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Water Supply at Los Alamos During 1974

by

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WATER SUPPLY AT LOS ALAMOS DURING 1974

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William D. Purtymun

ABSTRACT

The Los Alamos water supply for 1974 consisted of 1624 x 10^6 gal from 16 wells in three fields, with an additional 35 x 10^6 gal from a gallery in Water Canyon. Water-level trends are as anticipated under current pumpage practices. Recommendations for a new well in the Pajarito field and a replacement well in the Guaje field are still valid. An exceedingly dry spring and summer, or an outage of a high-yield well, could result in a shortage of supply for an indefinite period of time.

Monthly pumping and production data are presented for the years 1972, 1973, and 1974 for each of the 16 wells and the Water Canyon gallery.

I. INTRODUCTION

This report summarizes pumpage and pump aquifer conditions for 16 wells in the Los Alamos, Guaje, and Pajarito well fields. These wells supply most of the water used for municipal and industrial purposes in Los Alamos; a gallery in Water Canyon which supplies the balance of the Los Alamos water supply is also discussed briefly. The appendix contains basic pumping and production statistics for supply wells, on a monthly basis, for 1972, 1973, and 1974.

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 ERDA-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. This joint effort ensures reliable and continuing historical records, provides guidance for management of water resources and facilities, and provides for long-range planning for the water-supply system. One summary report[1] and three previous annual reports[2-4] have been issued on these studies. A fifth report[5] extrapolates water-level trends for 10 years (to 1983), utilizing past records of water levels and pumpage, and presents a history of each well and recommendations for improving production.

Pump operating time and pumpage are taken from monthly operating reports. Monthly average nonpumping and pumping water levels are computed from air-line recorders operated on each well. These data provide input to a computer program that

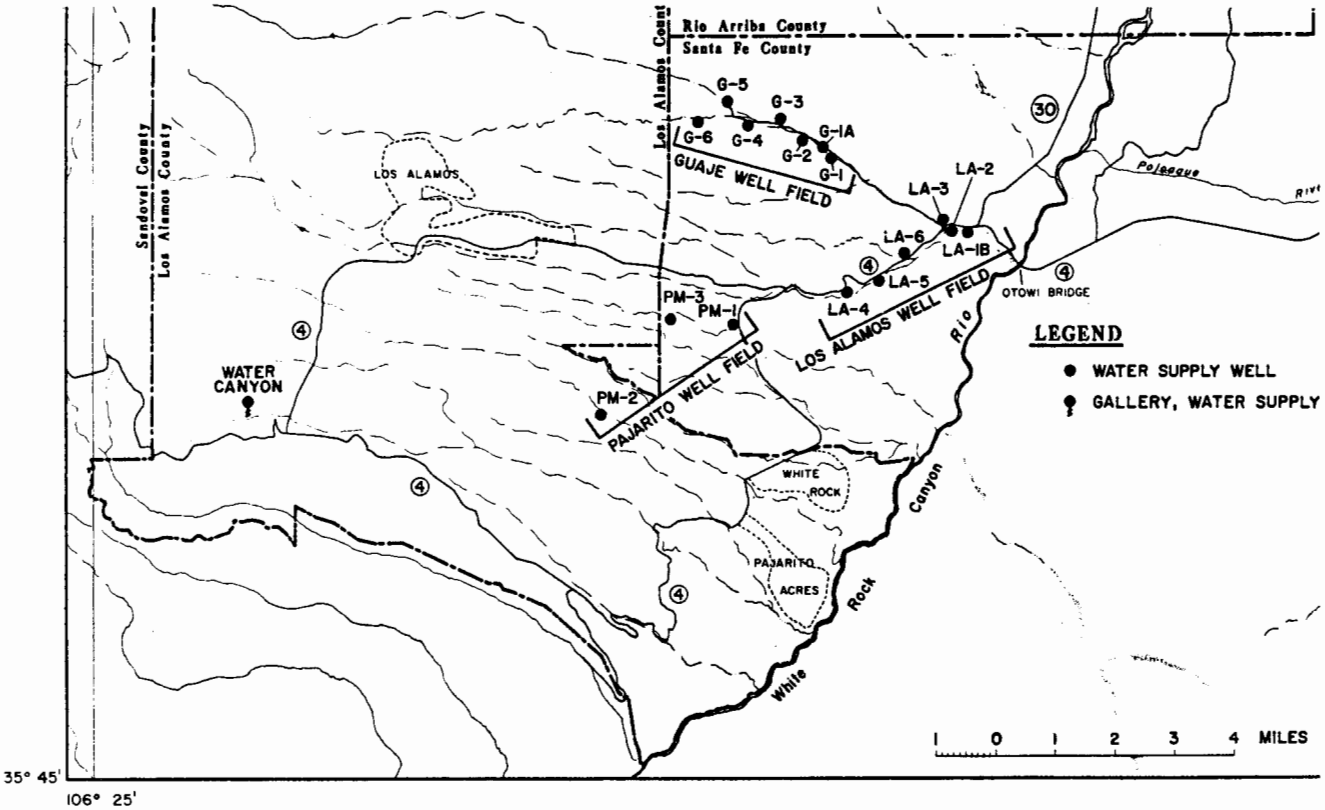

Fig. 1. Location of well fields, supply wells, and gallery water supply.

calculates pumping rates, drawdown (difference between monthly average nonpumping and pumping water levels), specific capacity (pump rate per unit drawdown), and other statistics of interest.

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

II. WELL-FIELD CHARACTERISTICS

Production during 1974 was from six wells in the Los Alamos field, seven wells in the Guaje field, and three wells in the Pajarito field (Fig. 1). The pumpage from the three fields increased by 58 x 10^6 gal, from 1566 x 10^6 gal in 1973 to 1624 x 10^6 gal in 1974 (Table I). The total pumpage from the three well fields since 1947 has been 28 373 x 10^6 gal. The annual production for the individual wells is shown in Table II, and monthly production data for 1972, 1973, and 1974 are given in the Appendix.

The average yearly pumping rate for the three well fields increased by 122 gpm, from 8707 gpm in 1973 to 8829 gpm in 1974 (Table III). The maximum average pumping rate was 9139 gpm in 1968. The average yearly pumping rate indicates the pumping condition of wells in the three fields and should not be construed to mean that water can be delivered continuously at this rate.

The heaviest demand for water in 1974 occurred in May, June, and July, while January, February, March, and November were months of least pumpage (Table IV). As a result, the highest water levels in the well fields occurred in the winter and early spring when pumpage is the least, and the lowest levels occurred during the late spring and summer when pumpage is greatest.

Tables V and VI present yearly percentages of total pumpage and field pumpage, respectively, for all wells.

TABLE I

TOTAL PUMPAGE BY FIELD BY YEAR
IN MILLIONS OF GALLONS

YEAR	LOS ALAMOS CANYON			GUAJE CANYON			PAJARITO MESA			ALL FIELDS	
	PUMP-AGE	PER-CENT	CUMU-LATIVE	PUMP-AGE	PER-CENT	CUMU-LATIVE	PUMP-AGE	PER-CENT	CUMU-LATIVE	PUMP-AGE	CUMU-LATIVE
1947	147	100.0	147	0	0.0	0	0	0.0	0	147	147
1948	264	100.0	411	0	0.0	0	0	0.0	0	264	411
1949	302	100.0	713	0	0.0	0	0	0.0	0	302	713
1950	547	99.5	1260	3	.5	3	0	0.0	0	550	1263
1951	702	91.1	1961	68	8.9	71	0	0.0	0	770	2032
1952	448	56.1	2409	350	43.9	421	0	0.0	0	798	2830
1953	444	54.4	2853	372	45.6	793	0	0.0	0	816	3646
1954	380	50.3	3233	374	49.7	1168	0	0.0	0	754	4400
1955	407	52.1	3640	375	47.9	1542	0	0.0	0	782	5182
1956	437	46.4	4077	506	53.6	2048	0	0.0	0	942	6125
1957	350	48.1	4426	378	51.9	2425	0	0.0	0	727	6852
1958	372	48.5	4798	395	51.5	2821	0	0.0	0	767	7619
1959	391	45.0	5189	478	55.0	3298	0	0.0	0	869	8487
1960	530	49.8	5719	533	50.2	3831	0	0.0	0	1062	9550
1961	546	46.7	6265	624	53.3	4455	0	0.0	0	1170	10720
1962	577	49.1	6842	597	50.9	5052	0	0.0	0	1174	11894
1963	539	45.2	7381	654	54.8	5706	0	0.0	0	1193	13087
1964	627	48.5	8008	665	51.5	6372	0	0.0	0	1292	14380
1965	447	40.0	8455	571	51.1	6943	99	8.9	99	1117	15497
1966	450	37.8	8905	613	51.5	7556	127	10.7	226	1191	16687
1967	373	28.3	9279	454	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	434	31.1	9835	657	42.3	3111	1553	23673
1972	380	25.2	11107	467	30.9	10302	662	43.9	3774	1510	25183
1973	406	25.9	11512	475	30.3	10778	685	43.7	4459	1566	26748
1974	369	22.7	11881	453	27.9	11231	802	49.4	5261	1624	28373

TABLE II

TOTAL PUMPAGE BY WELL BY YEAR
IN MILLIONS OF GALLONS

YEAR	LOS ALAMOS CANYON WELL FIELD							GUAJE CANYON WELL FIELD							PAJARITO MESA WELL FIELD			TOTAL
	LA-1	LA-1B	LA-2	LA-3	LA-4	LA-5	LA-6	G-1	G-1A	G-2	G-3	G-4	G-5	G-6	PM-1	PM-2	PM-3	
1947	54	0	28	65	0	0	0	0	0	0	0	0	0	0	0	0	0	147
1948	35	0	59	83	43	40	5	0	0	0	0	0	0	0	0	0	0	264
1949	27	0	42	42	37	58	96	0	0	0	0	0	0	0	0	0	0	302
1950	11	0	16	58	165	130	168	3	0	0	0	0	0	0	0	0	0	550
1951	15	0	58	67	174	187	201	38	0	4	7	13	7	0	0	0	0	770
1952	3	0	46	59	120	110	110	75	0	78	65	57	74	0	0	0	0	798
1953	0	0	47	70	109	104	114	97	0	106	76	55	38	0	0	0	0	816
1954	0	0	57	57	78	80	107	78	5	86	66	59	81	0	0	0	0	754
1955	10	0	49	49	94	97	108	70	53	79	69	23	80	0	0	0	0	782
1956	0	0	44	42	120	105	126	83	108	96	88	34	97	0	0	0	0	942
1957	0	0	30	26	105	86	102	56	87	76	70	24	64	0	0	0	0	727
1958	0	0	31	34	110	90	107	68	93	80	69	36	49	0	0	0	0	767
1959	0	0	41	35	114	93	108	82	103	85	75	32	102	0	0	0	0	869
1960	0	36	52	38	146	119	139	96	123	97	82	37	98	0	0	0	0	1062
1961	0	125	44	35	130	100	113	112	147	105	80	45	134	0	0	0	0	1170
1962	0	129	36	45	129	108	129	94	136	100	84	42	142	0	0	0	0	1174
1963	0	117	41	42	130	105	103	115	150	106	87	46	151	0	0	0	0	1193
1964	0	130	34	50	155	119	138	114	129	105	79	43	150	45	0	0	0	1292
1965	0	98	40	43	111	51	104	91	117	83	66	24	117	75	99	0	0	1117
1966	0	84	21	46	116	79	104	103	133	95	74	34	83	92	108	19	0	1191
1967	0	85	5	47	77	74	85	70	91	68	53	45	80	58	111	370	0	1319
1968	0	74	11	43	82	63	72	79	103	66	56	31	81	56	68	328	187	1402
1969	0	76	4	40	62	68	82	68	91	69	51	17	83	56	34	280	255	1335
1970	0	80	7	44	83	66	79	65	92	63	55	8	89	51	66	301	228	1377
1971	0	89	32	45	89	74	82	68	112	87	64	21	88	43	101	340	216	1553
1972	0	75	39	40	83	64	79	66	94	73	51	33	92	57	85	385	192	1510
1973	0	87	47	20	92	68	91	67	88	72	47	37	97	65	47	381	258	1566
1974	0	74	37	43	82	53	80	62	93	82	49	34	69	64	96	451	255	1624

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	536	340	333	585	470	581	424	552	386	317	220	556	0	0	0	0	5298
1964	0	520	296	326	574	467	543	434	560	386	292	201	553	392	0	0	0	5545
1965	0	543	347	369	597	484	550	428	554	389	312	189	554	390	600	0	0	6307
1966	0	540	333	344	588	469	546	420	561	395	308	252	543	391	583	1429	0	7701
1967	0	562	346	347	605	485	567	446	559	410	320	277	554	393	645	1422	0	7939
1968	0	565	375	335	598	472	565	439	557	405	305	251	539	361	615	1415	1343	9139
1969	0	562	407	322	608	475	566	429	561	427	317	222	524	344	602	1412	1310	9088
1970	0	561	354	319	596	468	564	398	556	430	337	212	535	307	619	1420	1307	8983
1971	0	564	296	296	589	466	556	389	563	426	321	213	554	243	617	1402	1308	8796
1972	0	566	299	300	593	467	569	384	544	424	299	196	531	378	586	1393	1309	8837
1973	0	553	296	344	589	460	573	375	531	429	278	206	541	364	460	1388	1320	8707
1974	0	540	301	316	594	460	569	375	520	447	273	214	560	360	466	1381	1313	8829

TABLE IV

PRODUCTION AND CLIMATOLOGY BY MONTHS FOR 1974

Month	Pumpage (Mil of gal)	Percent of An. Pumpage	Mean Temp (°F)	Precipitation (in.)
January	85	5	21	1.55
February	77	5	25	0.36
March	85	5	39	1.11
April	139	9	43	0.45
May	238	15	55	0.11
June	232	14	62	0.88
July	197	12	61	3.38
August	130	8	58	3.94
September	154	9	51	1.71
October	111	7	44	3.86
November	81	5	32	0.47
December	95	6	22	0.87

TABLE V

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	1.0	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	25.2	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	19.7	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	19.7	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	9.6	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	7.8	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	4.8	4.9	23.4	13.4
1969	0.0	5.7	.3	3.0	4.6	5.1	6.1	5.1	6.8	5.1	3.8	1.3	6.2	4.2	2.6	21.0	19.1
1970	0.0	5.8	.5	3.2	6.1	4.8	5.7	4.7	6.7	4.6	4.0	.6	6.5	3.7	4.8	21.8	16.5
1971	0.0	5.7	2.0	2.9	5.7	4.8	5.3	4.4	7.2	5.6	4.1	1.4	5.7	2.8	6.5	21.9	13.9
1972	0.8	5.0	2.6	2.6	5.5	4.3	5.2	4.4	6.2	4.9	3.4	2.2	6.1	3.8	5.6	25.5	12.7
1973	0.0	5.6	3.0	1.3	5.9	4.4	5.8	4.3	5.6	4.6	3.0	2.4	6.2	4.2	3.0	24.3	16.5
1974	0.0	4.5	2.3	2.7	5.1	3.2	4.9	3.8	5.7	5.0	3.0	2.1	4.2	3.9	5.9	27.8	15.7

TABLE VI

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	24.7	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	29.8	16.5	21.3	18.9	17.4	6.7	19.2	0.0	0.0	0.0	0.0
1957	0.0	0.0	8.5	7.5	30.1	24.6	29.3	14.8	23.0	20.2	18.6	6.4	17.0	0.0	0.0	0.0	0.0
1958	0.0	0.0	8.4	9.0	29.7	24.2	28.7	17.2	23.4	20.3	17.6	9.1	12.4	0.0	0.0	0.0	0.0
1959	0.0	0.0	10.4	8.9	29.0	23.9	27.7	17.3	21.5	17.7	15.6	6.6	21.3	0.0	0.0	0.0	0.0
1960	0.0	6.9	9.7	7.2	27.5	22.5	26.2	18.0	23.0	18.1	15.5	6.9	18.4	0.0	0.0	0.0	0.0
1961	0.0	22.8	8.1	6.4	23.7	18.4	20.6	18.0	23.6	16.9	12.8	7.2	21.5	0.0	0.0	0.0	0.0
1962	0.0	22.4	6.2	7.9	22.4	18.7	22.4	15.7	22.8	16.7	14.0	7.0	23.8	0.0	0.0	0.0	0.0
1963	0.0	21.8	7.6	7.9	24.2	19.5	19.1	17.6	22.9	16.2	13.2	7.1	23.1	0.0	0.0	0.0	0.0
1964	0.0	20.8	5.5	8.0	24.7	18.9	22.1	17.1	19.4	15.8	11.8	6.4	22.6	6.8	0.0	0.0	0.0
1965	0.0	21.9	8.9	9.7	24.9	11.3	23.2	15.9	20.4	14.5	11.5	4.2	20.5	13.1	100.0	0.0	0.0
1966	0.0	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	21.9	12.1	11.1	50.6	38.3
1971	0.0	21.6	7.7	11.0	21.6	18.1	20.0	14.0	23.1	18.1	13.3	4.3	18.3	8.9	15.4	51.7	32.9
1972	0.0	19.8	10.3	10.4	21.7	14.9	20.8	14.1	20.1	15.7	10.9	7.1	19.8	12.2	12.8	58.2	29.0
1973	0.0	21.5	11.5	5.0	22.8	16.9	22.3	14.2	18.5	15.2	10.0	7.8	20.5	13.7	6.8	55.6	37.6
1974	0.0	20.0	10.0	11.8	22.3	14.3	21.6	13.7	20.5	19.1	10.9	7.6	18.2	14.1	12.0	56.2	31.8

A. Los Alamos Well Field

Pumpage from the Los Alamos well field decreased 37 x 10 gal, from 406 x 10^6 gal in 1973 to 369 x 10^6 gal in 1974. The six wells produced 22.7% of the total pumpage (Table 1).

Well LA-1 ceased operations as a supply well in 1974 due to a sand problem. It is now used as an observation well to monitor water level trends in the lower part of the Los Alamos well field. The well was replaced by well LA-1B which is located about 150 ft. northeast of LA-1. Water-level trends in well LA-1 (Fig. 2) therefore generally reflect pumpage from nearby LA-1B.

Pumpage from well LA-1B decreased 13 x 10^6 gal; water levels were slightly higher than in 1973 (Fig. 3).

Pumpage from well LA-2 decreased 10 x 10^6 gal; water levels remained about the same as in 1973 (Fig. 4).

Pumpage from well LA-3 was 23 x 10^6 gal greater in 1974; the nonpumping level was slightly lower with no significant change in pumping level (Fig. 5).

Pumpage from well LA-4 decreased 10 x 10^6 gal in 1974; water levels were slightly higher than in 1973 (Fig. 6).

Pumpage from well LA-5 decreased 15 x 10^6 gal; water levels were slightly higher than in 1973 (Fig. 7). The pump was taken out of service for part of January due to a mechanical problem.

Pumpage from well LA-6 decreased 11 x 10^6 gal in 1974; no significant water level changes occurred (Fig. 8).

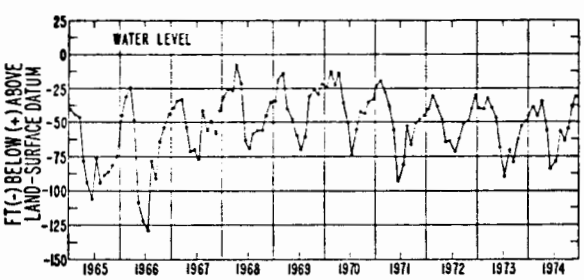

Fig. 2. Monthly average daily high water level, Los Alamos Canyon well, LA-1.

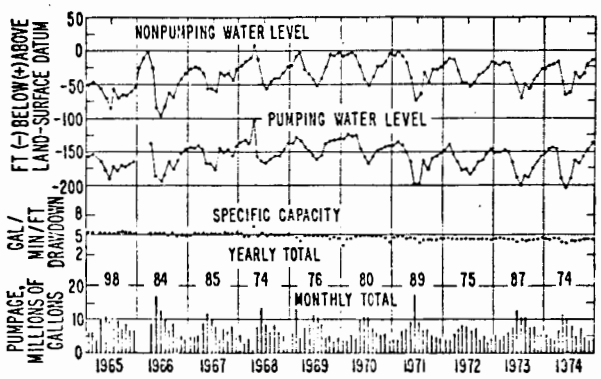

Fig. 3. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-1B.

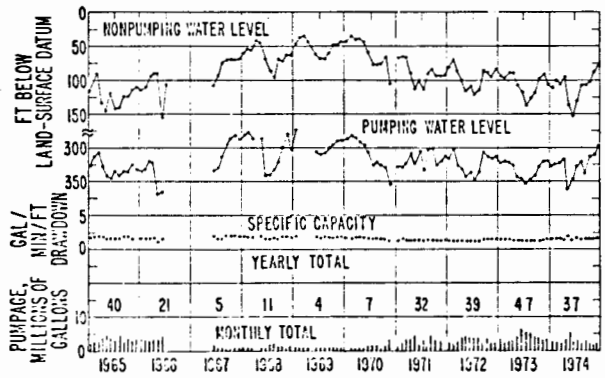

Fig. 4. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-2.

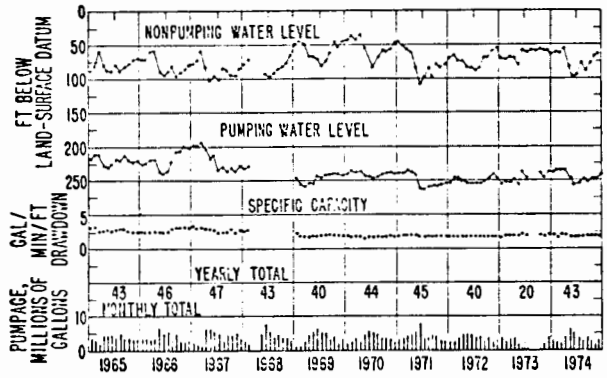

Fig. 5. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-3.

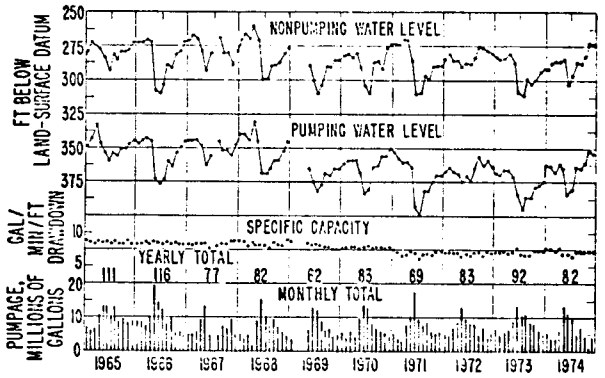

Fig. 6. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-4.

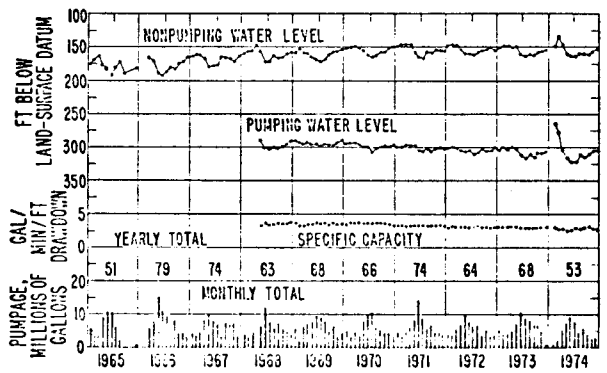

Fig. 7. Monthly average nonpumping and pumping water levels, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-5.

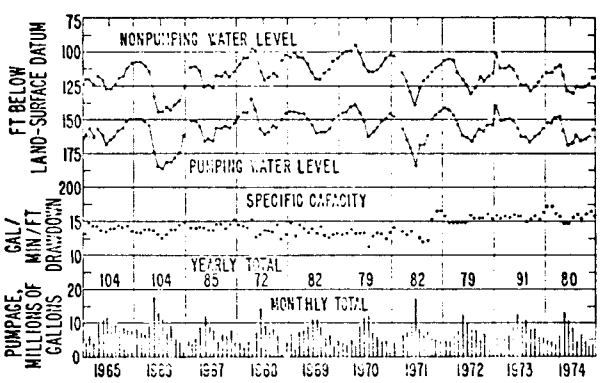

Fig. 8. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Los Alamos Canyon supply well LA-6.

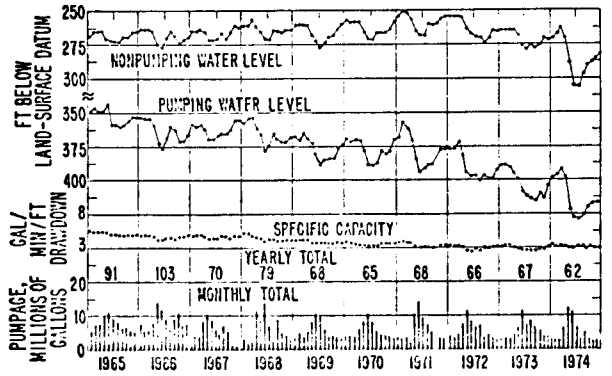

Fig. 9. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-1.

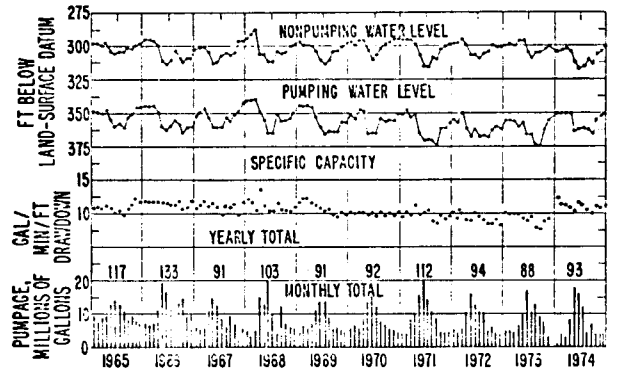

Fig. 10. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-1A.

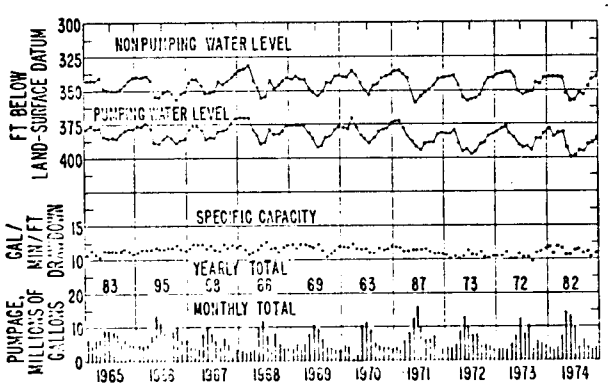

Fig. 11. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-2.

Pumpage from the well field declined to its lowest amount since 1970. There was, in general, no significant change from 1973 water levels. The yearly pumping rate from the six wells decreased 37 gpm, from 2817 gpm in 1973 to 2780 gpm in 1974. There was no significant change in the specific capacities of the six wells.

B. Guaje Well Field

Pumpage from the Guaje well field decreased 22 x 10^6 gal, from 475 x 10^6 gal in 1973 to 453 x 10^6 gal in 1974. The seven wells in the field produced 27.9% of the total pumpage (Table I).

Pumpage from well G-1 decreased 5 x 10^6 gal. The water level in the well continued to decline due to the close spacing of wells in the lower end of the field and the location of this well down the ground water gradient from the other six wells in the field (Fig. 1 and 9).

Pumpage from well G-1A was 5 x 10^6 gal greater in 1974 than in 1972. The pumping level declined slightly while the water level was higher in 1974 than in 1973. The specific capacity of this well was improved (Fig. 10) by removal of 104 ft of sediment from the well during the fall and early winter of 1973.[5]

Pumpage from well G-2 was 10 x 10^6 gal greater; water levels showed no significant change from 1973 (Fig. 11).

Pumpage from well G-3 was 2 x 10^6 gal greater; water levels were slightly lower than in 1973 (Fig. 12).

Pumpage from well G-4 decreased 3 x 10^6 gal; water levels showed no significant change from 1973 (Fig. 13).

Pumpage from well G-5 decreased 28 x 10^6 gal; water levels were slightly higher in 1974 (Fig. 14). This well was out of service for about three months due to electrical failure in the wiring of the submersible pump.

Pumpage from well G-6 decreased 1 x 10^6 gal; water levels showed no significant change from 1973 (Fig. 15).

Pumpage from the well field declined to its lowest amount since 1970. Water levels in well G-1 continued to decline during 1974, otherwise there were no significant changes in the levels in the remainder of the field. The yearly pumping rate from the seven wells increased 27 gpm, from 2724 gpm in 1973 to 2749 gpm in 1974. With the exception of well G-1A, there was no significant change in the specific capacities of the six wells.

C. Pajarito Well Field

Pumpage from the Pajarito well field increased 117 x 10^6 gal, from 685 x 10^6 gal in 1973 to 802 x 10^6 gal in 1974. The three wells in this field produced 49.4% of the total 1974 pumpage (Table I).

Pumpage from well PM-1 was 49 x 10^6 gal greater in 1974 than in 1973. Rehabilitation of the well and repair of the pumping equipment in 1973 effected an increase of about 146 gpm (Table III). As would be expected, this resulted in a slightly lower water level and a slight decrease in specific capacity (Fig. 16).

Pumpage from well PM-2 was 70 x 10^6 gal greater; water levels were lower than in 1973 (Fig. 17).

Pumpage from well PM-3 decreased 3 x 10^6 gal; no significant water level changes occurred from 1973 (Fig. 18).

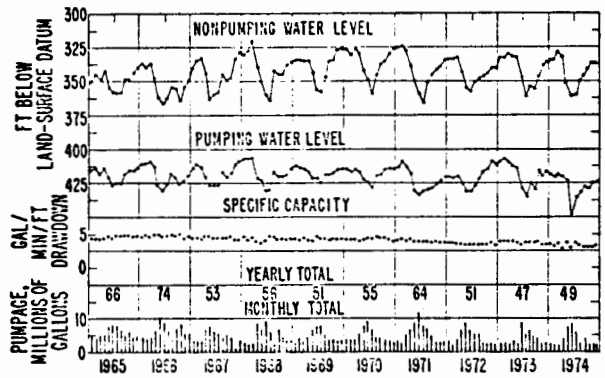

Fig. 12. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-3.

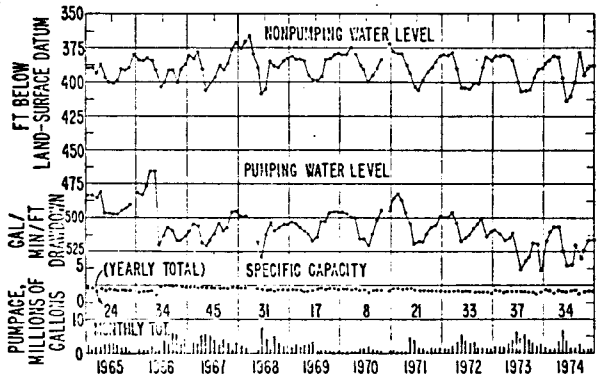

Fig. 13. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-4.

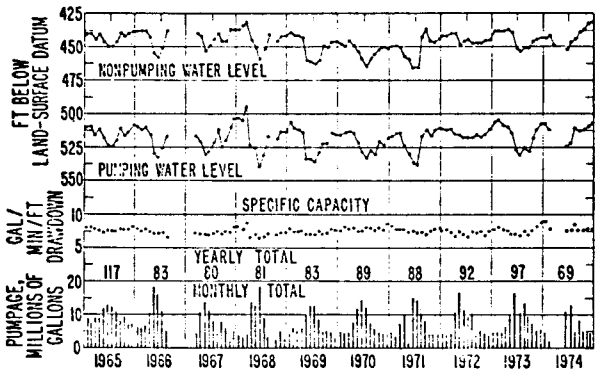

Fig. 14. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-5.

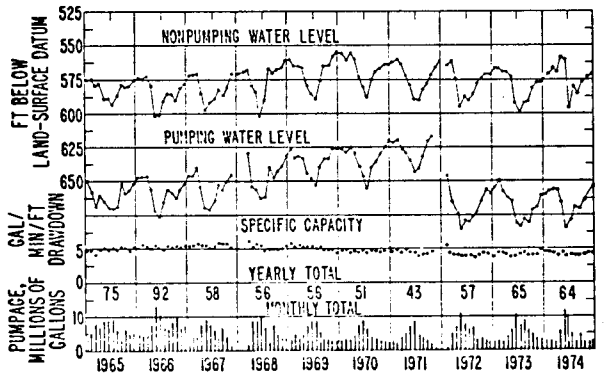

Fig. 15. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Guaje Canyon supply well G-6.

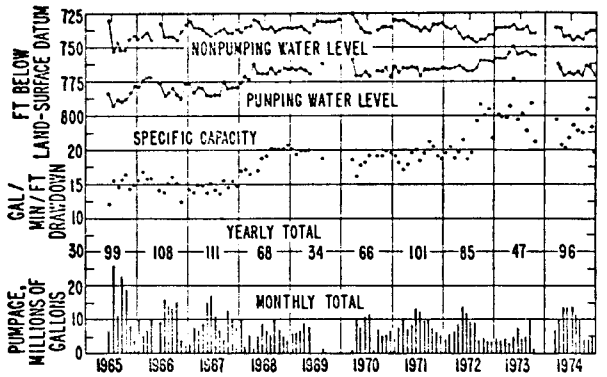

Fig. 16. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well PM-1.

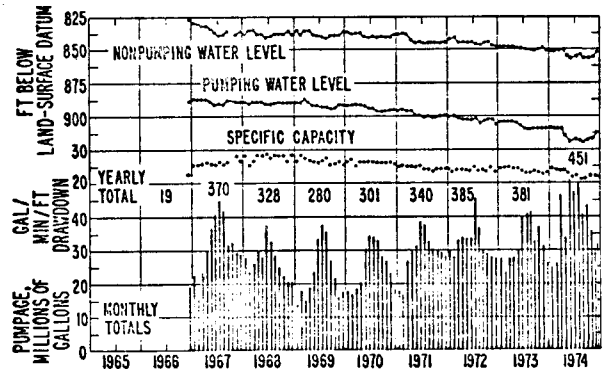

Fig. 17. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well PM-2.

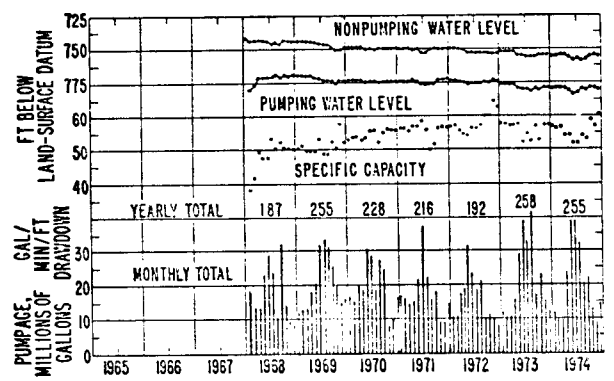

Fig. 18. Monthly average nonpumping and pumping water level, monthly average specific capacity, and monthly and yearly pumpage, Pajarito Mesa supply well PM-3.

Due to the expansion of the community of White Rock, as well as increased distribution to the Laboratory and community at Los Alamos, pumpage from this well field has increased considerably since its inception in 1966. Generally, there was a slight decline in water levels in wells PM-1 and PM-2. The yearly pumping rate from the three wells increased 132 gpm, from 3167 gpm in 1973 to 3299 gpm in 1974. This increased rate was due to rehabilitation of PM-1, as previously mentioned.

III WATER CANYON SUPPLY

Production from the gallery in Water Canyon decreased about 14 x 10^6 gal, from 49.2 x 10^6 gal in 1973 to 35.1 x 10^6 gal in 1974 (Table VII). An inspection of the gallery in October 1974 indicated deterioration of the facilities. A part of the discharge from the gallery bypasses the intake basin due to erosion around the collector and rockfalls occurring in the gallery. The gallery has been an excellent source of water, producing as much water from gravity flow as is pumped from some of the weaker wells (LA-2, LA-3, and G-4).

TABLE VII

PRODUCTION FROM WATER CANYON GALLERY IN MILLIONS OF GALLONS

Month	1971	1972	1973	1974
January	3.2	3.3	4.3	3.0
February	3.0	2.6	2.8	2.6
March	3.7	2.7	1.9	3.3
April	3.6	4.1	0.9	4.1
May	3.3	3.7	4.6	3.9
June	3.4	3.1	8.9	2.7
July	2.8	3.1	8.0	0.8
August	3.1	3.1	5.2	2.8
September	2.8	3.2	3.4	2.7
October	2.6	3.5	3.8	3.0
November	2.5	4.0	2.3	2.9
December	2.7	3.2	3.1	3.3
Total	36.7	39.6	49.2	35.1

TABLE VIII

WELL FIELD PRODUCTION FOR 1967-1973

Year	Pumpage Mil of Gal	Pumpage Acre-Ft
1967	1319	4084
1968	1402	4302
1969	1335	4097
1970	1337	4226
1971	1553	4766
1972	1510	4634
1973	1566	4806
1974	1624	4984

IV SUMMARY

Water levels in the Los Alamos, Guaje, and Pajarito well fields fell within the range expected from trends established during the past nine years. The average annual pumping rates and the specific capacities of wells in the three fields are within acceptable limits and are considered normal.

The State Engineer has established underground water rights for the three well fields as 5325 acre-ft/yr. Expansion of Laboratory facilities and population and housing increases in the County will undoubtedly result in demands for a greater increase in production. Pumping has increased since the first well went into production eight years ago, but the increase has been erratic (Table VIII). Uptake is now approaching the established underground water rights for well-field production. The Los Alamos Area Office of ERDA and the LASL are currently exploring methods for obtaining additional rights to provide for production expansion to meet future needs.

V RECOMMENDATIONS

Routine maintenance and repair of equipment, inspection of wells, and removal of sand should be continued, especially in the older wells that are showing a decline in specific capacity, particularly in the Los Alamos and Guaje fields. This activity should take place during the late winter and early spring in preparation for the heavy pumping season in late spring and summer. Improvements should also be studied toward increasing production from the gallery at Water Canyon.

Evaluation of annual yields from the Los Alamos and Guaje well fields indicate that the wells are not depleting water in the aquifer at an excessive rate. Annual production in each field can be increased in steps of 20×10^6 gal annually above the recommended 400×10^6 gal from Los Alamos and 500×10^6 gal from the Guaje field.[5] The eventual increase in pumpage will be determined from changes in aquifer conditions and the reaction of the well conditions to the increased pumpage.

New wells are considered essential for continued efficient operation of the water-supply system. Previous recommendations[2-5] for a new well in the Pajarito well field, and a replacement for well G-4 in the Guaje well field, are still valid. Upon completing an engineering study of local water resources, Gordon Herkenhoff and Associates, Inc., concur in these recommendations, and additionally recommend three new wells in the Pajarito field to satisfy the long-range requirements of proposed Los Alamos development.[6]

A new well is scheduled for construction in FY76. The time necessary for completion of the well, from design to production, is 18-24 months. Until this well is put into operation, an exceedingly dry spring and summer, or an outage of a high-yield well during the late spring or summer, will probably result in a shortage of water.

ACKNOWLEDGMENTS

Pumpage statistics were compiled by Hal York (Zia Company) Steven Johansen, Terry Morgan, and John Purson (H-8). Computer output was assembled and run by Robery Fultyn (H-1). Their assistance in compiling the report is gratefully acknowledged.

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5. R. L. Cushman and W. D. Purtymun, "An Evaluation of the Yield and Water-Level Relations in the Los Alamos Well Fields for the Period 1974-83 Los Alamos, New Mexico," Los Alamos Scientific Laboratory report, in publication.

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

APPENDIX

SUMMARY OF LOS ALAMOS MUNICIPAL WELL-FIELD CHARACTERISTICS

Monthly Pumping and Production Statistics for Last Three Years

Well LA-1

DATE MO	YR		PUMP TIME HR	PUMPAGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAPACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMPAGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMPAGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMPAGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMPAGE MILLN GAL
JAN	72	1	-0	-0	0	41	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
FEB	72	2	-0	-0	0	30	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAR	72	3	-0	-0	0	38	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
APR	72	4	-0	-0	0	48	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAY	72	5	-0	-0	0	64	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUN	72	6	-0	-0	0	63	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUL	72	7	-0	-0	0	72	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
AUG	72	8	-0	-0	0	67	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
SEP	72	9	-0	-0	0	51	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
OCT	72	10	-0	-0	0	49	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
NOV	72	11	-0	-0	0	41	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
DEC	72	12	-0	-0	0	29	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JAN	73	13	-0	-0	0	39	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
FEB	73	14	-0	-0	0	39	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAR	73	15	-0	-0	0	31	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
APR	73	16	-0	-0	0	37	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
MAY	73	17	-0	-0	0	46	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUN	73	18	-0	-0	0	68	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUL	73	19	-0	-0	0	89	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
AUG	73	20	-0	-0	0	70	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
SEP	73	21	-0	-0	0	78	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
OCT	73	22	-0	-0	0	62	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
NOV	73	23	-0	-0	0	52	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
DEC	73	24	-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
JAN	74	25	-0	-0	0	47	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
FEB	74	26	-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
MAR	74	27	-0	-0	0	41	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
APR	74	28	-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
MAY	74	29	-0	-0	0	62	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUN	74	30	-0	-0	0	84	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
JUL	74	31	-0	-0	0	78	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
AUG	74	32	-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	74	33	-0	-0	0	64	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
OCT	74	34	-0	-0	0	55	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	10.6	153.7
NOV	74	35	-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
DEC	74	36	-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

Well LA-1B

DATE MO	YR		PUMP TIME HR	PUMPAGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAPACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMPAGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMPAGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMPAGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMPAGE MILLN GAL
JAN	72	1	137	4716	574	17	149	132	4.3	16.9	20.7	20.3	5.8	5.2	5.6	221	7479	564	33.6	1127.9
FEB	72	2	128	4437	578	11	140	129	4.5	17.0	21.0	20.5	6.0	5.2	6.3	223	7521	563	33.7	1132.3
MAR	72	3	188	6410	568	14	156	142	4.0	16.7	20.6	20.5	6.2	5.6	6.3	223	7527	561	33.9	1138.8
APR	72	4	229	7818	569	30	166	136	4.2	16.7	20.4	20.4	5.1	5.1	5.4	225	7571	560	34.1	1146.6
MAY	72	5	275	9333	566	46	178	132	4.3	17.7	21.5	25.0	4.4	4.6	6.9	224	7547	560	34.4	1155.9
JUN	72	6	251	8563	569	46	177	131	4.3	13.0	15.9	17.7	4.5	4.7	6.2	201	6801	563	34.7	1164.5
JUL	72	7	229	7732	563	53	184	131	4.3	17.0	21.0	20.5	5.1	4.8	6.4	196	6684	568	34.9	1172.2
AUG	72	8	232	7880	566	46	176	130	4.4	16.9	20.7	20.3	5.1	5.0	6.4	198	6748	568	35.1	1180.1
SEP	72	9	136	4394	538	35	166	131	4.1	16.8	19.3	19.1	5.3	4.7	6.1	189	6434	567	35.2	1184.5
OCT	72	10	173	5825	561	31	163	132	4.3	16.6	19.5	19.7	6.0	5.7	6.4	190	6442	566	35.4	1190.3
NOV	72	11	109	3714	568	25	153	128	4.4	16.4	19.3	19.6	4.9	4.4	6.3	186	6302	566	35.5	1194.0
DEC	72	12	128	4430	577	14	146	132	4.4	16.5	19.5	19.7	6.0	5.5	6.5	185	6271	566	35.7	1198.4
JAN	73	13	169	5794	571	20	154	134	4.3	16.7	19.7	19.7	6.6	6.1	6.4	187	6361	566	35.8	1204.2
FEB	73	14	118	4061	574	21	152	131	4.4	16.3	19.1	19.7	5.3	4.9	6.4	186	6329	566	35.9	1208.3
MAR	73	15	150	5199	578	17	150	133	4.3	17.0	20.2	19.9	6.4	5.8	6.4	183	6229	566	36.1	1213.5
APR	73	16	183	6244	569	18	153	135	4.2	17.5	20.8	19.7	6.1	5.7	6.3	179	6097	566	36.3	1219.7
MAY	73	17	225	7599	563	30	166	136	4.1	17.8	20.3	19.8	5.6	5.2	6.4	175	5953	566	36.5	1227.3
JUN	73	18	380	12456	546	50	190	140	3.9	20.0	22.6	19.6	5.6	5.6	6.4	186	6277	562	36.9	1237.8
JUL	73	19	326	10359	530	72	201	129	4.1	20.5	22.8	19.2	6.6	5.9	6.2	194	6496	558	37.2	1250.2
AUG	73	20	317	10207	537	50	188	138	3.9	20.3	22.6	22.4	5.6	5.2	6.6	201	6690	554	37.5	1260.4
SEP	73	21	224	7286	542	58	191	133	4.1	19.3	21.6	22.4	5.5	5.4	6.6	208	6931	554	37.8	1267.6
OCT	73	22	222	7379	554	44	177	133	4.2	19.6	22.1	19.6	6.3	5.6	6.4	213	7061	554	38.0	1275.0
NOV	73	23	156	5272	563	36	166	130	4.3	17.7	20.4	19.6	6.1	5.4	6.8	216	7190	554	38.1	1280.3
DEC	73	24	158	5347	564	29	157	129	4.4	19.8	23.0	19.4	7.0	6.3	7.1	219	7267	553	38.3	1285.6
JAN	74	25	158	5271	556	30	153	123	4.5	20.1	23.0	18.9	7.1	6.2	6.5	218	7223	552	38.4	1290.9
FEB	74	26	130	4334	556	23	147	124	4.5	20.2	23.0	18.8	6.5	5.6	5.6	219	7246	551	38.6	1295.2
MAR	74	27	120	4005	556	22	144	122	4.6	17.9	19.8	18.4	5.7	4.7	6.4	217	7147	550	38.7	1299.3
APR	74	28	190	6460	567	17	145	128	4.4	16.6	19.5	19.6	5.0	4.6	6.7	217	7165	550	38.9	1305.7
MAY	74	29	366	11580	527	48	180	132	4.0	16.9	19.7	19.6	5.1	4.8	6.5	229	7496	546	39.3	1317.3
JUN	74	30	344	10668	517	68	205	137	3.8	17.9	20.6	19.8	5.1	4.6	6.0	226	7347	542	39.6	1328.0
JUL	74	31	244	7660	523	65	190	125	4.2	15.9	18.1	19.5	4.6	3.9	6.0	219	7122	542	39.8	1335.6
AUG	74	32	160	5228	545	35	163	128	4.3	16.8	19.6	19.4	4.9	4.0	6.1	206	6707	543	40.0	1340.8
SEP	74	33	221	7134	538	43	167	124	4.3	17.4	20.3	19.6	5.3	4.6	6.1	206	6695	542	40.2	1348.0
OCT	74	34	143	4682	546	37	157	120	4.5	16.5	19.2	19.3	5.3	4.4	6.1	199	6470	541	40.4	1352.7
NOV	74	35	96	3172	551	21	146	125	4.4	18.2	21.6	19.3	4.6	3.9	6.1	194	6295	540	40.5	1355.8
DEC	74	36	110	3707	562	13	139	126	4.5	16.3	18.8	19.3	4.6	3.9	6.2	190	6158	540	40.6	1359.5

Monthly Pumping and Production Statistics
for Last Three Years

Well LA-2

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	137	2357	287	80	313	233	1.2	16.9	10.3	10.2	5.8	2.6	3.3	155	2745	294	40.2	876.5
FEB	72	2	128	2212	288	72	300	228	1.3	17.0	10.5	10.2	6.0	2.6	3.1	157	2743	291	40.3	878.7
MAR	72	3	188	3018	268	87	324	237	1.1	16.7	9.7	9.7	6.2	2.6	3.0	158	2710	286	40.5	881.7
APR	72	4	230	4140	300	101	330	229	1.3	16.8	10.8	10.7	5.1	2.7	3.4	160	2748	287	40.7	885.9
MAY	72	5	275	4336	263	116	342	226	1.2	17.7	10.0	11.6	4.4	2.1	3.2	160	2732	285	41.0	890.2
JUN	72	6	231	4142	299	109	336	227	1.3	11.9	7.7	9.3	4.2	2.3	3.3	169	2914	287	41.2	894.4
JUL	72	7	229	4079	297	121	348	227	1.3	17.0	11.1	10.8	5.1	2.5	3.4	172	2993	289	41.4	898.4
AUG	72	8	232	4245	305	115	334	219	1.4	16.9	11.2	11.0	5.1	2.7	3.5	184	3203	291	41.7	902.7
SEP	72	9	129	2555	330	87	305	218	1.5	15.9	11.2	11.7	5.1	2.7	3.7	187	3293	294	41.8	905.2
OCT	72	10	173	3402	328	91	312	221	1.5	16.6	11.4	11.5	6.0	3.3	3.7	187	3325	296	42.0	908.6
NOV	72	11	109	2210	338	95	314	219	1.5	16.4	11.5	11.7	4.9	2.6	3.8	183	3269	297	42.1	910.9
DEC	72	12	128	2577	336	83	311	228	1.5	16.5	11.3	11.4	6.0	3.2	3.8	182	3273	299	42.2	913.4
JAN	73	13	169	3224	318	93	323	230	1.4	16.7	11.0	11.0	6.6	3.4	3.5	185	3345	301	42.4	916.7
FEB	73	14	115	2225	322	97	320	223	1.4	15.8	10.5	11.1	5.2	2.7	3.6	184	3346	303	42.5	918.9
MAR	73	15	150	2893	321	90	322	232	1.4	17.0	11.3	11.1	6.4	3.3	3.6	181	3336	307	42.6	921.8
APR	73	16	183	3330	303	91	329	238	1.3	17.5	11.1	10.5	6.1	3.1	3.4	177	3268	308	42.8	923.1
MAY	73	17	225	4108	304	108	345	237	1.3	17.8	11.0	10.7	5.6	2.8	3.5	173	3249	313	43.0	929.2
JUN	73	18	380	6390	280	119	349	230	1.2	20.0	11.6	10.1	5.6	2.9	3.3	185	3436	309	43.4	935.6
JUL	73	19	326	5419	277	139	354	215	1.3	20.5	11.9	10.0	6.6	3.1	3.2	193	3548	306	43.8	941.0
AUG	73	20	317	5233	275	127	349	222	1.2	20.3	11.6	11.5	5.6	2.6	3.4	200	3630	302	44.1	946.3
SEP	73	21	225	3842	285	117	343	226	1.3	19.4	11.4	11.8	5.5	2.8	3.5	208	3738	299	44.3	950.1
OCT	73	22	222	3922	294	98	330	232	1.3	19.6	11.7	10.4	6.3	3.0	3.4	212	3781	297	44.5	954.0
NOV	73	23	157	3001	319	91	321	230	1.4	17.8	11.6	11.1	6.2	3.1	3.8	216	3847	296	44.7	957.0
DEC	73	24	156	3107	332	107	320	213	1.6	19.6	13.3	11.4	6.9	3.7	4.2	219	3891	296	44.8	960.1
JAN	74	25	157	3121	331	111	326	215	1.5	20.0	13.6	11.3	7.0	3.7	3.9	218	3883	297	45.0	963.2
FEB	74	26	131	2600	331	101	322	221	1.5	20.3	13.8	11.2	6.6	3.3	3.9	219	3914	298	45.1	965.8
MAR	74	27	115	2411	349	104	321	217	1.6	17.2	11.9	11.6	5.4	2.8	4.0	216	3874	299	45.2	968.3
APR	74	28	197	3725	315	96	316	220	1.4	17.2	11.3	10.9	5.1	2.7	3.7	217	3907	300	45.4	972.0
MAY	74	29	365	5897	269	136	361	225	1.2	16.9	10.0	10.0	5.1	2.5	3.3	229	4056	295	45.8	977.9
JUN	74	30	193	3061	264	152	347	195	1.4	10.0	5.9	10.1	2.9	1.3	3.1	213	3778	295	46.0	980.9
JUL	74	31	174	3051	292	129	326	197	1.5	11.4	7.2	10.9	3.3	1.5	3.4	201	3581	297	46.2	984.0
AUG	74	32	160	2933	306	108	320	212	1.4	16.8	11.0	10.9	4.9	2.2	3.4	188	3389	301	46.3	986.9
SEP	74	33	187	3230	288	107	336	229	1.3	14.8	9.2	10.5	4.5	2.1	3.3	184	3338	302	46.5	990.2
OCT	74	34	148	2738	308	101	314	213	1.4	17.1	11.2	10.9	5.5	2.6	3.5	178	3240	303	46.7	992.9
NOV	74	35	96	1811	314	87	310	223	1.4	18.2	12.3	11.0	4.6	2.2	3.5	173	3140	302	46.8	994.7
DEC	74	36	110	2186	331	79	296	217	1.5	16.3	11.1	11.4	4.6	2.3	3.6	169	3064	301	46.9	996.9

Well LA-3

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	137	2660	324	69	253	184	1.8	16.9	11.7	11.5	5.8	2.9	3.7	214	3800	296	56.6	1208.0
FEB	72	2	129	2478	320	65	247	182	1.8	17.2	11.7	11.3	6.1	2.9	3.5	215	3804	294	56.7	1210.4
MAR	72	3	187	3397	303	74	248	174	1.7	16.6	10.9	10.9	6.2	2.9	3.4	216	3780	292	56.9	1213.8
APR	72	4	230	4310	312	74	252	178	1.8	16.8	11.3	11.2	5.1	2.8	3.5	218	3792	290	57.1	1218.1
MAY	72	5	271	4645	286	83	255	172	1.7	17.5	10.7	12.6	4.3	2.3	3.5	217	3746	288	57.4	1222.8
JUN	72	6	253	4366	288	85	254	159	1.7	13.1	8.1	8.9	4.6	2.4	3.1	195	3519	300	57.7	1227.2
JUL	72	7	220	3558	270	88	256	168	1.6	16.4	9.7	9.8	4.9	2.2	3.1	195	3527	301	57.9	1230.7
AUG	72	8	232	3868	278	84	255	171	1.6	16.9	10.2	10.0	5.1	2.5	3.2	197	3531	298	58.1	1234.6
SEP	72	9	136	2372	291	68	252	184	1.6	16.8	10.4	10.3	5.3	2.5	3.3	188	3370	298	58.2	1237.0
OCT	72	10	173	3244	313	69	248	179	1.7	16.6	10.8	10.9	6.0	3.2	3.5	189	3384	299	58.4	1240.2
NOV	72	11	109	2154	329	59	241	182	1.8	16.4	11.2	11.4	4.9	2.6	3.7	185	3315	299	58.5	1242.4
DEC	72	12	128	2614	340	55	246	191	1.8	16.5	11.5	11.6	6.0	3.2	3.8	184	3305	300	58.7	1245.0
JAN	73	13	169	3443	340	71	256	185	1.8	16.7	11.7	11.7	6.6	3.6	3.8	186	3371	301	58.8	1248.4
FEB	73	14	115	2353	341	72	254	182	1.9	15.8	11.1	11.7	5.2	2.9	3.8	185	3360	302	58.9	1250.8
MAR	73	15	147	3069	348	69	254	185	1.9	16.6	12.0	12.0	6.3	3.4	3.8	182	3333	305	59.1	1253.8
APR	73	16	183	3725	339	70	250	180	1.9	17.5	12.4	11.8	6.1	3.4	3.8	178	3284	308	59.3	1257.5
MAY	73	17	90	1798	333	82	257	175	1.9	7.1	4.8	11.7	2.3	1.2	3.8	163	3047	312	59.4	1259.4
JUN	73	18	13	283	363	58	239	181	2.0	.7	.5	13.0	.2	.1	4.2	143	2707	316	59.4	1259.6
JUL	73	19	10	225	375	62	247	185	2.0	.6	.5	13.6	.2	.1	4.4	125	2429	323	59.4	1259.9
AUG	73	20	0	0	0	59	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106	2107	331	59.4	1259.9
SEP	73	21	0	0	0	59	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95	1909	336	59.4	1259.9
OCT	73	22	7	154	367	57	240	183	2.0	.6	.5	13.0	.2	.1	4.2	81	1651	340	59.4	1260.0
NOV	73	23	86	1798	348	58	246	188	1.9	9.8	7.0	12.1	3.4	1.9	4.2	79	1622	342	59.5	1261.8
DEC	73	24	157	3458	367	58	237	179	2.1	19.7	14.8	12.6	7.0	4.1	4.6	81	1692	346	59.6	1265.3
JAN	74	25	157	3459	367	63	237	174	2.1	20.0	15.1	12.5	7.0	4.1	4.3	80	1693	351	59.8	1269.7
FEB	74	26	131	2859	364	59	232	173	2.1	20.3	15.2	12.3	6.6	3.7	4.3	82	1736	354	59.9	1271.6
MAR	74	27	115	2664	386	59	233	174	2.2	17.2	13.2	12.8	5.4	3.1	4.5	79	1702	359	60.0	1274.3
APR	74	28	199	4221	354	54	233	179	2.0	17.3	12.8	12.2	5.2	3.0	4.2	80	1743	361	60.2	1278.5
MAY	74	29	367	6307	286	82	247	165	1.7	17.0	10.7	10.6	5.1	2.6	3.5	103	2119	341	60.6	1284.8
JUN	74	30	350	5485	261	97	255	158	1.7	18.2	10.6	10.0	5.2	2.4	3.1	132	2552	323	61.0	1290.3
JUL	74	31	242	4064	280	93	254	161	1.7	15.8	9.6	10.4	4.6	2.1	3.2	151	2872	317	61.2	1294.3
AUG	74	32	160	3156	329	76	250	174	1.9	16.8	11.8	11.7	4.9	2.4	3.7	164	3135	318	61.4	1297.5
SEP	74	33	218	4035	308	87	252	165	1.9	17.2	11.5	11.2	5.2	2.6	3.5	182	3472	317	61.6	1301.5
OCT	74	34	143	2821	329	77	249	172	1.9	16.5	11.5	11.6	5.3	2.7	3.7	194	3694	318	61.7	1304.3
NOV	74	35	99	2038	343	67	249	182	1.9	18.7	13.9	12.0	4.8	2.5	3.8	195	3714	318	61.8	1306.4
DEC	74	36	110	2378	360	60	243	183	2.0	16.3	12.0	12.4	4.6	2.5	4.0	191	3624	316	61.9	1308.8

Monthly Pumping and Production Statistics
for Last Three Years

Well LA-4

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	133	4835	606	284	367	83	7.3	16.4	21.2	21.5	5.7	5.3	6.9	210	7398	588	72.5	2584.7
FEB	72	2	122	4418	604	279	364	85	7.1	16.2	20.9	21.4	5.7	5.2	6.6	211	7451	588	72.6	2589.1
MAR	72	3	187	6727	600	285	368	83	7.2	16.6	21.6	21.6	6.2	5.8	6.6	220	7782	589	72.8	2595.9
APR	72	4	227	8143	598	285	369	84	7.1	16.6	21.3	21.4	5.0	5.3	6.8	222	7826	588	73.0	2604.0
MAY	72	5	370	12667	571	290	376	86	6.6	23.8	29.2	25.3	5.9	6.2	6.9	228	8019	585	73.4	2616.7
JUN	72	6	280	9867	587	287	371	84	7.0	14.5	19.3	18.2	5.0	5.4	6.4	209	7384	588	73.6	2626.5
JUL	72	7	222	7809	586	288	375	87	6.7	16.5	21.2	21.4	4.9	4.9	6.7	204	7243	591	73.9	2634.3
AUG	72	8	225	8022	594	283	366	83	7.2	16.4	21.1	21.3	4.9	5.1	6.8	205	7284	591	74.1	2642.4
SEP	72	9	136	4895	600	274	357	83	7.2	16.8	21.5	21.3	5.3	5.2	6.8	197	6988	592	74.2	2647.3
OCT	72	10	181	6515	600	276	363	87	6.9	17.3	21.8	21.0	6.3	6.4	6.8	198	7048	592	74.4	2653.8
NOV	72	11	109	3940	602	278	359	81	7.4	16.4	20.5	20.8	4.9	4.7	6.7	194	6908	592	74.5	2657.7
DEC	72	12	130	4749	609	279	364	85	7.2	16.8	20.9	20.8	6.1	5.9	6.8	193	6882	593	74.7	2662.5
JAN	73	13	169	6134	605	284	368	84	7.2	16.7	20.9	20.9	6.6	6.5	6.8	196	6990	593	74.8	2668.6
FEB	73	14	126	4600	608	285	369	84	7.2	17.4	21.6	20.9	5.7	5.6	6.8	197	7006	593	74.9	2673.2
MAR	73	15	147	5336	605	284	366	82	7.4	16.6	20.8	20.8	6.3	6.0	6.7	193	6890	593	75.1	2678.5
APR	73	16	166	6115	614	281	366	85	7.2	15.9	20.4	21.3	5.5	5.6	6.9	188	6721	594	75.3	2684.7
MAY	73	17	239	8557	597	288	371	83	7.2	18.9	22.9	21.0	6.0	5.9	6.8	177	6378	599	75.5	2693.2
JUN	73	18	376	13111	581	308	383	75	7.7	19.8	23.8	20.9	5.6	5.9	6.5	185	6649	597	75.9	2706.3
JUL	73	19	310	10611	570	311	394	83	6.9	19.5	23.3	20.6	6.2	6.1	6.7	193	6882	595	76.2	2716.9
AUG	73	20	318	10960	574	301	386	85	6.8	20.3	24.3	23.9	5.6	5.5	7.0	201	7127	592	76.5	2727.9
SEP	73	21	236	8108	573	303	387	84	6.8	20.4	24.0	23.7	5.8	6.0	7.0	209	7395	590	76.7	2736.0
OCT	73	22	222	7722	580	300	378	78	7.4	19.6	23.1	20.5	6.3	5.9	6.7	212	7495	588	77.0	2743.7
NOV	73	23	153	5648	615	294	377	83	7.4	17.4	21.9	21.4	6.0	5.8	7.4	216	7638	589	77.1	2749.4
DEC	73	24	154	5471	592	292	374	82	7.2	19.3	23.5	20.4	6.8	6.5	7.5	218	7698	589	77.3	2754.8
JAN	74	25	156	5621	601	292	367	75	8.0	19.9	24.5	20.5	7.0	6.6	7.0	217	7655	588	77.4	2760.5
FEB	74	26	124	4597	618	287	366	79	7.8	19.3	24.4	21.0	6.2	5.9	7.3	217	7655	589	77.5	2765.1
MAR	74	27	112	4283	637	286	368	82	7.8	16.7	21.2	21.1	5.3	5.0	7.4	214	7567	590	77.7	2769.3
APR	74	28	188	6883	610	286	363	77	7.9	16.4	20.8	21.1	4.9	4.9	7.2	216	7631	590	77.8	2776.2
MAY	74	29	395	14057	593	284	366	82	7.2	18.3	23.9	22.0	5.5	5.9	7.3	229	8089	590	78.2	2790.3
JUN	74	30	349	12095	578	302	385	83	7.0	18.2	23.4	22.1	5.2	5.2	6.7	226	8005	589	78.6	2802.4
JUL	74	31	305	10555	577	296	382	86	6.7	19.9	24.9	21.5	5.8	5.4	6.6	226	8000	590	78.9	2812.9
AUG	74	32	159	5585	585	286	365	79	7.4	16.6	20.9	20.9	4.9	4.3	6.6	213	7552	592	79.1	2818.5
SEP	74	33	214	7522	586	287	366	79	7.4	16.9	21.4	21.3	5.1	4.9	6.7	211	7503	593	79.3	2825.0
OCT	74	34	144	5180	600	282	362	80	7.5	16.6	21.2	21.2	5.3	4.9	6.7	204	7291	594	79.4	2831.2
NOV	74	35	41	1480	602	273	352	79	7.6	7.8	10.1	21.0	2.0	1.8	6.7	195	6944	593	79.5	2832.7
DEC	74	36	119	4313	604	272	356	84	7.2	17.6	21.8	20.8	5.0	4.5	6.7	192	6848	594	79.6	2837.0

Well LA-5

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	133	3766	472	147	302	155	3.0	16.4	15.5	16.7	5.7	4.1	5.4	221	6183	466	74.0	2211.5
FEB	72	2	122	3486	476	146	300	154	3.1	16.2	16.5	16.9	5.7	4.1	5.2	223	6221	466	74.1	2215.0
MAR	72	3	188	5282	468	148	302	154	3.0	16.7	17.0	16.9	6.2	4.6	5.2	223	6239	465	74.3	2220.3
APR	72	4	227	6365	467	154	305	151	3.1	16.6	16.6	16.7	5.0	4.1	5.3	225	6276	465	74.6	2226.7
JUN	72	5	360	9877	457	159	306	147	3.1	18.6	18.3	14.2	6.5	5.4	5.0	231	6430	464	74.9	2236.5
JUN	72	6	280	7667	456	159	305	146	3.1	14.5	14.2	14.2	5.0	4.2	5.0	212	5904	464	75.2	2244.2
JUL	72	7	222	6125	460	161	311	150	3.1	16.5	16.6	16.8	4.9	3.8	5.3	203	5667	465	75.4	2250.3
AUG	72	8	225	6302	467	157	307	150	3.1	16.4	16.6	16.8	4.9	4.0	5.3	204	5704	465	75.7	2255.6
SEP	72	9	136	3872	475	154	303	149	3.2	16.8	17.0	16.9	5.3	4.1	5.4	196	5474	466	75.8	2260.5
OCT	72	10	164	4658	473	153	306	153	3.1	15.7	15.6	16.6	5.7	4.5	5.4	196	5484	466	76.0	2265.2
NOV	72	11	114	3247	475	150	305	155	3.1	17.2	16.9	16.4	5.1	3.9	5.3	193	5385	466	76.1	2269.4
DEC	72	12	130	3769	483	154	300	146	3.3	16.8	15.6	16.5	6.1	4.7	5.4	192	5368	467	76.2	2272.2
JAN	73	13	169	4802	474	151	307	156	3.0	16.7	16.4	16.4	6.6	5.1	5.3	195	5454	467	76.4	2277.0
FEB	73	14	126	3612	478	148	302	154	3.1	17.4	17.0	16.4	5.7	4.4	5.3	195	5465	467	76.5	2280.6
MAR	73	15	143	4066	474	147	305	158	3.0	16.2	15.8	16.3	6.1	4.6	5.2	191	5363	467	76.6	2284.7
APR	73	16	166	4710	473	151	301	150	3.2	15.9	15.7	16.4	5.5	4.3	5.3	186	5226	468	76.8	2289.4
MAY	73	17	244	6818	466	150	304	154	3.0	19.3	18.2	16.4	6.1	4.7	5.3	177	4971	469	77.0	2295.2
JUN	73	18	379	10248	451	162	314	152	3.0	19.9	18.6	16.2	5.6	4.6	5.2	185	5186	468	77.4	2305.4
JUL	73	19	310	8354	449	165	317	152	3.0	19.5	15.4	16.2	6.2	4.8	5.3	192	5371	466	77.7	2314.8
AUG	73	20	293	7906	450	162	311	149	3.0	18.7	17.5	18.7	5.2	4.0	5.5	198	5505	464	78.0	2322.7
SEP	73	21	236	6465	457	163	315	152	3.0	20.4	19.2	18.9	5.8	4.7	5.6	206	5721	463	78.3	2329.2
OCT	73	22	230	6333	459	160	309	149	3.1	20.3	19.0	16.2	6.5	4.8	5.3	212	5861	461	78.5	2335.5
NOV	73	23	163	4550	465	157	309	152	3.1	18.5	17.6	16.2	6.4	4.7	5.6	216	5969	461	78.7	2340.1
DEC	73	24	17	476	467	155	307	152	3.1	2.1	2.0	16.1	.8	.6	5.9	206	5695	460	78.7	2340.5
JAN	74	25	1	15	500	-0	-0	0	0.0	.1	.1	17.0	.0	.0	5.9	192	5296	459	78.7	2340.5
FEB	74	26	4	119	496	146	266	120	4.1	.6	.6	16.8	.2	.2	5.9	182	5005	458	78.7	2340.7
MAR	74	27	96	2781	483	132	279	147	3.3	14.3	13.8	16.0	4.5	3.2	5.6	178	4898	458	78.8	2343.4
APR	74	28	187	5274	470	146	306	150	2.9	16.3	15.9	16.2	4.9	3.8	5.6	180	4945	458	79.0	2349.7
MAY	74	29	265	7211	454	159	318	159	2.9	12.3	12.3	16.8	3.7	3.0	5.6	182	4978	457	79.2	2355.9
JUN	74	30	334	8906	444	163	324	161	2.8	17.4	17.2	17.0	4.9	3.8	5.2	178	4866	456	79.6	2364.8
JUL	74	31	293	7943	452	165	323	158	2.9	19.1	18.7	16.8	5.6	4.0	5.2	177	4832	456	79.9	2372.8
AUG	74	32	158	4427	467	159	312	153	3.1	16.5	16.6	16.7	4.9	3.4	5.2	165	4542	458	80.0	2377.2
SEP	74	33	213	5857	458	160	315	155	3.0	16.8	16.7	16.7	5.1	3.8	5.2	163	4491	458	80.2	2383.1
OCT	74	34	143	4030	470	159	312	153	3.1	16.5	15.5	16.6	5.3	3.8	5.3	156	4299	459	80.4	2387.1
NOV	74	35	98	2789	474	157	307	150	3.2	18.6	19.0	16.6	4.7	3.4	5.3	151	4152	459	80.5	2389.9
DEC	74	36	112	3186	474	152	306	154	3.1	16.6	16.1	16.3	4.7	3.3	5.2	159	4378	460	80.6	2393.1

Monthly Pumping and Production Statistics for Last Three Years

Well LA-6

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	133	4482	562	106	142	36	15.6	16.4	19.6	19.9	5.7	4.9	6.4	208	6934	556	74.1	2586.8
FEB	72	2	122	4064	555	105	143	38	14.6	16.2	19.3	19.7	5.7	4.8	6.1	218	7273	556	74.3	2590.8
MAR	72	3	186	6299	564	109	147	38	14.9	16.5	20.2	20.4	6.1	5.5	6.3	218	7266	555	74.5	2597.1
APR	72	4	227	7473	549	116	153	37	14.8	16.6	19.5	19.6	5.0	4.9	6.2	220	7282	552	74.7	2604.6
MAY	72	5	361	12453	575	123	162	39	14.7	23.3	28.7	25.4	5.7	6.1	7.0	225	7503	555	75.0	2617.0
JUN	72	6	280	9461	563	125	163	38	14.8	14.5	17.5	17.5	5.0	5.2	6.1	206	6878	556	75.3	2625.5
JUL	72	7	222	7560	568	130	166	36	15.8	16.5	20.5	20.7	4.9	4.7	6.5	203	6814	559	75.5	2634.1
AUG	72	8	225	7746	574	125	163	38	15.1	16.4	20.4	20.6	4.9	4.9	6.5	204	6892	562	75.8	2641.8
SEP	72	9	136	4726	579	118	156	38	15.2	16.8	20.7	20.6	5.3	5.1	6.6	196	6634	565	75.9	2646.5
OCT	72	10	181	6301	580	120	158	38	15.3	17.3	21.0	20.3	6.3	6.1	6.6	197	6710	566	76.1	2652.8
NOV	72	11	114	3996	584	116	153	37	15.8	17.2	20.7	20.2	5.1	4.7	6.5	194	6606	568	76.2	2656.8
DEC	72	12	130	4594	589	115	154	39	15.1	16.8	20.2	20.1	6.1	5.7	6.6	193	6596	569	76.3	2661.4
JAN	73	13	169	5958	588	102	139	37	15.9	16.7	20.3	20.3	6.6	6.3	6.6	196	6719	571	76.5	2667.4
FEB	73	14	126	4426	585	112	150	38	15.4	17.4	20.8	20.1	5.7	5.4	6.5	196	6749	573	76.6	2671.8
MAR	73	15	147	5113	580	112	149	37	15.7	16.6	19.9	20.0	6.3	5.7	6.4	193	6651	574	76.8	2676.9
APR	73	16	166	5846	587	110	148	38	15.4	15.9	19.5	20.3	5.5	5.4	6.6	188	6515	577	76.9	2682.8
MAY	73	17	243	8539	586	113	150	37	15.8	19.2	22.8	20.6	6.1	5.9	6.6	178	6189	579	77.2	2691.3
JUN	73	18	372	12606	565	120	156	36	15.7	19.6	22.9	20.3	5.5	5.7	6.6	186	6451	578	77.6	2703.9
JUL	73	19	310	10486	564	126	162	36	15.7	19.5	23.1	20.4	6.2	6.0	6.6	193	6695	577	77.9	2714.4
AUG	73	20	318	10765	564	124	162	38	14.8	20.3	23.9	23.5	5.6	5.4	6.9	201	6946	576	78.2	2725.2
SEP	73	21	237	8025	564	128	165	37	15.3	20.5	23.8	23.3	5.8	5.9	6.9	209	7221	575	78.4	2733.2
OCT	73	22	230	7872	570	126	162	36	15.8	20.3	23.6	20.2	6.5	6.0	6.6	213	7352	574	78.6	2741.1
NOV	73	23	165	5549	561	122	159	37	15.1	18.7	21.5	19.5	6.5	5.7	6.8	218	7482	573	78.8	2746.6
DEC	73	24	155	5439	585	119	155	36	15.2	19.4	23.3	20.1	6.9	6.4	7.4	220	7552	573	79.0	2752.1
JAN	74	25	156	5443	582	115	149	34	17.1	19.9	23.7	19.8	7.0	6.4	6.8	219	7509	572	79.1	2757.5
FEB	74	26	124	4348	584	115	149	34	17.2	19.3	23.1	19.8	6.2	5.6	6.9	219	7503	572	79.2	2761.8
MAR	74	27	112	4068	605	111	147	36	15.8	16.7	20.1	20.1	5.3	4.7	7.0	216	7415	573	79.4	2765.9
APR	74	28	187	6523	581	109	146	37	15.7	16.3	19.7	20.1	4.9	4.7	6.9	217	7472	573	79.5	2772.4
MAY	74	29	404	13691	565	116	155	39	14.5	18.7	23.3	21.0	5.6	5.7	7.0	231	7901	570	80.0	2786.1
JUN	74	30	351	11449	544	127	166	39	13.9	18.3	22.2	20.8	5.2	4.9	6.4	229	7805	568	80.3	2797.6
JUL	74	31	273	9136	558	129	165	36	15.5	17.8	21.5	20.8	5.2	4.6	6.4	226	7692	567	80.6	2806.7
AUG	74	32	158	5397	569	124	160	36	15.8	16.5	20.2	20.3	4.9	4.1	6.4	213	7245	568	80.7	2812.1
SEP	74	33	214	7327	571	126	163	37	15.4	16.9	20.9	20.8	5.1	4.7	6.5	211	7187	568	80.9	2819.4
OCT	74	34	145	4997	574	126	162	36	16.0	16.7	20.4	20.3	5.4	4.7	6.5	204	6947	569	81.1	2824.4
NOV	74	35	98	3380	575	125	160	35	16.4	18.6	23.0	20.1	4.7	4.2	6.4	198	6766	569	81.2	2827.8
DEC	74	36	115	4000	580	118	155	37	15.7	17.0	20.2	19.6	4.8	4.2	6.4	195	6647	569	81.3	2831.8

Well G-1

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	153	3727	406	254	376	122	3.3	16.7	16.2	16.2	6.5	4.1	4.7	243	5673	389	64.2	1729.5
FEB	72	2	127	3065	402	254	376	122	3.3	16.3	15.8	13.7	6.0	3.6	4.4	245	5703	389	64.3	1731.6
MAR	72	3	173	4115	396	254	371	117	3.4	15.2	14.6	13.7	5.7	3.6	4.4	245	5709	388	64.5	1735.7
APR	72	4	328	7619	387	255	382	127	3.0	14.5	14.1	13.9	7.2	5.0	4.4	265	6176	388	64.8	1743.3
MAY	72	5	500	11389	380	264	394	130	2.9	14.1	13.9	14.1	7.9	5.6	4.6	268	6215	387	65.3	1754.7
JUN	72	6	365	8268	378	267	398	131	2.9	14.2	13.7	14.0	6.6	4.5	4.1	245	5689	388	65.7	1763.0
JUL	72	7	303	6852	377	269	396	127	3.0	14.3	13.8	13.8	6.7	4.3	4.3	233	5442	389	66.0	1769.8
AUG	72	8	315	7093	375	271	400	129	2.9	14.3	13.7	13.8	6.9	4.5	4.3	233	5418	387	66.3	1776.9
SEP	72	9	163	3779	386	275	396	121	3.2	14.3	14.0	14.0	6.4	4.0	4.4	226	5239	386	66.5	1780.7
OCT	72	10	174	4048	388	272	398	125	3.1	14.7	14.3	14.1	6.1	3.9	4.4	240	5576	386	66.6	1784.8
NOV	72	11	144	3322	384	265	389	124	3.1	14.3	13.8	13.8	6.4	3.9	4.3	241	5568	385	66.8	1788.1
DEC	72	12	120	2792	388	266	391	125	3.1	14.3	14.0	14.0	5.6	3.5	4.3	239	5506	384	66.9	1790.9
JAN	73	13	138	3261	394	265	389	124	3.2	14.6	14.6	14.3	5.4	3.4	4.4	238	5467	384	67.0	1794.1
FEB	73	14	140	3322	395	265	388	123	3.2	14.2	14.1	14.2	6.3	4.0	4.4	239	5488	383	67.2	1797.5
MAR	73	15	127	3012	395	265	390	125	3.2	14.3	13.8	13.9	5.4	3.4	4.4	235	5396	383	67.3	1800.5
APR	73	16	192	4552	395	265	395	130	3.0	14.5	14.0	13.8	6.4	4.2	4.4	223	5141	384	67.5	1805.0
MAY	73	17	283	6556	386	268	400	132	2.9	15.4	14.6	13.9	7.1	4.5	4.4	205	4738	385	67.8	1811.6
JUN	73	18	519	11010	354	276	409	133	2.7	14.5	13.5	13.3	7.7	4.9	4.1	218	4967	379	68.3	1822.6
JUL	73	19	331	7042	355	278	412	134	2.6	14.3	13.4	13.4	6.7	4.0	4.2	220	4982	377	68.6	1829.6
AUG	73	20	410	8920	363	275	413	138	2.6	14.1	13.4	13.6	7.2	4.5	4.4	228	5135	375	69.0	1838.5
SEP	73	21	296	6595	371	277	416	139	2.7	15.4	15.1	13.9	7.3	4.8	4.5	239	5369	374	69.3	1845.1
OCT	73	22	234	5349	381	275	409	134	2.8	14.5	14.1	13.9	6.6	4.1	4.4	244	5478	373	69.6	1850.5
NOV	73	23	164	3858	392	271	413	142	2.8	15.0	15.5	14.3	6.5	4.0	4.7	246	5522	374	69.7	1854.4
DEC	73	24	163	3990	408	272	404	132	3.1	16.5	17.4	17.6	7.2	4.7	5.1	250	5622	375	69.9	1858.3
JAN	74	25	154	3786	410	269	397	128	3.2	15.7	16.1	14.0	6.9	4.4	4.8	251	5666	376	70.0	1862.1
FEB	74	26	138	3288	397	266	394	128	3.1	15.5	15.7	14.1	6.9	4.2	4.7	251	5663	376	70.2	1865.4
MAR	74	27	127	3051	400	262	390	128	3.1	16.4	17.2	17.5	6.0	3.6	4.6	251	5666	376	70.3	1868.5
APR	74	28	281	6382	379	269	396	127	3.0	16.7	17.1	17.1	7.3	4.6	4.5	258	5819	375	70.6	1874.8
MAY	74	29	595	12784	358	287	421	134	2.7	17.1	17.3	17.0	8.3	5.4	4.4	284	6338	372	71.2	1887.6
JUN	74	30	302	6537	361	303	427	124	2.9	8.9	8.2	13.5	4.5	2.8	4.2	266	5965	373	71.5	1894.2
JUL	74	31	321	7025	365	304	427	123	3.0	13.9	12.3	13.3	6.1	3.6	4.2	265	5964	374	71.8	1901.2
AUG	74	32	169	3890	384	295	424	129	3.0	14.3	13.7	13.6	3.2	3.0	4.3	245	5545	377	72.0	1905.1
SEP	74	33	256	5781	376	289	419	130	2.9	14.3	13.8	13.8	6.1	3.7	4.3	242	5477	377	72.2	1910.9
OCT	74	34	156	3582	383	287	416	129	3.0	14.3	13.8	13.7	5.8	3.4	4.3	235	5329	377	72.4	1914.4
NOV	74	35	128	2943	383	284	416	132	2.9	13.6	13.1	13.7	6.2	3.6	4.3	232	5253	377	72.5	1917.4
DEC	74	36	140	3257	388	282	413	131	3.0	14.3	13.7	13.8	5.9	3.4	4.3	231	5192	375	72.7	1920.6

Monthly Pumping and Production Statistics
for Last Three Years

Well G-1A

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	153	5208	567	298	354	56	10.1	16.7	22.7	22.7	6.5	5.7	6.5	279	9428	562	55.4	1877.4
FEB	72	2	124	4149	558	297	356	59	9.5	16.0	21.4	19.0	5.8	4.9	5.1	281	9456	562	55.5	1881.5
MAR	72	3	173	5650	544	295	349	54	10.1	15.2	20.1	18.8	5.7	4.9	6.0	276	9266	560	55.7	1887.2
APR	72	4	328	10579	538	300	360	60	9.0	14.5	19.6	19.4	7.2	6.9	6.1	276	9211	556	56.0	1897.8
MAY	72	5	497	16037	538	308	367	59	9.1	14.0	19.6	19.9	7.9	7.9	6.5	279	9278	555	56.5	1913.8
JUN	72	6	385	12528	542	307	360	53	10.2	15.0	20.8	20.1	6.9	6.9	5.9	257	8513	553	56.9	1926.3
JUL	72	7	303	10031	552	310	367	57	9.7	14.3	20.2	20.2	6.7	6.3	6.3	246	8135	552	57.2	1936.4
AUG	72	8	315	10407	551	306	366	60	9.2	14.3	20.1	20.2	6.9	6.6	6.3	246	8101	549	57.5	1946.8
SEP	72	9	163	5338	546	305	369	64	8.5	14.3	19.8	19.8	6.4	5.7	6.2	239	7862	548	57.7	1952.1
OCT	72	10	174	5678	544	300	362	62	8.8	14.7	20.1	19.7	6.1	5.5	6.2	242	7928	547	57.8	1957.8
NOV	72	11	144	4639	537	301	358	57	9.4	14.3	19.2	19.3	6.4	5.5	6.0	242	7926	546	58.0	1962.4
DEC	72	12	120	3781	525	301	360	59	8.9	14.3	18.9	18.9	5.6	4.7	5.9	240	7835	544	58.1	1966.2
JAN	73	13	138	4463	539	300	354	54	10.0	14.6	20.0	19.5	5.4	4.7	6.0	239	7773	543	58.2	1970.7
FEB	73	14	140	4645	553	299	355	56	9.9	14.2	19.8	19.8	6.3	5.6	6.2	240	7815	543	58.4	1975.3
MAR	73	15	127	4177	548	300	356	56	9.8	14.3	19.2	19.2	5.4	4.7	6.1	236	7692	543	58.5	1979.5
APR	73	16	192	6318	548	297	361	64	8.6	14.5	19.5	19.2	6.4	5.8	6.1	225	7337	544	58.7	1985.8
MAY	73	17	282	9372	554	297	357	60	9.2	15.3	20.9	19.9	7.1	6.4	6.3	207	6781	546	59.0	1995.2
JUN	73	18	517	16544	533	306	366	60	8.9	14.4	20.2	20.1	7.7	7.4	6.2	218	7116	544	59.5	2011.7
JUL	73	19	331	10426	525	310	366	56	9.4	14.3	19.8	19.8	6.7	6.0	6.1	220	7149	541	59.8	2022.2
AUG	73	20	410	12848	522	306	373	67	7.8	14.1	19.4	19.6	7.2	6.5	6.4	228	7352	537	60.2	2033.0
SEP	73	21	296	9144	515	306	374	68	7.6	15.4	20.9	19.2	7.3	6.7	6.3	239	7670	534	60.5	2044.2
OCT	73	22	234	7218	514	303	362	59	8.7	14.5	19.0	18.7	6.6	5.5	6.0	244	7798	532	60.8	2051.4
NOV	73	23	93	2788	500	300	355	55	9.1	8.5	11.2	18.3	3.7	2.9	6.0	240	7644	531	60.9	2054.2
DEC	73	24	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	230	7329	531	60.9	2054.2
JAN	74	25	34	1160	569	303	349	46	12.4	3.5	4.9	19.5	1.5	1.4	6.6	221	7053	531	60.9	2055.3
FEB	74	26	138	4390	530	302	349	47	11.3	15.5	21.0	18.8	6.9	5.6	6.3	221	7032	530	61.0	2059.7
MAR	74	27	132	4216	532	301	349	48	11.1	17.1	23.8	23.3	6.2	4.9	6.1	222	7035	529	61.2	2063.9
APR	74	28	281	8893	527	303	349	46	11.5	16.7	23.9	23.8	7.3	6.4	6.3	229	7250	528	61.4	2072.8
MAY	74	29	596	18289	511	312	362	50	10.2	17.1	24.7	24.2	8.3	7.7	6.3	255	7993	522	62.0	2091.1
JUN	74	30	540	16625	513	317	361	44	11.7	16.0	20.7	19.1	8.0	7.1	6.0	257	8000	519	62.6	2107.7
JUL	74	31	405	12788	526	314	361	47	11.2	17.6	22.3	19.2	7.7	6.5	6.0	263	8197	519	63.0	2120.5
AUG	74	32	168	5315	527	310	361	51	10.3	14.2	18.7	18.7	5.2	4.1	5.9	243	7569	519	63.2	2125.8
SEP	74	33	256	7830	510	312	364	52	9.8	14.3	18.7	18.7	6.1	5.1	5.8	240	7459	519	63.4	2133.7
OCT	74	34	156	4835	517	306	354	48	10.8	14.3	18.6	18.5	5.8	4.6	5.8	233	7261	519	63.6	2138.5
NOV	74	35	128	3989	519	303	352	49	10.6	13.6	17.7	18.5	6.2	4.9	5.8	236	7361	519	63.7	2142.5
DEC	74	36	140	4389	522	301	349	48	10.9	14.3	18.5	18.5	5.9	4.6	5.8	248	7727	520	63.8	2146.9

Well G-2

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	153	4047	441	341	382	41	10.8	16.7	17.6	17.6	6.5	4.4	5.1	286	7304	426	64.5	1736.4
FEB	72	2	126	3276	433	340	382	42	10.3	16.2	16.9	14.8	5.9	3.9	4.7	287	7335	426	64.6	1739.7
MAR	72	3	173	4463	430	338	379	41	10.5	15.2	15.8	14.9	5.7	3.9	4.8	283	7216	425	64.8	1744.1
APR	72	4	328	8328	423	347	389	42	10.1	14.5	15.4	15.2	7.2	5.4	4.8	284	7213	423	65.1	1752.4
MAY	72	5	508	12684	416	356	395	39	10.7	14.3	15.5	15.4	8.1	6.2	5.1	288	7290	422	65.6	1765.1
JUN	72	6	380	9507	417	358	393	35	11.9	14.8	15.8	15.4	6.8	5.2	4.5	265	6768	425	66.0	1774.6
JUL	72	7	303	7624	419	357	397	40	10.5	14.3	15.4	15.4	6.7	4.8	4.8	256	6555	427	66.3	1782.3
AUG	72	8	315	7894	418	356	395	39	10.7	14.3	15.3	15.3	6.9	5.0	4.8	260	6648	426	66.6	1790.2
SEP	72	9	163	4178	427	353	389	36	11.9	14.3	15.5	15.5	6.4	4.5	4.9	252	6443	426	66.8	1794.3
OCT	72	10	174	4508	432	346	388	42	10.3	14.7	16.0	15.7	6.1	4.4	4.9	242	6169	424	67.0	1798.8
NOV	72	11	144	3770	436	341	383	42	10.4	14.3	15.6	15.7	6.4	4.5	4.9	243	6175	424	67.1	1802.6
DEC	72	12	120	3142	436	341	382	41	10.6	14.3	15.7	15.7	5.6	3.9	4.9	241	6118	424	67.2	1805.8
JAN	73	13	138	3554	429	338	380	42	10.2	14.6	15.9	15.5	5.4	3.7	4.8	239	6077	423	67.4	1809.3
FEB	73	14	141	3547	419	338	378	40	10.5	14.3	15.1	15.0	6.3	4.3	4.7	241	6100	423	67.5	1812.9
MAR	73	15	126	3358	444	337	377	40	11.1	14.2	15.4	15.6	5.4	3.8	4.9	237	6008	423	67.7	1816.2
APR	73	16	191	5148	449	337	381	44	10.2	14.4	15.9	15.7	6.4	4.7	5.0	225	5743	425	67.8	1821.4
MAY	73	17	282	7438	440	341	385	44	10.0	15.3	16.6	15.9	7.1	5.1	5.0	206	5306	428	68.1	1826.8
JUN	73	18	512	12326	409	351	389	38	10.8	14.0	15.1	15.4	7.5	5.5	4.8	217	5541	426	68.6	1841.1
JUL	73	19	330	8027	405	353	392	39	10.4	14.2	15.3	15.3	6.6	4.6	4.7	219	5574	425	69.0	1849.2
AUG	73	20	420	10438	414	352	392	40	10.4	14.4	15.7	15.6	7.4	5.3	5.1	228	5786	424	69.4	1859.6
SEP	73	21	145	3628	417	351	394	43	9.7	7.5	8.3	15.6	3.6	2.7	3.1	226	5740	423	69.5	1863.2
OCT	73	22	215	5891	457	345	386	41	11.1	13.3	15.5	16.6	6.1	4.5	5.3	229	5856	425	69.7	1869.1
NOV	73	23	163	4448	455	346	386	40	11.4	14.9	17.9	16.6	6.4	4.6	5.5	231	5912	426	69.9	1873.6
DEC	73	24	163	4624	473	341	382	41	11.5	16.5	20.2	20.4	7.2	5.5	6.0	235	6036	429	70.1	1878.2
JAN	74	25	154	4426	479	340	383	43	11.1	15.7	19.9	16.4	6.9	5.2	5.6	236	6108	431	70.2	1882.6
FEB	74	26	139	3867	464	340	383	43	10.8	15.6	19.5	16.4	7.0	5.0	5.5	236	6135	434	70.4	1886.5
MAR	74	27	129	3634	473	340	380	40	11.8	16.6	20.5	20.7	6.0	4.2	5.5	236	6158	435	70.5	1890.1
APR	74	28	281	7557	448	341	380	39	11.5	16.7	20.3	20.2	7.3	5.4	5.3	243	6359	435	70.8	1897.7
MAY	74	29	591	14965	422	352	392	40	10.6	17.0	20.2	20.0	8.2	6.3	5.2	269	6986	432	71.4	1912.6
JUN	74	30	540	13911	429	358	399	41	10.5	16.0	17.4	16.0	8.0	6.0	5.0	272	7118	435	71.9	1925.5
JUL	74	31	374	10088	450	357	397	40	11.2	16.2	17.6	16.4	7.1	5.1	5.2	276	7290	440	72.3	1936.6
AUG	74	32	166	4686	470	352	393	41	11.5	14.1	16.5	16.7	5.1	3.6	5.3	255	6810	445	72.4	1941.3
SEP	74	33	256	6964	453	353	394	41	11.1	14.3	16.6	16.6	6.1	4.5	5.2	264	7088	447	72.7	1948.3
OCT	74	34	156	4331	463	347	389	42	11.0	14.3	16.6	16.6	5.8	4.1	5.2	259	6958	447	72.8	1952.6
NOV	74	35	131	3656	465	342	388	46	10.1	13.9	16.2	16.6	6.3	4.5	5.2	257	6892	448	73.0	1956.3
DEC	74	36	140	3926	467	341	384	43	10.9	14.3	16.6	16.6	5.9	4.1	5.2	255	6834	447	73.1	1960.2

Monthly Pumping and Production Statistics for Last Three Years

Well G-3

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
				THSND		NON PUMP	PUMP		GPM/	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE THSND	RATE	PUMP TIME THSND	PUMP-AGE MILLN
MO	YR		HR	GAL	GPM	FT	FT	FT	FT							HR	GAL	GPM	HR	GAL
JAN	72	1	153	3000	327	334	421	87	3.8	16.7	13.1	13.1	6.5	3.3	3.7	279	5345	319	64.5	1420.2
FEB	72	2	126	2494	330	333	421	88	3.7	16.2	12.9	11.3	5.9	2.9	3.6	280	5360	319	64.6	1422.7
MAR	72	3	173	3433	331	331	420	89	3.7	15.2	12.2	11.4	5.7	3.0	3.7	275	5255	318	64.8	1426.1
APR	72	4	328	6151	313	339	426	87	3.6	14.5	11.4	11.3	7.2	4.0	3.5	276	5239	316	65.1	1432.3
MAY	72	5	514	8989	291	354	431	77	3.8	14.5	11.0	10.8	8.2	4.4	3.5	280	5278	314	65.6	1441.3
JUN	72	6	357	6052	283	357	431	74	3.8	13.9	10.1	10.5	6.4	3.3	3.1	256	4818	314	66.0	1447.3
JUL	72	7	303	5330	293	350	426	76	3.9	14.3	10.7	10.7	6.7	3.3	3.4	246	4625	313	66.3	1452.6
AUG	72	8	307	5402	293	347	422	75	3.9	13.9	10.5	10.8	6.7	3.4	3.3	245	4509	306	66.6	1459.0
SEP	72	9	163	2856	292	342	416	74	3.9	14.3	10.6	10.6	6.4	3.1	3.3	238	4343	305	66.8	1460.9
OCT	72	10	150	2505	278	339	415	76	3.7	12.7	9.9	10.1	5.2	2.4	3.2	238	4320	302	66.9	1463.4
NOV	72	11	144	2547	295	334	408	74	4.0	14.3	10.6	10.6	6.4	3.0	3.3	239	4301	300	67.1	1466.0
DEC	72	12	120	2109	293	334	411	77	3.8	14.3	10.6	10.6	5.6	2.6	3.3	236	4239	299	67.2	1469.1
JAN	73	13	132	2343	296	332	409	77	3.8	14.0	10.5	10.7	5.2	2.5	3.3	235	4184	297	67.3	1470.4
FEB	73	14	141	2436	288	332	407	75	3.8	14.3	10.4	10.3	6.3	3.0	3.2	236	4179	295	67.5	1472.8
MAR	73	15	126	2297	304	329	409	80	3.8	14.2	10.5	10.7	5.4	2.6	3.4	232	4085	293	67.6	1475.1
APR	73	16	184	3374	306	331	412	81	3.8	13.9	10.4	10.7	6.1	3.1	3.4	220	3853	292	67.8	1478.5
MAY	73	17	128	2288	298	333	413	80	3.7	7.0	5.1	10.7	3.2	1.6	3.4	188	3295	292	67.9	1480.8
JUN	73	18	522	8633	276	347	428	81	3.4	14.5	10.6	10.4	7.8	3.9	3.2	202	3510	290	68.4	1489.4
JUL	73	19	331	5205	262	361	434	73	3.6	14.3	9.9	9.9	6.7	3.0	3.1	204	3500	286	68.7	1494.6
AUG	73	20	420	6669	265	353	425	72	3.7	14.4	10.1	9.9	7.4	3.4	3.2	213	3605	282	69.2	1501.3
SEP	73	21	296	4747	267	356	429	73	3.7	15.4	10.8	10.0	7.3	3.5	3.3	224	3763	279	69.5	1506.1
OCT	73	22	237	3921	276	347	416	69	4.0	14.6	10.3	10.0	6.7	3.0	3.2	232	3881	279	69.7	1510.0
NOV	73	23	164	2740	278	338	419	81	3.4	15.0	11.0	10.2	6.5	2.8	3.4	233	3897	278	69.9	1512.7
DEC	73	24	162	2696	277	337	417	80	3.5	16.4	11.8	11.9	7.2	3.2	3.5	237	3946	278	70.0	1515.4
JAN	74	25	160	2725	284	335	416	81	3.5	16.3	11.6	9.7	7.1	3.2	3.3	239	3978	277	70.2	1518.1
FEB	74	26	137	2325	283	334	417	83	3.4	15.4	11.1	10.0	6.9	3.0	3.3	239	3968	277	70.3	1520.5
MAR	74	27	130	2253	289	328	415	87	3.3	16.8	12.7	12.6	6.1	2.6	3.3	239	3965	276	70.4	1522.7
APR	74	28	280	4452	265	332	417	85	3.1	16.6	11.9	12.0	7.3	3.2	3.1	247	4054	273	70.7	1527.2
MAY	74	29	517	7759	250	352	420	68	3.7	14.8	10.5	11.9	7.2	3.2	3.1	280	4510	269	71.2	1534.9
JUN	74	30	553	9075	274	361	447	86	3.2	16.4	11.3	10.2	8.2	3.9	3.2	282	4547	269	71.8	1544.0
JUL	74	31	368	6108	277	359	433	74	3.7	16.0	10.7	10.1	7.0	3.1	3.2	285	4622	270	72.2	1550.1
AUG	74	32	169	2880	284	350	429	79	3.6	14.3	10.1	10.1	5.2	2.2	3.2	264	4307	271	72.3	1553.0
SEP	74	33	255	4172	273	345	426	81	3.4	14.2	10.0	10.0	6.1	2.7	3.1	261	4259	272	72.6	1557.2
OCT	74	34	157	2678	284	341	427	86	3.3	14.4	10.3	10.2	5.8	2.5	3.2	254	4155	272	72.7	1559.8
NOV	74	35	139	2432	292	337	423	86	3.4	14.8	10.8	10.4	6.7	3.0	3.3	252	4130	273	72.9	1562.3
DEC	74	36	141	2445	289	335	421	86	3.4	14.4	10.3	10.3	5.9	2.6	3.2	250	4109	273	73.0	1564.7

Well G-4

DATE			PUMP TIME	PUMP-AGE	RATE	WATER LEVEL		DRAW DOWN	SPEC CAP-ACITY	PERCENT OF FIELD			PERCENT OF TOTAL			YEARLY AVERAGE			CUMULATIVE	
				THSND		NON PUMP	PUMP		GPM/	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE	RATE	PUMP TIME	PUMP-AGE THSND	RATE	PUMP TIME THSND	PUMP-AGE MILLN
MO	YR		HR	GAL	GPM	FT	FT	FT	FT							HR	GAL	GPM	HR	GAL
JAN	72	1	153	2003	218	380	499	119	1.8	16.7	8.7	8.7	6.5	2.2	2.5	145	1858	214	43.3	726.4
FEB	72	2	121	1553	214	380	500	120	1.8	15.6	8.0	7.3	5.7	1.8	2.3	153	1963	214	43.4	727.9
MAR	72	3	166	2150	216	378	496	118	1.8	14.6	7.6	7.5	5.5	1.9	2.4	164	2109	214	43.6	730.1
APR	72	4	328	3485	177	390	504	114	1.6	14.5	6.5	6.4	7.2	2.3	2.0	184	2299	208	43.9	733.6
MAY	72	5	513	5618	183	404	517	113	1.6	14.5	6.9	6.8	8.2	2.8	2.2	198	2372	200	44.4	739.2
JUN	72	6	346	3962	191	404	515	111	1.7	13.4	6.6	7.1	6.2	2.2	2.1	200	2372	198	44.8	743.1
JUL	72	7	303	3480	191	405	512	107	1.8	14.3	7.0	7.0	6.7	2.2	2.2	210	2501	198	45.1	746.6
AUG	72	8	319	3742	196	401	507	106	1.8	14.4	7.2	7.2	7.0	2.4	2.2	226	2677	197	45.4	750.4
SEP	72	9	163	1919	196	401	504	103	1.9	14.3	7.1	7.1	6.4	2.1	2.2	235	2774	197	45.5	752.3
OCT	72	10	164	1964	200	389	500	111	1.8	13.9	7.0	7.2	5.7	1.9	2.3	239	2807	196	45.7	754.2
NOV	72	11	144	1884	218	382	514	132	1.7	14.3	7.8	7.8	6.4	2.2	2.4	239	2806	196	45.8	756.1
DEC	72	12	120	1558	216	384	510	126	1.7	14.3	7.8	7.8	5.6	1.9	2.4	237	2776	196	46.0	757.7
JAN	73	13	132	1726	218	380	509	129	1.7	14.0	7.7	7.9	5.2	1.8	2.4	235	2753	195	46.1	759.4
FEB	73	14	141	1892	224	380	512	132	1.7	14.3	8.0	8.0	6.3	2.3	2.5	237	2782	196	46.2	761.3
MAR	73	15	126	1670	221	380	517	137	1.6	14.2	7.7	7.8	5.4	1.9	2.4	233	2742	196	46.4	763.0
APR	73	16	188	2504	222	381	515	134	1.7	14.2	7.7	7.8	6.3	2.3	2.5	222	2660	200	46.6	765.5
MAY	73	17	288	3622	210	384	511	127	1.7	15.7	8.1	7.5	7.2	2.5	2.4	203	2494	205	46.8	769.1
JUN	73	18	509	6191	203	400	520	120	1.7	14.2	7.6	7.6	7.6	2.8	2.4	216	2679	206	47.4	775.3
JUL	73	19	331	4055	204	407	538	131	1.6	14.3	7.7	7.7	6.7	2.3	2.4	219	2727	208	47.7	779.3
AUG	73	20	410	4944	201	406	532	126	1.6	14.1	7.5	7.6	7.2	2.5	2.5	226	2827	208	48.1	784.3
SEP	73	21	297	3603	202	405	528	123	1.6	15.5	8.2	7.6	7.3	2.6	2.5	238	2968	208	48.4	787.9
OCT	73	22	234	2801	200	397	518	121	1.6	14.5	7.4	7.3	6.6	2.1	2.3	243	3037	208	48.6	790.7
NOV	73	23	182	1945	178	390	519	129	1.4	16.7	7.8	6.5	7.2	2.0	2.1	246	3043	206	48.8	792.6
DEC	73	24	169	2239	222	390	534	144	1.5	17.0	9.8	9.6	7.5	2.7	2.8	250	3099	206	49.0	794.9
JAN	74	25	155	2171	233	386	516	130	1.8	15.8	9.2	8.0	6.9	2.5	2.7	252	3136	207	49.1	797.0
FEB	74	26	137	1798	219	384	508	124	1.8	15.4	8.6	7.8	6.9	2.3	2.6	252	3129	207	49.3	798.8
MAR	74	27	128	1568	204	380	505	125	1.6	16.6	8.9	8.9	6.0	1.8	2.4	252	3120	206	49.4	800.4
APR	74	28	280	3898	232	381	508	127	1.8	16.6	10.5	10.5	7.3	2.8	2.7	260	3236	208	49.7	804.3
MAY	74	29	593	7642	215	397	523	126	1.7	17.0	10.3	10.2	8.3	3.2	2.7	285	3571	209	50.3	812.0
JUN	74	30	349	4309	206	413	534	121	1.7	10.3	5.4	7.7	5.2	1.9	2.4	272	3414	209	50.6	816.3
JUL	74	31	167	2093	209	411	533	122	1.7	7.2	3.7	7.6	3.2	1.1	2.4	258	3251	210	50.8	818.4
AUG	74	32	169	2212	218	400	518	118	1.8	14.3	7.8	7.7	5.2	1.7	2.4	238	3023	211	51.0	820.6
SEP	74	33	257	3051	198	377	528	151	1.3	14.3	7.3	7.3	6.2	2.0	2.3	235	2977	211	51.2	823.6
OCT	74	34	157	1978	210	394	522	128	1.6	14.4	7.6	7.5	5.8	1.9	2.4	228	2909	212	51.4	825.6
NOV	74	35	139	1759	211	390	516	126	1.7	14.8	7.8	7.5	6.7	2.2	2.4	225	2893	214	51.5	827.4
DEC	74	36	141	1780	210	388	515	127	1.7	14.4	7.5	7.5	5.9	1.9	2.3	223	2855	214	51.6	829.1

Monthly Pumping and Production Statistics for Last Three Years

Well G-5

DATE MO	YR		PUMP TIME HR	PUMPAGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAPACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMPAGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMPAGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMPAGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMPAGE MILLN GAL
JAN	72	1	153	4951	539	441	512	71	7.6	16.7	21.6	21.6	6.5	5.4	6.2	222	7379	553	58.2	1893.9
FEB	72	2	124	4039	543	442	512	70	7.8	16.0	20.9	18.5	5.8	4.8	5.9	223	7413	553	58.4	1897.9
MAR	72	3	172	5520	535	440	511	71	7.5	15.1	19.6	18.5	5.7	4.8	5.9	218	7246	553	58.5	1903.4
APR	72	4	328	10495	533	439	515	76	7.0	14.5	19.5	19.2	7.2	6.8	6.0	220	7257	550	58.9	1913.9
MAY	72	5	522	16145	515	448	515	67	7.7	14.7	19.7	19.1	8.3	7.9	6.3	260	8505	545	59.4	1930.1
JUN	72	6	378	11855	523	444	517	73	7.2	14.7	19.7	19.4	6.8	6.5	5.7	254	8296	545	59.8	1941.9
JUL	72	7	303	9655	531	439	516	77	6.9	14.3	19.5	19.5	6.7	6.0	6.1	248	7906	530	60.1	1951.6
AUG	72	8	319	10111	528	446	517	71	7.4	14.4	19.6	19.4	7.0	6.4	6.0	249	7894	529	60.4	1961.7
SEP	72	9	163	5255	537	443	515	72	7.5	14.3	19.5	19.5	6.4	5.6	6.1	240	7648	530	60.5	1965.9
OCT	72	10	174	5678	544	441	516	75	7.3	14.7	20.1	19.7	6.1	5.5	6.2	243	7740	531	60.7	1972.6
NOV	72	11	146	4754	543	437	514	77	7.0	14.5	19.7	19.5	6.5	5.6	6.1	244	7758	531	60.9	1977.4
DEC	72	12	120	3929	546	437	510	73	7.5	14.3	19.7	19.7	5.6	4.9	6.1	242	7699	531	61.0	1981.3
JAN	73	13	132	4313	545	437	506	69	7.9	14.0	19.3	19.7	5.2	4.5	6.1	240	7646	531	61.1	1985.6
FEB	73	14	141	4614	545	437	504	67	8.1	14.3	19.6	19.6	6.3	5.6	6.1	241	7694	531	61.3	1990.2
MAR	73	15	132	4406	556	437	508	71	7.8	14.8	20.2	19.5	5.6	4.9	6.2	238	7601	532	61.4	1994.6
APR	73	16	188	6264	555	436	509	73	7.6	14.2	19.3	19.5	6.3	5.8	6.2	226	7248	533	61.6	2000.9
MAY	73	17	289	9368	540	439	514	75	7.2	15.7	20.9	19.4	7.2	6.4	6.1	207	6683	538	61.9	2010.3
JUN	73	18	514	16282	528	452	526	74	7.1	14.3	19.9	19.9	7.6	7.3	6.1	218	7052	538	62.4	2026.5
JUL	73	19	331	10617	535	453	530	77	6.9	14.3	20.2	20.2	6.7	6.1	6.3	221	7133	539	62.7	2037.2
AUG	73	20	418	13460	537	451	524	73	7.4	14.4	20.3	20.2	7.4	6.8	6.6	229	7412	539	63.1	2050.6
SEP	73	21	296	9568	539	451	527	76	7.1	15.4	21.9	20.1	7.3	7.0	6.6	240	7771	539	63.4	2060.2
OCT	73	22	233	7627	546	446	517	71	7.7	14.4	20.1	19.9	6.6	5.8	6.3	245	7933	540	63.7	2067.8
NOV	73	23	163	5388	551	444	511	67	8.2	14.9	21.7	20.2	6.4	5.6	6.6	246	7986	540	63.8	2073.2
DEC	73	24	166	5548	557	443	507	64	8.7	16.8	24.2	24.0	7.4	6.6	7.0	250	8121	541	64.0	2078.7
JAN	74	25	167	5592	558	443	506	63	8.9	17.1	23.8	19.1	7.5	6.6	6.5	253	8228	542	64.2	2084.3
FEB	74	26	67	2205	549	440	510	70	7.8	7.5	10.5	19.4	3.4	2.8	6.5	247	8027	542	64.2	2086.5
MAR	74	27	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	236	7660	541	64.2	2086.5
APR	74	28	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	220	7138	540	64.2	2086.5
MAY	74	29	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	196	6357	540	64.2	2086.5
JUN	74	30	561	18456	548	451	523	72	7.6	16.6	23.0	20.5	8.3	7.9	6.4	200	6538	544	64.8	2105.0
JUL	74	31	399	13400	560	446	520	74	7.6	17.3	23.4	20.4	7.6	6.8	6.4	206	6770	548	65.2	2110.4
AUG	74	32	169	5801	572	443	509	66	8.7	14.3	20.4	20.3	5.2	4.4	6.4	185	6132	552	65.4	2124.2
SEP	74	33	255	8612	563	438	520	82	6.9	14.2	20.6	20.6	6.1	5.6	6.4	182	6052	555	65.6	2132.8
OCT	74	34	157	5357	569	436	511	75	7.6	14.4	20.6	20.4	5.8	5.1	6.4	175	5863	557	65.8	2138.2
NOV	74	35	139	4735	568	434	508	74	7.7	14.8	21.0	20.3	6.7	5.8	6.3	173	5809	559	65.9	2142.9
DEC	74	36	140	4819	574	431	506	75	7.6	14.3	20.3	20.4	5.9	5.1	6.3	171	5748	560	66.0	2147.7

Well G-6

DATE MO	YR		PUMP TIME HR	PUMPAGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAPACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMPAGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMPAGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMPAGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMPAGE MILLN GAL
JAN	72	1	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	232	3359	241	22.5	475.6
FEB	72	2	29	784	451	564	647	83	5.4	3.7	4.0	15.4	1.4	.9	4.9	226	3267	241	22.5	476.4
MAR	72	3	108	2840	438	562	665	103	4.3	9.5	10.1	15.2	3.6	2.5	4.9	215	3180	246	22.6	479.2
APR	72	4	298	7254	406	575	675	100	4.1	13.2	13.5	14.6	6.6	4.7	4.6	213	3336	261	22.9	486.5
MAY	72	5	494	11152	376	594	686	92	4.1	13.9	13.6	13.9	7.9	5.5	4.6	216	3660	283	23.4	497.6
JUN	72	6	364	8005	367	587	679	92	4.0	14.1	13.3	13.6	6.6	4.4	4.0	197	3626	307	23.8	505.6
JUL	72	7	303	6612	364	590	681	91	4.0	14.3	13.3	13.3	6.7	4.1	4.2	192	3796	330	24.1	512.2
AUG	72	8	319	7021	367	586	677	91	4.0	14.4	13.6	13.4	7.0	4.5	4.2	193	4042	350	24.4	519.3
SEP	72	9	163	3588	367	578	673	95	3.9	14.3	13.3	13.3	6.4	3.8	4.2	185	4087	368	24.6	522.8
OCT	72	10	174	3858	370	574	665	91	4.1	14.7	13.7	13.4	6.1	3.8	4.2	188	4259	378	24.7	526.7
NOV	72	11	144	3201	370	571	657	86	4.3	14.3	13.3	13.3	6.4	3.8	4.1	200	4526	378	24.9	529.9
DEC	72	12	120	2676	372	571	660	89	4.2	14.3	13.4	13.4	5.6	3.3	4.2	210	4749	378	25.0	532.6
JAN	73	13	132	2708	342	567	654	87	3.9	14.0	12.1	12.4	5.2	2.9	3.5	221	4975	376	25.1	535.3
FEB	73	14	141	3056	361	567	649	82	4.4	14.3	13.0	13.0	6.3	3.7	4.0	230	5164	374	25.3	538.3
MAR	73	15	126	2873	380	569	657	88	4.3	14.2	13.2	13.3	5.4	3.2	4.2	231	5167	372	25.4	541.2
APR	73	16	188	4273	379	569	662	93	4.1	14.2	13.2	13.3	6.3	3.9	4.2	222	4919	369	25.6	545.5
MAY	73	17	288	6210	359	573	664	91	3.9	15.7	13.8	12.9	7.2	4.3	4.1	205	4507	366	25.9	551.7
JUN	73	18	508	10720	352	592	681	89	4.0	14.1	13.1	13.3	7.6	4.8	4.1	217	4733	363	26.4	562.4
JUL	73	19	332	7173	360	598	683	85	4.2	14.3	13.7	13.6	6.7	4.1	4.2	220	4780	363	26.7	569.6
AUG	73	20	419	9063	361	592	677	85	4.2	14.4	13.7	13.5	7.4	4.6	4.4	228	4950	362	27.1	578.7
SEP	73	21	296	6487	365	591	681	90	4.1	15.4	14.8	13.6	7.3	4.8	4.5	239	5191	362	27.4	585.1
OCT	73	22	232	5178	372	581	671	90	4.1	14.3	13.6	13.6	6.6	3.9	4.3	244	5301	362	27.7	590.3
NOV	73	23	163	3703	379	577	668	91	4.2	14.9	14.9	13.9	6.4	3.8	4.6	245	5343	363	27.8	594.0
DEC	73	24	166	3844	386	577	660	83	4.6	16.8	16.8	16.6	7.4	4.6	4.9	249	5441	364	28.0	597.9
JAN	74	25	155	3617	389	574	661	87	4.5	15.8	15.4	13.3	6.9	4.2	4.5	251	5516	366	28.2	601.5
FEB	74	26	133	3043	381	571	658	87	4.4	15.0	14.5	13.5	6.7	3.9	4.5	250	5515	367	28.3	604.5
MAR	74	27	128	2967	386	567	657	90	4.3	16.6	16.8	16.9	6.0	3.5	4.5	251	5523	367	28.4	607.5
APR	74	28	280	6087	362	568	657	89	4.1	16.6	16.3	16.4	7.3	4.4	4.3	258	5674	366	28.7	613.6
MAY	74	29	593	12579	354	585	666	81	4.4	17.0	17.0	16.8	8.3	5.3	4.4	284	6205	364	29.3	626.2
JUN	74	30	535	11213	349	600	685	85	4.1	15.8	14.0	13.0	7.9	4.8	4.1	286	6246	364	29.8	637.4
JUL	74	31	273	5813	355	595	680	85	4.2	11.8	10.1	12.9	5.2	2.9	4.1	281	6133	364	30.1	643.2
AUG	74	32	169	3675	362	579	669	90	4.0	14.3	12.9	12.9	5.2	2.8	4.1	260	5684	364	30.3	646.9
SEP	74	33	256	5436	354	584	671	87	4.1	14.3	13.0	13.0	6.1	3.5	4.0	257	5596	363	30.5	652.3
OCT	74	34	150	3257	362	577	665	88	4.1	13.8	12.5	13.0	5.5	3.1	4.1	250	5436	362	30.7	655.5
NOV	74	35	138	3013	364	573	659	86	4.2	14.6	13.4	13.0	6.7	3.7	4.1	248	5379	361	30.8	658.6
DEC	74	36	140	3077	366	571	656	85	4.3	14.3	13.0	13.0	5.9	3.2	4.0	246	5315	360	30.9	661.6

Monthly Pumping and Production Statistics
for Last Three Years

Well PM-1

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	72	1	131	5467	696	730	765	35	19.9	21.2	12.0	20.4	5.6	6.0	8.0	229	8503	619	16.1	593.3
FEB	72	2	134	5600	697	731	765	34	20.5	22.3	12.7	20.4	6.3	6.6	7.6	224	8332	619	16.3	598.9
MAR	72	3	151	6170	681	728	764	36	18.9	19.8	11.0	20.2	5.0	5.3	7.5	214	8025	626	16.4	605.1
APR	72	4	250	8590	573	734	763	29	19.7	27.9	14.0	17.5	5.5	5.6	6.5	218	8155	624	16.7	613.7
MAY	72	5	389	13568	581	738	765	27	21.5	32.6	17.3	17.7	6.2	6.7	7.1	230	8589	622	17.1	627.2
JUN	72	6	336	11628	577	736	767	31	18.6	32.3	16.9	17.6	6.1	6.4	6.3	229	8463	617	17.4	638.9
JUL	72	7	267	9256	578	738	767	29	19.9	25.4	12.6	17.6	5.9	5.8	6.6	222	8180	614	17.7	648.1
AUG	72	8	270	9199	568	741	764	23	24.7	27.6	13.7	17.4	5.9	5.9	6.5	223	8157	609	17.9	657.3
SEP	72	9	122	3972	543	737	757	20	27.1	20.2	9.1	16.7	4.8	4.3	6.2	211	7655	605	18.1	661.3
OCT	72	10	146	4398	502	737	757	20	25.1	23.1	9.9	15.6	5.1	4.3	5.7	208	7435	595	18.2	665.7
NOV	72	11	110	3797	575	735	757	22	26.2	19.6	9.3	17.5	4.9	4.5	6.4	205	7284	592	18.3	669.5
DEC	72	12	109	3294	504	735	758	23	21.9	20.5	8.6	15.6	5.1	4.1	5.6	201	7078	586	18.4	672.8
JAN	73	13	123	4273	579	735	758	23	25.2	20.6	9.9	17.5	4.8	4.5	6.5	201	6979	580	18.6	677.1
FEB	73	14	104	3595	576	735	758	23	25.0	20.1	9.6	17.5	4.7	4.4	6.4	198	6812	573	18.7	680.6
MAR	73	15	120	4146	576	735	758	23	25.0	20.9	10.0	17.5	5.1	4.7	6.4	195	6643	566	18.8	684.8
APR	73	16	94	2862	507	735	754	19	26.7	15.0	6.2	15.8	3.1	2.6	5.7	182	6166	563	18.9	687.7
MAY	73	17	164	4526	460	734	749	15	30.7	18.5	7.1	14.5	4.1	3.1	5.2	164	5412	551	19.0	692.2
JUN	73	18	270	7177	443	737	755	18	24.6	21.8	8.4	14.1	4.0	3.2	5.2	158	5041	531	19.3	699.4
JUL	73	19	165	4248	429	737	754	17	25.2	15.5	5.5	13.7	3.3	2.4	5.0	150	4624	515	19.5	703.6
AUG	73	20	198	4922	414	735	753	18	23.0	16.4	5.7	13.3	3.5	2.5	5.1	144	4267	495	19.7	708.5
SEP	73	21	393	9557	405	740	755	15	27.0	39.5	16.3	13.1	9.6	7.0	4.9	166	4733	474	20.1	718.1
OCT	73	22	57	1242	363	739	756	17	21.4	7.3	2.1	11.8	1.6	.9	4.2	159	4470	469	20.1	719.3
NOV	73	23	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150	4153	462	20.1	719.3
DEC	73	24	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	141	3879	460	20.1	719.3
JAN	74	25	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130	3523	450	20.1	719.3
FEB	74	26	-0	-0	0	-0	-0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	122	3223	441	20.1	719.3
MAR	74	27	179	7188	669	736	763	27	24.8	26.4	15.0	19.9	8.4	8.4	7.7	127	3477	457	20.3	725.5
APR	74	28	285	10625	621	736	766	30	20.7	28.3	15.3	18.7	7.4	7.6	7.4	143	4124	482	20.6	737.1
MAY	74	29	405	14395	592	742	771	29	20.4	26.4	13.6	18.0	5.6	6.0	7.3	163	4946	507	21.0	751.5
JUN	74	30	391	13829	589	742	769	27	21.8	26.6	13.7	18.0	5.8	5.9	6.9	173	5500	531	21.4	765.4
JUL	74	31	399	14199	593	745	770	25	23.7	28.0	14.6	18.1	7.6	7.2	6.8	192	6330	549	21.8	779.6
AUG	74	32	320	11446	596	743	769	26	22.9	29.0	15.2	18.1	9.9	8.8	6.7	202	6873	566	22.1	791.0
SEP	74	33	271	9735	599	745	771	26	23.0	24.5	12.6	18.2	6.5	6.3	6.8	192	6888	597	22.4	800.7
OCT	74	34	131	4691	597	740	763	23	25.9	17.4	8.5	18.2	4.8	4.4	6.7	198	7176	603	22.5	805.4
NOV	74	35	114	4173	610	738	764	26	23.5	19.0	9.5	18.5	5.5	5.2	6.8	208	7523	603	22.6	809.6
DEC	74	36	154	6058	656	738	771	33	19.9	21.5	11.7	19.6	6.5	6.4	7.2	221	8028	606	22.8	815.7

Well PM-2

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	72	1	350	29398	1400	843	900	57	24.6	56.5	64.3	41.1	14.9	32.1	16.0	348	29253	1401	19.6	1666.6
FEB	72	2	331	27835	1402	841	900	59	23.8	55.0	62.9	41.0	15.5	32.9	15.3	360	30214	1400	20.0	1694.5
MAR	72	3	386	32393	1399	844	902	58	24.1	50.5	57.8	41.6	12.8	28.1	15.5	366	30712	1399	20.4	1725.9
APR	72	4	404	33755	1393	844	902	59	24.0	45.1	54.9	42.5	8.9	22.0	15.7	370	31041	1398	20.8	1760.6
MAY	72	5	397	33189	1393	844	902	59	24.0	33.3	42.3	42.5	5.3	16.3	16.9	372	31193	1397	21.2	1793.8
JUN	72	6	404	33654	1388	844	902	59	23.9	38.8	48.9	42.5	7.3	18.4	15.1	368	30764	1395	21.6	1827.5
JUL	72	7	544	45435	1392	847	902	55	25.3	51.8	61.8	42.5	12.0	29.4	15.9	375	31420	1396	22.1	1872.9
AUG	72	8	438	36456	1387	847	905	59	23.9	44.7	54.3	42.4	9.6	23.2	15.8	379	31718	1395	22.5	1909.3
SEP	72	9	360	30049	1391	845	903	58	24.0	59.6	69.9	42.9	14.1	32.2	15.8	378	31677	1395	22.9	1939.4
OCT	72	10	339	28344	1394	844	902	58	24.0	53.7	63.9	43.3	11.9	27.6	15.9	376	31500	1394	23.2	1967.7
NOV	72	11	332	27692	1390	847	902	55	25.3	59.3	67.8	42.3	14.9	32.9	15.5	375	31364	1394	23.6	1995.4
DEC	72	12	326	27087	1385	848	906	59	23.9	61.3	71.0	43.0	15.2	33.5	15.5	384	32107	1393	23.9	2022.5
JAN	73	13	325	27097	1390	847	904	57	24.4	54.5	62.7	42.1	12.7	28.5	15.5	382	31915	1392	24.2	2049.6
FEB	73	14	277	23170	1394	847	904	57	24.5	53.6	61.7	42.4	12.4	29.1	15.5	378	31527	1391	24.5	2072.8
MAR	73	15	325	27198	1395	848	904	56	24.9	56.6	65.5	42.4	13.8	30.6	15.4	373	31094	1391	24.8	2100.0
APR	73	16	334	27862	1390	847	904	57	24.4	53.4	60.0	43.2	11.1	25.6	15.5	367	30603	1391	25.2	2127.8
MAY	73	17	356	29829	1396	848	905	57	24.5	40.2	47.1	43.9	8.9	20.5	15.9	363	30323	1391	25.5	2157.7
JUN	73	18	476	39602	1387	849	907	58	23.9	38.5	45.2	44.0	7.1	17.8	16.1	369	30818	1391	26.0	2197.3
JUL	73	19	484	40146	1382	850	909	59	23.4	45.6	52.1	44.1	9.7	22.9	15.2	364	30378	1390	26.5	2237.4
AUG	73	20	494	40974	1382	851	910	59	23.4	40.9	47.2	44.4	8.7	20.7	16.9	369	30754	1389	27.0	2278.4
SEP	73	21	385	32012	1386	851	909	58	23.9	38.7	54.6	44.7	9.4	23.5	16.9	371	30918	1389	27.4	2310.4
OCT	73	22	440	36560	1385	850	909	59	23.5	56.3	60.6	45.1	12.5	27.8	16.0	379	31602	1388	27.8	2347.0
NOV	73	23	369	30632	1384	849	909	60	23.1	65.3	65.5	51.3	14.5	31.7	16.7	383	31847	1387	28.2	2377.6
DEC	73	24	305	25469	1387	850	909	59	23.5	65.4	66.6	51.4	13.6	30.2	17.5	381	31713	1388	28.5	2403.1
JAN	74	25	314	26174	1389	851	906	55	25.3	66.1	67.3	51.4	14.0	30.7	16.2	380	31636	1388	28.8	2429.2
FEB	74	26	326	27192	1390	851	907	56	24.8	70.0	71.1	51.4	15.3	34.9	16.4	384	31971	1387	29.1	2455.4
MAR	74	27	348	28972	1388	850	907	57	24.3	51.4	60.4	41.2	16.4	33.7	16.0	386	32119	1387	29.5	2485.4
APR	74	28	413	34454	1390	850	907	57	24.4	41.1	49.7	41.8	10.8	24.7	15.5	393	32668	1387	29.9	2519.9
MAY	74	29	635	52547	1379	854	912	58	23.8	41.3	49.5	42.0	8.8	22.0	17.0	416	34561	1385	30.5	2572.4
JUN	74	30	574	47430	1377	856	916	60	23.0	39.1	47.1	42.1	8.5	20.4	16.1	424	35213	1384	31.1	2617.8
JUL	74	31	607	50149	1377	855	915	60	22.9	42.6	51.5	41.9	11.5	25.4	15.8	434	36047	1383	31.7	2670.0
AUG	74	32	507	41880	1377	853	916	63	21.9	45.9	55.7	41.8	15.7	32.1	15.5	435	36123	1383	32.2	2711.9
SEP	74	33	536	44220	1375	855	917	62	22.2	48.5	57.1	41.8	12.9	28.6	15.7	448	37140	1382	32.7	2756.1
OCT	74	34	446	36822	1376	855	915	60	22.9	59.2	66.5	41.9	16.5	34.8	15.5	448	37162	1381	33.2	2792.9
NOV	74	35	364	30138	1380	854	914	60	23.0	60.8	68.8	41.8	17.6	37.2	15.4	448	37121	1381	33.5	2823.0
DEC	74	36	373	30884	1380	851	912	61	22.6	52.0	59.5	41.2	15.7	32.4	15.2	454	37572	1381	33.9	2853.9

Monthly Pumping and Production Statistics
for Last Three Years

Well PM-3

DATE MO	YR		PUMP TIME HR	PUMP-AGE THSND GAL	RATE GPM	WATER LEVEL NON PUMP FT	WATER LEVEL PUMP FT	DRAW DOWN FT	SPEC CAP-ACITY GPM/FT	PERCENT OF FIELD PUMP TIME	PERCENT OF FIELD PUMP-AGE	PERCENT OF FIELD RATE	PERCENT OF TOTAL PUMP TIME	PERCENT OF TOTAL PUMP-AGE	PERCENT OF TOTAL RATE	YEARLY AVERAGE PUMP TIME HR	YEARLY AVERAGE PUMP-AGE THSND GAL	YEARLY AVERAGE RATE GPM	CUMULATIVE PUMP TIME THSND HR	CUMULATIVE PUMP-AGE MILLN GAL
JAN	72	1	138	10847	1310	750	773	23	57.0	22.3	23.7	38.5	5.9	11.9	15.0	225	17509	1299	11.4	897.0
FEB	72	2	137	10825	1317	750	773	23	57.3	22.8	24.5	38.6	6.4	12.8	14.4	218	17027	1299	11.5	907.9
MAR	72	3	227	17500	1285	751	774	23	55.9	29.7	31.2	38.2	7.5	15.2	14.2	221	17227	1298	11.7	925.4
APR	72	4	242	19088	1315	751	775	24	54.8	27.0	31.1	40.1	5.3	12.4	14.9	224	17494	1300	12.0	944.4
MAY	72	5	406	31749	1303	753	777	24	54.3	34.1	40.4	39.8	6.5	15.6	15.8	235	18301	1300	12.4	976.2
JUN	72	6	300	23483	1305	753	776	23	55.7	28.8	34.1	39.9	5.4	12.8	14.2	219	17117	1302	12.7	999.7
JUL	72	7	240	18851	1309	753	776	23	55.9	22.8	25.6	39.9	5.3	11.8	15.0	214	16782	1304	12.9	1018.5
AUG	72	8	272	21491	1317	753	776	23	57.3	27.8	32.0	40.2	6.0	13.7	15.0	220	17217	1305	13.2	1040.0
SEP	72	9	122	9584	1309	753	774	21	62.3	20.2	22.0	40.4	4.8	10.3	14.9	210	16458	1307	13.3	1049.6
OCT	72	10	146	11585	1322	753	775	22	60.1	23.1	26.1	41.1	5.1	11.3	15.0	211	16592	1309	13.5	1061.2
NOV	72	11	118	9338	1319	753	773	20	65.9	21.1	22.9	40.2	5.3	11.1	14.7	211	16557	1309	13.6	1070.5
DEC	72	12	97	7754	1332	753	774	21	63.4	18.2	20.3	41.4	4.5	9.6	14.9	204	16008	1309	13.7	1079.3
JAN	73	13	148	11835	1333	753	776	23	57.9	24.8	27.4	40.4	5.8	12.5	14.9	205	16090	1311	13.8	1090.1
FEB	73	14	136	10766	1319	753	776	23	57.4	26.3	28.7	40.1	6.1	13.1	14.7	204	16085	1311	14.0	1100.9
MAR	73	15	129	10201	1318	753	776	23	57.3	22.5	24.6	40.1	5.5	11.5	14.6	196	15477	1314	14.1	1111.1
APR	73	16	198	15706	1322	753	776	23	57.5	31.6	33.8	41.1	6.6	14.4	14.9	193	15195	1314	14.3	1126.8
MAY	73	17	365	28967	1323	755	778	23	57.5	41.2	45.7	41.6	9.1	19.9	15.0	189	14963	1318	14.7	1155.7
JUN	73	18	491	38901	1320	755	780	25	52.8	39.7	45.4	41.9	7.3	17.5	13.4	205	16248	1320	15.2	1194.6
JUL	73	19	413	32713	1320	756	780	24	55.0	38.9	42.4	42.2	8.3	18.7	15.5	220	17403	1321	15.6	1227.4
AUG	73	20	516	40874	1320	756	781	25	52.8	42.7	47.1	42.4	9.1	20.6	16.1	240	19019	1321	16.1	1268.2
SEP	73	21	217	17087	1312	756	779	23	57.1	21.8	29.1	42.3	5.3	12.5	16.0	248	19644	1321	16.3	1285.3
OCT	73	22	285	22577	1320	755	780	25	52.8	36.4	37.4	43.0	8.1	17.1	15.3	259	20560	1321	16.6	1307.9
NOV	73	23	196	15459	1315	755	778	23	57.2	34.7	33.5	48.7	7.7	16.0	15.8	266	21070	1321	16.8	1323.4
DEC	73	24	162	12758	1313	755	778	23	57.1	34.6	33.4	48.6	7.2	15.1	15.6	271	21487	1320	16.9	1335.1
JAN	74	25	161	12711	1316	755	778	23	57.2	33.9	32.7	48.6	7.2	14.9	15.4	272	21560	1319	17.1	1343.8
FEB	74	26	140	11027	1313	755	778	23	57.1	30.0	29.9	48.6	7.0	14.1	15.5	273	21582	1319	17.2	1354.9
MAR	74	27	150	11805	1312	755	778	23	57.0	22.2	24.6	38.9	7.1	13.7	15.1	274	21715	1318	17.4	1371.7
APR	74	28	308	24305	1315	754	778	24	54.8	30.6	35.0	39.5	8.0	17.4	15.6	284	22432	1318	17.7	1396.0
MAY	74	29	496	39118	1314	756	780	24	54.8	32.3	36.9	40.0	6.9	16.4	16.2	295	23278	1317	18.2	1435.1
JUN	74	30	504	39478	1305	758	783	25	52.2	34.3	39.2	39.9	7.4	17.0	15.3	296	23326	1315	18.7	1474.5
JUL	74	31	420	33110	1314	757	782	25	52.6	29.5	34.0	40.0	8.0	16.8	15.1	296	23359	1314	19.1	1507.7
AUG	74	32	277	21891	1317	756	780	24	54.9	25.1	29.1	40.0	8.6	16.8	14.8	276	21777	1313	19.4	1529.6
SEP	74	33	298	23530	1316	756	780	24	54.8	27.0	30.4	40.0	7.2	15.2	15.0	283	22314	1314	19.7	1553.1
OCT	74	34	175	13852	1312	756	778	22	59.6	23.4	25.0	39.9	6.5	13.1	14.7	274	21587	1313	19.9	1566.9
NOV	74	35	121	9520	1311	755	778	23	57.0	20.2	21.7	39.7	5.8	11.7	14.6	268	21092	1313	20.0	1576.5
DEC	74	36	190	14941	1311	755	778	23	57.0	26.5	28.8	39.2	8.0	15.7	14.4	270	21274	1313	20.2	1591.4