R. E. Irelan
Division Manager
Production Department
Hobbs Division
North American Production

Conoco Inc.
P.O. Box 460
726 East Michigan
Hobbs, NM 88240
(505) 393-4141

November 16, 1987

Mr. Jerry Sexton
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Dear Mr. Sexton:

The MCA Unit Agreement requires approval by the Bureau of Land Management and the Commissioner of Public Lands in order to amend the Plan of Operation to permit the employment of Enhanced Oil Recovery techniques in the MCA Unit area. Conoco Inc. submitted a revised Plan of Operation to the above named agencies to allow a proposed CO_2 project to be initiated.

We received notice from the Commissioner of Public Lands on November 6, 1987 that the Commissioner is approving the revised Plan of Operation contingent to like approval of the Bureau of Land Management and also the New Mexico Oil Conservation Division.

Consequently, we request your review and concurrence on the attached Plan of Operation.

Yours very truly,

R. E. Irelan

CLT/dh
Attachment

SUPPLEMENTAL AND AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

PLAN OF OPERATION

Mr. F. Cherry
Bureau of Land Management
1717 W. 2nd st.
P.O. Box 1397
Roswell, NM 88201

Mr. Floyd Prando
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87501

Gentlemen:

Conoco Inc., Operator for the MCA Unit, submits herein a revised Plan of Operation in accordance with Section X of the captioned agreement. This revised Plan of Operation calls for the addition of Enhanced Oil Recovery (EOR) techniques to the currently approved waterflood operations.

The Maljamar Cooperative Agreement (Supplement No. 5) contemplates that any one or more various EOR techniques may be undertaken with the objective of maintaining a desired rate of Participating Area production, utilizing the most efficient injection rates, pressures and well injection patterns calculated to most effectively recover the fully unitized substances within the fully unitized formations.

The Operator believes that the accomplishment of the foregoing objective will best be obtained by implementing EOR operations within the MCA Unit. The initial step in this program will consist of a CO_2 flood operation on less than all of the Participating Area which can be systematically extended to additional portions of the Unit in order to maintain the desired rate of production. The waterflood program will continue in those areas not affected by CO_2 operations.

In order to determine the most efficient injection rates, pressure and injection pattern for the recovery of the fully unitized substances, Operator conducted a 5-acre inverted 5-spot CO_2 Injection Pilot Test between 1981 and 1986. Actual CO_2 injection occurred between May and December 1983. Information obtained from the pilot provided a calibration basis for the miscible-flood simulator used for expansion predictions to develop field scale projections. These reservoir evaluations and predictions form the basis of the current proposal to progressively extend

CO_2 flooding into 3920 acres of the 8040 acre MCA Unit. The CO_2 project is to be implemented in successive stages such that the sections with the longest operational life are started early, so that total project life is not uneconomically lengthened.

It is proposed that the initial stage of operation proceed as follows:

Drilling and Conversion of Wells for Injection

Initially, each affected well in the CO_2 flood area is to be worked over prior to CO_2 injection. The primary objectives of the well work are to complete all floodable CO_2 pay horizons, repair damaged well bores, and to install downhole equipment suitable for CO_2 injection and production. Pattern conversions from the current 80 acre inverted nine spot waterflood are envisioned. Pattern changes, and drilling and/or conversion of producers and injectors, will be implemented as conditions warrant in keeping with sound engineering principles.

First stage CO_2 injection will commence in early 1989 as the well work program progresses and the CO_2 facilities become operational. The MCA CO_2 Project is designed for continuous injection of CO_2 followed by a post flush water slug rather than alternating cycles of CO_2 and water injection.

Construct CO_2 Supply Line

A third-party constructed and owned CO_2 supply line to be extended to MCA in 1988 will traverse some 45 miles from the source point near Tatum in Lea County, NM to the MCA Unit. The line will be sized to adequately deliver a contract quantity of 50 MMCFD plus any reasonable additional demand requirements. Estimated purchased CO_2 requirements (180 BCF) for the project have been secured over a 10-15 year period.

Install Injection System

A new injection piping system will be installed to handle both CO_2 injection and subsequent post brine injection. The piping metallurgy initially can be bare carbon steel in long duration (17 years) CO_2 injection stages to be replaced with internally coated carbon steel for post brine injection. In short duration (4 years) CO_2 injection stages, internally coated carbon steel or cement lined piping will be used. The piping system is designed to handle maximum surface injection pressures of 2500 psi. Normal average surface injection pressure will be under 2200 psi.

As the CO_2 flood progresses, significant quantities of CO_2 appear in the produced gas. CO_2 recycle facilities will gather the high CO_2 content produced gas from the production batteries, and compress and dehydrate the gas for reinjection into the reservoir. The design of the CO_2 recycle

facility is based on complete recycle of all produced gas from the CO_2 flood areas. However, this system will be designed to allow future addition of hydrocarbon-CO_2 separation if this appears worthwhile.

The capability of installing additional compressors, should CO_2 injection exceed the current 50 MMCSFD design will be provided.

The CO_2 laden produced gas will be segregated from the waterflood produced gas at the MCA batteries and directed through a low pressure gas gathering system to the CO_2 recycle facility. The dehydrated, compressed (2200 psig) gas will be commingled with the purchased CO_2 and directed to the CO_2 injection system.

In order to monitor and control the progress of the CO_2 flood, both flow measurement and control of the CO_2 injection rates is provided at each satellite header.

Revised Production System

The current MCA production batteries in the CO_2 flood area will be modified to process the increased CO_2 flood production rates. As redesigned, the produced fluid from each production header flows to a dedicated processing train. After metering, each battery's water streams combine and flow to the associated water injection station and each battery's oil streams combine and flow to oil storage. The existing oil storage tanks and LACT unit at each battery are adequate for the CO_2 flood production rates. After metering, the vapor streams from each battery's tertiary production train(s) combine and flow to the CO_2 compression/dehydration facilities. The secondary vapor production flows to the Maljamar Gas Plant. The vapor recovery unit discharge can be directed to either the Maljamar Gas Plant or the CO_2 compression/dehydration facilities. Because of increased capacity and discharge pressure requirements, new vapor recovery units (VRU) will be planned for at each battery.

Future EOR Operations

This Plan of Operation is published to provide approval not only to do all things and perform all tasks necessary for CO_2 injection in particular, but also for all EOR techniques/projects in general which may be deemed advisable in the future. As spoken to in Article X of Supplement No. 5, the Commissioner and the Supervisor have authorized the Operator to "inject into the unitized formation, through any well or wells completed therein, brine, water, air, gas, oil or other liquid hydrocarbons, and any one or more other substances, whether produced from the Participating Area or not, and that the location of input wells and the rates of injection therein and the rate of production shall be governed by standards of good geologic and petroleum engineering practices and conservation methods."

Conoco Inc., as Operator for the MCA Unit, commits the current on-going waterflood, proposed CO_2 flood, and future EOR projects to this Plan of Operation in keeping with sound engineering principles, regulatory requirements, environmental considerations, and conservation practices.

APPROVED:

SUPERVISOR
NEW MEXICO OIL CONSERVATION DIVISION

11-20-87
DATE

#2718

State of New Mexico

Commissioner of Public Lands

W.R. HUMPHRIES
COMMISSIONER

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

November 1, 1990

Conoco Inc.,
10 Desta Drive West
Midland, TX 79705-9982

Attn: Land Department

Re: Maljamar Cooperative Agreement
Lea County, New Mexico
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands this date approved the 1990 Plan of Development for the Maljamar Cooperative Unit. Our approval is subject to like approval by all other appropriate agencies. Please forward to this office current copies of both Exhibits A & B.

The possibility of drainage by wells outside of the Unit Area and the need for further development may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help, please do not hesitate to contact Clyde Langdale at (505) 827-5791.

Sincerely,

W. R. HUMPHRIES

BY: [signature]
Floyd O. Prando, Director
Oil, Gas & Minerals Division

cc: OCD
Unit Corresp.
Unit POD

State of New Mexico

Commissioner of Public Lands

W.R. HUMPHRIES
COMMISSIONER

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

October 5, 1990

Conoco Inc.,
726 East Michigan
P.O. Box 460
Hobbs, NM 88241

Attn: David C.Strople, Land Supervisor

Re: Maljamar Cooperative Agreement
Lea County, New Mexico
1990 Plan of Development

Dear Mr. Strople:

The Commissioner of Public Lands this date approved the 1990 Plan of Development for the Maljamar Cooperative Unit. Our approval is subject to like approval by all other appropriate agencies. Please forward to this office current copies of both Exhibits A & B.

The possibility of drainage by wells outside of the Unit Area and the need for further development may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help, please do not hesitate to contact Clyde Langdale at (505) 827-5791.

Sincerely,

W. R. HUMPHRIES

BY: Floyd O. Prando
Floyd O. Prando, Director
Oil, Gas & Minerals Division

cc: OCD
Unit Corresp.
Unit POD

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

P. O. BOX 871
SANTA FE

December 31, 1962

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1713
Santa Fe, New Mexico

Re: Case No. 2718
Order No. R-2403
Applicant:
Continental Oil Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC x

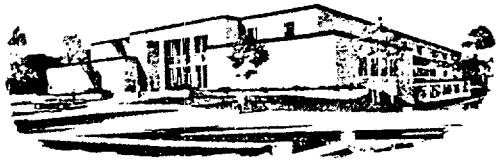
Artesia OCC

Aztec OCC

OTHER

State of New Mexico

2718



W.R. HUMPHRIES
COMMISSIONER

Commissioner of Public Lands

SLO REF NO. OG-558

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

November 6, 1987

Conoco, Inc.
ATTENTION: Mr. R. E. Irelan
P. O. Box 460
Hobbs, New Mexico 88240

Re: Revised Plan of Operation
Maljamar Cooperative Agreement
Lea County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved your Revised Plan of Operator for the Maljamar Cooperative Repressuring Agreement, Lea County, New Mexico. Your revised Plan of Operation calls for the addition of Enhanced Oil Recovery (EOR) techniques to the currently approved waterflood operations.

Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

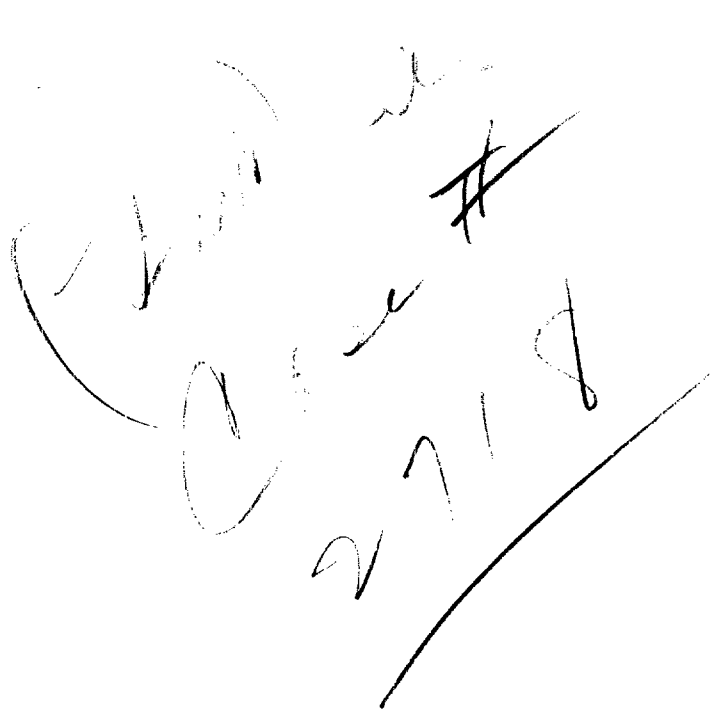
Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY: Floyd O. Prando

FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

WRH/FOP/pm
encls.
cc: OCD-Santa Fe, New Mexico
BLM-Roswell, New Mexico Attn: Mr. Armando Lopez



MALJAMAR FIELD CUMULATIVE OIL, WATER & GAS PRODUCTION

LAST HALF, 1964

Company, Lease & Well No.	UNIT	S.T.&R.	Oil Production: Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	Water Production: 6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-6
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY														
MCA Unit	1	B	17-17-32	21,844	84	76	97	39	44	69	409	22,253	-	-	5
MCA Unit	2	A	17-17-32	60,324	62	56	-	-	-	-	118	60,442	-	-	-
MCA Unit	3	D	16-17-32	36,841	-	-	-	-	-	-	-	36,841	-	-	8
MCA Unit	4	G	16-17-32	13,513	78	78	79	73	90	100	498	14,011	349	.701	1,4
MCA Unit	5	E	16-17-32	91,175	105	106	106	98	120	100	635	91,810	-	-	-
MCA Unit	6	H	17-17-32	30,468	-	-	-	-	-	-	-	30,468	-	-	-
MCA Unit	7	F	17-17-32	24,064	63	56	72	30	33	-	254	24,318	-	-	7
MCA Unit	8	I	17-17-32	16,335	-	-	-	-	-	-	-	16,335	-	-	-
MCA Unit	9	M	15-17-32	103,153	126	133	151	127	109	71	717	103,870	-	-	-
MCA Unit	10	P	16-17-32	258,626	326	473	450	431	431	418	2,529	261,155	242	.096	1,9
MCA Unit	11	O	16-17-32	140,675	251	278	265	253	253	246	1,546	142,221	484	.313	1,8
MCA Unit	12	N	16-17-32	60,671	78	78	79	73	90	100	498	61,169	30	.060	
MCA Unit	13	M	16-17-32	51,563	-	-	-	-	-	-	-	51,563	-	-	-
MCA Unit	14	P	17-17-32	-	187	-	-	-	-	-	187	187	-	-	-
MCA Unit	15	N	17-17-32	143,742	460	460	474	450	446	453	2,743	146,515	-	-	3
MCA Unit	16	M	17-17-32	61,765	-	-	-	-	-	-	-	61,765	-	-	4
MCA Unit	17	M	18-17-32	83,970	187	119	139	168	136	120	869	84,839	-	-	-
MCA Unit	18	D	19-17-32	134,425	74	78	84	82	92	102	512	134,937	-	-	9
MCA Unit	19	C	19-17-32	53,042	130	136	147	143	162	228	946	53,988	-	-	-

Company, Lease & Well No.	UNIT	S.T.&R.	Oil Production Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-6
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit	23	C	20-17-32	270,286	1,153	1,083	1,116	1,058	1,049	1,133	6,592	276,878	-	-	
MCA Unit	24	B	20-17-32	302,814	1,225	1,166	1,112	972	1,082	1,116	6,673	309,487	-	-	-
MCA Unit	25	A	20-17-32	231,072	398	378	361	761	848	998	3,744	234,816	-	-	2,1
MCA Unit	26	D	21-17-32	174,647	236	372	352	421	413	409	2,203	176,850	-	-	1,7
MCA Unit	27	C	21-17-32	575,298	1,277	1,255	1,276	1,527	1,499	1,610	8,444	583,742	394	.047	9
MCA Unit	28	B	21-17-32	574,595	1,230	1,364	1,297	1,239	1,239	1,179	7,548	582,143	-	-	2
MCA Unit	29	A	21-17-32	372,973	-	-	-	-	-	-	-	372,973	-	-	58,0
MCA Unit	30	D	22-17-32	308,560	226	251	238	227	227	319	1,488	310,048	75	.050	11,7
MCA Unit	31	D	23-17-32	66,057	112	105	87	101	103	127	635	66,692	-	-	1,6
MCA Unit	32	C	23-17-32	36,209	56	53	44	50	52	95	350	36,559	-	-	4,1
MCA Unit	33	G	23-17-32	45,485	-	-	-	-	-	-	-	45,485	-	-	-
MCA Unit	34	F	23-17-32	54,132	-	-	-	-	-	-	-	54,132	-	-	-
MCA Unit	35	E	23-17-32	132,992	168	158	131	152	155	127	891	133,883	-	-	4
MCA Unit	36	H	22-17-32	90,305	132	119	150	124	125	206	856	91,161	-	-	-
MCA Unit	37	G	22-17-32	92,960	105	95	120	99	100	137	656	93,616	-	-	5
MCA Unit	39	F	22-17-32	101,764	158	143	180	149	150	138	918	102,682	-	-	-
MCA Unit	40	E	22-17-32	87,054	402	446	424	405	405	491	2,573	89,627	15	.006	1,8
MCA Unit	42	H	21-17-32	462,668	1,180	1,309	1,244	1,189	1,188	1,253	7,363	470,031	1,849	.251	8,4
MCA Unit	43	G	21-17-32	140,674	226	251	238	227	227	270	1,439	142,113	290	.202	5,7
MCA Unit	45	F	21-17-32	189,093	1,371	1,348	1,276	1,527	1,499	1,507	8,528	197,621	728	.085	4,3
MCA Unit	46	E	21-17-32	151,887	497	603	615	739	723	664	3,841	155,728	-	-	

Company, Lease & Well No.	UNIT	S.T.&R.	Oil Production Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-6
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit	47	E	21-17-32	31,670	-	-	-	-	-	-	-	31,670	-	-	
MCA Unit	48	H	20-17-32	310,321	689	788	751	656	731	734	4,289	314,610	-	-	
MCA Unit	49	G	20-17-32	352,427	1,225	1,166	1,112	972	1,082	1,087	6,644	359,071	-	-	
MCA Unit	50	F	20-17-32	260,331	317	298	307	291	288	312	1,813	262,144	-	-	
MCA Unit	51	E	20-17-32	282,532	1,469	1,382	1,423	1,348	1,337	1,331	8,290	290,822	-	-	
MCA Unit	52	H	19-17-32	275,369	689	664	715	652	630	630	3,980	279,349	-	-	
MCA Unit	53	G	19-17-32	238,792	552	531	457	417	403	369	2,729	241,521	-	-	
MCA Unit	54	F	19-17-32	132,071	131	136	147	142	162	178	896	132,967	-	-	
MCA Unit	55	E	19-17-32	201,241	482	506	547	530	601	686	3,352	204,593	-	-	1
MCA Unit	56	A	19-17-32	184,606	262	264	248	242	237	283	1,536	186,142	-	-	
MCA Unit	57	K	19-17-32	281,669	959	968	911	888	871	1,039	5,636	287,305	-	-	
MCA Unit	59	J	19-17-32	251,559	1,249	1,250	1,161	1,019	982	1,026	6,687	258,246	-	-	7
MCA Unit	60	I	19-17-32	296,444	2,311	2,313	2,583	2,748	2,648	2,768	15,371	311,815	-	-	-
MCA Unit	62	L	20-17-32	326,489	1,528	1,525	1,442	1,355	1,433	1,528	8,811	335,300	-	-	
MCA Unit	63	K	20-17-32	255,956	530	528	526	496	523	558	3,161	259,117	-	-	3
MCA Unit	65	J	20-17-32	305,871	897	912	810	724	771	845	4,959	310,830	-	-	
MCA Unit	66	I	20-17-32	381,245	1,779	2,071	1,944	1,505	1,367	1,595	10,261	391,506	303	.030	12,6
MCA Unit	67	L	21-17-32	277,175	967	1,420	1,277	551	1,336	920	6,471	283,646	606	.093	1
MCA Unit	68	K	21-17-32	119,806	-	-	-	-	-	-	-	119,806	-	-	
MCA Unit	69	K	21-17-32	58,346	187	185	203	153	213	139	1,080	59,426	-	-	
MCA Unit	70	J	21-17-32	275,797	343	525	493	783	273	725	3,142	278,939	600	.191	24,6
MCA Unit	71	I	21-17-32	203,632	301	334	318	303	303	319	1,878	205,510	-	-	4,1

Company, Lease & Well No.		Unit	S.T.&R.	Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbl.
				Oil Production									
PARTICIPATING WELLS													
CONTINENTAL OIL COMPANY (CON'T.)													
MCA Unit	72	I	22-17-32	148,541	149	155	150	140	150	150	904	149,445	-
MCA Unit	73	K	22-17-32	126,778	289	262	331	273	275	240	1,670	128,448	-
MCA Unit	74	J	22-17-32	221,081	447	405	511	422	424	412	2,621	223,702	-
MCA Unit	75	P	21-17-32	178,638	241	280	259	328	299	319	1,826	180,464	-
MCA Unit	76	L	23-17-32	169,129	257	254	244	229	247	254	1,485	170,614	-
MCA Unit	77	K	23-17-32	37,290	78	70	70	-	-	-	218	37,508	-
MCA Unit	78	J	23-17-32	45,395	-	-	-	-	-	-	-	45,395	-
MCA Unit	79	L	23-17-32	126,136	78	282	282	408	334	-	1,284	127,420	-
MCA Unit	80	P	23-17-32	49,336	-	-	-	-	-	-	-	49,336	-
MCA Unit	81	O	23-17-32	101,906	300	262	277	280	281	299	1,719	103,625	-
MCA Unit	82	N	23-17-32	88,200	-	-	-	-	-	-	-	88,200	-
MCA Unit	83	M	23-17-32	45,503	417	375	374	488	444	-	2,098	47,601	-
MCA Unit	84	P	22-17-32	220,096	362	420	389	492	448	670	2,781	222,877	-
MCA Unit	85	M	22-17-32	162,479	190	221	204	259	235	-	1,109	163,588	-
MCA Unit	87	N	22-17-32	255,805	478	498	481	449	480	508	2,894	258,699	-
MCA Unit	88	M	22-17-32	290,287	1,312	1,370	1,322	1,235	1,322	1,394	7,955	298,242	-
MCA Unit	90	P	21-17-32	258,320	1,013	1,058	1,022	973	1,021	1,046	6,133	264,453	-
MCA Unit	91	O	21-17-32	151,247	562	556	522	276	547	195	2,658	153,905	-
MCA Unit	92	N	21-17-32	269,216	405	804	755	1,061	1,002	920	4,947	274,163	-
MCA Unit	93	M	21-17-32	240,479	156	-	-	450	425	1,031	2,062	242,541	-
MCA Unit	94	P	20-17-32	292,920	999	989	929	1,029	972	864	5,782	298,702	5
MCA Unit	95	D	20-17-32	218,857	871	886	787	703	740	955	4,951	223,808	7

Company, Lease & Well No.	UNIT	S.T.&R.	Cumulative to 7-1-64	Oil Production July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit	97	N	20-17-32	280,095	312	312	229	215	227	218	1,513	281,608	-	-	29
MCA Unit	98	M	20-17-32	306,720	717	715	732	688	728	776	4,356	311,076	724	.166	17,363
MCA Unit	100	P	19-17-32	293,863	1,187	1,188	1,103	1,173	1,131	1,120	6,902	300,765	-	-	40
MCA Unit	101	O	19-17-32	189,850	750	751	697	494	478	497	3,665	193,515	-	-	21
MCA Unit	102	N	19-17-32	229,476	755	762	718	700	686	787	4,408	233,884	-	-	26
MCA Unit	103	M	19-17-32	265,306	639	645	607	593	581	567	3,632	268,938	180	.050	1,943
MCA Unit	104	D	30-17-32	248,454	889	762	652	764	757	848	4,672	253,126	-	-	149
MCA Unit	105	C	30-17-32	255,328	444	626	536	502	498	356	2,962	258,290	-	-	118
MCA Unit	107	B	30-17-32	321,432	605	607	589	554	552	570	3,477	324,909	-	-	62
MCA Unit	108	A	30-17-32	249,944	374	384	353	383	273	393	2,162	252,106	-	-	-
MCA Unit	109	D	29-17-32	314,527	982	991	937	884	972	1,094	5,860	320,387	69	.011	-
MCA Unit	110	C	29-17-32	303,002	426	430	406	383	421	456	2,522	305,524	-	-	-
MCA Unit	111	B	29-17-32	251,934	544	491	475	453	478	416	2,857	254,791	-	-	-
MCA Unit	112	A	29-17-32	325,705	843	835	784	868	820	725	4,875	330,580	-	-	-
MCA Unit	114	D	28-17-32	351,168	999	989	929	1,029	972	1,059	5,977	357,145	-	-	183
MCA Unit	115	C	28-17-32	289,626	1,248	1,236	1,161	1,286	1,215	1,199	7,345	296,971	-	-	-
MCA Unit	117	B	28-17-32	285,877	874	1,389	1,248	1,382	1,306	1,672	7,871	293,748	-	-	836
MCA Unit	118	A	28-17-32	271,344	621	557	522	598	580	564	3,442	274,786	-	-	-
MCA Unit	119	D	27-17-32	290,474	1,754	1,729	1,724	1,617	1,619	1,603	10,046	300,520	-	-	-
MCA Unit	120	C	27-17-32	262,437	558	550	549	515	515	543	3,230	265,667	-	-	1,300
MCA Unit	121	J	22-17-32	152,646	339	334	275	302	406	359	2,015	154,661	-	-	-
MCA Unit	122	A	27-17-32	269,931	531	524	523	490	491	543	3,102	273,033	-	-	-

Company, Lease & Well No.	UNIT	S.T.&R.	Cumulative to 7-1-64	Oil Production July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit	123	D 26-17-32	131,137	182	147	104	247	288	238	1,206	132,343	-	-	-
MCA Unit	124	C 26-17-32	79,307	181	144	103	248	287	268	1,231	80,538	-	-	-
MCA Unit	125	B 26-17-32	143,326	160	166	165	159	161	225	1,036	144,362	-	-	-
MCA Unit	126	A 26-17-32	82,797	214	141	125	131	128	-	739	83,536	-	-	274
MCA Unit	127	D 25-17-32	139,116	110	105	103	108	106	162	694	139,810	-	-	3
MCA Unit	128	F 25-17-32	28,279	-	-	-	-	-	-	-	28,279	-	-	-
MCA Unit	129	C 25-17-32	139,846	192	184	180	189	186	194	1,125	140,971	-	-	-
MCA Unit	130	G 25-17-32	28,140	-	-	-	-	-	-	-	28,140	-	-	-
MCA Unit	131	B 25-17-32	118,539	137	131	129	135	133	-	665	119,204	-	-	24
MCA Unit	132	A 25-17-32	120,287	165	157	154	162	160	130	928	121,215	270	.291	1,416
MCA Unit	133	D 30-17-32	128,281	819	866	849	567	559	680	4,340	132,621	-	-	4
MCA Unit	134	C 30-17-32	61,549	-	-	-	-	-	-	-	61,549	-	-	309
MCA Unit	135	F 30-17-32	66,369	-	-	-	-	-	-	-	66,369	-	-	1,236
MCA Unit	136	E 30-17-32	137,602	247	236	232	108	106	130	1,059	138,661	483	.456	15,479
MCA Unit	137	H 25-17-32	170,554	521	577	746	783	772	939	4,338	174,892	666	.154	4,988
MCA Unit	138	G 25-17-32	204,444	240	656	643	675	666	615	3,495	207,939	-	-	-
MCA Unit	139	F 25-17-32	220,057	631	603	592	621	612	518	3,577	223,634	54	.015	-
MCA Unit	140	E 25-17-32	190,885	274	262	257	270	266	356	1,685	192,570	-	-	-
MCA Unit	141	H 26-17-32	156,796	783	749	666	696	680	860	4,434	161,230	-	-	-
MCA Unit	142	G 26-17-32	101,432	668	693	689	664	671	618	4,003	105,435	-	-	1,654
MCA Unit	143	F 26-17-32	169,369	313	282	281	308	334	1,011	2,529	171,898	-	-	-
MCA Unit	144	E 26-17-32	46,640	-	-	-	-	-	-	-	46,640	-	-	-

Company, Lease & Well No.	UNIT	S.T.&R.	Cumulative to 7-1-64	Oil Production July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	6 Mo. Cum. To 7-1-64
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit	145	H	22-17-32	175,541	388	383	315	346	464	574	2,470	178,011	-	-	-
MCA Unit	146	G	27-17-32	344,707	930	917	914	858	869	1,448	5,926	350,633	-	-	-
MCA Unit	147	F	27-17-32	273,941	771	760	758	711	712	569	4,281	278,222	-	-	5,744
MCA Unit	148	E	27-17-32	31,225	-	-	-	-	-	-	-	31,225	-	-	-
MCA Unit	149	E	27-17-32	195,890	1,063	1,048	1,045	980	981	1,034	6,151	202,041	-	-	-
MCA Unit	150	H	28-17-32	288,588	802	719	674	773	749	705	4,422	293,010	-	-	-
MCA Unit	151	G	28-17-32	317,459	1,560	1,545	1,451	1,276	1,518	1,366	8,716	326,175	-	-	-
MCA Unit	152	F	28-17-32	293,236	1,935	1,916	1,799	1,777	1,882	2,592	11,901	305,137	-	-	-
MCA Unit	153	E	28-17-32	196,758	1,030	1,056	958	1,287	1,002	1,004	6,337	203,095	-	-	248
MCA Unit	154	H	29-17-32	298,779	624	618	580	551	607	530	3,510	302,289	-	-	186
MCA Unit	155	G	29-17-32	274,543	463	590	570	543	573	468	3,207	277,750	-	-	-
MCA Unit	157	F	29-17-32	284,067	229	231	219	206	227	303	1,415	285,482	-	-	-
MCA Unit	158	E	29-17-32	183,728	622	628	593	561	616	760	3,780	187,508	-	-	-
MCA Unit	159	H	30-17-32	243,959	484	498	457	497	357	515	2,808	246,767	-	-	-
MCA Unit	160	G	30-17-32	284,970	404	405	393	370	368	387	2,327	287,297	-	-	352
MCA Unit	162	F	30-17-32	196,751	508	435	373	349	346	438	2,449	199,200	-	-	452
MCA Unit	163	E	30-17-32	208,164	412	354	628	591	584	739	3,308	211,472	-	-	1,099
MCA Unit	164	L	30-17-32	166,959	533	521	444	426	497	564	2,985	169,944	576	.193	3,258
MCA Unit	165	K	30-17-32	128,866	127	124	106	102	118	232	809	129,675	216	.267	151
MCA Unit	166	J	30-17-32	176,473	291	289	273	305	303	388	1,849	178,322	792	.428	2,925
MCA Unit	167	I	30-17-32	162,095	125	124	117	131	130	156	783	162,878	367	.469	2,539
MCA Unit	169	L	29-17-32	213,215	606	565	284	276	267	258	2,256	215,471	243	.108	3,777

Company, Lease & Well No.	UNIT	S.T.&R.	Cumulative to 7-1-64	Oil Production July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	6 Mo. Cum. To 7-1-64
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit	170	F	29-17-32	246,030	957	892	851	830	803	807	5,140	251,170	276	.054	770
MCA Unit	171	J	29-17-32	267,440	707	639	618	589	621	728	3,902	271,342	-	-	246
MCA Unit	172	O	29-17-32	125,110	408	368	356	340	358	312	2,142	127,252	-	-	453
MCA Unit	173	I	29-17-32	172,238	218	197	190	180	192	130	1,107	173,345	-	-	274
MCA Unit	175	L	28-17-32	299,694	647	579	543	623	604	634	3,630	303,324	728	.201	9,444
MCA Unit	176	K	28-17-32	255,494	647	579	543	623	604	493	3,489	258,983	-	-	-
MCA Unit	178	J	28-17-32	296,275	1,372	1,229	1,413	1,620	1,570	1,527	8,731	305,006	-	-	921
MCA Unit	179	I	28-17-32	320,506	1,552	1,670	1,565	1,271	1,232	1,198	8,488	328,994	-	-	4,796
MCA Unit	180	L	27-17-32	256,219	1,488	1,467	1,463	1,372	1,374	1,319	8,483	264,702	-	-	-
MCA Unit	181	K	27-17-32	295,625	957	943	941	882	883	957	5,563	301,188	-	-	-
MCA Unit	183	O	27-17-32	162,779	1,116	1,100	1,097	1,029	1,030	1,138	6,510	169,289	-	-	-
MCA Unit	184	J	27-17-32	280,473	2,790	2,751	2,743	2,572	2,576	2,689	16,121	296,594	-	-	-
MCA Unit	185	J	27-17-32	61,235	-	-	-	-	-	-	-	61,235	-	-	-
MCA Unit	186	I	27-17-32	301,176	1,488	1,467	1,463	1,372	1,374	1,525	8,689	309,865	-	-	-
MCA Unit	187	L	26-17-32	267,180	327	319	355	373	483	659	2,516	269,696	-	-	-
MCA Unit	188	K	26-17-32	155,007	254	248	276	289	375	208	1,650	156,657	-	-	2,349
MCA Unit	189	J	26-17-32	189,939	417	407	454	474	618	486	2,856	192,795	724	.254	11,185
MCA Unit	190	L	25-17-32	201,012	960	918	901	946	932	971	5,628	206,640	1,551	.276	38,180
MCA Unit	191	K	25-17-32	59,927	494	472	463	486	479	421	2,815	62,742	450	.160	-
MCA Unit	192	K	25-17-32	195,798	319	211	206	216	212	65	1,229	197,027	693	.564	20,269
MCA Unit	193	J	25-17-32	32,039	-	-	-	-	-	-	-	32,039	-	-	-
MCA Unit	194	J	25-17-32	211,854	408	472	463	486	479	518	2,826	214,680	990	.350	13,557

Company, Lease & Well No.	UNIT	S.T.&R	Oil Production Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit 195	I	25-17-32	48,180	-	-	-	-	-	-	-	48,180	-	-	891
MCA Unit 196	I	25-17-32	270,057	1,454	1,758	1,802	1,890	1,867	2,226	10,997	281,054	793	.072	15,618
MCA Unit 197	L	30-17-32	24,315	-	-	-	-	-	-	-	24,315	-	-	-
MCA Unit 198	L	30-17-32	243,946	783	814	798	837	823	648	4,705	248,651	1,309	.278	21,530
MCA Unit 199	K	30-17-32	194,961	521	499	489	513	506	291	2,819	197,780	720	.255	2,812
MCA Unit 200	P	25-17-32	37,309	-	-	-	-	-	-	-	37,309	-	-	-
MCA Unit 201	N	23-17-32	153,505	200	266	296	310	403	659	2,134	155,639	-	-	-
MCA Unit 202	M	26-17-32	280,220	290	283	316	330	430	556	2,205	282,425	300	.136	120
MCA Unit 203	P	27-17-32	242,300	372	576	575	539	540	284	2,886	245,186	-	-	-
MCA Unit 204	O	27-17-32	27,901	-	-	-	-	-	-	-	27,901	-	-	-
MCA Unit 205	N	27-17-32	309,958	955	945	941	564	564	595	4,564	314,522	-	-	-
MCA Unit 206	M	27-17-32	300,040	983	969	967	907	909	904	5,639	305,679	-	-	-
MCA Unit 207	P	28-17-32	309,717	905	812	761	872	846	635	4,831	314,548	-	-	-
MCA Unit 208	O	28-17-32	142,491	543	487	456	847	821	799	3,953	146,444	-	-	-
MCA Unit 209	N	28-17-32	260,712	543	487	456	523	508	287	2,804	263,516	-	-	-
MCA Unit 210	M	28-17-32	254,307	1,604	1,438	1,348	1,098	1,063	1,317	7,868	262,175	-	-	-
MCA Unit 211	P	29-17-32	264,777	1,170	1,056	1,022	974	1,027	1,273	6,522	271,299	-	-	423
MCA Unit 213	N	29-17-32	175,507	447	416	397	387	375	344	2,366	177,873	559	.236	3,185
MCA Unit 214	M	29-17-32	142,044	255	238	511	498	482	326	2,310	144,354	475	.206	3,405
MCA Unit 215	P	30-17-32	59,408	83	82	78	87	87	130	547	59,955	734	1.342	4,254
MCA Unit 216	O	30-17-32	86,960	375	372	350	393	391	182	2,063	89,023	408	.198	3,692
MCA Unit 217	N	30-17-32	153,426	305	297	254	244	284	332	1,716	155,142	216	.126	1,340

Company, Lease & Well No.	UNIT	S.T.&R.	Oil Production Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
MCA Unit	218	M	30-17-32	86,008	279	273	233	223	260	199	1,467	87,475	308	.210	673
MCA Unit	219	C	31-17-32	23,040	76	74	63	61	71	100	445	23,485	952	2.139	10,585
MCA Unit	220	D	33-17-32	152,519	86	84	70	68	68	-	376	152,895	-	-	-
MCA Unit	221	C	33-17-32	153,995	229	225	187	182	183	172	1,178	155,173	-	-	3,177
MCA Unit	223	B	33-17-32	174,387	315	309	257	409	411	515	2,216	176,603	-	-	3,751
MCA Unit	224	A	33-17-32	176,808	172	169	140	136	137	173	927	177,735	-	-	1,504
MCA Unit	226	D	34-17-32	168,686	173	159	165	171	182	-	850	169,536	-	-	3,393
MCA Unit	227	C	34-17-32	130,574	223	209	205	191	242	218	1,288	131,862	93	.072	4,694
MCA Unit	228	B	34-17-32	89,424	192	180	175	163	208	218	1,136	90,560	453	.399	22,218
MCA Unit	229	E	34-17-32	183,688	87	79	83	86	92	197	624	184,312	1,092	1.750	52,421
MCA Unit	230	G	33-17-32	195,742	487	478	397	385	388	429	2,564	198,306	546	.213	3,616
MCA Unit	231	G	33-17-32	32,393	-	-	-	-	-	-	-	32,393	-	-	-
MCA Unit	232	F	33-17-32	158,131	516	507	420	409	411	429	2,692	160,823	-	-	3,949
MCA Unit	233	E	33-17-32	137,205	-	-	-	-	-	-	-	137,205	-	-	-
MCA Unit	234	N	21-17-32	12,481	1,218	1,732	1,625	1,838	1,702	2,677	10,792	23,273	-	-	-
MCA Unit	235	F	28-17-32	3,495	-	-	-	-	-	-	-	3,495	-	-	-
TOTAL PARTICIPATING				39,444,077	107,992	110,040	106,819	106,377	107,624	113,045	651,897	40,095,974	26,208	.040	515,653

Company, Lease & Well No.	UNIT	S.T.&R.	Oil Production Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
NON-PARTICIPATING WELLS														
CARPER DRILLING COMPANY														
Simon N	IP3 O	29-17-32	9,057	-	-	-	-	-	-	-	9,057	-	-	-
CONTINENTAL OIL COMPANY														
Baish "A"	2 E	22-19-32	107,368	-	-	-	-	-	-	-	107,368	-	-	-
Baish "B"	3 B	22-17-32	27,792	281	296	331	324	266	282	1,780	29,572	-	-	-
	4 A	22-17-32	6,396	47	49	55	54	44	-	249	6,645	-	-	-
LEASE TOTAL			34,188	328	345	386	378	310	282	2,029	36,217	-	-	-
King B	1 D	17-17-32	15,455	-	-	-	-	-	-	-	15,455	-	-	-
Miller A	7 M	23-17-32	84,248	-	-	-	-	-	-	-	84,248	-	-	-
Miller B	1 A	23-17-32	17,172	167	173	164	162	164	184	1,014	18,186	-	-	-
	5 H	23-17-32	51,813	-	-	-	-	-	-	-	51,813	-	-	-
LEASE TOTAL			68,985	167	173	164	162	164	184	1,014	69,999	-	-	-
Miller BX	1 P	14-17-32	22,656	111	115	109	108	110	48	601	23,257	-	-	-
	2 I	14-17-32	27,662	333	345	328	323	328	261	1,918	29,580	-	-	-
	3 H	14-17-32	19,945	84	87	82	81	82	190	606	20,551	-	-	-
	4 A	14-17-32	6,512	84	87	82	81	82	48	464	6,976	-	-	-
	5 O	14-17-32	14,873	251	260	246	243	247	237	1,484	16,357	-	-	-
	6 J	14-17-32	3,171	-	-	-	-	-	-	-	3,171	-	-	-
	7 G	14-17-32	9,993	251	260	246	243	247	190	1,437	11,430	129	.020	-
LEASE TOTAL			104,812	1,114	1,154	1,093	1,079	1,096	974	6,510	111,322	129	.020	-

Company, Lease & Well No.	U/L	T	S.T.&R.	Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
				Oil Production											
NON-PARTICIPATING WELLS															
CONTINENTAL OIL COMPANY (CON'T.)															
Mitchell B	1	B	18-17-32	9,976	74	79	72	84	78	181	568	10,544	1,700	2.993	23,383
	3	G	17-17-32	12,681	72	78	72	84	78	90	474	13,155	-	-	232
	4	H	18-17-32	10,415	72	78	72	84	78	68	452	10,867	1,110	2.456	11,523
	5	J	18-17-32	9,266	145	156	144	168	158	113	884	10,150	1,663	1.881	11,707
	6	I	18-17-32	339	-	-	-	-	-	-	-	339	-	-	-
	7	L	17-17-32	28,699	169	182	169	196	183	135	1,034	29,733	1,124	1.087	12,904
	8	J	17-17-32	10,041	72	78	72	84	78	-	384	10,425	-	-	320
	9	O	17-17-32	18,616	193	209	193	224	210	181	1,210	19,826	8,318	6.874	82,893
	10	O	17-17-32	5,110	-	-	-	-	-	-	-	5,110	-	-	-
	12	P	18-17-32	4,754	72	78	72	84	78	45	429	5,183	-	-	-
	13	N	18-17-32	6,978	72	78	72	84	78	90	474	7,452	-	-	3,296
	19	K	17-17-32	970	193	209	193	226	210	113	1,144	2,114	1,665	1.455	1,140
LEASE TOTAL				117,845	1,134	1,225	1,131	1,318	1,229	1,016	7,053	124,898	15,580	2.209	147,398
Pearsall A	7	G	33-17-32	22,712	-	-	-	-	-	-	-	22,712	-	-	-
Pearsall EX	1	A	34-17-32	11,504	-	-	-	-	-	-	-	11,504	-	-	3,983
State B	3	J	16-17-32	28,600	210	202	198	190	184	197	1,181	29,781	-	-	-
	4	G	16-17-32	12,232	47	45	44	42	41	-	219	12,451	-	-	-
	5	I	16-17-32	19,685	140	135	132	126	123	123	779	20,464	-	-	-
	6	B	16-17-32	17,020	164	157	154	147	143	147	912	17,932	-	-	-
	7	H	16-17-32	35,344	281	270	263	253	246	172	1,485	36,829	-	-	-
	8	A	16-17-32	7,734	140	136	131	127	123	123	780	8,514	-	-	-
LEASE TOTAL				120,615	982	945	922	885	860	762	5,356	125,971	-	-	-

Company, Lease & Well No.	UNIT	S.T.&R.	Cumulative to 7-1-64	Oil Production July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod.q Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
NON-PARTICIPATING WELLS														
CONTINENTAL OIL COMPANY (CON'T.)														
Taylor	1 M	14-17-32	17,169	295	291	261	283	299	262	1,691	18,860	-	-	-
	2 L	14-17-32	18,596	295	291	261	283	298	174	1,602	20,198	-	-	-
	3 N	14-17-32	22,333	221	218	196	213	224	174	1,246	23,579	-	-	-
	4 K	14-17-32	20,968	221	218	196	213	224	233	1,305	22,273	-	-	-
LEASE TOTAL			79,066	1,032	1,018	914	992	1,045	843	5,844	84,910	-	-	-
COMPANY TOTAL			766,798	4,757	4,860	4,610	4,814	4,704	4,061	27,806	794,604	15,709	.565	151,381
HUDSON & HUDSON														
Hudson	1X L	15-17-32	19,174	99	90	89	85	82	66	511	19,685	-	-	-
	2 J	15-17-32	4,798	99	89	89	84	81	67	509	5,307	-	-	-
COMPANY & LEASE TOTAL			23,972	198	179	178	169	163	133	1,020	24,992	-	-	-
KERSEY COMPANY														
State A	1 A	32-17-32	70,917	46	32	32	33	63	65	271	71,188	-	-	-
	2 B	32-17-32	68,012	45	31	31	33	62	64	266	68,278	-	-	-
	3 D	32-17-32	7,904	-	-	-	-	-	-	-	7,904	-	-	835
	4 G	32-17-32	41,250	-	-	-	-	-	-	-	41,250	-	-	2,647
	5 H	32-17-32	80,338	105	97	95	81	78	89	545	80,883	-	-	68
COMPANY & LEASE TOTAL			268,421	196	160	158	147	203	218	1,082	269,503	-	-	3,550
W. A. MONCRIEF														
Johns B	2 A	35-17-32	15,563	-	-	-	-	-	-	-	15,563	-	-	-
SEARS ET AL														
Miller A	3 N	26-17-32	12,570	-	-	-	-	-	-	-	12,570	-	-	-
DONOHUE, EDWARD C.														

Company, Lease & Well No.	NIT	S.T.&R.	Oil Production Cumulative to 7-1-64	July	Aug.	Sept.	Oct.	Nov.	Dec.	6 Mo. Total	Cumulative to 1-1-65	6 Mo. Prod. Bbls.	6 Mo. Avg. WOR	Cum. To 7-1-64
NON-PARTICIPATING WELLS														
TEXACO, INC.														
Federal C	1 P	15-17-32	34,734	484	389	434	456	438	430	2,631	37,365	515	.196	1,345
	2 I	15-17-32	27,302	248	289	216	243	231	219	1,446	28,748	541	.374	1,388
COMPANY & LEASE TOTAL			62,036	732	678	650	699	669	649	4,077	66,113	1,057	.259	2,733
WALLINGFORD & SMITH														
State A	1 A	35-17-32	15,201	-	-	-	-	-	-	-	15,201	-	-	1,297
TOTAL NON-PARTICIPATING			1,206,205	6,134	6,131	5,866	6,094	5,995	5,328	35,548	1,241,753	16,766	.472	158,986
GRAND TOTAL			40,650,282	114,126	116,171	112,685	112,471	113,619	118,373	687,445	41,337,727	42,974	.063	674,639

Company and Well		Total Injected	Daily Avg. 181 Days	Total Injected	Daily Avg. 184 Days	Datum Pressures	Total Injected to
CONTINENTAL OIL COMPANY							
MCA Unit	16	53,828	297	62,584	340	1090	1,147,667
	38	41,374	229	27,693	151	1100	1,222,154
	41	20,321	112	7,615	42	1003	688,053
	41C	62,912	348	53,126	289	896	862,038
	44	22,264	123	15,353	83	765	1,134,531
	47	73,068	404	75,734	412	872	1,548,363
	58	19,518	108	28,589	155	1171	781,901
	58C	34,634	191	40,610	221	-	660,885
	61	66,673	368	67,287	366	761	994,038
	61C	51,897	287	61,948	337	666	999,988
	64	168,272	930	78,381	426	784	1,251,766
	64C	41,066	227	59,024	321	745	885,286
	78	37,882	209	41,893	228	848	731,162
	82	74,784	413	66,766	363	920	852,585
	86	53,685	297	53,559	291	687	757,436
	86C	54,378	300	59,668	324	1042	790,260
	89	46,894	259	30,245	164	619	920,226
	89C	72,771	402	40,986	223	727	1,160,434
	96	7,360	41	1,092	6	881	816,618
	96C	48,530	268	38,763	211	671	990,989
	99	50,489	280	39,930	217	676	1,361,847
	106	43,614	241	46,267	251	958	868,448
	106C	62,860	347	62,248	338	860	1,153,281

Company and Well		January thru June, 1964 Total Injected	Daily Avg. 181 Days	July thru December, 1964 Total Injected	Daily Avg. 184 Days	October, 1964 Datum Pressures	Total Injected to
CONTINENTAL OIL COMPANY (CON'T.)							
MCA Unit	113	-	-	-	-	-	1,002,915
	113C	-	-	-	-	-	983,093
	116	-	-	-	-	-	917,522
	116C	-	-	-	-	-	845,556
	128	48,735	269	12,474	68	930	1,153,615
	130	52,764	292	40,304	219	1096	884,633
	144	52,442	290	19,516	106	915	1,248,720
	148	24,020	133	20,494	111	862	1,624,591
	156	35,990	199	29,130	158	1186	1,178,559
	161	29,464	163	59,645	324	1061	1,102,600
	168	39,529	218	29,880	162	943	1,022,786
	174	43,504	240	48,795	265	910	1,064,825
	174C	54,446	301	59,093	321	861	1,093,825
	177	59,946	331	54,222	295	783	1,528,600
	182	58,013	321	48,998	266	900	1,479,784
	193	23,553	130	37,800	205	842	1,127,207
	204	71,593	396	60,019	326	759	1,777,750
	212	13,492	75	14,508	79	1239	845,125
	222	427	2	1,990	11	1070	878,069
	225	37,435	207	51,471	280	832	1,332,085
		1,854,427		1,647,700			45,671,816

Volumes Injected into Wells Converted to Producers
Volumes Injected into Yates Sand Horizon

Company and Well		January thru June, 1983 Total Injected	Daily Avg. 181 Days	July thru December, 1984 Total Injected	Daily Avg. 184 Days	October, 1984 Datum Pressures	Total Injected to
WATER INJECTION							
CONTINENTAL OIL COMPANY							
MCA Unit	68	142,830	789	200,354	1089	-	369,309
	113	141,068	779	212,095	1153	-	380,651
	116	119,038	657	192,091	1044	-	334,543
	195	134,268	741	122,171	664	-	323,462
	197	40,994	226	66,493	361	-	989,714
	235	143,390	792	207,583	1128	-	380,030
		721,588		1,000,787			2,777,709

From	To	Datum Plane Pressure				Production				Injection Data				% Gas Retd. to Prod.	Net Gas Produced (M.C.F.)
		From	No. Wells	To	Loss/ Gain	No. Wells	Oil (Barrels)	Gas (M.C.F.)	CF/B Ratio	No. Wells	*Datum Plane Pressure	Gas Retd. (M.C.F.)			
M. C. A. AREA															
1-1-63	7-1-63	514	163	540	+ 26	260	718,849	3,369,293	4,687	32	991	1,615,955		48.0	1,753,3
7-1-63	1-1-64	540	163	530	- 10	235	705,706	3,448,186	4,886	32	948	1,678,860		48.7	1,769,3
1-1-64	7-1-64	540	163	597	+ 57	235	664,037	3,510,662	5,287	32	991	1,854,427		52.8	1,656,2
7-1-64	1-1-65	540	163	473	- 67	235	687,445	3,288,527	4,784	32	948	1,647,700		50.1	1,640,8
Discovery	7-1-64	1350	163	571	-779	235	40,650,312	85,016,007	2,091	32	991	46,893,581		55.2	43,338,4
Discovery	1-1-65	1350	163	514	-836	235	41,337,757	88,304,534	2,136	32	948	48,541,281		55.0	44,979,2
INJECTION AREA															
1-1-63	7-1-63	601	130	599	- 2	130	677,392	3,218,415	4,751	32	991	1,615,955		50.2	1,602,4
7-1-63	1-1-64	599	128	580	- 19	130	663,860	3,327,160	5,012	32	948	1,678,860		50.5	1,648,3
1-1-64	7-1-64	599	128	583	- 16	128	625,283	3,384,283	5,412	32	991	1,854,427		54.8	1,529,8
7-1-64	1-1-65	599	128	576	- 23	128	651,897	3,159,427	4,847	32	991	1,647,700		47.8	1,511,7
Discovery	7-1-64	1350	128	585	-765	128	39,444,107	66,135,063	1,677	32	991	46,893,581		70.9	19,241,4
Discovery	1-1-65	1350	128	601	-749	128	40,096,004	69,294,490	1,728	32	576	48,541,281		70.1	20,753,2
NON-INJECTION AREA															
1-1-63	7-1-63	409	97	480	+ 71	107	41,457	150,878	3,639	-	-	-		-	150,8
7-1-63	1-1-64	409	97	479	+ 70	107	41,846	121,026	2,892	-	-	-		-	121,0
1-1-64	7-1-64	480	97	610	-130	107	38,754	126,379	3,261	-	-	-		-	126,3
7-1-64	1-1-65	480	97	455	- 25	107	35,548	129,100	3,632	-	-	-		-	129,1
Discovery	7-1-64	1350	97	279	-1071	107	1,206,205	18,880,944	15,653	-	-	-		-	18,880,9
Discovery	1-1-65	1350	97	409	-941	107	1,241,753	19,010,044	15,309	-	-	-		-	19,010,0
MCA UNIT NO. 212															
1-1-63	7-1-63	561	4	501	- 60	6	15,309	66,671	4,355	1	1,146	7,654		1.1	59,0
7-1-63	1-1-64	501	4	442	- 59	6	20,349	110,722	5,441	1	1,006	21,268		1.9	89,4
1-1-64	7-1-64	501	4	413	- 88	6	14,898	96,454	6,474	1	1,195	13,492		14.0	82,9
7-1-64	1-1-65	413	4	399	- 14	6	15,198	108,397	7,132	1	1,239	14,508		13.3	93,8
Discovery	7-1-64	1350	4	325	-1025	6	897,218	1,720,968	1,918	1	1,195	830,617		48.3	890,3
Discovery	1-1-65	1350	4	561	-789	6	912,416	1,829,365	2,005	1	1,006	845,125		46.2	984,2
MCA UNIT NO. 156															
1-1-63	7-1-63	502	4	502	-	4	17,079	82,461	4,828	-	1,222	17,562		21.3	64,8
7-1-63	1-1-64	502	4	629	+127	4	14,390	109,451	7,606	-	1,118	25,066		22.9	84,3
1-1-64	7-1-64	502	4	461	- 41	4	12,148	99,250	8,170	-	1,222	35,990		36.2	63,2
7-1-64	1-1-65	461	4	465	+ 4	4	13,664	105,936	7,753	-	1,186	29,130		27.5	76,8
Discovery	7-1-64	1350	4	461	-894	4	1,071,679	1,981,567	1,849	-	1,222	1,149,429		58.0	832,1
Discovery	1-1-65	1350	4	502	-848	4	1,085,343	2,087,503	1,923	-	1,118	1,178,559		56.5	908,9

From	To	From	No. Wells	To	Loss/ Gain	No. Wells	Oil (Barrels)	Gas (M.C.F.)	CF/B Ratio	No. Wells	Datum Plane Pressure	Gas Retd. (M.C.F.)	% Gas Retd. to Prod.	Net Gas Produced (M.C.F.)
								MCA UNIT NO. 161						
1-1-63	7-1-63	524	4	448	- 76	4	9,553	48,005	5,025	1	936	26,947	56.1	21,0
7-1-63	1-1-64	448	4	403	- 45	4	9,968	74,387	7,463	-	1,028	43,217	58.1	31,1
1-1-64	7-1-64	448	4	403	- 45	4	8,644	79,076	9,148	1	936	29,464	37.3	49,6
7-1-64	1-1-65	403	4	416	+ 13	4	7,434	72,594	9,765	1	1,061	59,645	82.2	12,9
Discovery	7-1-64	1350	4	569	-781	4	786,975	1,591,438	2,022	1	936	1,042,955	65.5	548,4
Discovery	1-1-65	1350	4	524	-826	4	794,409	1,664,032	2,095	1	1,028	1,102,600	66.3	561,4
								MCA UNIT NO. 168						
1-1-63	7-1-63	523	4	382	-141	4	13,845	57,540	4,156	-	966	25,552	44.4	31,9
7-1-63	1-1-64	382	4	387	+ 5	4	12,899	86,925	6,739	-	929	21,995	25.3	64,9
1-1-64	7-1-64	382	4	350	- 32	4	9,411	86,524	9,194	-	966	39,529	45.7	46,9
7-1-64	1-1-65	350	4	449	+ 99	4	9,627	93,587	9,721	-	943	29,880	31.9	63,7
Discovery	7-1-64	1350	4	491	-859	4	801,247	1,834,152	2,289	-	966	1,204,922	65.7	629,2
Discovery	1-1-64	1350	4	523	-827	4	810,874	1,927,739	2,377	-	929	1,234,802	64.1	692,9
								MCA UNIT NO. 106						
1-1-63	7-1-63	669	4	609	- 60	4	17,962	144,493	8,044	-	916	50,665	35.1	93,8
7-1-63	1-1-64	609	4	614	+ 5	4	16,120	116,019	7,197	-	908	110,366	95.1	5,6
1-1-64	7-1-64	609	4	577	- 32	4	14,953	137,057	9,166	-	916	106,474	77.7	30,5
7-1-64	1-1-65	577	4	603	+ 26	4	14,512	119,195	8,214	-	909	108,515	91.0	10,6
Discovery	7-1-64	1350	4	577	-773	4	987,848	2,326,065	2,355	-	916	2,109,834	90.7	216,2
Discovery	1-1-65	1350	4	609	-741	4	1,002,360	2,445,260	2,440	-	908	2,218,349	90.7	226,9
								MCA UNIT NO. 58						
1-1-63	7-1-63	577	4	529	- 48	4	17,737	86,859	4,897	-	-	52,018	59.9	34,8
7-1-63	1-1-64	529	4	564	+ 35	4	19,509	71,472	3,664	-	-	63,353	88.6	8,1
1-1-64	7-1-64	529	4	535	+ 6	4	17,749	85,190	4,800	-	-	54,152	63.6	31,0
7-1-64	1-1-65	535	4	506	- 29	4	15,948	70,793	4,439	-	-	69,199	97.7	1,5
Discovery	7-1-64	1350	4	583	-767	4	901,324	1,836,435	2,037	-	-	1,373,587	74.8	462,8
Discovery	1-1-65	1350	4	577	-773	4	917,272	1,907,228	2,079	-	-	1,442,786	75.6	464,4
								MCA UNIT NO. 64						
1-1-63	7-1-63	704	4	714	+ 10	4	20,572	144,841	7,041	1	795	55,088	38.0	89,7
7-1-63	1-1-64	714	4	723	+ 9	4	20,236	92,986	4,595	1	806	106,771	114.8	13,7
1-1-64	7-1-64	714	4	724	+ 10	4	18,248	99,489	5,452	1	795	209,338	210.4	109,8
7-1-64	1-1-65	724	4	693	- 31	4	16,577	104,796	6,322	1	765	137,405	131.1	32,6
Discovery	7-1-64	1350	4	750	-600	4	1,167,713	2,371,571	2,031	1	795	1,999,647	84.3	371,9
Discovery	1-1-65	1350	4	740	-610	4	1,184,290	2,476,367	2,091	1	806	2,137,052	86.2	339,3

From	To	Datum Plane Pressure: From	Datum Plane Pressure: No. Wells	Datum Plane Pressure: To	Loss/ Gain	Production: No. Wells	Production: Oil (Barrels)	Production: Gas (M.C.F.)	Production: CF/B Ratio	Injection: No. Wells	Injection: Datum Plane Pressure	Injection: Gas Retd. (M.C.F.)	Gas Retd. to Prod.	Net Gas Produced (M.C.F.)
								MCA UNIT NO. 89						
1-1-63	7-1-63	623	4	634	+ 11	4	24,597	124,645	5,067	1	756	84,454	67.8	40,19
7-1-63	1-1-64	634	4	613	- 21	4	25,288	115,656	4,574	1	734	75,636	65.4	40,02
1-1-64	7-1-64	634	4	574	- 60	4	26,157	167,545	6,405	1	756	119,665	71.4	47,88
7-1-64	1-1-65	574	4	544	- 30	4	27,558	175,395	6,365	1	730	71,231	40.6	104,16
Discovery	7-1-64	1350	4	563	-787	4	1,108,381	2,530,321	2,283	1	756	2,009,438	79.4	520,88
Discovery	1-1-65	1350	4	623	-727	4	1,135,939	2,705,716	2,382	1	734	2,080,669	76.9	625,04
								MCA UNIT NO. 99						
1-1-63	7-1-63	665	4	619	- 46	4	25,216	149,109	5,913	1	750	31,022	20.8	118,08
7-1-63	1-1-64	619	4	607	- 12	4	22,844	108,678	4,757	1	619	33,715	31.0	74,96
1-1-64	7-1-64	619	4	600	- 19	4	21,211	146,525	6,908	1	750	50,489	34.5	96,03
7-1-64	1-1-65	600	4	601	+ 1	4	20,595	160,889	7,812	1	676	39,930	24.8	120,95
Discovery	7-1-64	1350	4	646	-704	4	1,172,035	2,277,023	1,943	1	750	1,325,590	58.2	951,43
Discovery	1-1-65	1350	4	665	-685	4	1,192,630	2,437,912	2,044	1	619	1,365,520	56.0	1,072,39
								MCA UNIT NO. 61						
1-1-63	7-1-63	783	4	713	- 70	4	28,308	168,942	5,968	1	859	59,022	34.9	109,92
7-1-63	1-1-64	713	4	726	+ 13	4	28,528	130,279	4,567	1	759	94,939	72.9	35,34
1-1-64	7-1-64	713	4	737	+ 24	4	32,060	138,622	4,324	1	859	118,570	85.5	20,05
7-1-64	1-1-65	737	4	740	+ 3	4	36,452	237,201	6,507	1	714	129,235	54.5	107,96
Discovery	7-1-64	1350	4	807	-543	4	1,178,108	2,303,886	1,956	1	859	1,817,073	78.9	486,81
Discovery	1-1-65	1350	4	783	-567	4	1,214,560	2,541,087	2,092	1	759	1,946,308	76.6	594,77
								MCA UNIT NO. 41						
1-1-63	7-1-63	634	4	649	+ 15	4	11,936	80,009	6,703	1	952	52,664	65.8	27,34
7-1-63	1-1-64	634	4	626	- 8	4	11,998	76,909	6,410	1	943	50,148	65.2	26,76
1-1-64	7-1-64	649	4	634	- 15	4	12,457	97,365	7,816	1	952	83,233	85.5	14,13
7-1-64	1-1-65	634	4	610	- 20	4	12,718	67,672	5,320	1	950	60,741	89.8	6,93
Discovery	7-1-64	1350	4	619	-731	4	1,009,438	1,925,469	1,907	1	952	1,489,350	77.3	436,11
Discovery	1-1-65	1350	4	634	-716	4	1,022,156	1,993,141	1,950	1	943	1,550,091	77.8	443,05
								MCA UNIT NO. 38						
1-1-63	7-1-63	438	4	390	- 48	4	6,767	62,972	9,306	1	1,030	30,022	47.7	32,95
7-1-63	1-1-64	390	4	441	+ 51	4	5,493	63,120	11,491	1	1,053	39,087	61.9	24,03
1-1-64	7-1-64	390	4	555	+165	4	6,969	63,197	9,068	1	1,030	41,374	65.5	21,82
7-1-64	1-1-65	555	4	399	-156	4	5,865	47,594	8,115	1	1,100	27,693	58.2	19,90
Discovery	7-1-64	1350	4	603	-747	4	532,297	1,688,162	3,171	1	1,030	1,200,189	71.1	487,97
Discovery	1-1-65	1350	4	438	-912	4	538,162	1,735,756	3,225	1	1,053	1,227,882	70.7	507,87

From	To	From	No. Wells	To	Loss/ Gain	No. Wells	Oil (Barrels)	Gas (M.C.F.)	CF/B Ratio	No. Wells	Datum Plane Pressure	Gas Retd. (M.C.F.)	Retd. to Prod.	Net Gas Produced (M.C.F.)
								MCA UNIT NO. 47						
1-1-63	7-1-63	622	5	667	+ 45	6	18,393	75,342	4,096	1	938	46,114	61.2	29,22
7-1-63	1-1-64	667	5	497	-170	5	25,042	50,503	2,016	1	1,048	77,970	154.3	27,46
1-1-64	7-1-64	667	5	609	- 58	5	23,310	67,483	2,895	1	938	73,068	108.3	5,58
7-1-64	1-1-65	622	5	575	- 47	5	25,332	79,000	3,119	1	872	75,734	96.9	3,26
Discovery	7-1-64	1350	5	564	-786	5	1,124,192	2,326,469	2,069	1	938	1,472,629	63.3	853,84
Discovery	1-1-65	1350	5	622	-728	5	1,149,524	2,405,469	2,093	1	1,048	1,548,363	64.4	857,10
								MCA UNIT NO. 44						
1-1-63	7-1-63	616	5	609	- 7	5	14,486	113,747	7,852	1	811	26,348	23.1	87,39
7-1-63	1-1-64	609	5	558	- 51	5	16,571	71,920	4,340	1	800	19,962	27.8	51,95
1-1-64	7-1-64	609	5	645	+ 36	5	13,608	51,014	3,749	1	811	22,264	43.6	28,75
7-1-64	1-1-65	645	5	615	- 30	5	14,189	42,386	2,987	1	765	15,353	36.2	27,03
Discovery	7-1-64	1350	5	652	-698	5	793,273	2,060,083	2,597	1	811	1,125,773	54.6	934,31
Discovery	1-1-65	1350	5	616	-734	5	807,462	2,102,469	2,604	1	800	1,141,126	54.3	961,34
								MCA UNIT NO. 86						
1-1-63	7-1-63	639	4	577	- 62	4	16,194	91,146	5,628	1	882	99,150	108.8	8,00
7-1-63	1-1-64	577	4	552	- 25	4	16,149	149,207	9,239	1	872	93,286	62.5	55,92
1-1-64	7-1-64	577	4	565	- 12	4	13,027	118,948	9,131	1	882	108,063	90.8	10,88
7-1-64	1-1-65	525	4	492	- 73	4	13,210	107,526	8,140	1	865	113,227	105.3	5,70
Discovery	7-1-64	1350	4	627	-723	4	854,851	1,950,658	2,282	1	882	1,691,353	86.7	259,30
Discovery	1-1-65	1350	4	639	-711	4	868,061	2,058,184	2,371	1	872	1,804,580	87.7	253,60
								MCA UNIT NO. 16						
1-1-63	7-1-63	518	4	443	- 75	5	7,856	38,380	4,885	1	1,050	39,427	102.7	1,04
7-1-63	1-1-64	443	5	494	+ 51	5	7,553	23,009	3,046	1	1,077	44,950	195.4	21,94
1-1-64	7-1-64	445	5	553	+110	5	6,858	28,195	4,111	1	1,050	53,828	190.9	25,63
7-1-64	1-1-65	553	5	513	- 40	5	7,530	33,615	4,464	1	-	62,584	186.2	28,96
Discovery	7-1-64	1350	5	628	-722	5	529,001	902,516	1,706	1	1,050	1,085,083	120.2	182,56
Discovery	1-1-65	1350	5	518	-832	5	536,531	936,131	1,745	1	1,077	1,147,667	122.6	211,53
								MCA UNIT NO. 96						
1-1-63	7-1-63	603	4	610	+ 7	4	17,686	84,837	4,797	1	723	77,553	91.4	7,28
7-1-63	1-1-64	610	4	577	- 33	4	15,919	113,545	7,133	1	679	46,667	41.1	66,87
1-1-64	7-1-64	610	4	549	- 61	4	12,572	82,190	6,538	1	723	55,890	68.0	26,30
7-1-64	1-1-65	549	4	577	+ 28	4	11,843	79,254	6,692	1	776	39,855	50.3	39,39
Discovery	7-1-64	1350	4	542	-808	4	1,052,011	2,235,196	2,125	1	723	2,078,186	93.0	157,01
Discovery	1-1-65	1350	4	603	-747	4	1,063,854	2,314,450	2,176	1	679	2,118,041	91.5	196,40

From	To	From	No. Wells	To	Loss/ Gain	No. Wells	Oil (Barrels)	Gas (M.C.F.)	CF/B Ratio	No. Wells	Datum Plane Pressure	Gas Retd. (M.C.F.)	Gas Retd. to Prod.	Net Gas Produced (M.C.F.)
								MCA UNIT NO. 78						
1-1-63	7-1-63	315	4	624	+309	5	5,100	51,261	10,051	1	-	62,207	121.4	(10,9
7-1-63	1-1-64	624	4	625	+ 1	5	4,761	55,536	11,665	1	896	37,622	67.7	17,91
1-1-64	7-1-64	624	4	576	- 48	5	4,436	60,949	13,740	1	-	37,882	62.2	23,06
7-1-64	1-1-65	576	4	288	-288	5	3,221	44,238	13,734	1	848	41,893	94.7	2,34
Discovery	7-1-64	1350	5	267	-1083	5	353,208	1,618,609	4,583	1	-	689,269	42.6	929,34
Discovery	1-1-65	1350	4	315	-1035	5	356,429	1,662,847	4,665	1	896	731,162	44.0	931,68
								MCA UNIT NO. 82						
1-1-63	7-1-63	346	4	339	- 7	5	7,351	65,895	8,964	1	894	56,743	86.1	9,15
7-1-63	1-1-64	339	4	322	- 17	5	6,873	73,992	10,766	1	921	73,206	98.9	78
1-1-64	7-1-64	339	4	419	+ 80	5	6,364	62,939	9,890	1	894	74,784	118.8	(11,84
7-1-64	1-1-65	419	4	362	- 57	5	5,266	58,844	11,174	1	920	66,766	113.5	(7,92
Discovery	7-1-64	1350	4	426	-924	5	431,880	1,719,772	3,982	1	894	785,819	45.7	933,95
Discovery	1-1-65	1350	4	346	-1004	5	437,146	1,778,616	4,069	1	921	852,585	47.9	926,03
								MCA UNIT NO. 113						
1-1-63	7-1-63	570	4	541	- 29	4	18,453	156,192	8,464	1	715	97,138	62.2	59,05
7-1-63	1-1-64	541	4	520	- 21	4	48,444	157,905	3,260	1	715	55,490	35.1	102,41
1-1-64	7-1-64	541	4	501	- 40	4	14,781	88,621	5,996	1	715	-	0.0	88,62
7-1-64	1-1-65	501	4	451	- 50	4	18,696	109,575	5,861	1	-	-	-	109,57
Discovery	7-1-64	1350	4	530	-820	4	1,252,967	2,512,345	2,005	1	715	1,986,008	79.0	526,33
Discovery	1-1-65	1350	4	570	-780	4	1,271,663	2,621,920	2,062	1	715	1,986,008	75.7	635,91
								MCA UNIT NO. 177						
1-1-63	7-1-63	958	4	703	-255	4	29,723	101,104	3,402	1	809	45,874	45.4	55,23
7-1-63	1-1-64	703	4	501	-202	4	33,056	101,926	3,083	1	915	59,223	58.1	42,70
1-1-64	7-1-64	703	4	597	-106	4	27,925	62,842	2,250	1	809	59,946	95.4	2,89
7-1-64	1-1-65	597	4	789	+192	4	32,837	71,224	2,169	1	783	54,222	76.1	17,00
Discovery	7-1-64	1350	4	852	-498	4	1,162,982	2,181,041	1,875	1	809	1,474,378	67.6	706,66
Discovery	1-1-65	1350	4	958	-392	4	1,195,819	2,252,265	1,883	1	915	1,528,600	67.9	723,66
								MCA UNIT NO. 182						
1-1-63	7-1-63	757	4	721	- 36	4	22,674	92,680	4,088	1	1,027	45,989	49.6	46,69
7-1-63	1-1-64	721	4	711	- 10	4	24,764	90,266	3,645	1	1,061	46,201	51.2	44,06
1-1-64	7-1-64	721	4	731	+ 10	4	29,469	105,280	3,573	1	1,027	58,013	55.1	47,26
7-1-64	1-1-65	731	4	668	- 63	4	31,891	114,762	3,599	1	1,041	48,998	42.7	65,76
Discovery	7-1-64	1350	4	767	-583	4	1,202,790	2,063,383	1,715	1	1,027	1,430,786	69.3	632,59
Discovery	1-1-65	1350	4	757	-593	4	1,234,681	2,178,145	1,764	1	1,061	1,479,784	67.9	698,36

From	To	From	No. Wells	To	Loss/ Gain	No. Wells	Oil (Barrels)	Gas (M.C.F.)	CF/B Ratio	No. Wells	Datum Plane Pressure	Gas Retd. (M.C.F.)	Retd. to Prod.	Net Gas Produced (M.C.F.)
								MCA UNIT NO. 204						
1-1-63	7-1-63	752	6	716	- 36	7	26,821	110,690	4,127	1	745	55,100	49.8	55,59
7-1-63	1-1-64	716	7	685	- 31	7	26,871	87,465	3,255	1	852	48,813	55.8	38,65
1-1-64	7-1-64	716	7	736	+ 20	7	27,317	127,567	4,670	1	745	71,593	56.1	55,97
7-1-64	1-1-65	736	7	516	-220	7	31,217	147,510	4,725	1	759	60,019	40.7	87,49
Discovery	7-1-64	1350	7	772	-578	7	1,168,397	2,302,193	1,970	1	745	1,717,731	74.6	584,46
Discovery	1-1-65	1350	7	752	-598	7	1,199,614	2,449,703	2,042	1	852	1,777,750	72.6	671,95
								MCA UNIT NO. 225						
1-1-63	7-1-63	486	4	465	- 21	4	16,509	67,667	4,099	1	824	33,896	50.1	33,77
7-1-63	1-1-64	465	4	502	+ 37	4	15,252	67,295	4,412	1	885	37,160	55.2	30,13
1-1-64	7-1-64	465	4	434	- 31	4	13,296	60,905	4,581	1	824	37,435	61.4	23,47
7-1-64	1-1-64	434	4	476	+ 42	4	12,247	65,676	5,363	1	832	51,471	78.4	14,20
Discovery	7-1-64	1350	4	455	-895	4	954,445	2,068,221	2,167	1	824	1,280,614	61.9	787,60
Discovery	1-1-65	1350	4	486	-864	4	966,692	2,133,897	2,207	1	885	1,332,085	62.4	801,81
								MCA UNIT NO. 222						
1-1-63	7-1-63	357	5	342	- 15	5	11,615	32,964	2,838	1	1,187	3,974	12.1	28,99
7-1-63	1-1-64	342	5	332	- 10	5	11,075	39,000	3,521	1	991	1,875	4.8	37,12
1-1-64	7-1-64	342	5	317	- 17	5	9,067	41,635	4,592	1	1,187	427	1.0	41,20
7-1-64	1-1-65	317	5	361	+ 44	5	10,151	27,905	2,749	1	1,070	1,990	7.1	25,91
Discovery	7-1-64	1350	5	340	-1010	5	761,794	1,733,379	2,275	1	1,187	1,178,352	68.0	555,02
Discovery	1-1-65	1350	5	357	-993	5	771,945	1,761,284	2,282	1	991	1,180,342	67.0	580,94
								MCA UNIT NO. 174						
1-1-63	7-1-63	666	4	652	- 14	4	17,882	102,649	5,740	1	911	86,265	84.0	16,38
7-1-63	1-1-64	652	4	601	- 51	4	15,789	110,611	7,006	1	925	102,634	92.8	7,97
1-1-64	7-1-64	652	4	600	- 52	4	12,635	79,059	6,257	1	911	97,950	123.8	18,89
7-1-64	1-1-65	600	4	652	+ 52	4	14,584	79,015	5,418	1	886	107,888	136.5	28,87
Discovery	7-1-64	1350	4	614	-736	4	968,662	2,172,835	2,243	1	911	2,295,116	105.6	122,28
Discovery	1-1-65	1350	4	666	-684	4	983,246	2,251,850	2,290	1	925	2,403,004	106.7	151,15
								MCA UNIT NO. 148						
1-1-63	7-1-63	689	5	669	- 20	6	34,530	161,948	4,690	1	1,060	40,648	25.1	121,30
7-1-63	1-1-64	669	5	494	-175	6	34,993	160,943	4,599	1	932	50,771	31.5	110,17
1-1-64	7-1-64	669	5	648	- 21	6	34,593	152,987	4,422	1	1,060	24,020	15.7	128,96
7-1-64	1-1-65	648	5	588	- 60	6	33,383	150,408	4,506	1	862	20,494	13.6	129,91
Discovery	7-1-64	1350	5	768	-582	6	1,307,619	2,897,311	2,216	1	1,060	1,604,097	55.3	1,292,94
Discovery	1-1-65	1350	5	789	-561	6	1,341,002	3,047,719	2,273	1	932	1,624,591	53.3	1,423,12

From	To	From	No. Wells	To	Loss/ Gain	No. Wells	Oil (Barrels)	Gas (M.C.F.)	CF/B Ratio	No. Wells	Datum Plane Pressure	Gas Retd. (M.C.F.)	% Gas Retd. to Prod.	Net Gas Produced (M.C.F.)
								MCA UNIT NO. 144						
1-1-63	7-1-63	569	4	600	+ 31	5	9,903	28,890	2,917	1	952	24,897	86.2	3,99
7-1-63	1-1-64	600	4	561	- 39	5	9,523	126,732	13,308	1	934	27,031	21.3	99,7
1-1-64	7-1-64	617	4	539	- 78	5	8,390	144,647	17,240	1	952	52,442	36.2	92,2
7-1-64	1-1-64	539	4	518	- 21	5	8,721	56,257	6,451	1	934	19,516	34.7	36,7
Discovery	7-1-64	1350	4	491	-859	5	788,160	1,739,840	2,207	1	952	1,281,499	73.6	458,3
Discovery	1-1-65	1350	4	569	-781	5	796,881	1,796,097	2,254	1	952	1,301,015	72.4	495,0
								MCA UNIT NO. 116						
1-1-63	7-1-63	660	4	667	+ 7	4	19,170	166,095	8,664	1	808	86,548	52.1	79,5
7-1-63	1-1-64	667	4	598	- 69	4	18,548	158,037	8,520	1	769	45,977	29.1	112,0
1-1-64	7-1-64	667	4	508	-159	4	18,548	122,963	6.629	1	808	-	-	122,9
7-1-64	1-1-65	508	4	538	+ 30	4	22,821	119,360	5,230	1	769	-	-	119,3
Discovery	7-1-64	1350	4	501	-849	4	992,294	2,627,847	2,648	1	808	2,056,366	78.2	571,4
Discovery	1-1-65	1350	4	660	-690	4	1,015,115	2,747,207	2,705	1	769	2,056,366	74.9	810,2
								MCA UNIT NO. 193						
1-1-63	7-1-63	625	6	642	+ 17	7	12,439	57,538	4,626	1	779	56,726	98.6	8
7-1-63	1-1-64	642	6	523	-119	7	9,021	78,454	8,707	1	598	36,214	46.2	42,2
1-1-64	7-1-64	642	6	729	+ 87	7	12,839	76,039	5,923	1	779	23,553	30.9	52,4
7-1-64	1-1-65	729	6	732	+ 3	7	13,942	36,022	2,584	1	598	37,800	104.9	(1,7
Discovery	7-1-64	1350	6	712	-638	7	923,851	1,897,886	2,054	1	779	1,089,407	57.4	808,4
Discovery	1-1-65	1350	6	625	-725	7	937,793	1,933,908	2,062	1	598	1,127,207	58.3	806,7
								MCA UNIT NO. 128						
1-1-63	7-1-63	605	5	474	-131	6	9,294	60,692	6,530	1	973	41,977	69.2	18,7
7-1-63	1-1-64	474	5	503	+ 29	6	7,274	28,357	3,898	1	949	50,123	176.8	(21,7
1-1-64	7-1-64	474	5	574	+100	6	9,771	33,086	3,386	1	973	48,735	147.2	(15,6
7-1-64	1-1-64	574	5	616	+ 42	6	9,896	36,421	3,680	1	949	12,474	34.2	23,9
Discovery	7-1-64	1350	5	705	-645	6	817,382	1,663,312	2,035	1	973	1,141,141	68.6	522,1
Discovery	1-1-65	1350	5	605	-745	6	827,278	1,699,733	2,055	1	949	1,153,615	67.9	546,1
								MCA UNIT NO. 130						
1-1-63	7-1-63	432	4	422	- 10	5	6,558	20,152	3,073	1	1,010	23,654	117.4	(3,5
7-1-63	1-1-64	422	4	465	+ 43	5	5,543	20,755	3,744	1	1,008	38,124	183.7	(17,3
1-1-64	7-1-64	422	4	536	+114	5	7,967	25,688	3,224	1	1,010	52,764	205.4	(27,0
7-1-64	1-1-65	536	4	591	+ 55	5	8,862	32,399	3,656	1	1,008	40,304	124.4	(7,9
Discovery	7-1-64	1350	4	546	-804	5	658,485	1,423,420	2,162	1	1,010	844,329	59.3	579,0
Discovery	1-1-65	1350	4	432	-918	5	667,347	1,455,819	2,182	1	1,008	884,633	60.8	571,1

MALJAMAR COOPERATIVE AGREEMENT

HOBBS, NEW MEXICO

ANNUAL REPORT

YEAR 1975

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MCA UNIT
CUMULATIVE OIL, WATER & GAS PRODUCTION
YEAR, 1975

COMPANY, LEASE & WELL NO.	CUM. TO 1-1-75	OIL PRODUCTION JAN/ JULY	FEB/ AUG.	MAR/ SEPT	APR/ OCT.	MAY/ NOV.	JUNE /DEC	12 MO. TOTAL	CUM TO 1-1-76	WATER PRODUCTION 12 MO. PROD BBLS	% WTR PROD	CUM TO 1-1-76	GAS PRODUCTION - MCF 12 MO VOLUME	CUM TO 1-1-76	12 MO AVG RATIO
CONTINENTAL OIL COMPANY															
MCA UNIT															
1 1	27313.							0.	27313.			520.		207035.	
1 2	118412.	34 42	79 27	35 79	36 79	29 0	35 0	475.	118887.	7319.	93.90	69632.	0.	248815.	0.
1 3	36841.							0.	36841.			843.		60240.	
1 4	39870.	69 42	35 63	35 79	37 80	29 36	69 28	602.	40472.	2503.	80.61	41515.	0.	27802.	0.
1 5	135966.	447 460	297 286	522 236	509 239	409 378	453 340	4576.	140542.	20783.	81.95	79215.	0.	268604.	0.
1 6	30468.							0.	30468.			0.		53906.	
1 7	24318.							0.	24318.			766.		23449.	
1 8	35974.	69 42	42 160	69 79	73 80	59 35	35 199	942.	36916.	7529.	88.87	52561.	0.	45175.	0.
1 9	121222.	0 0	0 0	0 0	0 0	0 0	0 0	0.	121222.	0.	0.00	61714.	0.	329736.	0.
1 10	263142.							0.	263142.			2278.		584724.	
1 11	252241.	1530 2241	1673 2258	1846 2508	1986 2674	1980 2283	2192 2582	25753.	277994.	1876.	6.78	12673.	1515.	384821.	58.
1 12	61882.							0.	61882.			81.		198376.	
1 13	75645.	0 488	911 247	454 248	331 249	220 103	512 190	3953.	79598.	12151.	75.45	76758.	1718.	47153.	434.
1 14	814.	0 0	0 0	0 0	0 0	0 0	0 0	0.	814.	0.	0.00	4060.	0.	729.	0.

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1	15	165075.							0.	165075.			3172.		207252.	
1	16	84206.	127 0	116 0	130 0	0 0	0 0	0 0	373.	84579.	2052.84.61		29161.	1960.	413399.	5254.
1	17	134121.	315 1018	289 526	423 537	537 525	339 524	741 717	6491.	140612.	8748.57.40		35240.	1429.	199177.	220.
1	18	138341.							0.	138341.			1246.		224025.	
1	19	118592.	1042 535	1070 527	1204 537	626 1677	585 623	537 742	9705.	128297.	3711.27.66		12429.	1437.	224209.	148.
1	20	98805.							0.	98805.			922.		334536.	
1	21	114552.	0 2663	0 3159	0 2405	0 1804	0 1548	0 1817	13396.	127948.	10350.43.58		60190.	1003.	828180.	74.
1	22	307120.							0.	307120.			236.		344236.	
1	23	808295.	2745 1808	2400 1666	2798 1218	2444 2053	2283 1147	1713 1383	23658.	831953.	33462.58.58		116275.	1452.	516643.	61.
1	24	338859.							0.	338859.			214.		419111.	
1	25	377507.	164 254	173 251	453 179	477 150	445 249	239 256	3290.	380797.	20384.86.10		143070.	21162.	541368.	6432.
1	26	178786.							0.	178786.			1776.		244439.	
1	27	920984.	648 1178	687 1052	1079 1176	1076 902	1018 1049	946 853	11664.	932648.	65671.84.91		404550.	2200.	727583.	188.
1	28	587620.							0.	587620.			490.		758497.	
1	29	388168.	0 0	0 0	0 0	0 0	0 0	0 0	0.	388168.	0.	0.00	132735.	0.	558657.	0.
1	30	361310.							0.	361310.			40075.		325670.	

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1	31	68782.							0.	68782.			1601.		180694.	
1	32	62347.	106	698	1080	857	906	560								
			512	532	535	563	431	500	7280.	69627.	19837.	73.15	80281.	16865.	92818.	2316.
1	33	74185.	107	155	158	107	166	168								
			205	236	238	141	96	100	1877.	76062.	10107.	84.33	29644.	3224.	217873.	1717.
1	34	54132.							0.	54132.			0.		131423.	
1	35	253567.	571	363	395	375	388	476								
			558	650	653	536	430	450	5845.	259412.	142697.	96.06	369068.	246.	483675.	42.
1	36	96225.							0.	96225.			0.		471387.	
1	37	160020.	860	854	880	869	951	966								
			1077	1074	1014	1020	976	1084	11625.	171645.	155.	1.31	7662.	4976.	176027.	428.
1	38	10789.	642	577	52	51	109	107								
			138	138	110	83	79	81	2167.	12956.	69680.	96.98	432100.	4973.	11791.	2294.
1	39	106678.							0.	106678.			60.		615343.	
1	40	224583.	866	639	739	717	605	548								
			632	804	433	435	432	374	7224.	231807.	43592.	85.78	347576.	1302.	421624.	180.
1	41	4348.	0	0	0	0	0	0								
			0	0	0	0	0	0	0.	4348.	0.	0.00	15147.	0.	10147.	0.
1	42	476046.							0.	476046.			11823.		622710.	
1	43	267145.	808	492	568	634	715	712								
			746	805	866	870	771	778	8765.	275910.	1879.	17.65	71355.	1442.	213603.	164.
1	44	131783.	2453	2387	2470	2455	2255	2630								
			2843	3155	3405	3763	3085	3203	34104.	165887.	8018.	19.03	29337.	1706.	38751.	50.
1	45	205799.							0.	205799.			5333.		692591.	

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1 46	381472.	1212	936	1079	855	743	493								
		431	464	403	622	617	591	8446.	389918.	105852.	92.61	298024.	13767.	673826.	1630.
1 47	164720.	635	443	511	497	495	329								
		574	619	805	622	617	466	6613.	171333.	102753.	93.95	322287.	32924.	280070.	4978.
1 48	332105.							0.	332105.			2285.		616939.	
1 49	1067802.	3345	2024	2179	1997	1336	1228								
		1146	1129	1024	843	873	896	18020.	1085822.	63473.	77.88	243161.	1524.	899224.	84.
1 50	273633.							0.	273633.			304.		320603.	
1 51	715052.	726	752	781	1103	640	486								
		840	827	461	451	300	307	7674.	722726.	18913.	71.13	158679.	1437.	1029331.	187.
1 52	295648.							0.	295648.			65.		575391.	
1 53	317861.	18	387	481	119	101	434								
		433	251	281	300	299	307	3411.	321272.	17620.	83.78	180441.	51685.	702520.	15152.
1 54	143306.							0.	143306.			749.		601765.	
1 55	358534.	1041	665	748	775	724	665								
		713	702	1484	1453	1272	1305	11547.	370081.	9657.	45.54	66533.	1469.	280086.	127.
1 56	282217.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	282217.	0.	0.00	26517.	0.	768263.	0.
1 57	552198.	2492	1966	2212	1908	1782	1637								
		1706	2106	2559	2378	1721	1766	24233.	576431.	23244.	48.95	87073.	71747.	648527.	2960.
1 58	203931.	1325	925	2114	1937	1197	1100								
		1095	1730	1126	1102	1421	1459	16531.	220462.	109775.	86.91	372227.	1464.	179479.	88.
1 59	298297.							0.	298297.			3840.		620767.	
1 60	971801.	1801	1638	1856	1818	417	2769								
		2692	2834	2892	2556	1923	2431	25627.	997428.	60477.	70.23	310799.	1344.	1351910.	52.

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1 76	177644.							0.	177644.			221.		537872.	
1 77	50619.	171 176	310 294	211 296	134 225	221 382	336 400	3156.	53775.	1588.	33.47	11659.	2008.	309602.	636.
1 78	45395.							0.	45395.			0.		456631.	
1 79	171996.	107 59	104 59	119 59	54 56	55 43	56 50	821.	172817.	125.	13.21	45713.	83225.	830659.	101370.
1 80	49336.							0.	49336.			0.		210638.	
1 81	148887.	428 500	855 503	711 623	519 507	719 474	531 550	6920.	155807.	10646.	60.60	37463.	2203.	632835.	318.
1 82	88200.							0.	88200.			0.		206640.	
1 83	120988.	1141 1934	1450 2011	1291 1424	1636 1352	1522 560	1288 651	16260.	137248.	553.	3.28	3177.	2104.	724128.	129.
1 84	249241.							0.	249241.			0.		225340.	
1 85	281848.	1833 2072	1794 1680	1786 1588	1841 1434	1894 1140	1797 1069	19928.	301776.	120850.	85.84	316537.	4796.	588862.	240.
1 86	84532.	833 718	865 1074	1041 1096	971 966	1088 713	698 841	10904.	95436.	90942.	89.29	259960.	4866.	64264.	446.
1 87	271356.							0.	271356.			101.		764821.	
1 88	522927.	1143 1242	897 1350	1087 1287	1201 1296	1250 1003	1234 1166	14156.	537083.	38541.	73.13	179713.	4969.	863099.	351.
1 89	98941.	980 1016	1071 1073	1061 822	1381 689	1184 580	1127 524	11508.	110449.	97594.	89.45	292689.	4854.	111629.	421.
1 90	269843.							0.	269843.			0.		692841.	
1 91	332136.	0 0	0 0	0 0	0 0	0 0	0 0	0.	332136.	0.	0.00	42450.	0.	966424.	0.

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1 92	566496.	837	763	965	855	797	602								
		574	866	743	746	834	591	9173.	575669.	27001.	74.64	130932.	4400.	840014.	479.
1 93	417134.	328	394	455	397	715	603								
		574	619	403	591	524	746	6349.	423483.	9012.	58.66	125082.	8032.	652861.	1265.
1 94	321371.							0.	321371.			10166.		828652.	
1 95	507621.	253	231	304	298	396	204								
		433	426	435	351	90	287	3708.	511329.	54906.	93.67	364494.	24604.	800640.	6635.
1 96	233506.	4418	4048	4470	4232	3814	3351								
		3335	3285	3352	3080	2760	3283	43428.	276934.	10959.	20.15	63365.	1326.	63599.	30.
1 97	286699.							0.	286699.			90.		465260.	
1 98	584731.	3597	3354	3611	3368	2979	2353								
		2190	2157	2127	2153	1644	1305	30838.	615569.	55782.	64.39	272195.	15073.	712411.	488.
1 99	34173.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	34173.	0.	0.00	68948.	0.	58323.	0.
1 100	335823.							0.	335823.			2656.		726824.	
1 101	501659.	1966	1996	1968	2653	2533	3222								
		2953	2909	2968	3381	2769	3046	32364.	534023.	29273.	47.49	135557.	1334.	924842.	41.
1 102	257201.							0.	257201.			389.		1073223.	
1 103	524309.	2367	2168	2439	2235	2088	3632								
		3488	3611	3685	3606	4413	4530	38262.	562571.	55265.	59.08	144085.	1489.	562052.	38.
1 104	278526.							0.	278526.			483.		295991.	
1 105	634722.	6879	6304	4382	3863	4900	4501								
		4481	4413	4504	6585	6558	3225	60595.	695317.	91985.	60.28	231067.	1487.	340039.	24.
1 106	143424.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	143424.	0.	0.00	294821.	0.	139402.	0.

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1 107	337305.							0.	337305.			62.		299562.	
1 108	502637.	1350 1834	1475 1931	2114 2073	1937 1502	2144 1446	1641 1203	20650.	523287.	34539.	62.58	150323.	1411.	354085.	68.
1 109	336198.							0.	336198.			62.		329443.	
1 110	439339.	1443 650	1231 1609	1647 1425	1544 1586	1347 1635	1342 1399	16858.	456197.	78612.	82.34	345330.	3824.	335593.	226.
1 111	260384.							0.	260384.			0.		249711.	
1 112	650619.	865 804	738 556	880 558	689 560	743 863	740 870	8866.	659485.	29045.	76.61	440033.	10494.	580780.	1183.
1 113	0.							0.	0.			0.		0.	
1 114	521101.	1177 1034	1230 866	1079 991	1020 840	880 926	822 746	11611.	532712.	11824.	50.45	149207.	2440.	718549.	210.
1 115	501416.	433 345	344 279	454 495	386 559	550 432	329 560	5166.	506582.	6616.	56.15	57694.	5924.	737363.	1146.
1 116	0.							0.	0.			0.		0.	
1 117	600649.	3896 5371	3395 2853	2725 3777	2649 3794	4675 3764	4713 3794	45406.	646055.	11942.	20.82	69175.	9458.	924841.	208.
1 118	518880.	2714 2913	2135 2974	2276 2849	2581 2730	2582 3008	2657 2982	32401.	551281.	13716.	29.74	70270.	5158.	1198942.	159.
1 119	474025.							0.	474025.			737.		1170078.	
1 120	444359.	2309 2458	1964 2478	2639 2356	2710 2372	3017 1557	3006 624	27490.	471849.	50960.	64.95	184341.	4998.	543890.	181.
1 121	168987.							0.	168987.			60.		329395.	
1 122	403780.	905 718	769 496	957 439	741 414	734 264	698 271	7406.	411186.	28589.	79.42	164115.	4973.	624012.	671.

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1 123	137911.							0.	137911.			168.		607980.	
1 124	105120.	373 558	208 739	383 742	402 704	139 598	140 125	5111.	110231.	747.	12.75	1347.	731.	269418.	143.
1 125	150805.							0.	150805.			0.		167048.	
1 126	102636.	641 706	337 562	342 623	482 553	609 468	392 252	5967.	108603.	384.	6.04	1188.	4077.	32618.	683.
1 127	143826.							0.	143826.			109.		532543.	
1 128	53617.	285 284	544 296	553 213	563 507	277 358	280 335	4495.	58112.	7309.	61.91	25658.	3417.	49565.	760.
1 129	165490.	0 0	0 0	0 0	0 0	0 0	0 0	0.	165490.	0.	0.00	34917.	0.	429381.	0.
1 130	34405.	2225 910	1140 946	1306 950	1420 901	1467 765	895 671	13596.	48001.	8927.	39.63	15110.	28719.	223188.	2112.
1 131	119332.							0.	119332.			24.		630729.	
1 132	220751.	285 353	259 355	214 356	311 338	332 215	335 301	3654.	224405.	18336.	83.38	72036.	1752.	234983.	479.
1 133	150246.							0.	150246.			170.		628079.	
1 134	62837.	0 500	0 296	421 297	441 281	471 239	475 272	3693.	66530.	11565.	75.79	17614.	370.	394497.	100.
1 135	66774.							0.	66774.			1684.		248590.	
1 136	209889.	1569 646	1319 1212	1633 891	1233 709	1328 746	615 975	12876.	222765.	11608.	47.41	157664.	4193.	382249.	325.
1 137	202926.							0.	202926.			7644.		305890.	
1 138	359789.	1626 1235	1528 1124	1765 1038	1287 927	1163 574	1175 504	13946.	373735.	4833.	25.73	16825.	3492.	453996.	250.

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1 139	233002.							0.	233002.			330.		299287.	
1 140	224414.	513	570	501	643	664	672								
		706	592	593	676	430	450	7010.	231424.	3264.	31.76	19438.	2564.	535075.	365.
1 141	188546.							0.	188546.			206.		233535.	
1 142	147213.	343	155	158	402	289	336								
		499	502	504	760	645	500	5093.	152306.	133.	2.54	24094.	7920.	218033.	1555.
1 143	183571.							0.	183571.			0.		156906.	
1 144	46680.							0.	46680.			0.		81129.	
1 145	200885.							0.	200885.			703.		285824.	
1 146	576390.	2785	3395	4115	4063	4322	4267								
		3967	4378	4355	4054	4063	4474	48238.	624628.	27670.	36.45	150329.	4865.	672977.	100.
1 147	309010.							0.	309010.			12362.		674076.	
1 148	247372.	1559	1196	1450	1329	1413	1395								
		1343	1432	1425	1572	1504	1545	17163.	264535.	20367.	54.26	52095.	4993.	128205.	290.
1 149	398842.	1381	897	1113	895	1495	1476								
		1471	1514	1506	1517	1636	1681	16582.	415424.	42743.	72.04	82663.	173306.	979227.	10451.
1 150	297840.							0.	297840.			0.		610391.	
1 151	723326.	2078	1969	2471	2593	2612	2192								
		3073	3371	3096	3887	3764	3981	35087.	758413.	9723.	21.69	36240.	15431.	935553.	439.
1 152	672709.	283	0	0	0	0	0								
		0	0	0	0	0	0	283.	672992.	354.	55.57	48104.	650.	1005057.	2296.
1 153	393406.	923	910	851	718	825	795								
		862	927	836	933	864	840	10284.	403690.	22584.	68.71	98284.	5614.	778859.	545.
1 154	310072.							0.	310072.			186.		321134.	

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1 155	437116.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	437116.	0.	0.00	41092.	0.	242019.	0.
1 156	43103.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	43103.	0.	0.00	166415.	0.	14969.	0.
1 157	289799.							0.	289799.			0.		187136.	
1 158	395367.	1285	606	909	911	825	877								
		919	804	1146	1026	1388	1275	11971.	407338.	40680.	77.26	127532.	1813.	509449.	151.
1 159	255103.							0.	255103.			163.		294477.	
1 160	501959.	3029	2776	5627	5156	4351	4424								
		4405	4338	2508	2204	1870	1459	42147.	544106.	79530.	65.36	208502.	1434.	412307.	34.
1 161	55202.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	55202.	0.	0.00	124117.	0.	59541.	0.
1 162	212215.							0.	212215.			522.		303342.	
1 163	318076.	1483	1330	1463	1342	1754	1611								
		1604	1781	1612	1302	1172	1203	17657.	335733.	5494.	23.73	33973.	1437.	270876.	81.
1 164	189569.							0.	189569.			4216.		155697.	
1 165	242032.	2240	1966	1919	1524	1448	1432								
		2012	1780	1715	1402	1246	1407	20091.	262123.	19062.	48.68	42209.	1437.	287109.	71.
1 166	192908.							0.	192908.			7956.		275394.	
1 167	323125.	3092	2458	2212	2266	2311	2225								
		2266	2232	1765	1728	2019	1996	26570.	349695.	14283.	34.96	78373.	1422.	285723.	53.
1 168	124551.	1703	1591	1464	1252	1531	1176								
		1171	1153	998	752	698	717	14206.	138757.	34010.	70.53	197485.	1442.	57636.	101.
1 169	228183.							0.	228183.			4114.		226815.	

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1 170	569708.	4300 3705	3273 3804	3411 3127	3889 2955	3273 2684	3261 2647	40329.	610037.	43915.	52.12	146634.	3863.	603810.	95.
1 171	285913.							0.	285913.			321.		319696.	
1 172	291735.	2453 1752	1969 1856	2186 1578	1820 1773	1898 1759	1809 1835	22688.	314423.	8851.	28.06	74250.	2672.	190955.	117.
1 173	348714.	1587 1222	1329 1361	1477 1331	1242 1337	1238 1172	1206 1492	15994.	364708.	6372.	28.48	45593.	2513.	256881.	157.
1 174	131286.	1934 1780	1649 1918	1704 1919	965 2115	1595 1851	1644 1835	20909.	152195.	12713.	37.81	90502.	13921.	57728.	665.
1 175	307672.							0.	307672.			10720.		610576.	
1 176	489082.	2805 2379	2691 2111	3261 1643	3221 1848	1957 1532	1932 1844	27224.	516306.	3039.	10.04	11223.	8850.	620257.	325.
1 177	103427.	2904 2706	2605 2698	3157 2821	2402 3034	2610 2903	2469 3200	33509.	136936.	27495.	45.07	185427.	17615.	58246.	525.
1 178	315721.							0.	315721.			921.		584180.	
1 179	578208.	3028 4253	2904 1247	3520 1205	3501 1490	4186 1425	4911 1736	33406.	611614.	10085.	23.18	25162.	6872.	427064.	205.
1 180	367465.							0.	367465.			320.		1133479.	
1 181	490822.	5055 5136	4591 4874	5564 4040	5495 5735	5491 4935	4991 4253	60160.	550982.	476.	0.78	5327.	4861.	932498.	80.
1 182	31064.	143 139	128 137	155 137	205 149	163 158	108 137	1759.	32823.	13630.	88.56	67133.	4838.	87624.	2750.
1 183	336126.	1738 1795	1495 1790	1578 1780	1661 1461	1767 1398	1744 1437	19644.	355770.	8184.	29.40	20484.	4875.	1262477.	248.
1 184	340506.							0.	340506.			0.		768133.	

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1 185	309613.	3523 3424	3096 3414	3287 3040	3195 2786	3371 2665	3328 2738	37867.	347480.	15828.	29.47	26431.	4982.	620379.	131.
1 186	543237.	4213 3866	3288 3937	3313 3725	2403 2864	3180 3034	3515 4583	41921.	585158.	711.	1.66	4584.	5000.	1545709.	119.
1 187	282064.							0.	282064.			0.		258551.	
1 188	193426.	599 455	544 591	595 505	402 704	553 598	756 400	6702.	200128.	134.	1.96	5918.	313.	70001.	46.
1 189	211325.							0.	211325.			14357.		271228.	
1 190	245537.							0.	245537.			54309.		363539.	
1 191	131385.	1227 1081	875 1005	1370 1069	1394 1070	1301 694	1063 775	12924.	144309.	1677.	11.48	5114.	2210.	301303.	170.
1 192	276058.	1512 1821	980 1508	1307 1306	1231 1690	1771 1205	1791 1133	17255.	293313.	2355.	12.00	30969.	6729.	485042.	389.
1 193	32039.	0 4291	0 6446	770 3988	5227 4197	5397 5189	5457 3314	44276.	76315.	29098.	39.65	29098.	283.	43426.	6.
1 194	255291.							0.	255291.			16960.		514250.	
1 195	48384.	0 0	0 0	0 0	0 0	0 0	0 0	0.	48384.	0.	0.00	36542.	0.	181417.	0.
1 196	433857.	400 823	673 858	685 771	386 760	554 645	671 675	7901.	441758.	12089.	60.47	137841.	1525.	424913.	193.
1 197	24315.							0.	24315.			0.		33397.	
1 198	264242.							0.	264242.			35125.		226633.	
1 199	321770.	656 412	570 46	580 60	750 57	665 502	560 525	5383.	327153.	19624.	78.47	89370.	3031.	305687.	563.

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1 200	37309.							0.	37309.			0.		32043.	
1 201	223776.	1361 1234	1321 1242	2661 1246	1340 1183	1439 1442	1091 826	16386.	240162.	15889.	49.23	64293.	3784.	191742.	230.
1 202	315197.	215 705	699 739	1370 742	509 367	0 598	700 625	7269.	322466.	16845.	69.85	24989.	1957.	106169.	269.
1 203	248657.							0.	248657.			0.		385320.	
1 204	58880.	802 524	726 523	854 547	715 717	435 686	510 488	7527.	66407.	6883.	47.76	25624.	27945.	144233.	3712.
1 205	331217.							0.	331217.			614.		478054.	
1 206	497932.	3428 2982	2861 3277	3468 2876	3041 2896	3397 3800	3166 3308	38500.	536432.	1186.	2.98	2868.	4925.	729512.	127.
1 207	318597.							0.	318597.			0.		405560.	
1 208	213732.							0.	213732.			321.		541936.	
1 209	265253.							0.	265253.			0.		271734.	
1 210	687742.	4047 2432	3630 2182	4762 2410	4192 2123	5083. 2032	4106 2047	39046.	726788.	7669.	16.41	175044.	4852.	512983.	124.
1 211	295071.							0.	295071.			452.		369295.	
1 212	101222.	2771 1407	2363 1515	1391 1517	1379 1523	1485 1296	1397 1306	19350.	120572.	2317.	10.69	55815.	32764.	74811.	1693.
1 213	184363.							0.	184363.			5020.		270304.	
1 214	221799.	924 1149	754 1175	937 929	910 1151	907 1265	1534 1275	12910.	234709.	14762.	53.34	101951.	1468.	132117.	113.
1 215	66137.							0.	66137.			6168.		69075.	

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1 216	174265.	1610	1764	1821	1878	2255	2174								
		1909	1730	1433	1427	997	958	19956.	194221.	800.	3.85	22461.	63774.	361369.	3195.
1 217	161135.							0.	161135.			2085.		146073.	
1 218	146661.	1226	1186	878	1162	1169	1125								
		1425	1028	1331	1001	756	896	13183.	159844.	167.	1.25	7089.	1369.	138022.	103.
1 219	39733.	441	492	488	507	473	435								
		433	200	205	150	798	819	5441.	45174.	2574.	32.11	22842.	1437.	60572.	264.
1 220	152895.							0.	152895.			0.		180608.	
1 221	243545.							0.	243545.			14133.		486664.	
1 222	195044.	3118	2398	2688	2760	3398	2334								
		2920	2836	2054	1572	1504	1546	29128.	224172.	4706.	13.90	8922.	8604.	132229.	295.
1 223	193945.							0.	193945.			3751.		480598.	
1 224	241689.	572	1410	570	562	353	349								
		524	495	493	441	423	434	6626.	248315.	8241.	55.43	57133.	4973.	520904.	750.
1 225	71751.	404	341	414	997	1006	993								
		988	1019	1013	1020	818	614	9627.	83378.	16601.	63.29	94650.	4891.	56278.	508.
1 226	240743.	214	192	233	153	0	0								
		0	0	0	0	0	0	792.	241535.	11240.	93.41	120479.	2007.	1042982.	2534.
1 227	189957.	935	257	388	383	381	375								
		387	349	383	248	238	244	4568.	194525.	14357.	75.86	100455.	4944.	400581.	1082.
1 228	97030.							0.	97030.			23234.		191468.	
1 229	188291.							0.	188291.			56607.		214766.	
1 230	206612.							0.	206612.			4890.		363811.	
1 231	142367.	1928	3651	1242	1329	1141	1127								
		890	1019	1040	1131	1082	1112	16692.	159059.	30037.	64.27	218919.	19569.	355586.	1172.

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1 232	172551.							0.	172551.			3979.		439985.	
1 233	364919.	5367 2071	5146 1741	3002 1644	2914 2978	2826 3273	2603 3363	36928.	401847.	7598.	17.06	37148.	7646.	399170.	207.
1 234	350417.	1183 862	640 649	852 805	800 684	853 679	658 808	9473.	359890.	3436.	26.61	104526.	6556.	484382.	692.
1 235	3495.							0.	3495.			0.		525406.	
1 242	0.							0.	0.			0.		0.	
1 245	99006.	1011 747	861 618	1022 743	662 995	660 833	767 871	9790.	108796.	36791.	78.98	177327.	1411.	33974.	144.
1 246	0.							0.	0.			0.		0.	
1 247	5453.							0.	5453.			0.		1623.	
1 249	0.							0.	0.			0.		0.	
1 251	193601.	4357 3963	3544 4145	4117 3808	3917 3608	3547 3518	3397 3576	45497.	239098.	12825.	21.98	59879.	2010.	52462.	44.
1 252	150058.	2424 1981	2067 1855	1874 1889	2069 2208	1842 2129	1918 1928	24184.	174242.	5478.	18.46	54130.	10655.	199432.	440.
1 253	298440.	974 840	920 828	163 845	119 826	1536 418	844 77	8390.	306830.	49252.	85.44	228068.	13319.	83427.	1587.
1 254	295472.	3332 3369	2989 3222	4141 3643	3553 3832	3643 3668	3274 3769	42435.	337907.	15440.	26.67	81633.	11047.	114190.	260.
1 255	80346.	0 0	0 0	0 0	0 0	0 0	0 0	0.	80346.	0.	0.00	119945.	0.	42243.	0.
1 256	419945.	2942 1867	2337 1763	2385 2043	2317 1741	2090 1666	1918 1484	24553.	444498.	119851.	82.99	290971.	48312.	420767.	1967.

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1 257	188479.	2493	2140	2180	1907	1670	1484								
		1019	978	998	1102	724	666	17361.	205840.	59372.	77.37	288399.	1445.	35718.	83.
1 258	208214.	751	686	795	644	687	849								
		890	959	960	873	1018	1134	10246.	218460.	72096.	87.55	428191.	1388.	36561.	135.
1 259	84420.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	84420.	0.	0.00	67344.	0.	97010.	0.
1 260	312399.	4733	4208	4174	4883	5060	5425								
		5744	5845	6099	5691	5492	6126	63480.	375879.	18793.	22.84	70055.	40529.	308428.	638.
1 261	150001.	3214	2883	1915	1942	1848	2039								
		2098	1667	1662	1985	1900	1953	25106.	175107.	7794.	23.68	20549.	13308.	122655.	530.
1 262	318992.	2294	2067	1821	1747	2090	411								
		575	371	402	873	1234	716	14601.	333593.	198708.	93.15	654520.	1038.	185489.	71.
1 263	181519.	2146	174	195	350	307	281								
		0	0	0	0	0	0	3453.	184972.	53508.	93.93	459246.	6310.	37420.	1827.
1 264	230240.	1325	1215	1400	1371	1281	895								
		891	1078	1100	1007	810	870	13243.	243483.	194080.	93.61	706073.	1288.	80618.	97.
1 265	91256.	1104	867	1041	775	278	205								
		204	188	742	703	648	716	7471.	98727.	55177.	88.07	285630.	3330.	23813.	445.
1 266	36702.	568	462	521	566	446	461								
		534	493	538	676	149	537	5951.	42653.	17385.	74.49	93381.	21358.	38567.	3588.
1 267	9694.	0	665	386	656	613	511								
		1273	1254	998	877	873	805	8911.	18605.	19382.	68.50	137991.	4466.	11341.	501.
1 268	135169.	2143	1922	1838	2326	1984	1959								
		2043	1982	2054	2013	1927	1979	24170.	159339.	8851.	26.80	41783.	8284.	102809.	342.
1 269	91695.	871	640	397	414	495	575								
		546	495	712	591	494	435	6665.	98360.	3466.	34.21	285266.	3076.	6606.	461.

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1 270	170026.	2424	1993	2214	1876	1843	2000								
		1867	2196	1610	1555	1543	1493	22614.	192640.	35940.	61.37	140725.	1581.	14553.	69.
1 271	35432.	1096	836	937	966	1210	904								
		1235	990	1083	933	1049	964	12203.	47635.	93.	0.75	699.	1434.	9942.	117.
1 272	0.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	0.	0.	0.00	0.	0.	0.	0.
1 273	40447.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	40447.	0.	0.00	4472.	0.	138428.	0.
1 274	197060.	3809	3417	4477	4422	4186	3918								
		4031	4021	3917	3915	3747	3850	47710.	244770.	8591.	15.25	41327.	28352.	125922.	594.
1 275	127375.	2571	2990	3623	1814	1848	1798								
		1879	1928	1972	1903	1821	1871	26018.	153393.	13251.	33.74	56801.	9387.	79674.	360.
1 276	50819.	411	318	391	328	306	384								
		637	301	461	201	225	308	4271.	55090.	17322.	80.22	76858.	1476.	76569.	345.
1 277	110292.	2482	2067	2385	1903	2117	1836								
		1723	2041	1857	1617	1975	2176	24179.	134471.	7057.	22.59	99143.	1636.	7003.	67.
1 278	120836.	2525	2024	3643	3398	3174	2890								
		2265	2508	2303	2254	1646	1562	30192.	151028.	59496.	66.33	226575.	1686.	84106.	55.
1 279	167066.	1294	1185	1334	1222	1142	979								
		1044	1028	1015	1026	2045	2099	15413.	182479.	52880.	77.43	327741.	1435.	63761.	93.
1 280	75108.	286	854	1242	1099	839	912								
		1077	1019	1041	1076	1029	1058	11532.	86640.	26259.	69.48	308208.	6547.	86258.	567.
1 281	137235.	2587	2169	2245	1967	2339	1943								
		2648	2524	2150	2228	2444	2278	27522.	164757.	66039.	70.58	261509.	1397.	62147.	50.
1 282	77283.	1571	1409	1631	1610	1985	1959								
		2016	2010	1507	1032	791	596	18117.	95400.	68189.	79.00	311741.	4963.	75833.	273.

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COMPANY, LEASE & WELL NO.	CUM. TO 1-1-75	OIL PRODUCTION JAN/ JULY	FEB/ AUG.	MAR/ SEPT	APR/ OCT.	MAY/ NOV.	JUNE /DEC	12 MO. TOTAL	CUM TO 1-1-76	WATER PRODUCTION 12 MO. PROD BBLS	% WTR PROD	CUM TO 1-1-76	GAS PRODUCTION - MCF 12 MO. VOLUME	CUM TO 1-1-76	12 MO AVG RATIO
1 283	264328.	2966	1652	3740	3487	3257	2793								
		3971	2532	3813	3490	2219	2380	36300.	300628.	97367.	72.84	302660.	1445.	126844.	39.
1 284	109459.	2428	1879	2019	1993	2501	1825								
		1740	1983	2000	2014	1926	1660	23968.	133427.	35827.	59.91	178263.	4952.	108986.	206.
1 285	238771.	2745	2256	2537	2891	2701	2379								
		2143	2558	2995	2930	3491	1946	31572.	270343.	80960.	71.94	320330.	14809.	108891.	469.
1 286	42805.	1009	1532	1724	1222	1141	1177								
		1171	1003	1023	1027	1048	768	13845.	56650.	38513.	73.55	186835.	1437.	36180.	103.
1 287	124941.	3146	2929	3378	2648	3025	2548								
		2699	2814	2257	2124	1913	2239	31720.	156661.	102622.	76.38	325522.	14898.	56931.	469.
1 288	82417.	461	271	454	311	275	247								
		258	278	278	280	278	280	3671.	86088.	10778.	74.59	253154.	34212.	47471.	9319.
1 289	143190.	3218	2892	3318	3040	3731	4475								
		4608	4388	3839	3029	3117	3097	42752.	185942.	19209.	31.00	77089.	1425.	67087.	33.
1 290	101687.	1107	1033	1277	1241	1127	1123								
		1149	1237	805	1244	1203	1089	13635.	115322.	9759.	41.71	77191.	4488.	14415.	329.
1 291	149561.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	149561.	0.	0.00	217860.	0.	88095.	0.
1 292	117534.	1915	1586	2381	2352	1169	1154								
		1188	1184	1178	2206	2269	2305	20887.	138421.	31419.	60.06	54065.	4995.	25576.	239.
1 293	131804.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	131804.	0.	0.00	184915.	0.	9846.	0.
1 294	165505.	2280	1944	2527	1959	1897	1863								
		1953	2103	2105	1978	2098	2115	24822.	190327.	14193.	36.37	69706.	1882.	40602.	75.
1 295	139409.	981	837	1051	1214	1760	548								
		747	599	619	529	895	715	10495.	149904.	30538.	74.42	150455.	5203.	10782.	495.

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1 296	85889.	1202 1519	1070 1294	1398 1069	1380 1158	407 1108	1235 1139	13979.	99868.	13302.	48.75	86945.	12909.	107455.	923.
1 297	58464.	947 1120	897 978	1008 895	864 751	1281 649	1125 870	11385.	69849.	3349.	22.72	87787.	1437.	54369.	126.
1 298	220100.	4133 2546	3788 2507	3436 1198	3905 1265	3647 1503	2472 2483	32883.	252983.	98138.	74.90	314004.	115489.	213130.	3512.
1 299	226656.	4308 4115	3267 3553	3831 3670	3604 3612	3860 3615	3810 3579	44824.	271480.	66459.	59.72	119762.	5056.	81380.	112.
1 300	97811.	1571 1657	1258 1652	1708 1753	1687 1734	1763 1716	1610 1681	19790.	117601.	3832.	16.22	34321.	49134.	70752.	2482.
1 301	0.							0.	0.			0.		0.	
1 302	0.							0.	0.			0.		0.	
1 304	113221.	2714 2623	2371 2307	2667 2175	2414 1678	2701 1696	2481 1126	26953.	140174.	3811.	12.38	12088.	1453.	98381.	53.
1 305	61258.	1357 1833	1301 1805	1659 3966	1520 3656	2311 3316	1842 4915	29481.	90739.	11307.	27.72	56022.	1445.	34144.	49.
1 306	74295.	1577 1324	1475 1554	1464 1689	1341 1027	1698. 1272	1355 1229	17005.	91300.	35163.	67.40	113951.	1452.	31444.	85.
1 307	84499.	1157 801	1068 798	1139 794	1125 717	788 422	778 515	10102.	94601.	45727.	81.90	96817.	4955.	16343.	490.
1 308	138716.	2684 2815	2411 3031	2840 3034	2510 3047	2558 3024	2548 3172	33674.	172390.	28697.	46.01	100810.	7859.	41949.	233.
1 309	1852.	0 0	0 0	0 0	0 0	0 0	0 0	0.	1852.	0.	0.00	6886.	0.	540.	0.
1 310	124504.	1925 2215	1938 2281	2244 2355	2057 2304	2255 947	2225 1024	23770.	148274.	73814.	75.64	199999.	1427.	38477.	60.

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1 311	21723.	599	362	369	1957	415	476								
		500	562	445	478	406	575	7144.	28867.	604.	7.79	2663.	805.	32907.	112.
1 312	83609.	1191	1196	1449	1431	1522	1530								
		1573	1763	1534	1489	1557	1627	17862.	101471.	8693.	32.73	61179.	5011.	91731.	280.
1 313	37743.	627	754	895	697	664	728								
		739	710	653	676	598	420	8161.	45904.	17712.	68.45	123070.	3176.	13752.	389.
1 314	88139.	1738	1174	1501	1482	1500	1583								
		1629	1625	1616	937	898	750	16433.	104572.	86918.	84.09	269697.	4858.	16322.	295.
1 315	209591.	5165	3929	4762	4703	4865	4696								
		4833	4042	4793	4963	5172	4298	56221.	265812.	18085.	24.33	35795.	4873.	115638.	86.
1 316	122225.	1618	1447	1728	1764	1729	1825								
		1737	1803	1835	1848	1715	2115	21164.	143389.	141619.	86.99	417092.	5551.	87975.	262.
1 317	131887.	3975	3331	3571	3502	3452	3408								
		3508	3497	3479	2619	2850	2929	40121.	172008.	46391.	53.62	119805.	4882.	59386.	121.
1 318	38904.	692	591	681	596	742	767								
		747	835	774	728	481	684	8318.	47222.	97554.	92.14	296721.	10462.	59717.	1257.
1 319	63341.	1847	1575	1590	1545	1623	1398								
		1408	1639	1641	1649	1635	1649	19199.	82540.	42159.	68.70	181824.	9408.	63494.	490.
1 320	34312.	1230	1128	1268	506	473	640								
		636	727	742	626	673	486	9135.	43447.	11242.	55.17	40285.	1437.	15231.	157.
1 321	85240.	2142	1602	2096	1994	2120	2094								
		2155	2148	2137	2151	1820	2277	24736.	109976.	21008.	45.92	160500.	4919.	32378.	198.
1 322	38407.	1369	907	922	1233	1052	1064								
		911	917	919	873	990	1150	12307.	50714.	6480.	34.49	11337.	9477.	43468.	770.
1 323	70090.	2429	2227	2570	2354	1448	2634								
		2622	2307	2098	2129	1720	2253	26791.	96881.	3322.	11.03	21263.	1407.	30724.	52.

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1 324	78994.	2251	2043	1217	1655	1403	1288								
		1580	1794	1548	1032	1349	1679	18839.	97833.	8089.	30.03	43117.	51093.	175924.	2712.
1 325	86170.	1714	1303	1496	1534	1686	1610								
		1524	1515	1479	1462	1293	1410	18026.	104196.	44652.	71.24	116502.	5171.	25178.	286.
1 326	57161.	1500	1427	1646	1490	1567	1452								
		1436	1701	1610	1493	1419	1710	18451.	75612.	27985.	60.26	116185.	1473.	10025.	79.
1 327	80649.	1047	1025	1122	1099	1033	1020								
		994	964	844	883	818	840	11689.	92338.	61039.	83.92	171197.	4878.	36635.	417.
1 328	68148.	1212	861	1135	1628	1650	1069								
		1177	1577	1610	1213	1543	933	15608.	83756.	8434.	35.08	38369.	2283.	11433.	146.
1 329	73836.	2356	2029	2459	2428	1087	1073								
		1105	1102	1095	1103	2507	2441	20785.	94621.	17216.	45.30	48172.	5047.	17003.	242.
1 330	46437.	970	959	936	1018	1107	1175								
		1440	1715	1632	1662	1483	1550	15647.	62084.	35652.	69.49	73643.	6831.	31336.	436.
1 331	1514.	0	0	0	0	0	0								
		0	0	0	0	0	0	0.	1514.	0.	0.00	2241.	0.	10.	0.
1 332	65418.	1737	2776	3364	1738	1903	1611								
		1657	1707	2191	2427	2322	2251	25684.	91102.	12012.	31.86	35793.	20220.	37465.	787.
1 333	67982.	1904	2370	2502	1815	1739	1772								
		1823	1900	1917	2152	2058	1615	23567.	91549.	16566.	41.27	87667.	4821.	22987.	204.
1 334	36078.	1198	699	1081	1260	1301	1147								
		1081	1123	831	789	765	875	12150.	48228.	2296.	15.89	4971.	2591.	30250.	213.
1 335	89162.	2857	2562	1811	1789	2256	2227								
		2291	2286	2273	2289	739	760	24140.	113302.	37701.	60.96	111012.	4905.	34204.	203.
1 336	35584.	1055	932	1239	1153	1273	1371								
		1308	1431	1395	1268	1124	1175	14724.	50308.	32422.	68.76	52213.	4562.	41215.	309.

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1 337	82714.	5049	4325	4452	4369	4512	4197								
		2675	2514	2523	2028	1482	1550	39676.	122390.	14964.	27.38	15138.	5686.	94934.	143.
1 338	69929.	1452	1345	1346	1508	1604	1610								
		1878	1845	1534	1324	976	1356	17778.	87707.	17765.	49.98	109193.	4966.	43279.	279.
1 339	8330.	172	285	47	0	0	0								
		0	0	0	0	0	0	504.	8834.	2988.	85.56	19266.	122.	3129.	242.
1 340	13656.	462	443	398	386	275	328								
		517	557	434	373	370	311	4854.	18510.	4166.	46.18	10999.	1629.	1795.	335.
1 341	60003.	2095	1772	1863	2556	2855	2683								
		2817	2589	2465	2427	2428	2359	28909.	88912.	33790.	53.89	56767.	6235.	36044.	215.
1 342	27565.	1711	1269	1185	1340	1384	1120								
		1234	1154	1187	1118	980	1025	14707.	42272.	174.	1.16	756.	8930.	33060.	607.
1 343	27059.	1512	1218	1264	1233	1412	1371								
		1147	1124	1127	1126	956	1001	14491.	41550.	1849.	11.31	4613.	14896.	36998.	1027.
1 344	27113.	970	958	922	938	886	895								
		910	976	979	986	838	875	11133.	38246.	3149.	22.04	9611.	4352.	27506.	390.
1 345	19734.	714	534	647	563	680	671								
		646	689	548	524	343	406	6965.	26699.	82838.	92.24	207621.	4971.	12784.	713.
1 346	32938.	1425	1473	1579	1559	1658	1636								
		1684	1679	1671	2041	1188	1220	18813.	51751.	17371.	48.00	34714.	4874.	9794.	259.
1 347	47354.	2588	2072	2318	2332	1578	1595								
		1235	2188	2344	2084	1770	1426	23530.	70884.	15331.	39.45	34043.	6820.	34706.	289.
1 348	60161.	2696	2616	3188	3243	3543	3190								
		3351	3312	3086	3183	2702	2626	36736.	96897.	219.	0.59	10829.	2061.	19369.	56.
1 349	17263.	884	1010	791	778	803	755								
		618	1035	1128	845	731	1075	10453.	27716.	7018.	40.16	12831.	23777.	36476.	2274.

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1 350	43731.	1855	1684	1713	1849	1495	1511								
		1117	1746	1692	1521	1291	1350	18824.	62555.	31157.	62.33	43999.	4643.	28168.	246.
1 351	62540.	3629	3290	4295	2439	2813	2406								
		2293	1974	1780	1971	1673	1276	29839.	92379.	67364.	69.30	112747.	1961.	13963.	65.
1 352	12023.	827	829	553	965	830	811								
		853	828	712	592	766	800	9366.	21389.	1334.	12.46	2464.	4342.	31352.	463.
1 353	39137.	3594	2071	2407	2377	2528	2818								
		2900	2892	2876	2731	1768	1816	30778.	69915.	11657.	27.47	18769.	5085.	11777.	165.
1 354	14888.	999	726	923	885	803	840								
		970	946	950	761	599	500	9902.	24790.	987.	9.06	1611.	1494.	7684.	150.
1 355	0.							0.	0.			0.		0.	
LEASE TOTAL	72406723.	361930.	324054.	355126.	341248.	341034.	326002.								
		335454.	333186.	320123.	318135.	298378.	296730.	3951400.	76358123.	6615518.	62.60	30029348.	1932622.	105754042.	489
BAISH A															
2 2	106933.							0.	106933.			0.		130025.	
MITCH. B															
3 1	14942.							0.	14942.			0.		0.	
MILLER A															
4 3	12570.							0.	12570.			0.		0.	
4 7	84248.							0.	84248.			0.		0.	
LEASE TOTAL	96818.	0.	0.	0.	0.	0.	0.								
		0.	0.	0.	0.	0.	0.	0.	96818.	0.	0.00	0.	0.	0.	0
MILLER B															
5 5	51813.							0.	51813.			0.		0.	

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PEARS. A															
6 7	22715.							0.	22715.			0.		0.	
PART	72699944.	361930.	324054.	355126.	341248.	341034.	326002.								
TOTAL		335454.	333186.	320123.	318135.	298378.	296730.	3951400.	76651344.	6615518.	62.60				
												30029348.	1932622.	105884067.	489
BAISH B															
7 4	37193.	187	226	239	196	264	302								
		240	187	198	82	133	203	2457.	39650.	3557.	59.14	61897.	21315.	81506.	8675.
7 3	42849.							0.	42849.			0.		59546.	
LEASE	80042.	187.	226.	239.	196.	264.	302.								
TOTAL		240.	187.	198.	82.	133.	203.	2457.	82499.	3557.	59.14				
												61897.	21315.	141052.	8675
MILLER B															
8 1	73101.	534	632	502	363	320	417								
		481	456	491	519	707	701	6123.	79224.	1150.	15.81	19127.	2466.	69696.	402.
MILL. BX															
9 1	27545.							0.	27545.			3768.		94939.	
9 2	81436.	413	247	363	293	381	338								
		300	340	295	427	348	336	4081.	85517.	121.	2.87	13684.	2407.	126336.	589.
9 3	28208.							0.	28208.			5490.		58916.	
9 4	23233.	275	206	268	233	254	233								
		215	243	244	267	240	233	2911.	26144.	97.	3.22	1818.	2001.	99616.	687.
9 5	22681.							0.	22681.			5298.		30794.	
9 6	3171.							0.	3171.			0.		10011.	
9 7	42398.	220	165	215	186	203	208								
		178	195	195	213	214	229	2421.	44819.	10593.	81.39	33811.	2485.	70240.	1026.

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LEASE TOTAL		228672.	908. 693.	618. 778.	846. 734.	712. 907.	838. 802.	779. 798.	9413.	238085.	10811.	53.45	63869.	6893.	490902.	732
MITCH. B																
10	1	23836.	0 0	0 0	0 0	0 0	0 0	0 0	0.	23836.	0.	0.00	55039.	0.	43765.	0.
10	3	81014.	675 368	516 462	478 341	407 402	468 458	582 408	5565.	86579.	20696.	78.80	107793.	1361.	93969.	244.
10	4	29636.	0 0	0 0	0 0	0 0	0 0	0 0	0.	29636.	0.	0.00	28498.	0.	68557.	0.
10	5	11382.							0.	11382.			15394.		41376.	
10	6	2311.	0 0	0 0	0 0	0 0	0 0	0 0	0.	2311.	0.	0.00	429.	0.	835.	0.
10	7	36117.							0.	36117.			18792.		98720.	
10	8	10425.							0.	10425.			320.		30412.	
10	9	79152.	994 781	911 805	846 590	895 782	443 529	699 817	9092.	88244.	127572.	93.34	504868.	1847.	110349.	203.
10	10	5110.							0.	5110.			0.		0.	
10	12	7316.							0.	7316.			0.		245875.	
10	13	10824.							0.	10824.			3509.		25560.	
10	19	14654.	355 207	273 184	226 236	203 279	222 211	374 149	2919.	17573.	15588.	84.22	43061.	1360.	21522.	465.
LEASE TOTAL		311777.	2024. 1356.	1700. 1451.	1550. 1167.	1505. 1463.	1133. 1198.	1655. 1374.	17576.	329353.	163856.	90.31	777703.	4568.	780940.	259

YEAR, 1975

COMPANY, LEASE & WELL NO.		CUM. TO 1-1-75	OIL PRODUCTION JAN/ JULY	FEB/ AUG.	MAR/ SEPT	APR/ OCT.	MAY/ NOV.	JUNE /DEC	12 MO. TOTAL	CUM TO 1-1-76	WATER PRODUCTION 12 MO. PROD BBLS	% WTR PROD	CUM TO 1-1-76	GAS PRODUCTION - MCF 12 MO VOLUME	CUM TO 1-1-76	12 MO AVG RATIO
PEARS.BX																
11	1	10979.							0.	10979.			3983.		0.	
STATE B																
12	3	37109.	0	0	0	0	0	0								
			0	0	0	0	0	0	0.	37109.	0.	0.00	29.	0.	184755.	0.
12	4	47614.	476	283	339	254	245	388								
			177	315	279	263	0	0	3019.	50633.	5747.	65.56	17357.	212.	39745.	70.
12	5	60040.	0	71	85	47	61	65								
			44	105	0	0	0	0	478.	60518.	139.	22.52	81114.	2424.	77371.	5071.
12	6	21648.							0.	21648.			0.		61446.	
12	7	41691.							0.	41691.			205.		99623.	
12	8	51921.	713	532	636	509	642	680								
			651	683	679	489	567	179	6960.	58881.	10436.	59.99	39564.	2830.	61634.	406.
LEASE TOTAL		260023.	1189.	886.	1060.	810.	948.	1133.								
			872.	1103.	958.	752.	567.	179.	10457.	270480.	16322.	60.95	138269.	5466.	524574.	522
TAYLOR																
13	1	49115.	29	237	385	280	232	228								
			207	341	282	280	299	149	2949.	52064.	22316.	88.32	156673.	9.	89515.	3.
13	2	27446.	0	0	0	0	0	0								
			0	0	0	0	0	0	0.	27446.	0.	0.00	31.	0.	54218.	0.
13	3	32505.	0	0	0	0	0	0								
			0	0	0	0	0	0	0.	32505.	0.	0.00	0.	0.	50276.	0.
LEASE TOTAL		109066.	29.	237.	385.	280.	232.	228.								
			207.	341.	282.	280.	299.	149.	2949.	112015.	22316.	88.32	156704.	9.	194009.	3
NON-PART TOTAL		1073660.	4871.	4299.	4582.	3866.	3735.	4514.								
			3849.	4316.	3830.	4003.	3706.	3404.	48975.	1122635.	218012.	81.65	1221552.	40717.	2201173.	831

MCA UNIT
CUMULATIVE OIL, WATER & GAS PRODUCTION
YEAR, 1975

COMPANY, LEASE & WELL NO.	CUM. TO 1-1-75	OIL PRODUCTION JAN/ JULY	FEB/ AUG.	MAR/ SEPT	APR/ OCT.	MAY/ NOV.	JUNE /DEC	12 MO. TOTAL	CUM TO 1-1-76	WATER PRODUCTION 12 MO. PROD BBLS	% WTR PROD	CUM TO 1-1-76	GAS PRODUCTION - MCF 12 MO. VOLUME	CUM TO 1-1-76	12 MO AVG RATIO
GRAND TOTAL	73773604.	366801. 339303.	328353. 337502.	359708. 323953.	345114. 322138.	344769. 302084.	330516. 300134.	4000375.	77773979.	6833530.	63.07	31250900.	1973339.	108085240.	493

Case 2718

CONTINENTAL OIL COMPANY

P. O. Box 1377
Roswell, New Mexico
May 29, 1963

New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: SUPPLEMENT NUMBER 5 TO MALJAMAR COOPERATIVE AGREEMENT, LEA COUNTY, NEW MEXICO

As directed in Order No. 2403 (Case No. 2718) dated December 31, 1962, executed counterparts are attached of the Supplemental and Amendatory Agreement to Maljamar Cooperative Agreement (Supplement No. 5) which became effective under its terms on May 1, 1963. This agreement is now being recorded in Lea County.

Yours very truly,

A. B. Slaybaugh

A. B. SLAYBAUGH
Division Superintendent
of Production
New Mexico Division

CRA-pr
Enc.

2718

MALJAMAR COOPERATIVE AGREEMENT

Box 460
Hobbs, New Mexico

December 30, 1964

MAIL OFFICE

'64 DEC 31 AM 8

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico

Attention of Mr. Joe D. Ramey, Proration Manager

Re: Commission Order R-2403, Case 2718

Dear Sir:

For the month of December, 1964, we are requesting a supplemental increase in the field nomination of 67 BOPD due to more favorable reservoir voidage and having well test data to justify these supplemental increases.

MCA Unit No. 67 Retested 12-13-64	Unit L, 21-17-32	Increase from 25 to 33 bbls.
MCA Unit No. 94 Retested 12-21-64	Unit P, 20-17-32	Increase from 29 to 31 bbls.
MCA Unit No. 112 Retested 12-16-64	Unit A, 29-17-32	Increase from 23 to 26 bbls.
MCA Unit No. 114 Retested 12-24-64	Unit D, 28-17-32	Increase from 35 to 38 bbls.
MCA Unit No. 115 Retested 12-9-64	Unit C, 28-17-32	Increase from 40 to 43 bbls.
MCA Unit No. 152 Retested 12-22-64	Unit F, 28-17-32	Increase from 63 to 93 bbls.
MCA Unit No. 153 Retested 12-23-64	Unit E, 28-17-32	Increase from 33 to 36 bbls.
MCA Unit No. 234 Retested 12-18-64	Unit N, 21-17-32	Increase from 81 to 96 bbls.

Yours very truly,

J. A. QUEEN
Chairman
Engineering Sub-Committee

JAQ-CL

CC: JRC DEJ JER FILE
Attached Mailing List

MALJAMAR COOPERATIVE AGREEMENT

ENGINEERING COMMITTEE

MAILING LIST

Carper Drilling Company, Inc.
Mr. Marshall Rowley
200 Carper Building
Artesia, New Mexico

Mr. R. E. Powers
Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas

Mr. R. A. Wright
Sinclair Oil & Gas Company
P. O. Box 521
Tulsa, Oklahoma

Mr. W. F. Burns
Sinclair Oil & Gas Company
520 East Broadway
Hobbs, New Mexico

Fair Oil Company
Mr. Richard L. Ray
P. O. Box 689
Tyler, Texas

Virginia Sears & Mary Jo
Vandiver, Co-Executrices
700 Hermosa Drive
Artesia, New Mexico

Charlotte W. Runyan
Hope, New Mexico

Mr. J. P. Pierce
3621 Westcliff Road South
Fort Worth 9, Texas

Cockburn Trusts
P. O. Box 241
Dallas, Texas

Mr. Leon C. Smith
2506 Bridwell Street
Wichita Falls, Texas

Mrs. Jewell Smith
2756 Mimosa Park Drive
Fort Worth 18, Texas

Mr. Jack B. Shaw
P. O. Box 517
Artesia, New Mexico

Mary Katherine Fowles
905 Saverein Drive
Sacramento 25, California

Emily Katherine Flint Boyd
and Rosemary Flint
% Mrs. George Ray
2806 South Hayden
Amarillo, Texas

9-9-64

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Roswell, New Mexico 88201

'65 APR 30 AM

April 28, 1965

2718

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico

Attention: Mr. Jack Marshall

Gentlemen:

Your supplemental plan of operation dated March 20, 1965, for the Maljamar Cooperative agreement secondary recovery project, Lea County, New Mexico, proposing the conversion of 13 wells to water injection status, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. SGD.) BILLY J. SHOGER

BILLY J. SHOGER
Acting Oil and Gas Supervisor

cc:
Washington (w/cy of plan)
Hobbs (w/cy of plan)
Com. of Pub. Lands, Santa Fe (ltr. only)
NMOCC, Santa Fe (ltr. only)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(ORIG. SGD.) RILEY J. SHOCKEY

RILEY J. SHOCKEY
Acting Oil and Gas Supervisor

cc:
Farmington (w/cy of plan)
Hobbs (w/cy of plan)
Com. of Pub. Lands, Santa Fe (ltr. only)
NMOCC, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

COPY

April 6, 1965

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico

Attention: Mr. Jack Marshall

Gentlemen:

Reference is made to your letter of March 26, 1965, wherein you request authority to conduct bottomhole pressure tests in your Maljamar Cooperative Agreement Area, Maljamar Pool, Lea County, New Mexico, on an annual basis rather than semi-annually as you are presently doing. You further request exemption from bottomhole pressure tests for those wells which produce less than the ten-hundred acreage allowable, those wells which have been stimulated by water injection, and all gas and water injection wells.

Section 3 (g) on Page 8 of Order No. R-2403 provides that bottomhole pressure surveys and gas-oil ratio tests shall be taken and filed with the Commission in accordance with the Commission Rules and Regulations every six (6) months or at such periods as the Commission may prescribe.

We concur with your conclusion that semi-annual pressures are probably no longer necessary for proper application of the void-space allocation formula in the Maljamar Cooperative Agreement Unit. Further that pressures are not necessary on the injection wells and the producing wells which have received a substantial response to water injection.

Continental Oil Company is, therefore, hereby authorized to conduct the bottomhole pressure survey in the Maljamar Cooperative Agreement Unit in April only of each year, excepting certain wells from testing as outlined above.

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

April 6, 1965

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico

Attention: Mr. Jack Marshall

Gentlemen:

Reference is made to your letter of March 26, 1965, wherein you request authority to conduct bottomhole pressure tests in your Maljamar Cooperative Agreement Area, Maljamar Pool, Lea County, New Mexico, on an annual basis rather than semi-annually as you are presently doing. You further request exemption from bottomhole pressure tests for those wells which produce less than the ten-barrel acreage allowable, those wells which have been stimulated by water injection, and all gas and water injection wells.

Section 3 (g) on Page 8 of Order No. R-2403 provides that bottomhole pressure surveys and gas-oil ratio tests shall be taken and filed with the Commission in accordance with the Commission Rules and Regulations every six (6) months or at such periods as the Commission may prescribe.

We concur with your conclusion that semi-annual pressures are probably no longer necessary for proper application of the void-space allocation formula in the Maljamar Cooperative Agreement Unit. Further that pressures are not necessary on the injection wells and the producing wells which have received a substantial response to water injection.

Continental Oil Company is, therefore, hereby authorized to conduct the bottomhole pressure survey in the Maljamar Cooperative Agreement Unit in April only of each year, exempting certain wells from testing as outlined above.

It is requested that prior to the testing period each year, a schedule for testing be worked out with the Hobbs District Office of the Commission in order to determine which wells have had substantial response to water injection and should be exempt from tests.

Gas-oil ratios shall continue to be taken on all producing wells semi-annually and reported to the Commission.

Very truly yours,

A. L. Porter, Jr.
Secretary-Director

ALP:DSN:sg

cc: Oil Conservation Commission - Hobbs
Oil & Gas Engineering Committee - Hobbs
Case File #2718

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Very truly yours,

A. L. Porter, Jr.
Secretary-Director

ALP:DSN:sg

cc: Oil Conservation Commission - Hobbs
Oil & Gas Engineering Committee - Hobbs
Case File #2718

CONOCO

CONTINENTAL OIL COMPANY

P. O. BOX 460
HOBBS, NEW MEXICO

PRODUCTION DEPARTMENT
HOBBS DISTRICT
JACK MARSHALL
DISTRICT MANAGER
G. C. JAMIESON
ASSISTANT DISTRICT MANAGER

1001 NORTH TURNER
TELEPHONE: EX 3-4141

March 26, 1965

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: Bottom Hole Pressures - Maljamar Pool - Order No. R-2403

This letter is for the purpose of clarifying and amplifying the conversation regarding the MCA Unit between Mr. D. S. Nutter and Mr. V. T. Lyon on March 17, 1965. Order No. R-2403, in the third section, contains a provision 3 (G) requiring bottom hole pressure surveys and gas-oil ratio tests to be taken every six months or at such periods as the Commission may prescribe. At the time of the hearing which resulted in Order No. R-2403, Continental contemplated supplementing the pressure maintenance project by the institution of water injection operations. The acreage void-space allocation is, of course, applicable to both gas and water injection; however, due to the increasing cost of obtaining the bottom hole pressure surveys, certain changes are recommended.

Under the void-space formula, it is possible to transfer allowables only between wells on each lease, which serves to

protect correlative rights. Upon unitization, the protection of correlative rights from one lease to another within the participating area became unnecessary since that area now operates as a single lease. In order to afford the maximum protection of correlative rights, bottom hole pressure surveys were conducted on a six-months basis. In the early stages of the pressure maintenance program, this presented no great expense to the operator inasmuch as the wells flowed readily after being shut in for bottom hole pressure tests.

Since taking over the unit operation, Continental has measured the bottom hole pressure each six months, either with a bottom hole pressure gauge or, in pumping wells, with a device to measure the fluid level. As the pressure in the reservoir gradually declines, an increasing number of wells requires swabbing when the pool is placed back on production after being shut in for bottom hole pressure survey. In April and October, 1964, it was necessary to swab wells on 31 and 45 different occasions, respectively, as a direct result of being shut-in for the survey. The average cost of each swabbing job was approximately $110. It is estimated that if the test to be conducted in April, 1965 is taken on a comparable basis to those in the past, at least 50 swabbing jobs will be required to return wells to production, an expenditure of $5,500. These costs, together with the cost of the actual survey (approximately $10 per well), make a bottom hole survey

quite an expensive undertaking.

It is Continental's opinion that the purposes of conservation would be virtually as well served with an annual bottom hole pressure survey. Field average bottom hole pressures and gas-oil ratios do not vary greatly from one survey to the next. The average bottom hole pressure for October, 1963, April, 1964, and October, 1964, were 594.9, 583 and 576, respectively. Average gas-oil ratios from C-115 reports for the first two such periods were 5012 and 5412 respectively with the third period not yet compiled. The void-space allowable varies to a larger degree with changes in gas-oil ratio than with changes of bottom hole pressure. Furthermore, there are a large number of limited capacity wells for which the bottom hole pressure, or the gas-oil ratio, have no significance inasmuch as they do not enter into the void-space calculation. Their allowable is based solely on the acreage factor of 10 barrels per day.

It is further our opinion that wells under stimulus by water injection should not be shut in for bottom hole pressure measurements. This, we believe, is in line with waterflooding operations over the state.

It is therefore Continental's proposal that bottom hole pressure testing be conducted in the following manner:

1. Bottom hole pressure tests will be conducted on an annual basis during April of each year.

2. Wells having insufficient producing capacity to produce more than the ten barrel per day acreage allowable will not be included in the survey.

3. Gas or water injection wells and wells which have been stimulated by the injection of water will not be included in the survey.

Based on information from the October, 1964 surveys, there are 77 wells in the MCA Participating Area which have insufficient producing capacity to be affected by the void-space formula, 36 injection wells (30 gas, 6 water) and 15 wells which have been stimulated by water injection. This will leave 106 wells within the participating area which will be surveyed in April, 1965. One well bearing an MCA number is a water supply well. Four wells outside the participating area, but within the repressuring area, will be surveyed on the same basis of selection.

Considering the information contained above, it is respectfully requested that the Commission concur in the proposal for an annual bottom hole pressure testing schedule and the selection of wells to be tested, commencing in April, 1965.

Yours very truly,

Jack Marshall

JM-DFW

$\frac{RSF}{\Sigma RSF} \times VSA$

December 1965

[illegible] Nomination — 10,256

Acreage allowable adjust[illegible] — 1729

Max. well gas allowable — 8527

$\Sigma \frac{1}{VSF} = \frac{9.712}{8,527} = 0.001139$ (.018 / 8527, 9.712)

RVSF	VSA	RVSF	VSA	RVSF	VSA
.001	1	.023	20	.078	70
.002	2	.024	21	.091	80
.003	3	.025	22	.102	90
.004	4	.026	23	.114	100
.006	5	.027	24	.125	110
.007	6	.028	25	.137	120
.008	7	.030	26	.159	140
.009	8	.031	27	.182	160
.010	9	.032	28	.205	180
.011	10 ✓	.033	29	.228	200
.013	11	.034	30	.250	220
.014	12	.035	31	.305	270
.015	13	.036	32	.364	320
.016	14	.040 (.042)	35	.421	370
.017	15	.046	40	.478	420
.018	16	.051	45	.535	470
.019	17	.057	50	.592	520
.021	18	.063	55		
.022	19	.068	60		

NO. 32.258. LOGARITHMIC: 3 BY 4 2½-INCH CYCLES.

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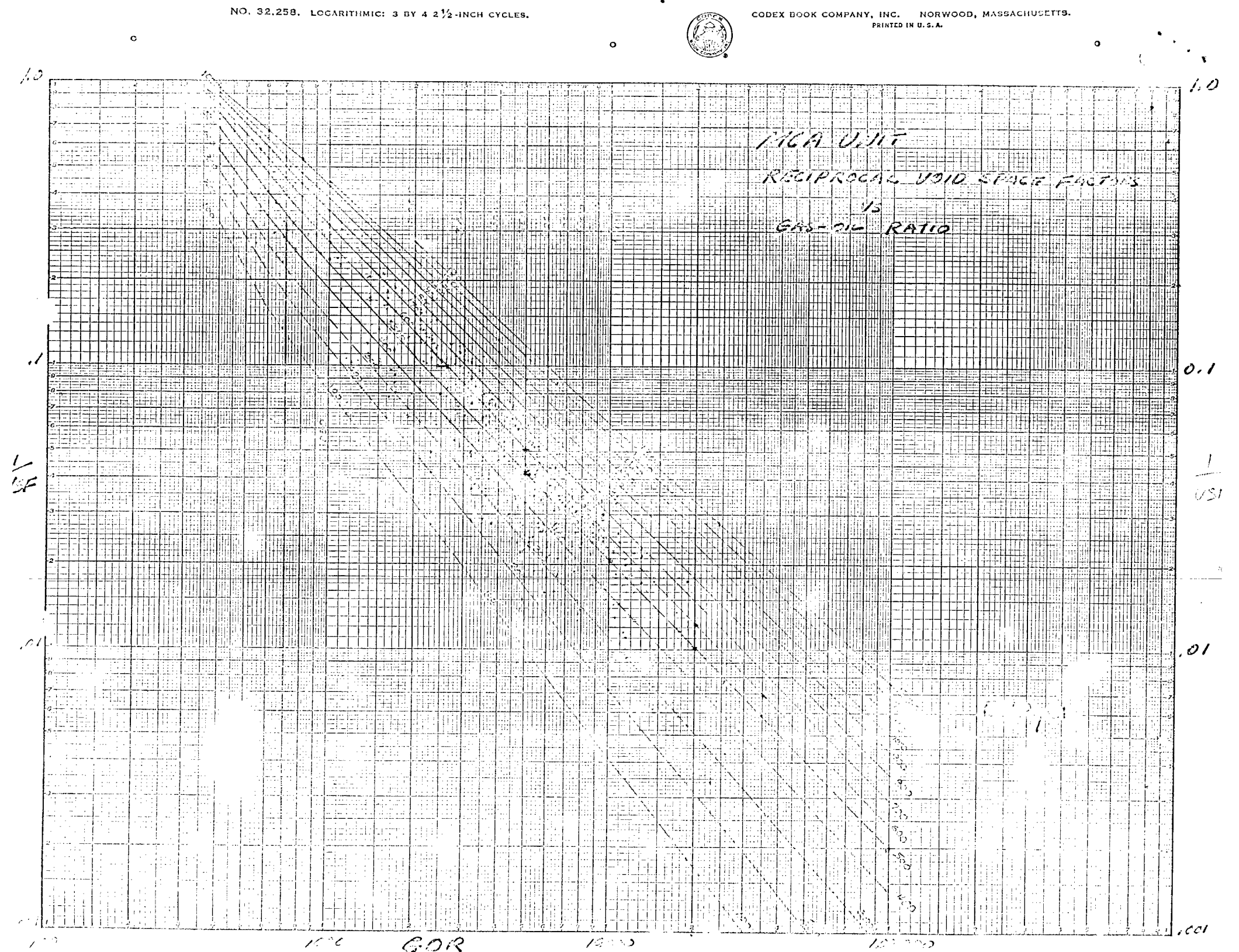

CONTINENTAL OIL COMPANY

P. O. BOX 460
HOBBS, NEW MEXICO

PRODUCTION DEPARTMENT
HOBBS DISTRICT
JACK MARSHALL
DISTRICT MANAGER
G. C. JAMIESON
ASSISTANT DISTRICT MANAGER

1001 NORTH TURNER
TELEPHONE: EX 3-4141

March 26, 1965

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: Bottom Hole Pressures - Maljamar Pool - Order No. R-2403

This letter is for the purpose of clarifying and amplifying the conversation regarding the MCA Unit between Mr. D. S. Nutter and Mr. V. T. Lyon on March 17, 1965. Order No. R-2403, in the third section, contains a provision 3 (G) requiring bottom hole pressure surveys and gas-oil ratio tests to be taken every six months or at such periods as the Commission may prescribe. At the time of the hearing which resulted in Order No. R-2403, Continental contemplated supplementing the pressure maintenance project by the institution of water injection operations. The acreage void-space allocation is, of course, applicable to both gas and water injection; however, due to the increasing cost of obtaining the bottom hole pressure surveys, certain changes are recommended.

Under the void-space formula, it is possible to transfer allowables only between wells on each lease, which serves to

CONTINENTAL OIL COMPANY
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HOBBS, NEW MEXICO

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PRODUCTION DEPARTMENT
HOBBS DISTRICT
JACK MARSHALL
DISTRICT MANAGER
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Since taking over the unit operation, Continental has measured the bottom hole pressure each six months, either with a bottom hole pressure gauge or, in pumping wells, with a device to measure the fluid level. As the pressure in the reservoir gradually declines, an increasing number of wells requires swabbing when the pool is placed back on production after being shut in for bottom hole pressure survey. In April and October, 1964, it was necessary to swab wells on 31 and 45 different occasions, respectively, as a direct result of being shut-in for the survey. The average cost of each swabbing job was approximately $110. It is estimated that if the test to be conducted in April, 1965 is taken on a comparable basis to those in the past, at least 50 swabbing jobs will be required to return wells to production, an expenditure of $5,500. These costs, together with the cost of the actual survey (approximately $10 per well), make a bottom hole survey

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It is Continental's opinion that the purposes of conservation would be virtually as well served with an annual bottom hole pressure survey. Field average bottom hole pressures and gas-oil ratios do not vary greatly from one survey to the next. The average bottom hole pressure for October, 1963, April, 1964, and October, 1964, were 594.9, 583 and 576, respectively. Average gas-oil ratios from C-115 reports for the first two such periods were 5012 and 5412 respectively with the third period not yet compiled. The void-space allowable varies to a larger degree with changes in gas-oil ratio than with changes of bottom hole pressure. Furthermore, there are a large number of limited capacity wells for which the bottom hole pressure, or the gas-oil ratio, have no significance inasmuch as they do not enter into the void-space calculation. Their allowable is based solely on the acreage factor of 10 barrels per day.

It is further our opinion that wells under stimulus by water injection should not be shut in for bottom hole pressure measurements. This, we believe, is in line with waterflooding operations over the state.

It is therefore Continental's proposal that bottom hole pressure testing be conducted in the following manner:

1. Bottom hole pressure tests will be conducted on an annual basis during April of each year.

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3. Gas or water injection wells and wells which have been stimulated by the injection of water will not be included in the survey.

Based on information from the October, 1964 surveys, there are 77 wells in the MCA Participating Area which have insufficient producing capacity to be affected by the void-space formula, 36 injection wells (30 gas, 6 water) and 15 wells which have been stimulated by water injection. This will leave 106 wells within the participating area which will be surveyed in April, 1965. One well bearing an MCA number is a water supply well. Four wells outside the participating area, but within the repressuring area, will be surveyed on the same basis of selection.

Considering the information contained above, it is respectfully requested that the Commission concur in the proposal for an annual bottom hole pressure testing schedule and the selection of wells to be tested, commencing in April, 1965.

Yours very truly,

Jack Marshall

JM-DFW

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Considering the information contained above, it is respectfully requested that the Commission concur in the proposal for an annual bottom hole pressure testing schedule and the selection of wells to be tested, commencing in April, 1965.

Yours very truly,

[signature]

JM-DM

OIL CONSERVATION COMMISSION
P. O. BOX 2088
SANTA FE, NEW MEXICO

December 7, 1967

COPY

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

Attention: Mr. L. P. Thompson

Re: Supplemental Plan of Operation,
MCA Unit, Lea County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental Plan of Operation dated December 3, 1967, and received by this office November 27, 1967, for the MCA Unit, Lea County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan of Operation is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/og
cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

OIL CONSERVATION COMMISSION
P. O. BOX 2088
SANTA FE, NEW MEXICO

December 7, 1967

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

Attention: Mr. L. P. Thompson

Re: Supplemental Plan of Operation,
MCA Unit, Lea County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental Plan of Operation dated November 3, 1967, and received by this office November 27, 1967, for the MCA Unit, Lea County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan of Operation is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/og
cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

COPY

CONTINENTAL OIL COMPANY

P. O. Box 460
HOBBS, NEW MEXICO 88240

PRODUCTION DEPARTMENT
HOBBS DIVISION
L. P. THOMPSON
Division Manager
G. C. JAMIESON
Assistant Division Manager

1001 NORTH TURNER
TELEPHONE 393-4141

November 20, 1967

Regional Oil and Gas Supervisor (6)
United States Geological Survey
P. O. Box
Roswell, New Mexico

The Honorable Guyton B. Hays (2)
Commissioner of Public Lands
P. O. Box
Santa Fe, New Mexico

New Mexico Oil Conservation Commission (2)
P. O. Box 2088
Santa Fe, New Mexico
Attn: Mr. A. L. Porter, Jr.

Re: Supplemental Plan of
Operation - MCA Unit -
Lea County, New Mexico

Gentlemen:

Forwarded herewith for your approval is the Supplemental Plan of Operation for the MCA Unit showing our plans to expand the waterflood project to full scale. Your favorable consideration of this plan will be sincerely appreciated.

Yours very truly,

LPT-JS
Attach

SUPPLEMENTAL AND AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
1 Sec. No. 341

SUPPLEMENTAL PLAN OF OPERATION

Continental Oil Company, operator under Supplemental and Amendatory Agreement, Maljamar Cooperative Agreement (Supplement No. 5) proposes the following supplement to the Initial Plan of Operation dated September 24, 1962.

I. REVIEW OF OPERATIONS TO DATE

A. Pilot Waterfloods

1. Pearl Area Pilot

The Pearl Pilot Waterflood was initiated in 1954 by injection of water into MCA Unit No. 197, located in Section 30, T-17S, R-33E, and was enlarged in 1963 by the addition, as an injector, of Well No. 195, located in Section 25, T-17S, R-32E. The pilot was further enlarged by the addition of Well No. 200 in 1965 and Well No. 135 in 1967. Administrative Order No. WFX No. 267 of the New Mexico Oil Conservation Commission authorized this project to be expanded on an 80-acre five-spot pattern covering all of the unit area in Section 25, T-17S, R-32E, and Section 30, T-17S, R-33E.

2. Central Pilot Waterflood

The Central Pilot Waterflood was instituted by converting one oil producer, MCA No. 68, and two gas injection wells, MCA Nos. 113 and 116, to water injection and drilling a new well, MCA No. 235, for water injection. A new well, MCA No. 234, was drilled as a producer inside the injection pattern. The purposes of this pilot waterflood were to determine (1) the feasibility of waterflood operations, and (2) the most efficient pattern to be employed; and to gain experience for the design of equipment to be used in an expanded waterflood. In 1965, a supplemental plan of operation and application to the New Mexico Oil Conservation Commission requested authority to expand this pilot into the area described as the S/2 S/2, Section 16, and all of Sections 21 and 28, adding 13 injection wells to the waterflood project on an 80-acre

five-spot pattern. This application was approved by Administrative Order WFX 197 dated April 15, 1965. Administrative Order WFX 234 authorized a further expansion to all Section 20 and 29 adding sixteen injection wells. Administrative Order WFX 253 authorized the further expansion of this flood to add 16 injection wells in Sections 19 and 30.

Based on the experience gained in the pilot waterflood, it has been determined that the reservoir can be flooded efficiently and economically on an 80-acre five-spot pattern. A uniform pattern has been employed in that the wells in the NW/4 and SE/4 of each quarter section are used as injection wells and the wells in the NE/4 and SW/4 of each quarter section are producers.

B. Unit Performance to Date

It has been the desire of the working interest owners to expand waterflood operations in such a manner that the conversion of wells for water injection would not seriously depress current unit oil production rates, and also, to avoid producing capacity above that which would be authorized by the New Mexico Oil Conservation Commission. Recent market conditions which resulted in considerable increases in allowable have permitted us to accelerate our plans for expansion. The attached graphs show the performance of the unit area to date. As shown on Exhibit 2, the oil producing rate has remained reasonably constant since unitization. As would be expected, gas oil ratios have begun to decline. Water production to date has been quite nominal, inasmuch as there has been no water-breakthrough experience. Injection gas volumes have declined as the waterflood project has been expanded. To date, the waterflood has performed very closely to the predictions of the engineering committee.

II. PROPOSED EXPANSION

Exhibit No. 1 attached hereto is a map showing the area of the MCA Unit. Acreage presently under waterflood is outlined in green. Operator now desires to expand the waterflood project to the entire unit area in two stages. Outlined in red are the areas in which operator proposes to expand the waterflood during the remainder of 1967. As shown, this area includes parts of Sections 16, 17, 18, and 33, T17S, R32E. During 1968, the remainder of the

unit, namely, Sections 14, 22, 23, 26, 27, and 34 are proposed to be placed under waterflood operations.

The unit owns water rights to 4200 acre-feet per annum in the Ogallala formation of the Lea County Water Basin, which authorizes 89,270 barrels per day. The full-scale water flood will utilize virtually this entire allocation of water.

At the present time produced water is being disposed of in surface pits. Prior to January 1, 1968, this produced water will be collected and injected into the unitized formation, eliminating surface disposal, and supplementing the fresh water sources.

III. COOPERATIVE AGREEMENTS

Since the waterflood operation has been expanded to the boundaries of the participating area, it is necessary to enter into agreements with offset operators in order that the waterflood may be carried on across the boundary lines in an equitable and efficient manner. The following agreements have been consummated at this time:

1. Hudson and Hudson

   An agreement has been entered into between MCA Unit and Hudson and Hudson for the cooperative waterflooding across the common boundary of Sections 19 and 30, R-32E, and Sections 24 and 25, Range 31 East. It was necessary in this agreement to reconcile the differences between the 40-acre five-spot waterflood used by Hudson and Hudson and the 80-acre five-spot pattern used by the MCA Unit.

2. Cities Service Oil Company

   An agreement has been entered into between the MCA Unit and Cities Service Oil Company for the cooperative waterflooding across the common boundary of the MCA Unit and SEM Unit adjoining in Section 30, T-17S, R-33E.

3. Kersey and Company

   An agreement has been entered into between MCA Unit and Kersey and Company for cooperative waterflooding

across the common boundary of the MCA Unit and Kersey's Hoover Lease, located in Section 32, T-17S, R-32E.

The following agreements are in the process of being negotiated:

1. E. C. Donohue - Continental Oil Company - MCA Unit
   The area of expansion during 1967 comprises (1) acreage which is within the participating area; (2) leases operated by Continental Oil Company, which are outside the participating area, and (3) one lease which is operated by E. C. Donohue. We are negotiating with all of these parties to achieve agreement for the waterflood operations to be conducted on a cooperative basis utilizing the same pattern as is being used in the remainder of the waterflood project.
2. Standard Oil Company of Texas
   An agreement has been completed pending final signature for cooperative waterflooding across the common boundaries of Sections 8-17 and 9-16 where properties north of this line are operated by Standard Oil Company of Texas.

It is anticipated that lease line agreements will be negotiated along the perimeter of the participating area as follows:

1. Malmar Unit (Great Western, operator) Section 13, T-17S, R-32E.
2. Sinclair Oil and Gas Company, Section 24, T-17S, R-32E.
3. Standard Oil Company of Texas - Continental Oil Company - MCA Unit, Sections 14, 15, 22, and 23, T-17S, R-32E.

As the waterflood project has been expanded, the gas injection program has been curtailed. It is anticipated that the gas injection program will be discontinued when the waterflood is expanded to incorporate the entire participating area.

Operator believes that developments to date and our proposed method of expansion constitute a logical plan of further operation. It is respectfully requested that the proposed plan be approved.

L. P. THOMPSON, Chairman
Operators Committee
Maljamar Cooperative Agreement

LPT-JS

Approved Dec. 7, 1961

Secretary

NEW MEXICO OIL CONSERVATION COMMISSION

11-3-67