

Allocation Plan for December, 1962
 Graham and Son Angus Township

EXHIBIT NO.

Company Lease	Well	S. T. & R.	Choice	Hours	Prod.	Gas Vol.	GOR	Dec.	Void Space	Marginal	Acreeage	Space	Current	Pa
8-Well No.	Unit				bpd	MG/Day	CU/D	1962	Factor	Allow.	Allow.	Allow.	Allow.	
Company Total (29)														
Simon A														
1	A	29-17-32	32/64	7-15	43	212.5	4428	640	.052	-	10	24	34	
2	B	"	32/64	12-00	23	60.7	3510	602	.086**	-	10	13	23	
3	C	"	32/64	11-00	57	321.5	5642	357	.026	-	10	12	22	
4	D	"	32/64	12-00	22	116.5	5294	326	.025**	-	10	12	22	
5	E	"	P	24-00	15	16.3	1088	621	-	15	10	15	15	
6	F	"	32/64	9-00	35	56.0	1600	624	.185**	-	10	25	35	
7	G	30-17-32	32/64	14-00	50	177.7	3554	641	.080*	-	10	24	34	
8	H	"	32/64	1-30	10	107.0	5940	640	.054*	-	10	13	23	
9	I	"	32/64	7-00	27	81.9	5276	628	.054**	-	10	13	23	
10	J	"	32/64	7-00	15	31.0	5400	620	-	15	10	15	15	
11	K	"	32/64	4-00	9	47.9	5260	621	.019**	-	10	19	29	
12	L	"	32/64	1-00	3	104.0	3367	621	.019**	-	10	19	29	
13	M	31-17-32	32/64	11-00	24	3.8	1272	624	.054**	-	10	14	24	
14	N	29-17-32	32/64	11-00	24	3.8	6247	624	.054**	-	10	14	24	
15	O	"	32/64	12-00	4	229.9	14077	624	.054**	-	10	14	24	
16	P	"	32/64	7-00	2	130.9	1039	624	.016**	-	10	14	24	
17	Q	"	32/64	3-20	30	80.5	5383	624	.054**	-	10	14	24	
18	R	"	32/64	3-00	17	45.9	3060	624	.054**	-	10	14	24	
19	S	"	32/64	3-00	6	198.2	3000	624	.054**	-	10	14	24	
20	T	"	32/64	5-00	45	120.1	3793	624	.054**	-	10	14	24	
21	U	"	32/64	5-00	20	24.6	1230	624	.054**	-	10	14	24	
22	V	30-17-32	P	24-00	16	27.4	1910	624	.054**	-	10	14	24	
23	W	"	32/64	2-00	13	16.8	1296	624	.054**	-	10	14	24	
24	X	"	32/64	12-00	44	145.9	3947	624	.054**	-	10	14	24	
25	Y	"	32/64	2-15	23	65.7	2856	623	.096**	-	10	14	24	
26	Z	"	32/64	6-00	34	71.5	2102	402	.083**	-	10	14	24	
27	AA	"	32/64	7-00	29	162.4	5600	462	.033	-	10	15	25	
28	AB	"	P	24-00	12	47.0	392	462	-	12	11	15	12	
29	AC	"	32/64	2-30	11	33.8	3072	462	-	11	180	369	696	
Simon B														
1	A	30-17-32	P	24-00	16	27.4	1910	624	.054**	-	10	14	24	
2	B	"	32/64	2-00	13	16.8	1296	624	.054**	-	10	14	24	
3	C	"	32/64	12-00	44	145.9	3947	624	.054**	-	10	14	24	
4	D	"	32/64	2-15	23	65.7	2856	623	.096**	-	10	14	24	
5	E	"	32/64	6-00	34	71.5	2102	402	.083**	-	10	14	24	
6	F	"	32/64	7-00	29	162.4	5600	462	.033	-	10	15	25	
7	G	"	P	24-00	12	47.0	392	462	-	12	11	15	12	
8	H	"	32/64	2-30	11	33.8	3072	462	-	11	180	369	696	
Continental Oil Company														
Baish A														
1	A	21-17-32	P	24-00	1	70	1482	717	.184**	-	10	34	44	
2	B	"	24-00	22	22	22	182	717	.184**	-	10	34	44	
3	C	"	24-00	44	44	80	1823	717	.184**	-	10	34	44	
4	D	"	24-00	8	8	16.3	2040	717	.184**	-	10	34	44	
5	E	"	24-00	10	10	286.6	4700	717	.184**	-	10	34	44	
6	F	"	24-00	35	35	104.4	8180	717	.184**	-	10	34	44	
7	G	"	P	24-00	13	2.3	8037	717	.184**	-	10	34	44	
8	H	"	24-00	13	13	26.1	277	717	.184**	-	10	34	44	
9	I	22-17-32	24-00	35	35	157	5194	717	.184**	-	10	34	44	
10	J	21-17-32	24-00	27	27	97	3207	717	.184**	-	10	34	44	
11	K	"	24-00	8	8	157	3207	717	.184**	-	10	34	44	
12	L	"	24-00	13	13	146	3333	717	.184**	-	10	34	44	
13	M	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
14	N	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
15	O	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
16	P	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
17	Q	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
18	R	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
19	S	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
20	T	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
21	U	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
22	V	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
23	W	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
24	X	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
25	Y	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
26	Z	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
27	AA	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
28	AB	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	
29	AC	"	24-00	24	24	22.5	2270	717	.184**	-	10	34	44	

Company, Lease & Well No.	Well No.	Unit	S.P. & R.	Choke	Hours	Production Tests			Oct. Press.	Void Space		Marginal Allow.	Average Allow.	Void Space Allow.		Current Allow.	Remarks
						Prod. BPD	Gas Vol. MCF/Day	Oil CF/B		Factor	Factor						
Continental Oil Company (15)	21	K	21-17-32	24/64	24-00	19	161	8523	523	.026**		15	5	12	17		
	21	R	21-17-32	32/64	24-00	15	53	3532	861			20	-	-	15		
	24	R	22-17-32	24/64	24-00	20	126	6300	553			17	-	-	20		
	2	D	"	24/64	24-00	14	90.7	5335	522			-	-	-	17		
	3	J	"	24/64	3-12	14	153.8	3495	610	.077*		-	-	34	14		
	4	M	"	26/64	24-00	35	142	4057	530	.056**		-	10	25	35		
	5	P	21-17-32	24/64	24-00	17	238	14,000	671			17	-	-	17		
	6	O	"	24/64	24-00	15	43.3	8660	400			11	-	-	11		
	8	T	"	24/64	24-00	11	17.9	1427	430			11	-	-	11		
	9	T	"	26/64	24-00	11	17.9	1427	430			11	-	-	11		
Hudson King B	10	R	"	26/64	24-00	11	13.4	1145	404			11	-	-	11		
	11	R	"	"	24-00	11	16.7	1356	404			11	-	-	11		
	12	R	"	"	24-00	11	12.8	1267	4267			11	-	-	11		
	13	R	"	"	24-00	11	25.0	4237	4237			11	-	-	11		
	14	R	"	"	24-00	11	17.6	5867	1425			11	-	-	11		
	15	R	"	"	24-00	11	32.2	1425	1425			11	-	-	11		
	16	R	"	"	24-00	11	9.9	3300	3300			11	-	-	11		
	17	R	"	"	24-00	11	6.4	3200	3200			11	-	-	11		
	18	R	"	"	24-00	11	12.7	1056	611			12	-	-	12		
	19	R	"	"	24-00	12	172.1	14,340	600			12	-	-	12		
Miller A	10	M	23-17-32	32/64	24-00	18	201.1	11,171	100			18	-	-	18		
	12	M	"	"	24-00	11	6.5	6500	100			11	-	-	11		
	13	M	"	"	24-00	11	71.4	7930	100			11	-	-	11		
	14	M	"	"	24-00	11	26	2888	100			11	-	-	11		
	15	M	"	"	24-00	11	5.6	1867	100			11	-	-	11		
	16	M	"	"	24-00	11	1.4	233	10,240			11	-	-	11		
	17	M	"	"	24-00	11	30.7	2105	100			11	-	-	11		
	18	M	"	"	24-00	11	37.9	4350	100			11	-	-	11		
	19	M	"	"	24-00	11	5.8	290	100			11	-	-	11		
	20	M	"	"	24-00	11	4.98	493	100			11	-	-	11		
Miller BX	1	P	14-17-32	32/64	24-00	20	27.0	5795	989	.070**		14	-	-	14		
	2	P	"	"	24-00	11	22.2	888	100			11	-	-	11		
	3	P	"	"	24-00	11	61.5	10,250	100			11	-	-	11		
	4	P	"	"	24-00	11	98.5	3078	100			11	-	-	11		
	5	P	"	"	24-00	11	22	956	100			11	-	-	11		
	6	P	"	"	24-00	11	23.9	1590	100			11	-	-	11		
	7	P	"	"	24-00	11	81	1840	759	.185*		14	-	-	14		
	8	P	"	"	24-00	11	35.7	2550	786	.088*		14	-	-	14		
	9	P	"	"	24-00	11	194.3	4048	811	.047**		14	-	-	14		
	10	P	"	"	24-00	11	172	6880	728			14	-	-	14		
Miller AX	11	P	"	"	24-00	11	87	4578	400			14	-	-	14		
	12	P	"	"	24-00	11	43.1	7187	362			14	-	-	14		
	13	P	"	"	24-00	11	TSTM	-	391	.980*		14	-	-	14		
	14	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	15	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	16	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	17	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	18	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	19	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	20	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
Miller B	1	P	14-17-32	32/64	24-00	20	30.7	2105	100			14	-	-	14		
	2	P	"	"	24-00	11	37.9	4350	100			14	-	-	14		
	3	P	"	"	24-00	11	5.8	290	100			14	-	-	14		
	4	P	"	"	24-00	11	4.98	493	100			14	-	-	14		
	5	P	"	"	24-00	11	27.0	5795	989	.070**		14	-	-	14		
	6	P	"	"	24-00	11	22.2	888	100			14	-	-	14		
	7	P	"	"	24-00	11	61.5	10,250	100			14	-	-	14		
	8	P	"	"	24-00	11	98.5	3078	100			14	-	-	14		
	9	P	"	"	24-00	11	22	956	100			14	-	-	14		
	10	P	"	"	24-00	11	23.9	1590	100			14	-	-	14		
Miller BX	11	P	"	"	24-00	11	81	1840	759	.185*		14	-	-	14		
	12	P	"	"	24-00	11	35.7	2550	786	.088*		14	-	-	14		
	13	P	"	"	24-00	11	194.3	4048	811	.047**		14	-	-	14		
	14	P	"	"	24-00	11	172	6880	728			14	-	-	14		
	15	P	"	"	24-00	11	87	4578	400			14	-	-	14		
	16	P	"	"	24-00	11	43.1	7187	362			14	-	-	14		
	17	P	"	"	24-00	11	TSTM	-	391	.980*		14	-	-	14		
	18	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	19	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	20	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
Miller AX	1	P	14-17-32	32/64	24-00	20	30.7	2105	100			14	-	-	14		
	2	P	"	"	24-00	11	37.9	4350	100			14	-	-	14		
	3	P	"	"	24-00	11	5.8	290	100			14	-	-	14		
	4	P	"	"	24-00	11	4.98	493	100			14	-	-	14		
	5	P	"	"	24-00	11	27.0	5795	989	.070**		14	-	-	14		
	6	P	"	"	24-00	11	22.2	888	100			14	-	-	14		
	7	P	"	"	24-00	11	61.5	10,250	100			14	-	-	14		
	8	P	"	"	24-00	11	98.5	3078	100			14	-	-	14		
	9	P	"	"	24-00	11	22	956	100			14	-	-	14		
	10	P	"	"	24-00	11	23.9	1590	100			14	-	-	14		
Miller B	11	P	"	"	24-00	11	81	1840	759	.185*		14	-	-	14		
	12	P	"	"	24-00	11	35.7	2550	786	.088*		14	-	-	14		
	13	P	"	"	24-00	11	194.3	4048	811	.047**		14	-	-	14		
	14	P	"	"	24-00	11	172	6880	728			14	-	-	14		
	15	P	"	"	24-00	11	87	4578	400			14	-	-	14		
	16	P	"	"	24-00	11	43.1	7187	362			14	-	-	14		
	17	P	"	"	24-00	11	TSTM	-	391	.980*		14	-	-	14		
	18	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	19	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		
	20	P	"	"	24-00	11	TSTM	-	-			14	-	-	14		

Company, Lease & Well No.	Well Unit	S.T. & R.	Choke	Hours	Production Tests			Oct. 1962 Press.	Void Space Reciprocal Factor	Marginal Allow.	Acreage Allow.	Void Space Allow.	Current Allow.	R
					Prod. BPD	Gas Vol. MCF/Day	GOR CF/B							
Continental Oil Company (continued)														
Pearl B	17	L	P	24-00	54	53.9	997	472	.215*	-	10	34	44	M
	18	F	P	24-00	2	TSTM				2	-		2	M
	19	C	P	24-00	3	11.3	3770			3	-		3	M
	21	I	P	24-00	11	36.5	3318	587	-	11	-		11	M
	23	K	P	24-00	14	61.6	4400	625	-	14	-		14	M
(9) (14) Pearlsall A	3	E	P	2-00	2	11.9	5950			2	-		2	M
	4	C	P	6-00	10	53.9	5890	3-2	-	10	-		10	M
	5	D	P	6-00	10	100.0	6250	3-2	-	10	-		10	M
	6	A	P	8-00	10	125.2	520	4-6	-	10	-		10	M
	7	B	P	7-00	12	TSTM				-	-		12	M
(14)	12	F	P	24-00	22	112	5090	288	.023**	-	10	11	21	M
	13	G	P	1-00	2	13.4	6000			2	-		2	M
	14	H	P	1-00	2	13.5	1990			2	-		2	M
	15	I	P	1-00	3	1.3	163	4-6	-	3	-		3	M
	16	J	P	2-00	9	TSTM				9	-		9	M
(9) Pearlsall B Pearlsall HX Pearlsall HXV	1	D	P	2-30	10	996	9900	362	-	10	-		10	M
	2	F	P	24-00	9	TSTM				9	-		9	M
	3	A	P	6-40	24	166.6	6942	445	.028**	-	10	13	23	M
	4	D	P	6-40	43	155.4	3614	698	.084**	-	10	33	43	M
	5	G	P	24-00	39	66.0	1590	621	.153**	-	10	29	39	M
(37) Queen B	6	I	P	24-00	33	90.9	2760	682	.132*	-	10	28	33	M
	7	F	P	24-00	19	174.9	4465	675	.069**	-	10	22	19	M
	8	G	P	24-00	44	114.7	1290	710	.134*	-	10	34	44	M
	9	I	P	6-00	36	138.3	3842	806	.075**	-	10	26	36	M
	10	C	P	24-00	34	109.3	3214	839	.116**	-	10	24	34	M
(14) Pearlsall B	12	K	P	24-00	19	60.2	3180	734	-	19	-		19	M
	13	P	P	24-00	35	81.4	2325	751	.140**	-	10	25	35	M
	14	D	P	3-00	30	86.3	2870	599	.090**	-	10	20	30	M
	15	E	P	4-00	42	158.1	3764	776	.088**	-	10	32	42	M
	16	F	P	6-00	35	271.1	7747	749	.042**	-	10	19	29	M
(14) Pearlsall B	17	P	P	24-00	36	65.8	1826	631	.151**	-	10	26	36	M
	18	N	P	24-00	39	174.4	4470	740	.072**	-	10	29	39	M
	19	L	P	24-00	26	200	7727	676	.035**	-	10	16	26	M
	20	A	P	24-00	32	101.3	2459	800	.140**	-	10	32	42	M
	21	G	P	2-40	44	121	2750	549	.086**	-	10	34	44	M
(14) Pearlsall B	22	M	P	4-48	32	144	6000	802	.078**	-	10	22	32	M
	23	L	P	24-00	44	198	1697	608	.052**	-	10	24	34	M
	24	K	P	24-00	29	41.0	894	735	.382*	-	10	19	29	M
	25	J	P	24-00	37	14.3	493	740	.680**	-	10	19	29	M
	26	I	P	24-00	37	89.8	2425	507	.092**	-	10	27	37	M
(14) Pearlsall A	27	M	P	24-00	34	87.8	2580	610	.104**	-	10	24	34	M
	28	P	P	24-00	25	67.7	2708	433	.067**	-	10	15	25	M
	29	O	P	24-00	46	33.2	1750	425	-	19	-		19	M
	30	N	P	24-00	43	78.3	1701	579	.148*	-	10	34	44	M
	31	M	P	24-00	43	190.3	4394	867	.086**	-	10	33	43	M
(5) Queen B	32	O	P	24-00	40	157.9	3946	728	.081**	-	10	30	40	M
	33	E	P	24-00	43	39.8	926	867	.400*	-	10	31	43	M
	34	J	P	24-00	43					-	-		43	M
	35	J	P	24-00	43					-	-		43	M
	36	J	P	24-00	43					-	-		43	M

Company, Lease & Well No.		Well Unit	S.T. & F.	Choke	Hours	Production Tests			Oct. 1962	Well Space	Marginal	Acres	Space	Current	Re-
						Prod. PPD	Gas Vol. MCF/Day	GOR CF/B	Press.	Factor	Allow.	Allow.	Allow.	Allow.	Bo-
Continental Oil Company (continued)															
Sears A		1	D	26-17-32	P	13	58	4540	338	-	13	-	-	13	MM
		2	C	"	P	13	66.2	5246	612	-	13	-	-	13	MM
State A		1	D	16-17-32	P	14	6.6	473		-	14	-	-	14	MM
State B		1	O	"	P	10	8.6	860		-	10	-	-	10	MM
		3	J	"	P	9	59.1	6560		-	9	-	-	9	MM
		4	G	"	P	2	10314			-	2	-	-	2	MM
		5	L	"	P	4	1000			-	4	-	-	4	MM
		6	B	"	P	2	89	11125		-	2	-	-	2	MM
		7-X	H	"	P	2	23.4	2600		-	2	-	-	2	MM
		8	A	"	P	2	25.7	3250		-	2	-	-	2	MM
State O		1	H	"	P	3	25.7	6567		-	3	-	-	3	MM
		2	H	"	P	3	24.00	4200		-	3	-	-	3	MM
		3	H	"	P	5	21	2700		-	5	-	-	5	MM
		6	D	"	P	3	8.1	1400		-	3	-	-	3	MM
A. C. Taylor		1	C	14-17-32	P	16	1.7	1400		-	16	-	-	16	MM
		2	M	"	P	9	231	4327	588	.151**	9	-	-	9	MM
		3	L	"	P	21	8.7	965	893		21	-	-	21	MM
		4	N	"	P	19	52.7	2507		-	19	-	-	19	MM
Williams A		1	K	"	P	8	26.7	1403		-	8	-	-	8	MM
Company Total (180)			L	23-17-32	Open	3344	29.2	3650	427	-	344	-	-	3292	MM
				32/64											
				32/64											
				32/64											
Drilling & Exploration															
Johns A		1	A	26-17-32		6	4.0	667	622	-	6	-	-	6	MM
		2	H	"	P	24	36.8	1535		.182**	6	-	-	24	MM
Company Total (2)						30						-	-	30	
Fair Oil Company															
Baish B		1	D	22-17-32		25	41.2	1650	418	.112**	-	10	-	15	MM
		2	H	27-17-32		20	25.0	1250	416	-	20	-	-	20	MM
		3	B	"		12	22.8	1900	502	-	12	-	-	12	MM
		4	G	22-17-32		13	110	8450	496	-	13	-	-	13	MM
		5	I	"		12	37.8	3150		-	12	-	-	12	MM
Johns A		1	G	26-17-32		24	26.4	1100	431	.180**	-	10	-	14	MM
		2	B	"		14	44.8	1200		-	14	-	-	14	MM
Johns B		1	J	"		24	87.0	1625	526	.060**	-	10	-	24	MM
Company Total (8)						114				.352	71	-	-	114	
Sears Et Al															
Miller A		1	L	26-17-32		24	75.6	3150	792	.110**	-	10	-	24	MM
		2	M	"		30	19.5	650	633	.458**	-	10	-	20	MM
		4	K	"		10	12.5	1250	707	-	10	-	-	10	MM
		5	N	"		24	40.8	1700	676	.171**	-	10	-	14	MM
Company Total (4)						88				.739	10	-	-	88	
B. G. Woods															
Simon A		1	B	29-17-32		32	122	3795	610	.070**	-	10	-	22	MM
		2	G	"		34	75	2235	637	.124**	-	10	-	24	MM
Simon B		1	A	30-17-32		38	150	3927	611	.068**	-	10	-	28	MM
		2	H	"		33	132	3980	631	.069**	-	10	-	23	MM
Company Total (4)						137					0	-	-	97	137

Company, Lease & Well No.	Well Unit	S. T. & R.	Choke	Hours	Production Tests			Date 1962	Void Space Reciprocal Factor	Marginal Allow.	Acreage Allow.	Space Allow.	Current Allow.	Remarks
					Prod. BPD	Gas Vol. MCF/Day	GOR CU/B							
Field Total					4495				16.035	117%	970	2268	4387	

Field Total

(227)

4495

16.035

1177

970

2268

4387

* Top Allowable Wells
of wells which do not have any allowable according to latest available logs.
Wells allowable cut because sum of allowables would exceed unit allowable

Requested Recommendation for December, 1962			10007 BOPD
Marginal Wells	125		1377 BOPD
Total Acreage Allowable	97 Units		970 BOPD
Void Space Allowable	99 Wells		2268 BOPD
Top Allowable Wells	20		800 BOPD
Shut-in Wells	1		0
Field Total	227 Wells Producing		4387 BOPD

WITJAN CONTEMPORARY

Allocation Plan for November, 1962
Greyhounds and San Andres Hottel

EXHIBIT NO 9

Company, Lease & Well No.	Well Unit	S.T. & R.	Choke	Hours	Prod. BPD	Gas Vol. MCF/DAY	GOM CF/B	Net, 1992 Press.	Void Space Reciprocal Factor	Agreeage Allowable	Calculated Void Space Allowable	Trans- ferable Allowable	Transferred Allowable Received	Current Allowable	
Carpenter Drilling Company Simon A	A	29-17-32	32/64	7-17	43	212.5	4426	540	.052	10	18			20	
	H	"	32/64	12-00	23	80.7	3510	592	.086	10	30			23	
	K	"	32/64	14-00	57	321.5	5642	339	.026	10	9			19	
	L	"	32/64	12-00	22	116.5	5294	328	.025	10	9			19	
	M	"	32/64	24-00	15	16.3	1088	621	.260	10	34			15	
	N	"	32/64	9-00	35	56.0	1600	584	.185	10	34			35	
	B	30-17-32	32/64	14-00	50	147.7	3554	651	.060	10	28			38	
	G	"	32/64	6-30	18	107.8	5990	642	.047	10	16			18	
	I	"	32/64	7-00	25	81.9	3276	438	.055	10	19			25	
	K	"	32/64	5-00	15	81.0	8400	398	.030	10	11			15	
Simon B	M	"	32/64	4-00	9	47.3	5260	411	.049	9	17			9	
	N	"	32/64	7-00	29	104.0	3587	411		10	17			27	
	C	31-17-32	32/64	24-00	3	3.8	1271	662	.045	3	16			27	
	C	29-17-32	32/64	11-00	26	162.2	6237	636	.055	10	19			29	
	D	"	32/64	12-00	46	229.0	4977	570	.048	10	17			29	
	F	"	32/64	7-00	22	110.9	5039	512	.084	10	29			30	
	E	"	32/64	3-20	30	80.5	2683	571	.082	10	28			15	
	I	"	32/64	3-00	15	45.9	3060	621	.090	10	31			14	
	P	"	32/64	5-00	66	198.2	3000	443	.068	10	24			34	
	T	"	32/64	6-40	43	120.1	2793	520	.210	10	31			20	
Simon R	J	30-17-32	32/64	7-00	20	27.4	1710	332	.088	10	34			16	
	D	"	32/64	2-00	13	16.8	1296	504	.054	10	19			13	
	T	"	32/64	2-00	48	155.9	3247	407	.096	10	33			23	
	F	"	32/64	2-15	23	65.7	2656	402	.083	10	32			34	
	E	"	32/64	6-00	34	71.5	2102	462	.033	10	12			22	
	P	"	32/64	7-00	29	162.4	5600	392	.500	10	34			12	
	F	"	32/64	2-30	11	33.8	3072		.066	10	23			11	
	O	"	32/64							202	638			651	
	Company Total (23)														
	Continental Oil Company Baish A	A	21-17-32	P	24-00	1	70	1469	717	.151	1	34			1
C		"	P	24-00	47	82	1782	689	.190	10	34			47	
H		"	P	24-00	44	80	1823	748	.190	10	34			44	
G		"	P	24-00	8	16.3	2040	548	.046	8	16			8	
J		"	P	24-00	10	17	1700	666	.027	10	10			10	
F		"	P	24-00	35	286.6	8180	658	.046	10	16			35	
D		22-17-32	P	24-00	13	104.4	8033	526	.700	10	34			13	
D		21-17-32	P	24-00	5	2.3	177	615	.027	5	10			5	
M		"	Open	24-00	36	28.1	5620	551	.045	10	16			36	
N		"	24/64	24-00	27	187	5194	594	.051	10	18			27	
(21)		"	32/64	8	86.6	3207	399		10	1			8		
	"	"	32/64	15	157	19,625	486		0	0			22		
	"	"	32/64	16	148	12,333	474		0	0			44*		
	"	"	32/64	20	54.5	2270	796	.153	10	34			20		

Company, Lease & Well No.	Well Unit	S.T. & R.	Trans- ferable Allowable	Transferred Allowable Received	Current Allowable
Continental Oil Company (continued)					
Hudson King B	(17)	21	29		14
	21	21-17-32			15
	24	22-17-32	7		20
	2	"	6		20
	3	"	7		27
	4	"			30
	5	"			30
	6	"			30
	7	"			30
	8	"			30
Miller A	9	21-17-32	1		17
	10	22-17-32			22
	11	"			22
	12	"			22
	13	"			22
	14	"			22
	15	"			22
	16	"			22
	17	"			22
	18	"			22
Miller AX	19	15-17-32			15
	20	17-17-32			17
	21	18-17-32			18
	22	19-17-32			19
	23	20-17-32			20
	24	21-17-32			21
	25	22-17-32			22
	26	23-17-32			23
	27	24-17-32			24
	28	25-17-32			25
Miller B	29	26-17-32			26
	30	27-17-32			27
	31	28-17-32			28
	32	29-17-32			29
	33	30-17-32			30
	34	31-17-32			31
	35	32-17-32			32
	36	33-17-32			33
	37	34-17-32			34
	38	35-17-32			35
Miller BX	39	36-17-32			36
	40	37-17-32			37
	41	38-17-32			38
	42	39-17-32			39
	43	40-17-32			40
	44	41-17-32			41
	45	42-17-32			42
	46	43-17-32			43
	47	44-17-32			44
	48	45-17-32			45
Michell A	49	46-17-32			46
	50	47-17-32			47
	51	48-17-32			48
	52	49-17-32			49
	53	50-17-32			50
	54	51-17-32			51
	55	52-17-32			52
	56	53-17-32			53
	57	54-17-32			54
	58	55-17-32			55

Company, Lease & Well No.	Well Unit	S.T. & R. (continued)	Coke	Hours	Production, Bbls			Oct. 1962	Void Space Factor	Calculated Void Space	Trans- ferrable	Transferred Allowable	Current Allowable
					Prod.	Gas Vol.	Oil						
Continental Oil Company					BPD	MMcf/Day	CU/S	Pres.		Allowable	Allowable	Allowable	Allowable
Mitchell B	14	19-17-12	24/64	24-00	3	142	17,344	820	.196	0	44*		81
	15	"	24/64	24-00	1	74	74,000	669	.196	0	44*		81
	16	20-17-32	24/64	24-00	20	30	1500	759	.180	10	24		20
	17	"	24/64	24-00	40	73	1825	703	.240	10	34		40
	18	"	24/64	24-00	47	61.2	1302	798	.420	10	34		47
	1	"	24/64	24-00	49	41.2	841	492	.019	10	7		17
	2	"	24/64	24-00	47	47.3	10,580	801	.036	10	30		17
	3	"	24/64	24-00	35	141.5	4042	669	.164	10	34		35
	4	"	24/64	24-00	20	72.6	1815	613	.025	10	10		20
	5	"	24/64	24-00	26	254.6	9092	471	.042	10	15		20
	6	"	24/64	24-00	25	71.5	4763	792	.099	10	34		15
	7	"	24/64	24-00	47	163.9	3490	694	.101	10	34		47
	8	"	24/64	24-00	30	67.3	2820	801	.184	10	34		30
	9	19-17-32	24/64	24-00	44	87.5	1901	760	.068	10	31		46
	10	"	24/64	24-00	44	164.5	3740	680	.168	10	34		41
Nichols B	11	"	24/64	24-00	25	118.1	4725	767	.070	10	24		45
	12	"	24/64	24-00	25	71.4	2380	777	.139	10	34		25
	13	"	24/64	24-00	30	222.7	7422	600	.034	10	12		30
	14	"	24/64	24-00	30	58.7	2040	700	.030	10	11		11
	15	"	24/64	24-00	11	15.5	902	535	.451	10	34		22
	16	17-17-32	24/64	24-00	13	15.6	1213	535	.198	10	34		13
	18	"	24/64	24-00	3	32.5	10,830	172		10	44*		7
	25	"	24/64	24-00	7	12.9	443			10	44*		10
	29	"	24/64	24-00	10	12.1	1210			4	44*		4
	30	18-17-32	24/64	24-00	4	7.8	1950			4	44*		4
	31	"	24/64	24-00	9	4.4	1200			9	44*		9
	32	17-17-32	24/64	24-00	2	12.9	1433	695		0	44*		31
	34	17-17-32	24/64	24-00	2	20	6507			0	44*		31
	37	18-17-32	24/64	24-00	5	14.5	2900			5	44*		5
	39	"	24/64	24-00	5	31.2	6240			5	44*		5
Pacifi H	1	17-17-32	24/64	24-00	6	85.3	14,216	327		0	44*		61
	2	19-17-32	24/64	24-00	9	10.5	1166	348	.066	10	23		19
	3	"	24/64	24-00	19	84	4421	471		8	14		8
	4	"	24/64	24-00	8	10.4	1300	349	.080	10	34		23
	5	"	24/64	24-00	23	6.5	262	359	.094	10	33		23
	6	"	24/64	24-00	17	44	2588			2	34		17
	7	"	24/64	24-00	2	1.0	500			10	14		2
	8	"	24/64	24-00	30	151M		540	.980	10	17		30
	9	"	24/64	24-00	44	64	1451	683	.207	10	17		44
	10	"	24/64	24-00	10	9	900	734		2	17		10
	11	30-17-32	24/64	24-00	3	151M		294	.055	5	17		6
	12	"	24/64	24-00	13	14.1	6076	776	.169	10	34		13
	13	25-17-32	24/64	24-00	34	39.0	1150	451		10	34		34
	15	"	24/64	24-00	25	21	840	340	.195	10	19		25
	16	"	24/64	24-00	25	21				10	19		25

22

1

2

3

3

Company, Lease & Well No.	Well No.	Company (continued)	Unit S, T, & R.	Choke	Hours	Production Tests			Oct. 1962 Press.	Void Space		Calculated Void Space	Trans-		Transferred Allowable	Current Allowable
						Prod.	Gas Vol.	Oil		Factor	Factor		Allowable	Allowable		
Pearsall B	17	P	25-17-32	P	24-00	54	53.9	997	472	.215		34				54
	18		30-17-32	P	24-00	2	11.3	3770				2			10	2
	19		"	P	24-00	3	11.3	3770				3				3
	20		25-17-32	P	24-00	14	36.5	3338	497	.076		26		20		14
	21		"	P	24-00	14	61.6	4440	695	.062		17		8		14
	22		33-17-32	P	24-00	2	11.9	5950				2				2
	23		"	P	24-00	10	53.9	5390	342	.018		7		1		10
	24		"	P	24-00	16	100.0	6250	295					44*		10
	25		"	P	24-00	10	125.2	12,520	466	.980		17		10		10
	26		"	P	24-00	22	112	5090	288	.023		3				10
(14)	12	P	"	P	24-00	2	13.4	6700								12
	13		"	P	24-00	2	3.5	1750								13
	14		"	P	24-00	8	1.3	163	960							14
	15		"	P	24-00	9	1.3	163	532							15
	16		"	P	24-00	9	1.3	163	532							16
	17		"	P	24-00	9	1.3	163	532							17
	18		"	P	24-00	9	1.3	163	532							18
	19		"	P	24-00	9	1.3	163	532							19
	20		"	P	24-00	9	1.3	163	532							20
	21		"	P	24-00	9	1.3	163	532							21
(8)	14	P	34-17-32	P	24-00	24	166.6	6942	445	.026		10				10
	15		"	P	24-00	24	155.4	3614	698	.084		29				29
	16		"	P	24-00	24	65.0	1690	691	.163		34				34
	17		"	P	24-00	24	50.9	2780	692	.138		17				17
	18		"	P	24-00	24	174.9	5465	695	.065		24				24
	19		"	P	24-00	24	123.6	1250	710	.252		34				34
	20		"	P	24-00	24	114.7	2606	806	.134		26				26
	21		"	P	24-00	24	138.3	3842	664	.075		34				34
	22		"	P	24-00	24	109.3	3214	839	.116		26				26
	23		"	P	24-00	24	60.2	3180	734	.102		34				34
(37)	13	P	27-17-32	P	24-00	36	81.4	2876	599	.090		34				34
	14		"	P	24-00	36	86.3	2876	599	.090		34				34
	15		"	P	24-00	36	150.1	5764	770	.066		34				34
	16		"	P	24-00	36	271.1	7747	749	.042		15				15
	17		"	P	24-00	36	65.8	1826	631	.151		34				34
	18		27-17-32	P	24-00	36	174.4	4470	740	.072		25				25
	19		"	P	24-00	36	200	7727	676	.037		12				12
	20		"	P	24-00	36	103.3	2459	606	.100		34				34
	21		"	P	24-00	36	121	2750	549	.086		29				29
	22		"	P	24-00	36	144	4750	602	.078		29				29
Queen B	13	P	27-17-32	P	24-00	44	158	4657	740	.056		20				20
	14		"	P	24-00	44	141	4657	740	.056		20				20
	15		"	P	24-00	44	141	4657	740	.056		20				20
	16		"	P	24-00	44	141	4657	740	.056		20				20
	17		"	P	24-00	44	141	4657	740	.056		20				20
	18		"	P	24-00	44	141	4657	740	.056		20				20
	19		"	P	24-00	44	141	4657	740	.056		20				20
	20		"	P	24-00	44	141	4657	740	.056		20				20
	21		"	P	24-00	44	141	4657	740	.056		20				20
	22		"	P	24-00	44	141	4657	740	.056		20				20
(5)	13	P	27-17-32	P	24-00	44	141	4657	740	.056		20				20
	14		"	P	24-00	44	141	4657	740	.056		20				20
	15		"	P	24-00	44	141	4657	740	.056		20				20
	16		"	P	24-00	44	141	4657	740	.056		20				20
	17		"	P	24-00	44	141	4657	740	.056		20				20
	18		"	P	24-00	44	141	4657	740	.056		20				20
	19		"	P	24-00	44	141	4657	740	.056		20				20
	20		"	P	24-00	44	141	4657	740	.056		20				20
	21		"	P	24-00	44	141	4657	740	.056		20				20
	22		"	P	24-00	44	141	4657	740	.056		20				20

Company? Lease & Well No.	Well Unit S.T. & R.	Choke	Hours	Production Tests Prod. BPD	Gas Vol. MCF/Day	GOR CU/F	Oct. 1962 Press.	Void Space Reciprocal Factor	Acres Allowable	Calculated Void Space Allowable	Trans- ferrable Allowable	Transfe Allowa Received
Injection Wells w/allowable available for transfer:												
Conoco-Miller A	IP5										44*	
Conoco-Miller A	IP6										44*	
Conoco-Miller A	IP11										44*	
Conoco-Mitchell B	IP17										44*	
Conoco-King B	IP6										44*	
Total	(5)										220	

Field Total (232)

4495

22.778

1803

3794

2162

89

* Shut-in wells with 100 Allowable Transferred
726 Barrels for 16 1/2 Wells

<i>initial survey & analysis</i>		Requested Nomination for December, 1962		4250 BOPD	
<i>of well tests & all</i>		Marginal Wells		0 BOPD	
<i>has 1/2 prod</i>		Total Acreage Allowable		1803 BOPD	
<i>44% 100% 2/44%</i>		Void Space Allowable		3794 BOPD	
		Transferrable Allowable		2162 BOPD	
		Shut-in Wells		726 BOPD	
		Transferred Allowable Received		89 BOPD	
		Field Total		4250 BOPD	

216 Wells Producing

APR 11 1963

CERTIFICATION - DETERMINATION
SUPPLEMENTAL AND AMENDATORY AGREEMENT
TO MALJAMAR COOPERATIVE AGREEMENT
(SUPPLEMENT NO. 5)

Pursuant to the authority vested in the Secretary of Interior as to Federal Lands, under the Act approved February 25, 1920, 41 Stat. 437, as amended, 30 U.S.C. Secs. 181, et seq., and delegated to the Director of the Geological Survey pursuant to Departmental Order No. 2365 of October 8, 1947, 43 C.F.R. Sec. 4.611, 12 F.R. 6784, I do hereby:

A. Approve the attached Supplemental and Amendatory Agreement to Maljamar Cooperative Agreement (Supplement No. 5) for the development and operation of the Maljamar Cooperative Agreement Participating Area, Lea County, State of New Mexico.

B. Certify and determine that the plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.

C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

APR 30 1963

DATED

William A. Baker
Acting

DIRECTOR, UNITED STATES GEOLOGICAL
SURVEY.

CERTIFICATE OF APPROVAL

BY COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO


SUPPLEMENTAL AND AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(SUPPLEMENT NO. 5)

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, the attached Agreement for the development and operation of agreeage which is described within the attached Agreement, dated July 1, 1962, which has been executed or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the State, with respect to State lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Section 7-11-39, 7-11-40, 7-11-41, 7-11-47, 7-11-48, New Mexico Statutes Annotated 1953 Compilation, I, the undersigned, Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed with seal affixed, this 28 day of January, 1963.


Commissioner of Public Lands
of the State of New Mexico

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10 day of December, 1962.

Janet M. Jacobsen
Janet M. Jacobsen
widow

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * * *

STATE OF New York
COUNTY OF New York

The foregoing instrument was acknowledged before me
this 10th day of December, 1962, by Janet M. Jacobsen

My Commission Expires: _____

Fred C. Edsahl
Notary Public, _____
County, _____

FRED C. EDSOHL
Notary Public, State of New York
No. 301072-00
Qualified in Nassau County
Term Expires March 30, 1963

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 5th day of Dec, 1962.

Malcolm T. Mitchell
Malcolm T. Mitchell

John M. Mitchell

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

STATE OF New York
COUNTY OF Warren

The foregoing instrument was acknowledged before me
this 5th day of December, 1962 by
Malcolm T. Mitchell John M. Mitchell here bound

My Commission Expires: _____

Fredrick R. Doyle
Notary Public, _____
County, _____

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 26th day of November, 1962.

Margaret M. Ogden
Margaret M. Ogden
R. A. Ogden
R. A. Ogden

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this 26th day of November, 1962, by Margaret M. Ogden & R. A. Ogden, husband and wife

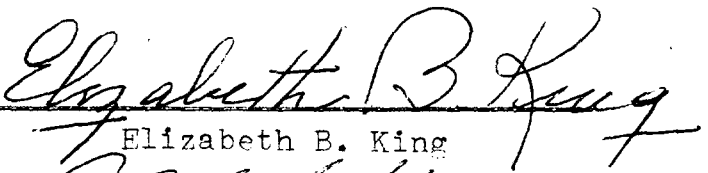
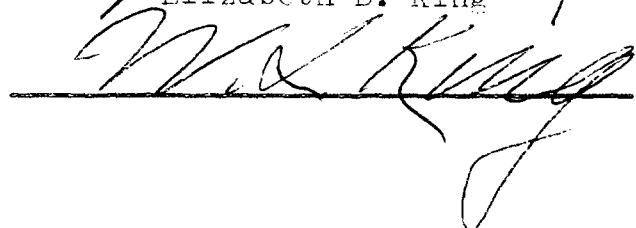
My Commission Expires: _____
My Commission Expires April 1, 1965

Justin J. [Signature]
Notary Public, _____
County, _____

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 8th day of
January, 1963.


Elizabeth B. King


STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____


Notary Public, _____
County, _____

* * * *

STATE OF NEW YORK
COUNTY OF NEW YORK

The foregoing instrument was acknowledged before me
this 8th day of January, 1963, by _____
Elizabeth B. King and W. L. King, husband and wife.

My Commission Expires: _____


Notary Public, _____
County, _____

TERESA J. LUTZ
NOTARY PUBLIC, State of New York
No. 31-243700
Qualified in New York County
Commission Expires March 30, 1963

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 5th day of
February, 1963.

Henry W. Beardsley
Henry W. Beardsley

STATE OF New York
COUNTY OF New York

The foregoing instrument was acknowledged before me
this 5th day of February, 1963, by Henry W. Beardsley
of Beardsley corporation, on behalf of said corporation.

My Commission Expires:
PHILIP ROSMAN
Notary Public, State of New York
No. 03-8662215
Qualified in Bronx County
Commission Expires March 30, 1964

Philip R. Rosman
Notary Public,
County, _____

* * * *

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____

My Commission Expires:

Notary Public,
County, _____

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 3rd day of
December, 1962.

Virginia Simon
Virginia Simon, a widow

STATE OF New Mexico
COUNTY OF Sandoval

The foregoing instrument was acknowledged before me
this 3rd day of December, 1962, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF New Mexico
COUNTY OF Sandoval

The foregoing instrument was acknowledged before me
this 3rd day of December, 1962, by _____
Virginia Simon

My Commission Expires: _____

Luella P. Simon
Notary Public, Sandoval
County, New Mexico

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 18 day of March, 1963.

EL PASO NATIONAL BANK
TRUSTEE OF THE BAISH TRUST ESTATE
By: [Signature]
Trust Officer

STATE OF Texas
COUNTY OF El Paso

The foregoing instrument was acknowledged before me this 18th day of March, 1963, by Th. A. Squier Trust Officer of El Paso National Bank a corporation, on behalf of said corporation.

My Commission Expires: Faye Hartman
FAYE HARTMAN, Notary Public
In and for El Paso County, Texas
My commission expires June 1, 1963
Notary Public, El Paso
County, Texas
* * * *

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____.

My Commission Expires: _____
Notary Public, _____
County, _____.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 2nd day of November, 1962.

Lucretia E. Conlon (unmarried widow)
Lucretia E. Conlon

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

~~STATE OF~~ District of _____
~~COLUMBIA OF~~ Columbia _____

The foregoing instrument was acknowledged before me this 2d day of November, 1962, by Lucretia E. Conlon, an unmarried widow, address Apt. 626, 2900 16th St. N.W. Washington, D. C.

My Commission Expires:
March 16th, 1963

Emmett L. Sheehan
Notary Public, in and on the
County, District of Columbia

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 15th day of November, 1962.

L. Jay Root
L. Jay Root, Separate property

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF New Mexico
COUNTY OF Bernalillo

The foregoing instrument was acknowledged before me
this 15th day of November, 1962, by _____
L. Jay Root

My Commission Expires: _____

Sh. Goodman
Notary Public, Bernalillo
County, N. Mex.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

Charles S. Taubman
CHARLES S. TAUBMAN

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____ Notary Public, _____
County, _____

* * * *

STATE OF New York
COUNTY OF New York

The foregoing instrument was acknowledged before me
this 10 day of December, 1962, by _____
CHARLES S. TAUBMAN

My Commission Expires: March 30, 1962 Notary Public, New York
County, _____

ROBERT D. WEISBERG
Notary Public, State of New York
No. 24-9586600
Qualified in _____ County
Commission Expires March 30, 1967

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of December, 1962.

Janice L. Taubman
JANICE L. TAUBMAN
M. B. Taubman

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES

The foregoing instrument was acknowledged before me this 26 day of December, 1962, by M. B. TAUBMAN of Los Angeles, husband of Janice L. Taubman, a corporation, on behalf of said corporation.

My Commission Expires:
WILMA L. PICKERT
My Commission Expires April 17, 1965

Wilma L. Pickert
Notary Public, Los Angeles
County, California

* * * *

STATE OF California
COUNTY OF Los Angeles

The foregoing instrument was acknowledged before me this 11th day of December, 1962, by JANICE L. TAUBMAN, wife of M. B. Taubman.

My Commission Expires:
WILMA L. PICKERT
My Commission Expires April 17, 1965

Wilma L. Pickert
Notary Public, Los Angeles
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

M. B. Taubman

M. B. Taubman, as custodian for Richard Taubman under the Oklahoma Uniform Gifts to Minors Act

STATE OF California)
COUNTY OF Los Angeles)

The foregoing instrument was acknowledged before me this 16th day of December, 1962, by M. B. Taubman, as custodian for Richard Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:

MY COMMISSION EXPIRES NOV. 3, 1964
A. BLONDELL

Eda D. [Signature]

Notary Public, _____

County, _____

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

M. B. Taubman

M. B. Taubman, as custodian for Anne Taubman under the Oklahoma Uniform Gifts to Minors Act

STATE OF California)
COUNTY OF Los Angeles)

The foregoing instrument was acknowledged before me this 10th day of December, 1962, by M. B. Taubman, as custodian for Anne Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:
NOTARY PUBLIC
My Commission Expires: April 17, 1965

Alma L. Pickett
Notary Public, Los Angeles
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of December, 1962.

Morris B. Taubman
(M. B.) Taubman

Janice L. Taubman

Morris B. Taubman and Janice L. Taubman, Trustees for Richard Taubman under the Richard Taubman Accumulation Trust dated the first day of April, 1959

STATE OF _____
COUNTY OF _____

STATE OF California)
COUNTY OF Los Angeles)

The foregoing instrument was acknowledged before me this 11th day of December, 1962, by Morris B. Taubman and Janice L. Taubman, Trustees for Richard Taubman under the Richard Taubman Accumulation Trust dated the first day of April, 1959

My Commission Expires:
WILMA L. PICKERT
My Commission Expires April 17, 1963

Wilma L. Pickert
Notary Public, Los Angeles
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of
December, 1962.

Morris B. Taubman

Janice L. Taubman

Morris B. Taubman and Janice L. Taubman, Trustees for
Anne Taubman under the Anne Taubman Accumulation Trust
dated the first day of April, 1959

STATE OF California)
COUNTY OF Los Angeles)

The foregoing instrument was acknowledged before me this 11th
day of December, 1962, by Morris B. Taubman and
Janice L. Taubman, Trustees for Anne Taubman under the Anne
Taubman Accumulation Trust dated the 1st day of April 1959

My Commission Expires:
WILMA L. PICKER
My Commission Expires April 17, 1965

Wilma L. Picker
Notary Public, Los Angeles
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

M. I. Taubman
M. I. TAUBMAN

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF Oklahoma
COUNTY OF Tulsa

The foregoing instrument was acknowledged before me
this 10th day of December, 1962, by _____
M. I. TAUBMAN

My Commission Expires: _____

Genevieve M. Scott
Notary Public, Tulsa
County, Oklahoma

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

M. I. Taubman

M. I. Taubman, as custodian for Deborah Taubman under the Oklahoma Uniform Gifts to Minors Act

STATE OF Oklahoma)

COUNTY OF Pulsa)

The foregoing instrument was acknowledged before me this 10th day of December, 1962, by M. I. Taubman, as custodian for Deborah Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:

January 31, 1965

Llewellyn D. Scott
Notary Public, Pulsa
County, Oklahoma

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

M. I. Taubman

M. I. Taubman, as custodian for Elizabeth Taubman under the Oklahoma Uniform Gifts to Minors Act.

STATE OF Oklahoma

COUNTY OF Tulsa

The foregoing instrument was acknowledged before me this 10th day of December, 1962, by M. I. Taubman, as custodian for Elizabeth Taubman under the Oklahoma Uniform Gifts to Minors Act.

My Commission Expires:

January 31, 1965

Genevieve M. Scott

Notary Public, Tulsa

County, Oklahoma

My Commission Expires:

Notary Public, _____
County, _____.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

M. I. Taubman

M. I. Taubman, as custodian for William David Taubman,
under the Oklahoma Uniform Gifts to Minors Act

STATE OF Oklahoma)
COUNTY OF Pulaski)

The foregoing instrument was acknowledged before me this 10th
day of December, 1962, by M. I. Taubman, as custodian for
William David Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:

January 31, 1965

Genevieve M. Scott
Notary Public, Pulaski
County, Oklahoma

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 10th day of December, 1962.

M. I. Taubman

M. I. Taubman, as custodian for Daniel M. Taubman
under the Oklahoma Uniform Gifts to Minors Act

STATE OF Oklahoma)
COUNTY OF Tulsa)

The foregoing instrument was acknowledged before me this 10th
day of December, 1962, by M. I. Taubman, as custodian for
Daniel M. Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:

January 31, 1965

Genevieve M. Scott
Notary Public, Tulsa
County, Oklahoma

County, _____

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of December, 1962.

Louis Taubman
LOUIS TAUBMAN
Ruth L. Taubman

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF California
COUNTY OF Riverside

The foregoing instrument was acknowledged before me
this 11th day of December, 1962, by
LOUIS TAUBMAN and Ruth L. Taubman his wife

My Commission Expires:
My Commission Expires October 3, 1964

Maxine L. (Parker)
Notary Public, Riverside
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of
DECEMBER, 1962.

Louis Taubman
Ruthe S. Taubman
Morris Taubman
Louis Taubman, Ruthe S. Taubman and Morris Taubman,
Trustees of the Ruthe and Louis Taubman Foundation

STATE OF California)
COUNTY OF Riverside)

The foregoing instrument was acknowledged before me this 11th
day of DECEMBER, 1962, by Louis Taubman, Ruthe S. Taubman
and Morris Taubman, Trustees of the Ruthe and Louis Taubman Foundation

My Commission Expires:
My Commission Expires October 3, 1964

Margaret L. Corbett
Notary Public, Riverside
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of
DECEMBER, 1962.

Louis Taubman
Louis Taubman, custodian for Maurine Taubman under
the Oklahoma Uniform Gifts to Minors Act

STATE OF California)
COUNTY OF Riverside)

The foregoing instrument was acknowledged before me this 11th
day of DECEMBER, 1962, by Louis Taubman, custodian for
Maurine Taubman under the Oklahoma Uniform Gifts to Minors Act.

My Commission Expires:

My Commission Expires October 3, 1964

Maurine L. Bell
Notary Public, Riverside
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of
DECEMBER, 1962.

Louis Taubman
Louis Taubman, custodian for Lawrence Taubman under
the Oklahoma Uniform Gifts to Minors Act

STATE OF California)
COUNTY OF Riverside)

The foregoing instrument was acknowledged before me this 11th
day of DECEMBER, 1962, by Louis Taubman, custodian for
Lawrence Taubman under the Oklahoma Uniform Gifts to Minors Act.

My Commission Expires:

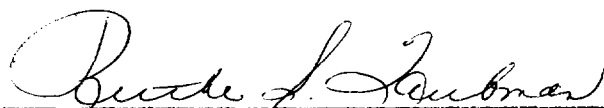
My Commission Expires October 3, 1964

Marjorie L. Poehll
Notary Public, Riverside
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of
DECEMBER, 1962.

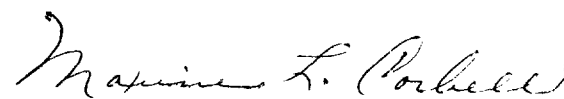


Ruthe S. Taubman, custodian for Lawrence Nathan Taubman under the Oklahoma Uniform Gifts to Minors Act

STATE OF California)
COUNTY OF Riverside)

The foregoing instrument was acknowledged before me this 11th
day of DECEMBER, 1962, by Ruthe S. Taubman, custodian for
Lawrence Nathan Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:
My Commission Expires October 3, 1964


Notary Public, Riverside
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of
DECEMBER, 1962.

Ruthe S. Taubman

Ruthe S. Taubman, custodian for Maurine Taubman under the Oklahoma Uniform Gifts to Minors Act

STATE OF California)
COUNTY OF Riverside)

The foregoing instrument was acknowledged before me this 11th
day of DECEMBER, 1962, by Ruthe S. Taubman, custodian for
Maurine Taubman under the Oklahoma Uniform Gifts to Minors Act.

My Commission Expires:

My Commission Expires October 3, 1964

Margaret L. Corbett
Notary Public, Riverside
County, California

My Commission Expires:

Notary Public, _____
County, _____.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of December, 1962.

Louis Taubman
Ruthe S. Taubman

Louis Taubman and Ruthe S. Taubman, Trustees for
Lawrence Nathan Taubman under the Lawrence Nathan
Taubman Accumulation Trust dated the 5th day of
February, 1960

STATE OF _____

STATE OF (California)
COUNTY OF Riverside

The foregoing instrument was acknowledged before me this 11th
day of December, 1962, by Louis Taubman and Ruthe S. Taubman,
Trustees for Lawrence Nathan Taubman under the Lawrence Nathan Taubman
Accumulation Trust dated the 5th day of February 1960

My Commission Expires:

My Commission Expires October 3, 1964

Marion L. Bell
Notary Public, Riverside
County, California

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of December, 1962.

Louis Taubman

Ruthe S. Taubman

Louis Taubman and Ruthe S. Taubman, Trustees for
Maurine Taubman under the Maurine Taubman Accumulation
Trust dated the 5th day of February, 1960

STATE OF

STATE OF California)

COUNTY OF Riverside)

The foregoing instrument was acknowledged before me this 11th
day of December, 1962, by Louis Taubman and Ruthe S. Taubman,
Trustees for Maurine Taubman under the Maurine Taubman Accumulation Trust dated
the 5th day of February 1960

My Commission Expires:
My Commission Expires October 3, 1964

Margaret L. Corbett
Notary Public, Riverside
County, California

My Commission Expires:

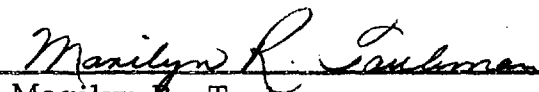
Notary Public, _____
County, _____.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7th day of
December, 1962.


ROBERT M. TAUBMAN


Marilyn R. Taubman

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____


Notary Public, _____
County, _____

* * * *

STATE OF Texas
COUNTY OF Midland

The foregoing instrument was acknowledged before me
this 7th day of December, 1962, by _____
ROBERT M. TAUBMAN and MARILYN R. TAUBMAN, his wife.

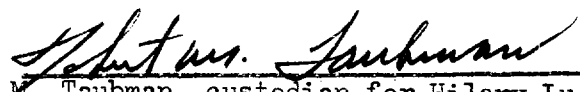
My Commission Expires:
June 1, 1963


Notary Public, Midland
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7th day of
December, 1962.



Robert M. Taubman, custodian for Hilary Lu Taubman
under the Oklahoma Uniform Gifts to Minors Act

STATE OF TEXAS)
COUNTY OF MIDLAND)

The foregoing instrument was acknowledged before me this 7th
day of December, 1962, by Robert M. Taubman, custodian for
Hilary Lu Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:

June 1, 1963



Notary Public, Midland

County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7th day of
December, 1962.

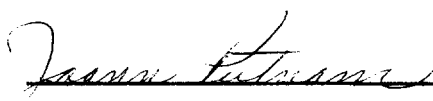

Robert M. Taubman, custodian for Sara Katherine Taubman
under the Oklahoma Uniform Gifts to Minors Act

STATE OF TEXAS)
COUNTY OF MIDLAND)

The foregoing instrument was acknowledged before me this 7th
day of December, 1962, by Robert M. Taubman, custodian for
Sara Katherine Taubman under the Oklahoma Uniform Gifts to Minors Act.

My Commission Expires:


June 1, 1963


Notary Public, Midland
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

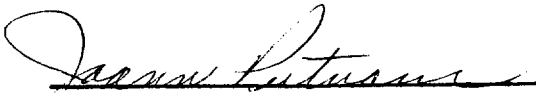
WITNESS the execution hereof this 7th day of
December, 1962.


Robert M. Taubman, custodian for Rebecca Melanie Taubman
under the Oklahoma Uniform Gifts to Minors Act

STATE OF TEXAS)
COUNTY OF MIDLAND)

The foregoing instrument was acknowledged before me this 7th
day of December, 1962, by Robert M. Taubman, custodian
for Rebecca Melanie Taubman under the Oklahoma Uniform Gifts to Minors
Act

My Commission Expires:
June 1, 1963


Notary Public, Midland
County, Texas


My Commission Expires:

Notary Public, _____
County, _____.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7th day of
December, 1962.

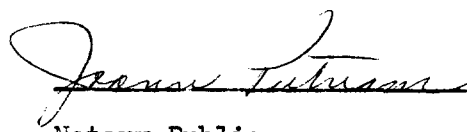

Robert M. Taubman, custodian for Andrea Minda Taubman
under the Oklahoma Uniform Gifts to Minors Act

STATE OF TEXAS)
COUNTY OF MIDLAND)

The foregoing instrument was acknowledged before me this 7th
day of December, 1962, by Robert M. Taubman, custodian for
Andrea Minda Taubman under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:

June 1, 1963


Notary Public, Midland
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 17th day of
DECEMBER, 1962.

Rosalie Taubman Shalom

ROSALIE TAUBMAN SHALOM

David B. Shalom

DAVID B. SHALOM

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

✓ STATE OF Texas
COUNTY OF Dallas

The foregoing instrument was acknowledged before me
this 7th day of Dec., 1962, by _____
ROSALIE TAUBMAN SHALOM AND DAVID B. SHALOM, husband and wife.

My Commission Expires: _____

6-1-63

Robert B. Morrison
Notary Public, Dallas
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7th day of
DECEMBER, 1962.

David B. Shalom
David B. Shalom, custodian for Karen Paula Shalom
under the Oklahoma Uniform Gifts to Minors Act

STATE OF Texas)
COUNTY OF Dallas)

The foregoing instrument was acknowledged before me this 7th
day of Dec., 1962, by David B. Shalom, custodian for
Karen Paula Shalom under the Oklahoma Uniform Gifts to Minors Act

My Commission Expires:

6-1-63

Robert B. Morrison
Notary Public, Dallas
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 17th day of
December, 1962.

Sophia Taubman
SOPHIA TAUBMAN

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF Oklahoma
COUNTY OF Tulsa

The foregoing instrument was acknowledged before me
this 17th day of December, 1962, by _____
SOPHIA TAUBMAN

My Commission Expires: January 31, 1965

Lawrence M. Scott
Notary Public, Tulsa
County, Oklahoma

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 11th day of December, 1962.

Morris
M. B. Taubman
National Bank of Tulsa
by Francis G. Hawkins SP
Sophia Taubman
Sophia Taubman, Morris Taubman and National Bank of Tulsa, Co-executrix and Co-executors of the Estate of Herman Paul Taubman, Deceased

STATE OF Oklahoma)
COUNTY OF Tulsa)

The foregoing instrument was acknowledged before me this 7th day of January, 1963, by Sophia Taubman and National Bank of Tulsa by Francis G. Hawkins Co-executrix and a Co-executor of the Estate of Herman Paul Taubman, Deceased.

My Commission Expires:

January 31, 1965

Genevieve M. Scott
Notary Public, Tulsa
County, Oklahoma

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 28 day of
Nov, 1962.

Ruth D. Lisle

Ruth D. Lisle (widow)

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF New Mexico
COUNTY OF Santa Cruz

The foregoing instrument was acknowledged before me
this 21 day of Nov, 1962, by
Ruth D. Lisle

My Commission Expires: 5/28/63

Harry B. Jarman
Notary Public, Santa Cruz
County, New Mexico

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 28 day of Nov, 1962.

Martha Johns Densmore

Martha Johns Densmore

by Ruth Johns Lisle Atty. in fact

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____
Notary Public, _____
County, _____.

STATE OF New Mex
COUNTY OF Santa Fe

The foregoing instrument was acknowledged before me
this 28 day of Nov, 1962, by Ruth Johns Lisle, Attorney in fact for Martha Johns Densmore
John Densmore

My Commission Expires: 5/24/63
Notary Public, Santa Fe
County, NM.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 28 day of Nov, 1962.

Nancy J. Kent
Nancy J. Kent

By Ruth Day Johns Lisle - Atty-in-fact

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____ Notary Public, _____
County, _____

STATE OF New Mex
COUNTY OF Alameda

The foregoing instrument was acknowledged before me this 28 day of Nov, 1962, by Ruth Day Johns Lisle, Attorney in fact for Nancy J. Kent

My Commission Expires: 5/24/63 Notary Public, Alameda
County, NM

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 28th day of
November, 1962.

J. B. Bockman
J. B. Bockman

Grace B. Bockman

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____
Notary Public, _____
County, _____.

STATE OF New Mexico
COUNTY OF Chaves

The foregoing instrument was acknowledged before me
this 28th day of November, 1962, by _____
J. B. Bockman and Grace B. Bockman, husband and wife.

My Commission Expires:
10-1-64

Shirley (Jimmie) Turner
Notary Public, Chaves
County, New Mexico.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 4th day of December, 1962.

Attest:

J. H. Hauling
TRUST OFFICER

FIRST HUTCHINGS-SEALY NATIONAL BANK
TRUSTEE FOR FRANCES B. MOORE

By: Ernest Stavenhagen Vice President
& Trust Officer

STATE OF Texas
COUNTY OF Galveston

The foregoing instrument was acknowledged before me
this 4 day of December, 1962, by ERNEST STAVENHAGEN
Vice President of First Hutchings-Sealy National Bank of Galveston
a Trust Officer corporation, on behalf of said corporation.

My Commission Expires:

June 1 - 1963

J. Van Benduyse
Notary Public

County, Galveston Texas

* * * *

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____.

My Commission Expires:

Notary Public, _____
County, _____.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 4th day of December, 1962. FIRST HUTCHINGS-SEALY NATIONAL BANK, GDN. OF THE ESTATE OF JOHN KNOX HUTCHINGS MOORE AND DONALD BARTLETT MOORE, MINORS

Attest: [Signature] TRUST OFFICER

By: [Signature] Vice President & Trust Officer

STATE OF Texas
COUNTY OF Galveston

The foregoing instrument was acknowledged before me this 4 day of December, 1962, by ERNEST STAVENHAGEN Vice President of First Hutchings-Sealy National Bank of Galveston a Trust Officer corporation, on behalf of said corporation.

My Commission Expires: June 1, 1963

[Signature]
Notary Public, Galveston
County, Texas

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____.

My Commission Expires: _____

Notary Public, _____
County, _____

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 29th day of November, 1962.

Carol Pauls Moore - A Single Woman
Carol Pauls Moore

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF TEXAS
COUNTY OF HARRIS

The foregoing instrument was acknowledged before me
this 29 day of NOVEMBER, 1962, by CAROL
PAULS MOORE

My Commission Expires: June 11, 1963

Frederick Hastings
Notary Public,
County, HARRIS

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 21st day of March, 1963.

Charles H. Moore
Charles H. Moore (separate property)

Moore

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____ Notary Public, _____
County, _____

* * * *

STATE OF Texas
COUNTY OF Harris

The foregoing instrument was acknowledged before me
this 21st day of March, 1963, by Charles H. Moore
Moore ~~and wife~~ Moore

My Commission Expires: 6-1-63 Notary Public, Hubert Gentry, Jr.
County, Harris

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this -7- day of December, 1962.

B. D. Moore Jr.
B. D. Moore, Jr.

Eleanor D. Moore

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____

* * * *

STATE OF Texas
COUNTY OF Dallas

The foregoing instrument was acknowledged before me
this 7 day of December, 1962, by B. D. Moore Jr.
and wife Eleanor D. Moore

My Commission Expires: April 1, 1963

Mrs. Alma L. Linn
Notary Public, Dallas
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7 day of December, 1962.

Frances Moore Shelton
Frances Moore Shelton
Kenneth R. Shelton

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____
Notary Public, _____
County, _____

STATE OF Texas
COUNTY OF Dallas

The foregoing instrument was acknowledged before me
this 7 day of December, 1962, by Frances Moore Shelton
and Kenneth R. Shelton (Husband & wife)

My Commission Expires: June 1, 1963
Notary Public, Dallas
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 13 day of Dec., 1962.

David W. Moore
Mr. David W. Moore

Mary Lee Moore

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____ Notary Public, _____
County, _____

STATE OF Texas
COUNTY OF Bell

The foregoing instrument was acknowledged before me this 17 day of December, 1963, by David W. Moore and wife Mary Lee Moore.

My Commission Expires: June 1, 1963 Notary Public, Bell
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 28th day of
November, 1962.

S. J. Iverson
S. J. Iverson

Mariorie Iverson

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____
Notary Public, _____
County, _____

STATE OF Texas
COUNTY OF Tarrant

The foregoing instrument was acknowledged before me
this 28th day of November, 1962, by _____
S. J. Iverson and Mariorie Iverson Husband and Wife

My Commission Expires: June 1, 1963
Notary Public, Tarrant
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7th day of November, 1962.

FAIR N & N TRUST
By: Gus W. Arnold
Trustee

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____ of _____ a _____ corporation, on behalf of said corporation.

My Commission Expires: _____ Notary Public, _____
County, _____

STATE OF Texas
COUNTY OF Smith

The foregoing instrument was acknowledged before me this 7th day of November, 1962, by ~~XXXXXXXXXX~~
Gus W. Arnold, Trustee Fair N & N Trust

My Commission Expires: June 1, 1963 Notary Public, Smith
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I. Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 13th day of
November, 19662.

ATTEST:

Marvin G. Nelson
Secretary-Treasurer

THE R. W. FAIR FOUNDATION

By: Wilton H. Fair
Its PRESIDENT

STATE OF TEXAS
COUNTY OF SMITH

The foregoing instrument was acknowledged before me
this 13th day of November, 1962, by WILTON H. FAIR
President of THE R. W. FAIR FOUNDATION
a Texas corporation, on behalf of said corporation.

My Commission Expires:
6/1/63

Thelma Lacy
Notary Public, SMITH
County, TEXAS

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____.

My Commission Expires:

Notary Public, _____
County, _____.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 7th day of November, 1962.

R. W. Fair

R. W. Fair (Separate Property)

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____
Notary Public, _____
County, _____

STATE OF Texas
COUNTY OF Smith

The foregoing instrument was acknowledged before me
this 7th day of November, 1962, by R. W. Fair

My Commission Expires: June 1, 1963
Notary Public, Smith
County, Texas

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 3rd day of
December, 1962.

Edward R. Hudson
Josephine T. Hudson (JTH)
William A. Hudson
William A. Hudson
Roxie E. Hudson (REH)

STATE OF

8

STATE OF TEXAS)
COUNTY OF TARRANT)

The foregoing instrument was acknowledged before me this 3rd
day of December, 1962, by Edward R. Hudson and wife, Josephine
T. Hudson; William A. Hudson and wife, Roxie E. Hudson

My Commission Expires:
6/1/63

Jo B Miller (Jo B. Miller)
Notary Public, Tarrant
County, New Mexico

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 3rd day of
November, 19662.

Mrs E. G. Woods
Mrs. E. G. Woods

widow

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me
this _____ day of _____, 196____, by _____
of _____
a _____ corporation, on behalf of said corporation.

My Commission Expires: _____

Notary Public, _____
County, _____.

* * * *

STATE OF New Mexico
COUNTY OF Eddy

The foregoing instrument was acknowledged before me
this 3rd day of November, 1962, by _____
Mrs. E. G. Woods

My Commission Expires:
7-31-63

Thelma Hall
Notary Public, New Mexico
County, Eddy.

RATIFICATION OF AMENDATORY AGREEMENT TO
MALJAMAR COOPERATIVE AGREEMENT
(Supplement No. 5)
I Sec. No. 341

The undersigned is the owner of an oil and gas interest other than a working interest in the Grayburg-San Andres Formations (as defined in the agreement identified in the heading hereof bearing the date of July 1, 1962 and hereinafter called the "Supplement No. 5 Agreement"), the interest of the undersigned being a royalty interest, overriding royalty interest, production payment or oil payment interest, or other like interest burdening the working interest in one or more of the tracts comprising the Participating Area lying within the Cooperative or Unit Area, respectively described in the Supplement No. 5 Agreement; and the undersigned by these presents, in consideration of the premises, the benefits accruing to the undersigned thereunder, the agreements of working interest owner parties thereto contained therein, and the like commitment by others owning interests similar to that of the undersigned, ratifies, adopts and confirms said Supplement No. 5 Agreement and commits the interests of the undersigned thereto for every purpose, as fully as if the undersigned had executed a counterpart thereof, hereby acknowledging receipt of a copy of said Supplement No. 5 Agreement and especially agreeing that the interest of the undersigned shall, from and after the first day of the month next following the execution hereof or from and after the effective date of said Supplement No. 5 Agreement (whichever is later) be bound by the terms thereof.

WITNESS the execution hereof this 5th day of February, 1963.

TRACTS COMMITTED:

Nos. 39x-1 and 39x-2

TEXACO INC.

APPROVED AS TO
Terms Donnell
Acctg. Donnell
Form Donnell

By: B.L. Francis
Its Attorney-in-Fact

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me this 5th day of February, 1963, by B.L. FRANCIS Attorney-in-Fact of TEXACO Inc. a Delaware corporation, on behalf of said corporation.

My Commission Expires:
June 1, 1963

DOROTHY LANGAS
Dorothy Langas
Notary Public, Midland
County, Texas

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 196____, by _____.

My Commission Expires:

Notary Public, _____
County, _____