	56.5	42.8	9.3	22.3	15.7	311	26455	1419	16.3	1388.1
MAY	71	29	371	31354	1409	842	898	56	25.2	41.4	50.8	42.9	7.0	18.6	16.1	312	26512	1418	16.7	1419.5
JUN	71	30	400	38806	1406	844	899	55	25.6	35.4	43.3	42.3	5.8	15.2	16.2	316	26872	1416	17.2	1458.3
JUL	71	31	452	37564	1385	844	902	58	23.9	41.3	51.4	42.2	8.6	21.0	16.4	321	27189	1412	17.6	1495.8
AUG	71	32	393	32877	1394	842	900	58	24.0	45.9	56.1	42.0	9.9	23.6	15.9	322	27220	1409	18.0	1528.7
SEP	71	33	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	34	303	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	35	349	29333	1401	842	900	58	24.2	56.3	65.6	41.9	14.5	31.8	16.2	336	28287	1403	19.1	1619.1
DEC	71	36	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

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	69	1	155	12146	1306	743	769	26	50.2	32.2	37.6	39.3	7.6	15.9	14.0	207	16616	1340	2.5	199.6
FEB	69	2	161	12879	1333	743	769	26	51.3	30.3	35.3	39.7	7.7	16.9	15.5	202	16152	1333	2.6	212.5
MAR	69	3	178	13535	1267	743	769	26	48.7	33.3	38.7	38.7	7.8	16.6	14.9	204	16196	1324	2.8	226.0
APR	69	4	233	18085	1294	743	769	26	49.8	33.9	40.0	39.1	7.7	16.9	15.2	210	16617	1319	3.1	244.1
MAY	69	5	269	20984	1300	745	771	26	50.0	35.1	40.2	39.3	6.4	14.7	15.0	208	16412	1315	3.3	265.1
JUN	69	6	420	32533	1291	746	771	25	51.6	51.5	49.3	47.8	8.0	17.7	15.8	213	16656	1306	3.7	297.6
JUL	69	7	440	34789	1318	746	773	27	48.8	49.5	47.9	48.3	8.8	19.1	15.8	224	17552	1306	4.2	332.4
AUG	69	8	401	31808	1322	746	773	27	49.0	48.6	47.1	39.7	11.0	21.9	14.6	245	19266	1308	4.6	364.2
SEP	69	9	368	25553	1319	748	773	25	52.7	50.5	48.8	48.3	14.0	25.6	15.4	250	19657	1308	4.9	390.2
OCT	69	10	254	20120	1320	750	776	26	50.8	49.4	47.7	48.3	10.8	21.1	15.3	256	20108	1308	5.2	410.3
NOV	69	11	194	15346	1318	750	773	23	57.3	49.9	48.1	48.3	11.7	22.7	15.2	262	20576	1309	5.4	425.6
DEC	69	12	208	16478	1320	748	773	25	52.8	50.0	48.2	48.2	11.1	21.8	15.2	270	21221	1310	5.6	442.1
JAN	70	13	213	16797	1314	748	773	25	52.6	50.2	48.4	48.1	10.8	21.2	15.3	275	21609	1310	5.8	458.9
FEB	70	14	200	15784	1315	749	773	24	54.8	50.0	48.2	48.2	10.5	21.1	15.3	278	21851	1309	6.0	474.7
MAR	70	15	252	19882	1315	749	773	24	54.8	53.5	51.8	40.2	12.4	24.0	14.1	284	22380	1312	6.2	494.6
APR	70	16	237	18636	1311	749	774	25	52.4	32.5	38.2	38.8	8.8	18.3	14.2	285	22426	1313	6.5	513.2
MAY	70	17	393	30925	1311	750	775	25	52.5	41.9	44.8	38.6	8.2	18.0	14.5	295	23254	1314	6.9	544.1
JUN	70	18	366	28422	1294	751	774	23	56.3	33.5	38.2	39.2	6.3	14.3	14.6	290	22912	1314	7.2	572.5
JUL	70	19	238	18462	1293	751	774	23	56.2	24.9	29.1	39.1	4.6	10.7	14.9	274	21551	1312	7.5	591.0
AUG	70	20	352	27566	1305	750	775	25	52.2	48.0	45.9	42.0	10.8	21.4	14.6	270	21198	1311	7.8	618.6
SEP	70	21	189	14796	1305	750	774	24	54.4	26.7	29.8	39.2	6.8	13.9	14.5	258	20268	1309	8.0	633.4
OCT	70	22	103	8106	1312	750	773	23	57.0	18.5	20.5	39.3	4.4	9.1	14.5	245	19267	1308	8.1	641.5
NOV	70	23	149	11699	1309	750	773	23	56.9	26.2	29.0	39.2	6.4	13.1	14.7	242	18963	1308	8.3	653.2
DEC	70	24	213	16700	1307	750	773	23	56.8	33.3	38.6	38.6	10.7	20.6	14.9	242	18981	1307	8.5	669.9
JAN	71	25	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	26	211	16605	1312	750	773	23	57.0	35.6	40.9	38.5	11.6	22.6	15.3	243	19070	1306	8.9	703.5
MAR	71	27	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	28	225	15884	1291	751	773	22	58.7	27.1	30.1	39.3	5.4	11.9	14.4	236	18442	1304	9.3	734.5
MAY	71	29	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	30	486	37689	1292	753	775	22	58.7	37.4	42.0	38.9	6.1	14.8	15.2	237	18476	1302	10.1	794.3
JUL	71	31	296	22881	1288	753	776	23	56.0	27.1	31.3	39.2	5.6	12.8	15.2	241	18844	1301	10.4	817.1
AUG	71	32	207	16264	1310	750	776	26	50.4	24.2	27.7	39.4	5.2	11.7	14.9	229	17902	1301	10.6	833.4
SEP	71	33	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	34	128	9584	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	35	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	36	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