



PETROLEUM PRODUCTS

October 11, 1976

TEXACO INC.  
DRAWER 728  
HOBBS, NEW MEXICO 88240

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

RE: NEW MEXICO "L, M, N & O" STATE;  
NEW MEXICO "CG" (NCT-1 & NCT-2)  
STATE; NEW MEXICO "U" STATE  
Surface Commingling

ATTENTION: MR. JOE D. RAMEY

Gentlemen:

Texaco Inc. respectfully requests revision of amended Administrative Order PLC-4 to authorize commingling of production from the North Abo, Glorieta, Wolfcamp, Pennsylvanian, Devonian and Blinbry Pools in the Vacuum Field from Texaco's "L" State, "M" State, "N" State, "O" State, "CG" (NCT-1 & NCT-2) State, and "U" State without separately measuring the pool production prior to being commingled. This Order currently authorizes separate metering on each pools' production prior to commingling. Currently, no well on the aforesaid leases is capable of producing top allowable for each respective pool; therefore, commingling without separate measurement is being requested. This method of commingling is authorized in Section II, Item 1, of the current New Mexico Oil Conservation Commission "Manual for the Installation and Operation of Commingling Facilities".

Attached is a 60-day production tabulation for each well on the lease and a revised diagrammatic sketch of the proposed battery revision. Metering test facilities shall be provided for accurately determining the producing capacity of each well at reasonable periodic intervals and the production from each well shall be allocated on a test basis. The production from each well and each pool shall be separately reported each month.

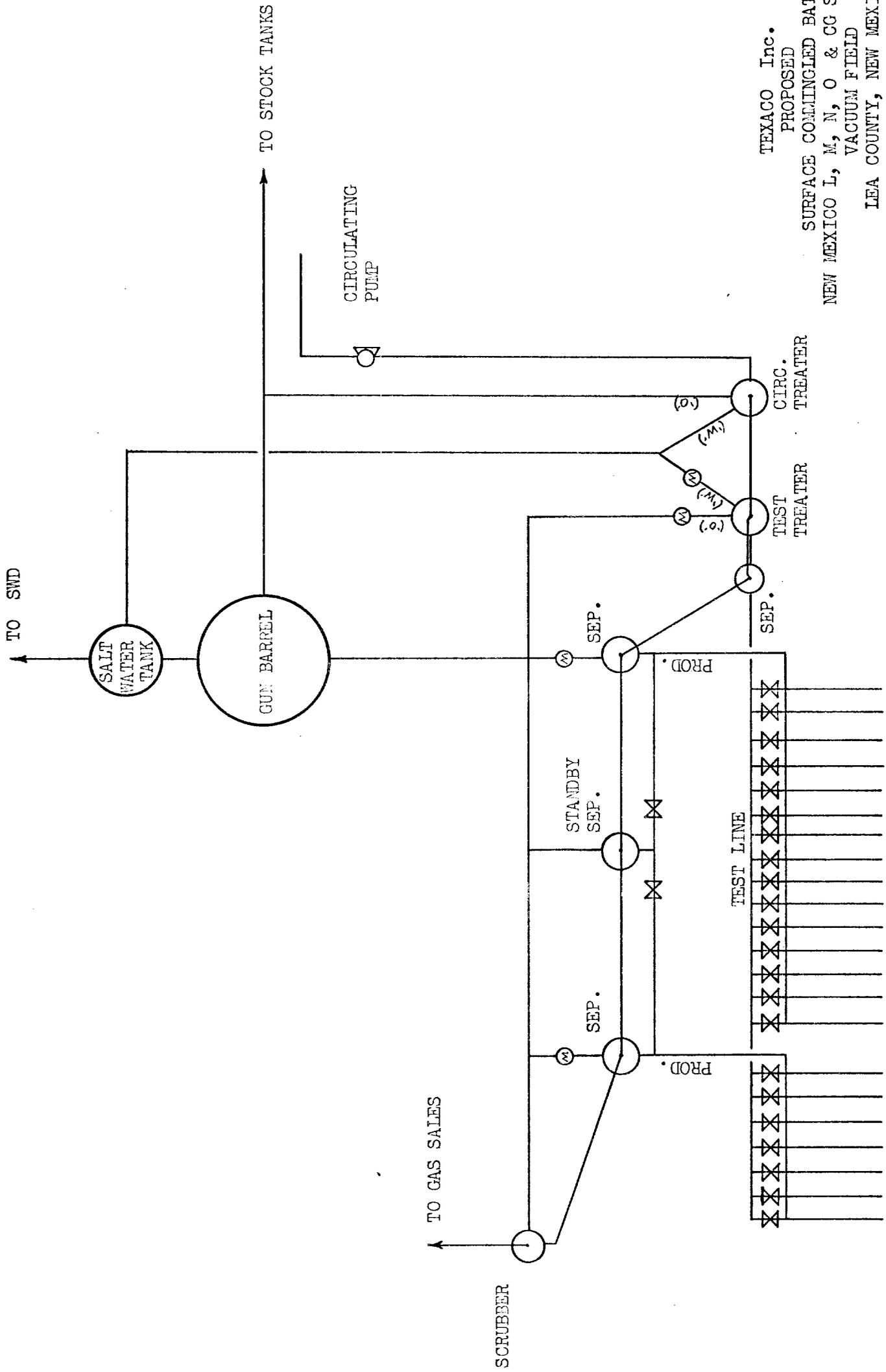
Your early consideration of this method of commingling on the subject leases would be appreciated.

Very truly yours,

J. V. Gannon  
District Superintendent

DRC:las  
Attachment

NMOCC - Hobbs, New Mexico



GLORIETA  
(Gas Lift)

WOLFCAMP, ABO & PENN

TEXACO Inc.  
PROPOSED  
SURFACE COMMINGLED BATTERY  
NEW MEXICO L, M, N, O & CG STATE LEASES  
VACUUM FIELD  
LEA COUNTY, NEW MEXICO

DRC/CRC

10-15-76

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico C.C. State NCF-2

FIELD Vacuum

OP ALLOWABLE	107				
FORMATION	GLORIETA				
WELL NO.	1				
MONTH-DAY	July	DAILY PRODUCTION			
1	13				
2	13				
3	13				
4	14				
5	16				
6	14				
7	13				
8	13				
9	13				
10	14				
11	12				
12	13				
13	13				
14	14				
15	14				
16	14				
17	15				
18	12				
19	16				
20	12				
21	13				
22	14				
23	13				
24	13				
25	14				
26	13				
27	14				
28	14				
29	12				
30	14				
31	14				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico L' State

FIELD Vacuum

OP ALLOWABLE FORTIATION	107 GLORIETA	107 GLORIETA	107 GLORIETA			
WELL NO.	6	7	9			

MONTH-DAY	DAILY PRODUCTION					
July						
1	46	14	80			
2	45	15	81			
3	44	14	80			
4	45	15	82			
5	45	15	82			
6	43	14	79			
7	45	15	80			
8	44	14	80			
9	45	15	81			
10	46	15	82			
11	40	13	-			
12	45	15	82			
13	43	14	78			
14	45	15	81			
15	47	15	84			
16	46	15	82			
17	48	16	-			
18	41	13	76			
19	51	17	-			
20	43	14	78			
21	45	15	81			
22	45	15	82			
23	45	15	81			
24	45	15	81			
25	45	16	81			
26	45	16	81			
27	43	15	79			
28	45	16	81			
29	40	14	74			
30	44	15	79			
31	44	16	75			

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico M. State

FIELD Vacuna

TOP ALLOWABLE FORMATION	107				
	GLORIETA				
WELL NO.	8				

MONTH-DAY	DAILY PRODUCTION				
1	39				
2	39				
3	39				
4	40				
5	40				
6	38				
7	39				
8	39				
9	39				
10	40				
11	35				
12	-				
13	38				
14	38				
15	40				
16	41				
17	40				
18	42				
19	36				
20	44				
21	38				
22	40				
23	40				
24	39				
25	40				
26	40				
27	40				
28	38				
29	40				
30	37				
31	36				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico N' State

FIELD Vacuum

TOP ALLOWABLE FORMATION	107	107				
	GLORIETA	GLORIETA				
WELL NO.	6	7				
MONTH-DAY	JULY		DAILY PRODUCTION			
1	5	17				
2	4	19				
3	4	18				
4	3	19				
5	4	19				
6	4	18				
7	4	19				
8	5	18				
9	5	19				
10	4	19				
11	3	18				
12	3	19				
13	4	18				
14	4	19				
15	4	17				
16	4	17				
17	3	14				
18	4	12				
19	4	9				
20	5	8				
21	4	6				
22	4	10				
23	5	15				
24	3	16				
25	4	17				
26	4	18				
27	5	17				
28	3	18				
29	4	16				
30	4	17				
31	5	18				

Prod summary July 76

Aug

			Allow	Prod actual		
ST	CG	G1	#2	107	18	20
ST	L	"	1	"	14	15
		"	6	"	45	45
		"	7	"	15	16
		"	9	"	80	81
M	"	"	8	"	40	42
N	"	"	6	"	4	5
		"	7	"	17	19
O	"	"	13	"	75	70
		"	15	"	75	70
		"	16	"	7	7
		"	18	"	0	NR <del>69</del> (1/2 mo only)
		"	19	"	0	69 (1/2 mo only)
		"	20	"	33	31
		"	21	"	68	65
		"	23	"	63	55
		"	24	"	9	10
		"	25	"	17	18
ST	L	we	6	355	7	7
M	"	"	5	"	9	9
		"	7	"	4	5
N	"	"	4	"	12	11
		"	8	"	16	15
O	"	"	11	"	71	68
		"	14	"	22	24
		"	17	"	1	1
		"	18	"	37	32
		"	24	"	10	10
		Pe	18	400	4	5
N	A60	"	4	355	2	2
		"	8	"	22	25
O	"	"	11	"	64	65
		"	14	"	30	29
		"	24	"	10	8

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico CG State NCT-1

FIELD Uacum

TOP ALLOWABLE FORMATION	107				
	GLORIETA				
WELL NO.	2				

MONTH-DAY	DAILY PRODUCTION				
1	18				
2	18				
3	18				
4	18				
5	18				
6	17				
7	18				
8	18				
9	18				
10	18				
11	16				
12	18				
13	17				
14	18				
15	19				
16	18				
17	19				
18	16				
19	20				
20	17				
21	18				
22	18				
23	18				
24	18				
25	17				
26	17				
27	16				
28	17				
29	16				
30	16				
31	17				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico 'O' state NCT-1  
FIELD Vacuum

TOP ALLOWABLE FORMATION	107 GLORIETA	107 GLORIETA	107 GLORIETA	107 GLORIETA	107 GLORIETA	107 GLORIETA
WELL NO.	13	15	16	18	19	20

MONTH-DAY	DAILY PRODUCTION					
July						
1	75	77	7			31
2	75	77	6			32
3	74	76	6			32
4	76	78	7			33
5	76	78	7			33
6	73	74	7			32
7	74	77	6			32
8	74	76	7			32
9	75	77	7			32
10	77	80	7			33
11	-	-	7			32
12	75	-	7			32
13	72	74	6			32
14	75	78	7			32
15	78	82	7			33
16	76	79	7			33
17	81	84	8			32
18	70	69	6			34
19	84	83	8			35
20	72	71	7			34
21	75	77	6			32
22	76	77	7			33
23	75	77	7			33
24	75	77	7			32
25	75	77	7			34
26	75	77	7			36
27	73	73	7			35
28	75	77	6			32
29	67	65	6			30
30	73	74	7			32
31	76	74	6			30

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico 'O' State NCT-1

FIELD Vacuum

OP ALLOWABLE FORMATION	107 GLORIETA	107 GLORIETA	107 GLORIETA	107 GLORIETA		
WELL NO.	21	23	24	25		
MONTH-DAY	July DAILY PRODUCTION					
1	65	63	10	16		
2	65	63	10	18		
3	64	62	10	18		
4	66	63	10	18		
5	66	63	10	18		
6	63	62	8	17		
7	65	63	10	18		
8	64	62	10	18		
9	65	63	10	18		
10	68	64	10	19		
11	56	59	8	—		
12	65	63	10	18		
13	61	61	9	17		
14	66	63	10	18		
15	69	65	10	19		
16	69	64	10	18		
17	74	66	10	20		
18	60	60	8	17		
19	79	68	12	21		
20	63	60	8	17		
21	68	62	10	18		
22	68	62	10	18		
23	68	62	10	19		
24	68	62	10	19		
25	68	62	10	19		
26	68	62	10	19		
27	65	61	8	18		
28	68	62	10	19		
29	57	57	8	17		
30	65	61	8	19		
31	65	65	8	19		

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico L State

FIELD Vacuum

OP ALLOWABLE FORMATION	355 WOLSCAMP				
WELL NO.	6				

MONTH-DAY	July	DAILY PRODUCTION				
1	7					
2	7					
3	7					
4	8					
5	7					
6	7					
7	7					
8	7					
9	7					
10	8					
11	6					
12	7					
13	7					
14	7					
15	8					
16	7					
17	7					
18	7					
19	8					
20	8					
21	8					
22	8					
23	8					
24	8					
25	8					
26	8					
27	8					
28	8					
29	7					
30	8					
31	8					

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico M' State

FIELD Wacuum

OP ALLOWABLE	355	355			
FORMATION	WOLFCAAP	WOLFCAAP			
WELL NO.	5	7			

MONTH-DAY	DAILY PRODUCTION				
July					
1	8	4			
2	9	5			
3	9	5			
4	10	4			
5	9	4			
6	8	4			
7	9	4			
8	9	5			
9	8	4			
10	10	4			
11	7	4			
12	8	5			
13	9	5			
14	10	4			
15	10	4			
16	10	4			
17	9	4			
18	9	4			
19	10	5			
20	9	5			
21	8	4			
22	10	5			
23	8	5			
24	10	5			
25	10	4			
26	8	5			
27	9	5			
28	10	5			
29	8	4			
30	8	5			
31	8	5			

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico 'N' State

FIELD Vacuum

TOP ALLOWABLE	355	355			
FORMATION	WOLF CAMP	WOLF CAMP			
WELL NO.	6	8			

MONTH-DAY	DAILY PRODUCTION				
1	14	17			
2	14	17			
3	14	17			
4	16	16			
5	15	17			
6	14	14			
7	14	17			
8	14	16			
9	14	17			
10	13	17			
11	11	14			
12	12	16			
13	12	16			
14	13	17			
15	14	17			
16	13	17			
17	13	17			
18	10	16			
19	15	17			
20	14	16			
21	13	17			
22	13	17			
23	14	17			
24	14	17			
25	14	16			
26	14	17			
27	13	17			
28	14	17			
29	12	15			
30	13	16			
31	12	14			

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico O' State NCT-1

FIELD Vacuna

OP ALLOWABLE FORMATION	355 WOLFECAMP	355 WOLFECAMP	355 WOLFECAMP	355 WOLFECAMP	355 WOLFECAMP
WELL NO.	11	14	17	18	24
MONTH-DAY	JULY DAILY PRODUCTION				
1	69	24	1	37	11
2	69	24	2	37	10
3	69	23	1	37	10
4	71	24	1	39	11
5	71	24	2	39	11
6	67	23	2	37	11
7	69	24	2	37	11
8	69	23	1	37	11
9	70	24	1	39	10
10	71	27	1	38	12
11	56	21	1	32	9
12	66	21	2	36	10
13	67	23	2	37	11
14	70	23	2	39	10
15	73	24	1	39	12
16	71	24	2	38	11
17	67	23	1	37	10
18	64	22	1	35	10
19	71	24	2	38	11
20	66	22	2	36	10
21	70	24	2	38	11
22	71	25	1	38	10
23	70	25	2	38	10
24	70	25	1	38	10
25	70	25	1	37	11
26	70	26	2	39	10
27	67	26	1	36	10
28	70	27	2	38	10
29	62	23	1	34	9
30	68	23	1	37	10
31	70	24	2	37	10

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico 'O' State NCT-1

FIELD Vacuum

TOP ALLOWABLE FORMATION	400				
	Upper Perm				
WELL NO.	18				

MONTH-DAY	DAILY PRODUCTION				
July					
1	4				
2	5				
3	5				
4	5				
5	5				
6	5				
7	5				
8	5				
9	5				
10	6				
11	4				
12	5				
13	5				
14	5				
15	4				
16	5				
17	5				
18	5				
19	5				
20	5				
21	5				
22	5				
23	5				
24	5				
25	5				
26	5				
27	5				
28	5				
29	5				
30	5				
31	5				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico N' State

FIELD Vacuum

TOP ALLOWABLE FORMATION	355 H&O NORTH	355 H&O NORTH			
WELL NO.	6	8			

MONTH-DAY	DAILY PRODUCTION				
1	1	23			
2	2	23			
3	2	24			
4	2	25			
5	2	23			
6	1	22			
7	2	23			
8	2	24			
9	2	25			
10	2	24			
11	1	19			
12	2	22			
13	2	22			
14	1	23			
15	2	24			
16	2	23			
17	2	22			
18	1	21			
19	2	23			
20	2	22			
21	1	23			
22	2	23			
23	2	23			
24	2	23			
25	1	23			
26	2	23			
27	2	22			
28	2	23			
29	1	20			
30	2	22			
31	2	20			

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico O. State NCT-1

FIELD Vacuum

TOP ALLOWABLE FORMATION	355	355	355			
	ABO NORTH	ABO NORTH	ABO NORTH			
WELL NO.	11	14	24			
MONTH-DAY	JULY DAILY PRODUCTION					
1	64	30	10			
2	64	29	10			
3	68	32	-			
4	70	32	-			
5	66	30	10			
6	63	29	9			
7	64	30	9			
8	66	31	-			
9	71	31	-			
10	66	30	10			
11	56	25	11			
12	62	28	8			
13	63	28	10			
14	65	30	10			
15	68	31	10			
16	66	30	10			
17	63	29	10			
18	60	27	9			
19	65	30	10			
20	62	28	10			
21	65	29	10			
22	66	31	10			
23	65	30	11			
24	65	30	10			
25	65	30	10			
26	65	30	11			
27	63	29	11			
28	65	30	10			
29	58	26	9			
30	63	29	10			
31	65	34	10			

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico - CG State NCT-1

FIELD Vacuum

OP ALLOWABLE FORMATION	107 GLORIFETA				
WELL NO.	2				
MONTH-DAY	August	DAILY PRODUCTION			
1	20				
2	19				
3	-				
4	-				
5	21				
6	20				
7	20				
8	20				
9	20				
10	20				
11	19				
12	20				
13	20				
14	20				
15	20				
16	21				
17	22				
18	22				
19	21				
20	20				
21	20				
22	20				
23	20				
24	20				
25	18				
26	18				
27	18				
28	19				
29	20				
30	20				
31	20				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico 'C.G.' State NCT-2

FIELD Vacuum

OP ALLOWABLE	107				
FORMATION	GLORIETA				
WELL NO.	1				

MONTH-DAY	DAILY PRODUCTION				
1	15				
2	14				
3	-				
4	-				
5	15				
6	15				
7	16				
8	17				
9	17				
10	16				
11	16				
12	16				
13	17				
14	16				
15	15				
16	15				
17	16				
18	16				
19	16				
20	14				
21	14				
22	15				
23	14				
24	14				
25	15				
26	14				
27	14				
28	15				
29	16				
30	16				
31	17				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico L. State

FIELD Vacuum

TOP ALLOWABLE FORMATION	107	107	107			
	GLORIETH	GLORIETH	GLORIETH			
WELL NO.	6	7	9			
MONTH-DAY	August			DAILY PRODUCTION		
1	43	14	84			
2	44	13	84			
3	38	14	82			
4	43	15	85			
5	47	15	84			
6	45	16	81			
7	45	15	81			
8	46	15	81			
9	45	15	84			
10	45	15	81			
11	46	15	84			
12	45	14	83			
13	47	16	81			
14	46	15	77			
15	47	15	-			
16	49	16	-			
17	51	17	85			
18	50	18	85			
19	49	17	85			
20	47	16	84			
21	46	15	82			
22	47	16	81			
23	47	16	81			
24	48	16	81			
25	48	16	81			
26	49	17	82			
27	48	15	82			
28	50	16	84			
29	50	16	87			
30	49	18	86			
31	51	17	86			

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico M State

FIELD Vacuum

TOP ALLOWABLE FORMATION	107 GLORFETA				
WELL NO.	8				
MONTH-DAY	August	DAILY PRODUCTION			
1	37				
2	39				
3	30				
4	34				
5	42				
6	40				
7	40				
8	40				
9	40				
10	40				
11	39				
12	42				
13	46				
14	45				
15	42				
16	42				
17	42				
18	43				
19	42				
20	39				
21	39				
22	39				
23	37				
24	39				
25	39				
26	39				
27	39				
28	42				
29	42				
30	43				
31	43				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico N. State

FIELD Vacuum

TOP ALLOWABLE FORMATION	107 GLORIETA	107 GLORIETA				
WELL NO.	6	7				
MONTH-DAY	August		DAILY PRODUCTION			
1	5	19				
2	5	17				
3	-	-				
4	-	-				
5	5	19				
6	5	18				
7	5	18				
8	5	18				
9	5	18				
10	4	18				
11	5	18				
12	5	18				
13	5	19				
14	5	18				
15	5	19				
16	5	19				
17	5	20				
18	4	20				
19	4	19				
20	5	18				
21	5	18				
22	4	18				
23	4	18				
24	5	18				
25	5	18				
26	4	18				
27	4	18				
28	4	19				
29	4	20				
30	4	19				
31	4	17				

TEXACO INC.  
DAILY PRODUCTION

LEASE NEW MEXICO 'O' STATE

FIELD VACUUM

TOP ALLOWABLE FORMATION	107	107	107	107	107	107
WELL NO.	13	15	16	19	20	21
MONTH-DAY	AUGUST DAILY PRODUCTION					
1	67	68	5		32	60
2	71	69	5		31	62
3	70	78	5		31	63
4	71	75	6		31	60
5	70	72	6		32	60
6	72	70	5		31	60
7	71	69	7		31	59
8	70	69	7		31	59
9	71	68	7		31	61
10	71	69	7		32	60
11	69	70	7		32	60
12	69	71	7		32	61
13	68	70	7		32	59
14	69	71	7		31	59
15	68	71	7		31	59
16	70	71	7		32	61
17	73	69	6	48	31	60
18	72	69	7	49	31	61
19	71	70	8	47	32	61
20	70	70	6	58	31	60
21	70	68	7	65	31	60
22	69	68	6	68	32	68
23	70	71	6	64	32	70
24	71	71	7	69	31	70
25	71	71	7	68	32	70
26	70	71	7	68	31	70
27	70	70	7	70	32	70
28	68	70	7	71	32	73
29	72	71	6	70	32	71
30	71	68	8	71	31	73
31	71	69	6	70	31	72

TEXACO INC.  
DAILY PRODUCTION

LEASE NEW MEXICO O STATE

FIELD VACUUM

TOP ALLOWABLE FORMATION	107 GLORIETA	107 GLORIETA	107 GLORIETA			
WELL NO.	23	24	25			

MONTH-DAY	AUGUST DAILY PRODUCTION					
1	53	9	13			
2	51	7	14			
3	50	7	13			
4	52	8	15			
5	53	9	16			
6	50	9	16			
7	49	10	16			
8	49	9	17			
9	48	9	17			
10	49	8	16			
11	52	10	17			
12	51	9	17			
13	51	10	16			
14	55	9	17			
15	57	9	18			
16	56	9	17			
17	56	9	17			
18	56	10	18			
19	56	9	17			
20	61	9	16			
21	63	10	18			
22	65	10	18			
23	76	9	19			
24	78	10	18			
25	78	10	18			
26	76	9	19			
27	74	10	17			
28	74	10	19			
29	76	9	20			
30	76	10	20			
31	80	10	19			

TEXACO INC.  
DAILY PRODUCTION

LEASE NEW MEXICO 'L' STATE

FIELD VACUUM

TOP ALLOWABLE FORMATION	355				
	WOLF CAMP				
WELL NO.	6				

MONTH-DAY	DAILY PRODUCTION				
1	7				
2	7				
3	6				
4	8				
5	7				
6	7				
7	7				
8	7				
9	7				
10	7				
11	6				
12	6				
13	7				
14	6				
15	6				
16	6				
17	6				
18	8				
19	7				
20	7				
21	8				
22	8				
23	7				
24	6				
25	6				
26	8				
27	7				
28	8				
29	8				
30	8				
31	8				

TEXACO INC.  
DAILY PRODUCTION

LEASE NEW MEXICO 'M' STATE

FIELD VACUUM

TOP ALLOWABLE FORMATION	355	355				
	WOLF CAMP	WOLF CAMP				
WELL NO.	5	7				
MONTH-DAY	AUGUST		DAILY PRODUCTION			
1	8	3				
2	9	4				
3	-	4				
4	-	4				
5	9	5				
6	9	5				
7	9	5				
8	9	5				
9	8	4				
10	8	4				
11	10	3				
12	9	3				
13	9	4				
14	9	4				
15	9	5				
16	9	4				
17	10	5				
18	9	4				
19	9	4				
20	10	5				
21	9	5				
22	9	3				
23	8	4				
24	9	4				
25	9	5				
26	9	4				
27	9	5				
28	9	4				
29	9	5				
30	9	4				
31	9	4				

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico 'N' State

FIELD Wackum

TOP ALLOWABLE	355	355			
FORMATION	WOLF CAMP	WOLF CAMP			
WELL NO.	6	8			

MONTH-DAY	DAILY PRODUCTION				
1	11	15			
2	11	16			
3	10	15			
4	11	15			
5	12	16			
6	12	17			
7	11	17			
8	11	17			
9	11	17			
10	11	15			
11	11	15			
12	10	14			
13	10	14			
14	10	14			
15	10	14			
16	11	16			
17	11	17			
18	11	17			
19	11	16			
20	11	16			
21	11	15			
22	11	15			
23	11	17			
24	11	17			
25	11	15			
26	11	14			
27	12	14			
28	13	14			
29	13	16			
30	35	14			
	22	15			

TEXACO INC.  
DAILY PRODUCTION

LEASE NEW MEXICO 'O' STATE

FIELD VACUUM

TOP ALLOWABLE FORMATION	355 WOLFCAMP	355 WOLFCAMP	355 WOLFCAMP	355 WOLFCAMP	355 WOLFCAMP
WELL NO.	11	14	17	18	24
MONTH-DAY	AUGUST DAILY PRODUCTION				
1	69	22	1	46	10
2	69	25	1	45	11
3	-	-	1	45	-
4	-	-	1	52	-
5	71	26	1	46	10
6	71	22	1	42	10
7	70	25	1	36	11
8	70	23	1	31	10
9	69	22	1	30	10
10	68	22	1	32	11
11	68	25	1	30	11
12	68	23	2	30	11
13	67	26	2	34	10
14	69	25	2	32	11
15	69	26	2	32	11
16	70	23	1	31	12
17	70	26	1	33	10
18	68	25	1	32	9
19	67	23	1	31	9
20	67	25	1	32	10
21	69	23	1	30	11
22	69	23	1	31	11
23	68	25	2	32	11
24	67	23	2	31	11
25	68	22	2	30	11
26	69	23	2	36	11
27	68	24	2	34	10
28	68	26	1	35	10
29	70	23	2	35	10
30	70	23	2	35	10
31	70	21	2	34	10

TEXACO INC.  
DAILY PRODUCTION

LEASE NEW MEXICO "O" STATE

FIELD VACUUM

TOP ALLOWABLE	400				
FORMATION	UPPER PENN				
WELL NO.	18				
MONTH-DAY	AUGUST				
	DAILY PRODUCTION				
1					
2	4				
3	5				
4	5				
5	5				
6	5				
7	5				
8	5				
9	6				
10	5				
11	4				
12	6				
13	5				
14	6				
15	5				
16	5				
17	6				
18	6				
19	6				
20	5				
21	7				
22	5				
23	7				
24	5				
25	5				
26	5				
27	5				
28	4				
29	5				
30	5				
31	5				

TEXACO INC.  
DAILY PRODUCTION

LEASE NEW MEXICO 'N' STATE  
FIELD VACUUM

OP ALLOWABLE FORMATION	355	355			
	ABO NORTH	ABO NORTH			
WELL NO.	6	8			
MONTH-DAY	AUGUST DAILY PRODUCTION				
1	1	24			
2	-	-			
3	-	-			
4	1	25			
5	1	24			
6	1	25			
7	1	25			
8	1	25			
9	1	25			
10	1	24			
11	2	24			
12	2	23			
13	2	23			
14	2	25			
15	2	25			
16	2	23			
17	2	23			
18	2	24			
19	2	24			
20	2	25			
21	2	26			
22	2	24			
23	2	25			
24	2	26			
25	2	26			
26	2	26			
27	2	24			
28	1	24			
29	2	23			
30	5	22			
31	4	22			

TEXACO INC.  
DAILY PRODUCTION

LEASE New Mexico 'O' State

FIELD Vacuna

OP ALLOWABLE	355	355	355		
FORMATION	ABO NORTH	ABO NORTH	ABO NORTH		
WELL NO.	11	14	24		

MONTH-DAY	AUGUST					DAILY PRODUCTION				
1	66	27	9							
2	63	28	9							
3	65	29	10							
4	65	29	11							
5	66	25	7							
6	63	26	10							
7	63	29	9							
8	63	28	8							
9	64	29	8							
10	64	28	8							
11	65	26	7							
12	63	26	9							
13	65	24	9							
14	65	29	8							
15	62	28	9							
16	62	29	8							
17	65	30	7							
18	65	31	9							
19	62	28	8							
20	66	31	8							
21	67	29	7							
22	65	29	8							
23	62	32	9							
24	63	36	10							
25	62	38	10							
26	63	36	10							
27	64	34	9							
28	67	31	9							
29	68	31	9							
30	67	31	9							
31	69	32	10							

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

November 5, 1964

Texaco Inc.  
Drawer 728  
Hobbs, New Mexico

Attention: Mr. J. G. Blevins, Jr.

Amendment  
Administrative Order PLC-4

Gentlemen:

Reference is made to your letter dated October 16, 1964, wherein you request that Administrative Order PLC-4 dated July 9, 1963, as amended August 7, 1963, May 18, 1964, and September 4, 1964, which authorizes the commingling of Glorieta, Blinbry, Wolfcamp, Pennsylvanian, Devonian, and Abo production, Vacuum Field, Lea County, New Mexico, from your State "L", State "M", State "N", State "O", State "CG" (NCT-1), and State "CG" (NCT-2) Leases, be amended to include your State "U" Lease comprising the E/2 NE/4 of Section 2, Township 18 South, Range 34 East, Lea County, New Mexico.

It is our understanding that the ownership of all six leases is identical throughout so that separate lease measurement is not necessary. It is our further understanding that separate measurement is made of the production from all six of the aforesaid pools prior to commingling.

Administrative Order PLC-4 as previously amended is hereby further amended to include the State "U" Lease. It would be appreciated, inasmuch as this installation has been modified from time to time, to receive a schematic diagram of the installation as it now exists.

Very truly yours,

A. L. Porter, Jr.  
Secretary-Director

ALP:DSH:sg

cc: Oil Conservation Commission - with enclosure - Hobbs  
Oil & Gas Engineering Committee - Hobbs  
Oil & Gas Accounting Commission - Santa Fe  
State Land Office - Santa Fe

TEXACO  
INC.

PETROLEUM PRODUCTS



DRAWER 728

HOBBS, NEW MEXICO 88240

October 16, 1964

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

Re: Request for Amendment, Administrative  
Order PLC-4, Commingling, TEXACO Inc.  
State of New Mexico "L", "M", "N", "O"  
(NCT-1), "CG" (NCT-1), and "CG" (NCT-2)  
Leases, Vacuum (Multipay) Fields,  
Lea County, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

TEXACO Inc. respectfully requests that Administrative Order PLC-4, as amended, be revised to permit the production from the Vacuum (Glorieta) Pool from the State of New Mexico "U" Lease to be commingled with that from the Vacuum (North Abo, Blinbry, Devonian, Glorieta, Pennsylvanian, and Wolf-camp) Pools currently being commingled in a central tank battery located on the State of New Mexico "O" (NCT-1) Lease. The existing central tank battery currently serves the production from the aforesaid pools produced on State of New Mexico "L", "M", "N", "O" (NCT-1), "CG" (NCT-1), and "CG" (NCT-2) Leases as authorized by Administrative Order PLC-4, amended. In support of this request, the following is stated:

1. The State of New Mexico "U" Lease is comprised of the E/2 of the NE/4 of Section 2, Township 18 South, Range 34 East, Lea County, New Mexico. A plat showing each of the pertinent leases and each well on each lease is attached.

2. TEXACO Inc. is owner and operator of all of the aforementioned leases and all working and royalty interests are common. The State of New Mexico Common Schools is the royalty beneficiary of the production from each of the pertinent leases and a copy of this application is being sent to the State Land Office, P. O. Box 1148, Santa Fe, New Mexico.

3. The Glorieta zone production from the State of New Mexico "U" Lease shall be routed directly to a separator equipped with positive displace-

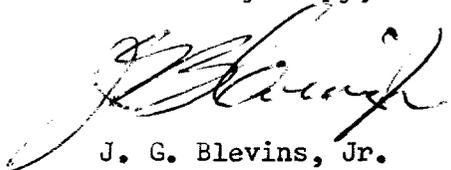
October 16, 1964

ment meter with non-reset counter and fluid sampler that is approved and is currently being used to measure all Glorieta zone production prior to being commingled with production from the remaining zones. All production from each zone is currently being measured in the above manner prior to being commingled and shall continue to be after connecting the State of New Mexico "U" Lease to the existing central battery. Adequate testing facilities shall be provided for accurately determining the producing capacity of each well at reasonable periodic intervals. ACT equipment is currently being used at the pertinent central tank battery and no alterations of the inspected and approved existing battery facilities are to be made with the addition of the State of New Mexico "U" Lease. Well and lease production shall be allocated on the basis of periodic well tests.

4. Texas-New Mexico Pipe Line Company is the crude oil purchaser at the pertinent tank battery and a copy of this request is being sent to them at P. O. Box 1510, Midland, Texas.

In view of the facts recited above, TEXACO Inc. would appreciate receiving an amendment to Administrative Order PLC-4, amended, to authorize commingling of production from the Vacuum (North Abo, Blinbry, Devonian, Glorieta, Pennsylvanian, and Wolfcamp) Pools on State of New Mexico "L", "M", "N", "O" (NCT-1), "U", "CG" (NCT-1), and "CG" (NCT-2) Leases, Lea County, New Mexico.

Yours very truly,



J. G. Blevins, Jr.  
Assistant District Superintendent

WPY-jr

NMOCC-Hobbs

Attachment

R-35-E

R-34-E

TEXACO Inc.

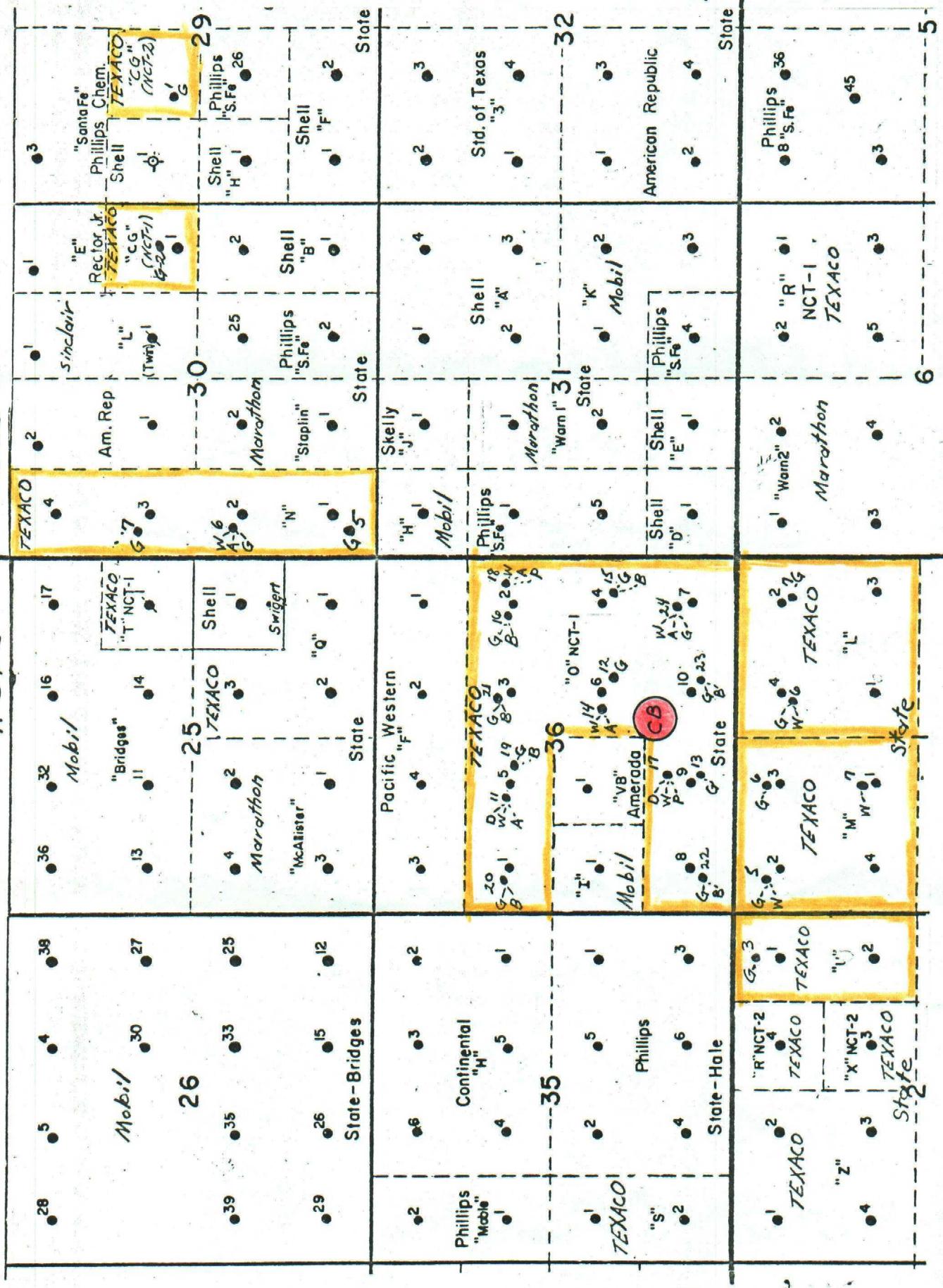
Central Tank Battery  
State of New Mexico "L", "M", "N",  
"O" (NCT-1), "U", "CG" (NCT-1), and  
"CG" (NCT-2) Leases

Vacuum (Multipay) Field  
Lea County, New Mexico

LEGEND

- A - North Abo
- B - Blinebry
- D - Devonian
- G - Glorieta
- P - Pennsylvania
- W - Wolfcamp
- CB - Central Tank Battery

NOTE: Wells not designated are  
completed in San Andres  
Pool. San Andres production  
is maintained separate from  
all other production.



T-17-S

T-18-S

T-17-S

T-18-S

# TEXAS-NEW MEXICO PIPE LINE COMPANY

P. A. LYONS  
DIVISION MANAGER

P. O. BOX 1510  
MIDLAND, TEXAS 79701

MAILED  
OCT 23  
1964  
October 19, 1964

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

Gentlemen:

Texaco Inc. advises us that they intend to make application to the New Mexico Oil Conservation Commission for permission to commingle production from the Texaco Inc. State of New Mexico "L", "M", "N", "O" (NCT-1), "CG" (NCT-1), "CG" (NCT-2), and "U" Leases in the Vacuum (Multipay) Field, Lea County, New Mexico.

Texas-New Mexico Pipe Line Company will gather the production from this lease and concurs with the operator's application to commingle these leases.

Yours very truly,

TEXAS-NEW MEXICO PIPE LINE COMPANY

By

  
P. A. Lyons  
Division Manager

LPS-NLB

WPF

MAIL OFFICE

NOV 4 1964

November 3, 1964

Texaco, Inc.  
Post Office Box 728  
Hobbs, New Mexico

In RE: Request for Amendment  
Administrative Order PLC-4  
commingling Texaco, Inc.  
lease numbers B-1733, B-1080,  
B-1722, B-155, E-7585, and B867,  
Lea County, New Mexico.

Gentlemen:

On July 15, 1963, we approved from this office, a request for addition to a previously approved installation on the above captioned. This date we can find no objection to disapprove your request, so therefore, we grant same since ownership is common throughout and since there will be no loss of royalty to the State through this operation. Also, you say that production from each pool is to be metered separately prior to being commingled.

This request, however, is granted with the understanding that the Commissioner of Public Lands reserves the right to amend or withdraw his approval should a loss of revenue occur at any time through this installation.

Very truly yours,

E. S. JOHNNY WALKER,  
Commissioner of Public Lands

By

TED BILBERNY, Director,  
Oil and Gas Department

ESJW/RGM/TB/RDG/kcl

w/cc to: Oil Conservation Commission ✓  
Oil and Gas Accounting Commission

TEXACO  
INC.

PETROLEUM PRODUCTS



NOV 28 1964

DRAWER 728

HOBBS, NEW MEXICO 88240

November 27, 1964

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

*File*  
↓

Re: Amendment, Administrative Order PLC-4,  
TEXACO Inc., Commingling Vacuum  
(Multipay) Pools, Lea County, New Mexico.

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

TEXACO Inc. respectfully submits a current and revised diagrammatic sketch, as requested in the subject Amendment, Administrative Order PLC-4, dated November 5, 1964, of the central battery serving TEXACO Inc.'s State of New Mexico "L", "M", "N", "O" (NCT-1), "U", "CG" (NCT-1) and "CG" (NCT-2) Leases, Vacuum (Multipay) Pools, Lea County, New Mexico.

The most significant addition is that of a safety separator. This separator receives production from a malfunctioning production separator and routes it to an empty stock tank that has been strapped. The production is measured in the strapped tank, credited to the proper zone and then routed to the ACT Unit. Identification of the zone from which the production came is readily discernable by identifying the malfunctioning separator.

Should additional information be desired, TEXACO Inc. shall willingly furnish it.

Yours very truly,

J. G. Blevins, Jr.  
Assistant District Superintendent

WPY-bh

CC: NMOCC-Hobbs  
State Land Office

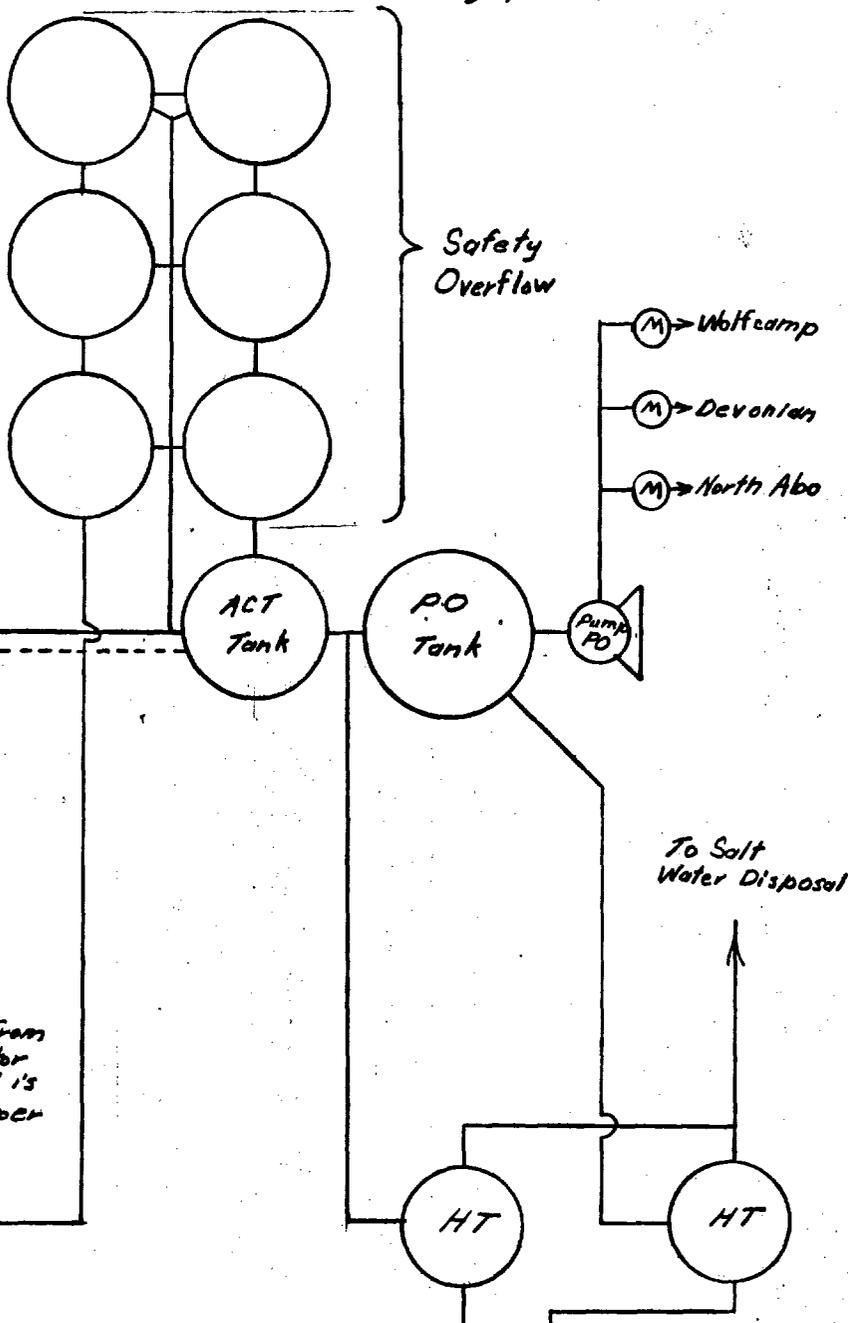
TEXACO Inc.

Schematic Diagram  
Central Battery

State of New Mexico "L", "M", "N",  
"O" (NCT-1), "U", "CG" (NCT-1), "CG" (NCT-2)

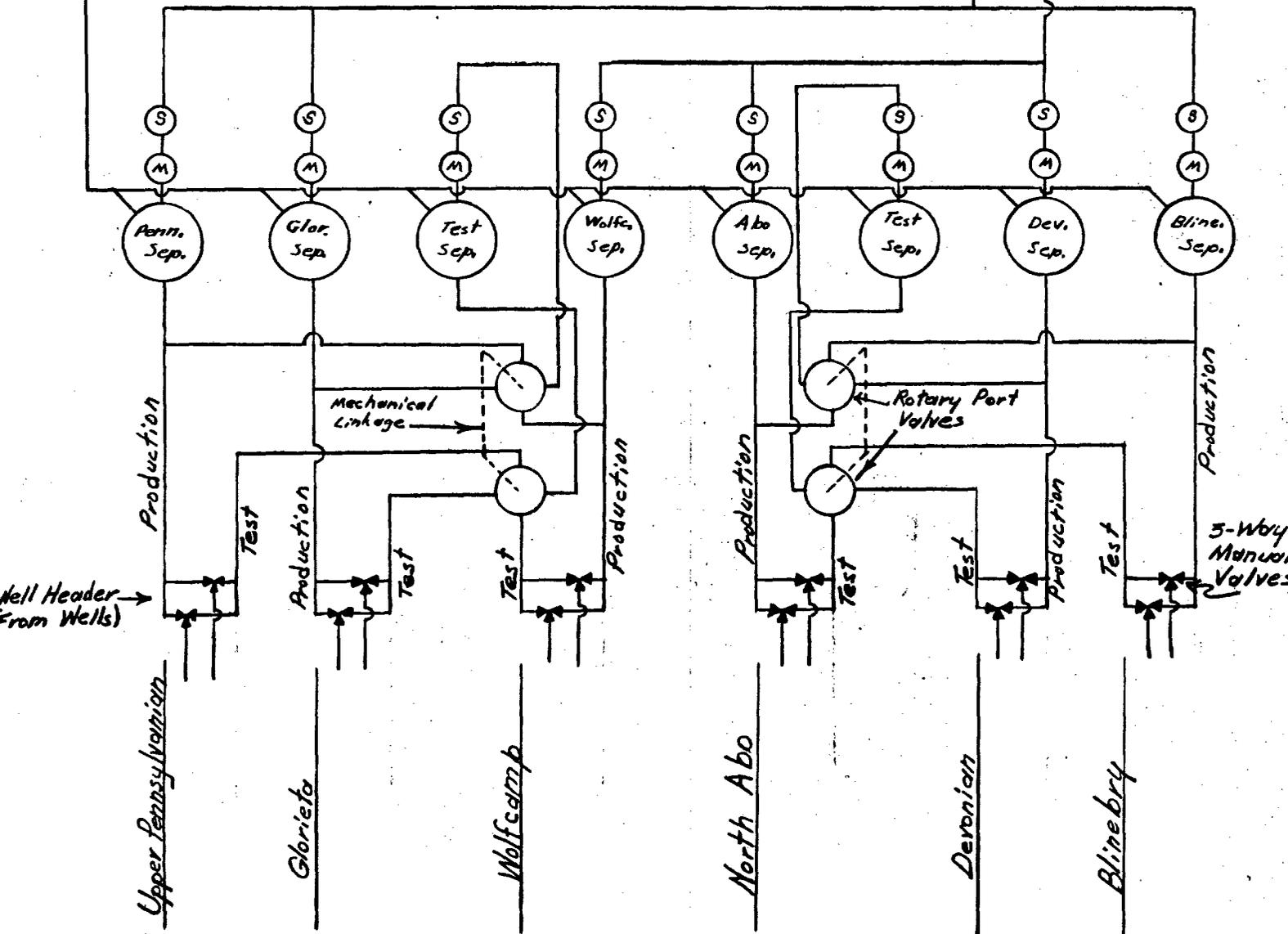
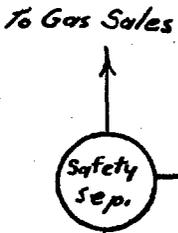
Vacuum (Multipay) Pools  
Lea County, New Mexico

Note: Penn. flows and Glorieta  
and Blinberry zones pumped  
with conventional beam  
equipment



- Legend
- M - Meter
  - S - Fluid Sampler
  - HT - Heat Treater
  - PO - Power Oil
  - Sep. - Separator
  - ACT - Automatic Custody Transfer

Note: Safety separator routes oil from  
malfunctioning production separator  
to tank with strapping tables. Oil is  
measured in tank, credited to proper  
zone & routed to ACT.



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

September 4, 1964

C  
Texaco Inc.  
Drawer 728  
Hobbs, New Mexico

Attention: Mr. J. G. Blevins, Jr.

Amendment  
Administrative Order FLC-4

O  
Gentlemen:

P  
Reference is made to your letter dated August 24, 1964, wherein you request that Administrative Order FLC-4 dated July 9, 1963, as amended August 7, 1963, and May 18, 1964, which authorizes the commingling of Glorieta, Blinebry, Wolfcamp, Pennsylvanian, Devonian, and Abo production, Vacuum Field, Lea County, New Mexico, from your State "L", State "M", State "O", and State "N" Leases, be amended to include your State "CG" (NCT-1) Lease and your State "CG" (NCT-2) Lease, comprising the SE/4 NE/4 of Section 30 and the SE/4 NW/4 of Section 29, respectively, Township 17 South, Range 35 East, Lea County, New Mexico.

Y  
It is our understanding that the ownership of all five leases is identical throughout so that separate lease measurement is not necessary. It is our further understanding that separate measurement is to be made of the production from all six of the aforesaid pools prior to commingling.

Administrative Order FLC-4 as previously amended is hereby further amended to include both portions of your State "CG" Lease.

Very truly yours,

A. L. Porter, Jr.

ALF:DSN:sg

cc: Oil Conservation Commission (with enclosure) Hobbs  
Oil & Gas Engineering Committee - Hobbs  
Oil & Gas Accounting Commission - Santa Fe  
State Land Office - Santa Fe

3

TEXACO  
INC.

PETROLEUM PRODUCTS



MAIN OFFICE 000

1964 AUG 25 PM 1 13

DRAWER 728

HOBBS, NEW MEXICO 88240

August 24, 1964

*Amendment*  
PLC-4

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

Re: Administrative Order PLC-4,  
Application for Addition to Present  
Commingling Facilities, TEXACO Inc.  
State of New Mexico "L", "M", "N",  
"O" (NCT-1), "CG" (NCT-1) and "CG"  
(NCT-2) Leases, Vacuum (Multipay)  
Pools, Lea County, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

In accordance with New Mexico Oil Conservation Commission Rules 303 (b) and 309-B, TEXACO Inc. hereby makes application for administrative approval for an exception to Rules 303 (a) and 309-A to permit commingling of production from the Vacuum (North Abo, Glorieta, Blinbry, Wolfcamp, Upper Pennsylvanian, and Devonian) Pools on the State of New Mexico "L" Lease, NE/4 of Section 1, T-18-S, R-34-E; State of New Mexico "M" Lease, NW/4 of Section 1, T-18-S, R-34-E; State of New Mexico "N" Lease, W/4 of Section 30, T-17-S, R-35-E; State of New Mexico "O" (NCT-1) Lease, S/2 of N/2, SE/4 and S/2 of SW/4 of Section 36, T-17-S, R-34-E; State of New Mexico "CG" (NCT-1) Lease, SE/4 of NE/4 of Section 30, T-17-S, R-35-E; and State of New Mexico "CG" (NCT-2) Lease, SE/4 of NW/4 of Section 29, T-17-S, R-35-E, Lea County, New Mexico. The following is stated in support of this request:

1. TEXACO Inc. is the operator and owner of each of the six leases and working and royalty interests are common. The royalty interest is held by the State of New Mexico, common schools being the beneficiary, and a copy of this application is being sent this date to the State Land Office, P. O. Box 1148, Santa Fe, New Mexico.

2. Administrative Order PLC-4, as revised by New Mexico Oil Conservation Commission letter dated May 18, 1964, authorizes commingling of

August 24, 1964

production from the aforesaid pools, but is limited to the State of New Mexico "L", "M", "N", and "O" (NCT-1) Leases. TEXACO Inc.'s application, dated June 25, 1964, to commingle production from State of New Mexico "CG" (NCT-1) Lease with that from the aforesaid leases has not, to TEXACO Inc.'s knowledge, been acted upon.

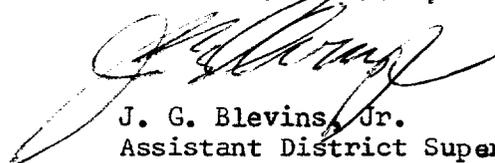
3. The currently used central battery, located on the State of New Mexico "O" (NCT-1) Lease, has metering facilities to accurately determine the production from each pool prior to being commingled and has adequate metering test facilities to periodically determine the producing capacity of each well completed in each pool. ACT equipment is being used which is capable, along with the currently used metering and testing facilities of accommodating the expected production from all of the aforesaid leases, including the State of New Mexico "CG" (NCT-2) Lease which is proposed for being connected to the existing facilities.

4. In accordance with Section II, Item 2-A and Section III, Item 1 of the current "Manual for the Installation and Operating of Commingling Facilities", it is proposed to meter, prior to commingling, production from all zones using positive displacement type meters equipped with samplers and non-reset counters and to allocate well and lease production on the basis of periodic well tests.

5. Texas-New Mexico Pipe Line Company is the purchaser of the commingled production from the aforesaid central battery and a copy of this application is being sent this date to them at P. O. Box 1510, Midland, Texas.

In view of the facts recited above, it is respectfully requested that administrative approval of an exception to Rules 303 (a) and 309-A be granted TEXACO Inc. to permit commingling of production from the Vacuum (North Abo, Glorieta, Blinbry, Wolfcamp, Upper Pennsylvanian and Devonian) Pools on the State of New Mexico "L", "M", "N", "O" (NCT-1), "CG" (NCT-1) and "CG" (NCT-2) Leases, Lea County, New Mexico and that Administrative Order No. PLC-4 be revised to reflect such permit.

Yours very truly, |



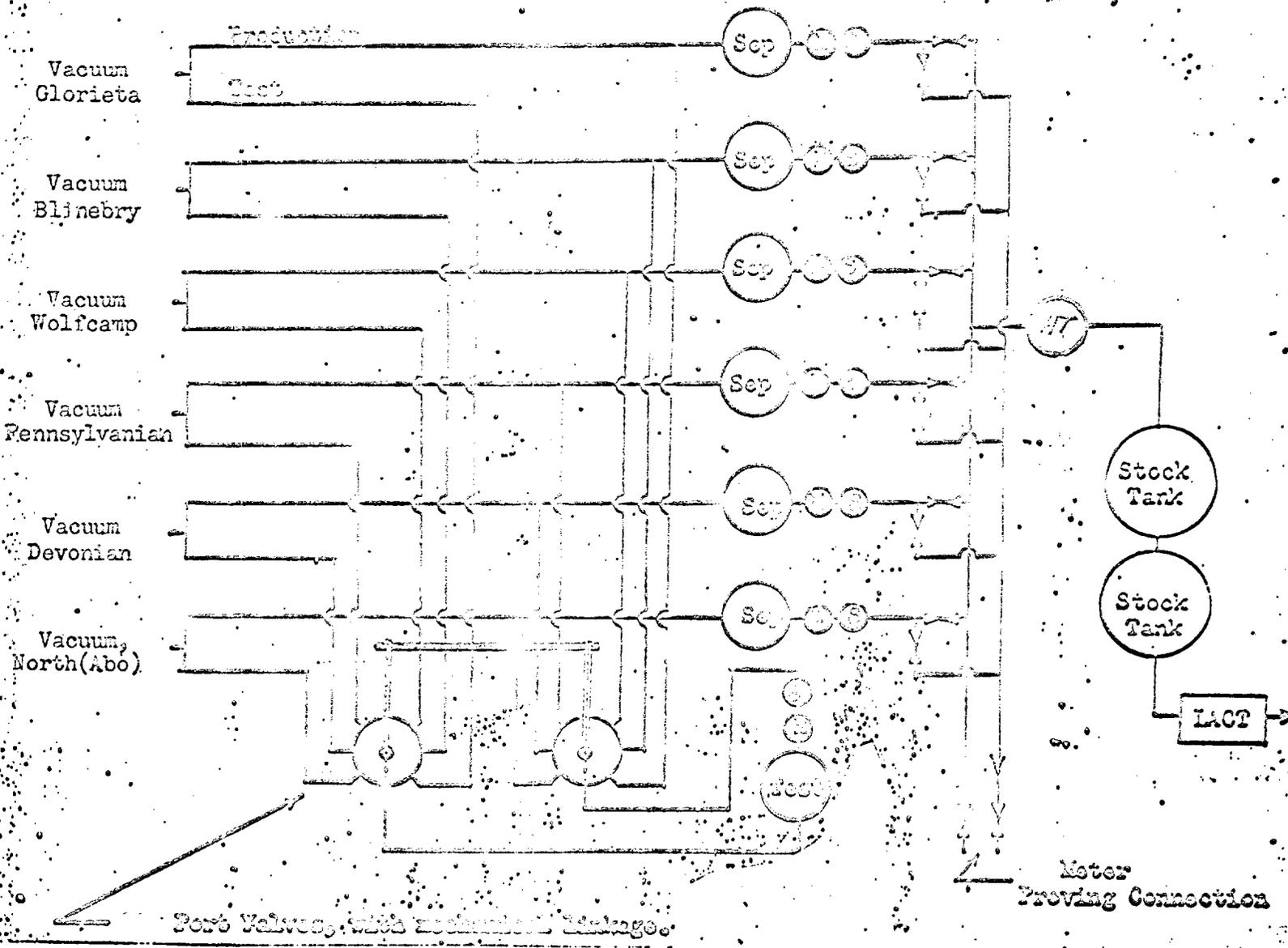
J. G. Blevins, Jr.  
Assistant District Superintendent

WPY-jr

cc: NMOCC-Hobbs  
State Land Office  
Texas-New Mexico Pipe Line

Attachments

SCHEMATIC DIAGRAM OF COMBINGLING INSTALLATION  
 State of New Mexico "L", "M", "N", "O" (NCT-1), "CG" (NCT-1)  
 and "CC" (NCT-2) Leases  
 Vacuum (Multipay) Field  
 Lea County, New Mexico



- SYMBOLS —
- Block Valve
  - Meter
  - Sampler
  - Production Separator
  - Test Separator
  - Heater Treater

R-34-E

R-35-E



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TEXACO Inc.

State of New Mexico "L", "M", "N", "CG" (NCT-1),  
"CG" (NCT-2) & "O" (NCT-1) Leases

Vacuum (Multipay) Field  
Lea County, New Mexico.

LEGEND

- A- North Abo
- B- Blinebry
- D- Devonian
- G- Glorieta
- P- Pennsylvanian
- W- Wolfcamp

Note: Wells not designated are completed in San Andres Pool. San Andres production is maintained separate from all other production.

**CB** - Central Battery

TEXACO  
INC.

PETROLEUM PRODUCTS



RECEIVED  
AUG 1 10 1964  
DRAWER 728  
HOBBS, NEW MEXICO 88240  
August 31, 1964

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

Re: Administrative Order PLC-4,  
Application for Addition to  
Present Commingling Facilities,  
TEXACO Inc. State of New  
Mexico "L", "M", "N", "O", (NCT-1),  
"CG" (NCT-1) and "CG" (NCT-2)  
Leases, Vacuum (Multipay)  
Pools, Lea County, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Please find attached a copy of written approval from  
the New Mexico Commissioner of Public Lands for TEXACO Inc.'s  
application for permit to connect a new lease to existing co-  
mmingling facilities, above subject dated August 24, 1964.

Yours very truly,

A handwritten signature in cursive script, appearing to read "J. G. Blevins, Jr.".

J. G. Blevins, Jr.  
Asst. Dist. Superintendent

WPY/kp  
Attachment

State of New Mexico



Commissioner of Public Lands

E. S. JOHNNY WALKER  
COMMISSIONER



P. O. BOX 1148  
SANTA FE, NEW MEXICO

August 27, 1964

TEXACO Inc.  
Drawer 728  
Hobbs, New Mexico 88240

Attention: Mr. J. G. Blevins, Jr.

Re: Application for Addition to  
Present Commingling Facilities of  
TEXACO Inc. State of New Mexico  
Lease Nos. B-1733, B-1080, B-1722,  
B-155, and E-7585

Gentlemen:

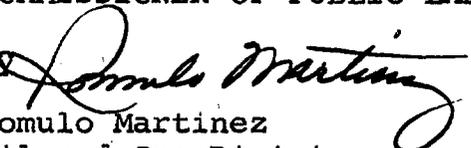
The State Land Office hereby approves the request to commingle the following pools on the above-numbered leases: North Abo, Glorieta, Blinebry, Wolfcamp, Upper Pennsylvanian, and Devonian.

This is also subject to the approval of the Oil Conservation Commission, and the Commissioner of Public Lands reserves the right to withdraw or amend this approval if there is a loss of royalty to the state through this operation.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY

  
Romulo Martinez  
Oil and Gas Division

ESJW/RM/dh

cc Oil Conservation Commission  
Oil and Gas Accounting Commission

TEXAS-NEW MEXICO PIPE LINE COMPANY

P. A. LYONS  
DIVISION MANAGER

RECORDED 113 111 1-1-64  
P. O. BOX 1510  
MIDLAND, TEXAS 79701

August 27, 1964

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

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

Gentlemen:

Texaco Inc. advises that they have made application to the New Mexico Oil Conservation Commission for permission to commingle the production from the Vacuum (North Abo, Glorieta, Blinbry, Wolfcamp, Upper Pennsylvanian, and Devonian) Pools on the State of New Mexico "L," "M," "N," "O" (NCT-1), "CG" (NCT-1) and "CG" (NCT-2) Leases, Lea County, New Mexico.

Texas-New Mexico Pipe Line Company gathers the production from these leases and has no objection, to the extent that it affects its operations, to Texaco Inc. commingling this oil through the ACT unit now serving the Texaco Inc. - State of New Mexico "O" (NCT-1) Lease.

Yours very truly,



LPS-BTK

cc: Texaco Inc.  
P. O. Drawer 728  
Hobbs, New Mexico

Mr. W. P. Foster  
P. O. Box 1027  
Lovington, New Mexico

TEXACO  
INC.

PETROLEUM PRODUCTS



DOMESTIC PRODUCING DEPARTMENT  
MIDLAND DIVISION

MAIN OFFICE OCC

1964 JUL 8 PM 1:26 BOX 3109  
MIDLAND, TEXAS

July 1, 1964

PRODUCTION PRACTICES  
COMMINGLING

Commissioner of Public Lands  
State Land Office  
P. O. Box 1148  
Santa Fe, New Mexico

Attn: Mr. Ed Buck

Gentlemen:

Please refer to our letter under the above subject dated June 9, 1964, in which we reviewed the ideas expressed during our meeting of May 27, 1964, regarding the methods that might be employed in commingling oil and gas production from different State of New Mexico Leases. It appears that the fundamental problem is related to the method of measuring and reporting the production from each individual lease. It was proposed by TEXACO Inc. and concurred with by other operators in the oil and gas industry that the various operators could furnish all of the requirements of the Commissioner of Public Lands without the necessity of individual metering when the State leases being commingled have identical working interest, royalty interest, overriding royalty interest ownership and beneficiaries. It was suggested that the most accurate method of allocating production to the individual leases would be by certified periodic well tests with the Commissioner of Public Lands notified in advance of the test dates so that the tests could be witnessed each time if deemed necessary.

These discussions were prompted by TEXACO Inc.'s previous applications approved by the Oil Conservation Commission but temporarily deferred by the Commissioner of Public Lands to commingle the oil and gas, without the use of meters on each lease, on the State of New Mexico "N" Lease in the Vacuum (Glorieta) Oil Pool and the State of New Mexico "AC" Lease in the Vacuum (Abo Reef) Oil Pool.

It was proposed to commingle the Glorieta production from the "N" lease with the Glorieta production that is already being commingled on the State of New Mexico "O" NCT-1 Lease and the State of New Mexico "L" and "M" Leases. Presently, the Glorieta production from these leases is commingled without metering and the total Glorieta production is then commingled with the production from the other zone after metering. The other application was to commingle the Abo Reef production from the "AC" NCT-1 Lease with the Vacuum (Abo Reef) oil production from the State of New Mexico "AE" Lease. At the previously mentioned meeting held in your office on May 27, 1964, it was decided that your office could best rule on these two applications if economic data were presented showing sufficient loss in revenue to warrant continued commingling operations without metering equipment. In this letter we submit the requested information. However, since the original applications were submitted, it has been decided to commingle a third lease with the "AC" and "AE" Leases which does not have a common beneficiary. In this instance, due to the fact that the beneficiaries are not common, all metering facilities will be installed and your approval of the previous application for commingling without meters will not be necessary. We still request your approval of the application pertaining to the State of New Mexico "N" Lease in the Vacuum (Glorieta) Oil Pool.

State of New Mexico "AE" and "AC" NCT-1 Leases

In reviewing the economics of the use of metering equipment to commingle the production from these two leases the additional costs can be attributed to the following three categories:

1. Meter equipment and installation cost:		
State of New Mexico "AE" Lease	\$1370	
State of New Mexico "AC" NCT-1 Lease	5940	
		<u>\$ 7,310</u>
2. Meter operation and maintenance		
Cost: \$290/month x 12 x 17-1/2 years		\$60,900
3. Value of oil unrecoverable due to premature abandonment caused by additional operating cost:		
5000 bbls. @ \$2.95		\$14,750
		<u><u>\$82,960</u></u>
	TOTAL	\$82,960

Reference to the attached predicted performance curves will show some of the information that was used in arriving at the above estimates. This curve is a portion of the predicted performance decline curve at abandonment which shows the present anticipated economic limit abandonment rate of 1200 barrels oil per month from twenty wells on these leases. A detailed estimate was then prepared indicating that the additional meter operating and maintenance costs would be \$290 per month. Therefore, the increase in abandonment rate due to the meter operating and maintenance costs would be the additional monthly operating cost of \$290 divided by the anticipated maximum lifting cost at time of abandonment of \$2.37 per barrel, which would equal an additional 122 barrels oil per month. The increased abandonment rate shown on the performance curve due to the use of meters would be the rate without meters of 1200 barrels oil per month plus the increase due to the use of meters of 122 barrels, or a total of 1322 barrels oil per month. The amount of crude oil reserves under the decline curve between the two economic limits would therefore be 5000 barrels oil and would represent that amount of oil that would be abandoned in the reservoir due to the premature abandonment made necessary by the additional meter operating and maintenance costs.

State of New Mexico "L", "M", "N", and "O" NCT-1 Leases

Economics for these leases in the Vacuum (Glorieta) Oil Pool for commingling were determined in the same manner as previously discussed for the Vacuum (Abo Reef) Leases. The loss resulting from the use of meters in commingling is as follows:

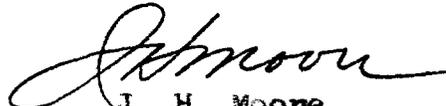
1. Meter equipment and installation cost:	
State of New Mexico "L" Lease	\$4550
State of New Mexico "M" Lease	\$4575
State of New Mexico "N" Lease	\$4550
State of New Mexico "O" Lease	\$2650
	<hr/>
	\$16,325
2. Meter operation and maintenance	
Cost: \$352/month x 12 x 21 years	\$88,704
3. Value of oil unrecoverable due to	
premature abandonment caused by	
additional operating cost:	
9730 bbls. @ \$2.97	\$28,898
	<hr/>
	<hr/>
TOTAL	\$133,927

A predicted performance curve was prepared for this analysis also and is attached hereto representing the portion of the decline curve at abandonment. In this instance, an economic limit abandonment rate of 624 barrels oil per month from fifteen wells on these leases was estimated from current lifting cost data. Increased operating costs due to the use of meters for commingling was estimated to be \$352 per month. Correspondingly, the maximum lifting cost anticipated at abandonment was \$2.39 per barrel. The increase in abandonment rate would therefore be 352 barrels per month divided by \$2.39 per barrel or 147 additional barrels oil per month. The premature abandonment rate would therefore be 771 barrels oil per month from these fifteen wells and again, the area beneath the decline curve between the two economic limits would be equal to the amount of oil abandoned in the reservoir due to the cessation of operations at an early date. In this case, the amount of oil, 9730 barrels, is equivalent to \$28,898.

As can be seen from this analysis, the total loss incurred by the use of meters in commingled operations on these two installations alone would approximate one-quarter million dollars during the life of the two oil pools. The direct loss to the State of New Mexico would be the value of the 1/8th royalty interest in the oil that would be abandoned in the reservoir due to premature abandonment caused by meter operating and maintenance costs. This would amount to approximately \$5456. This amount is significant; however, the real loss that would result would be that of \$216,887 representing additional costs to the operator that could and would be used for other more productive purposes, the most important of which would be in the exploration for additional oil reserves. It is quite conceivable that this loss of one-quarter million dollars, if eliminated and made available for exploration or other productive purposes, could result in the gain of substantially larger amounts, both to the State of New Mexico and the individual oil operator.

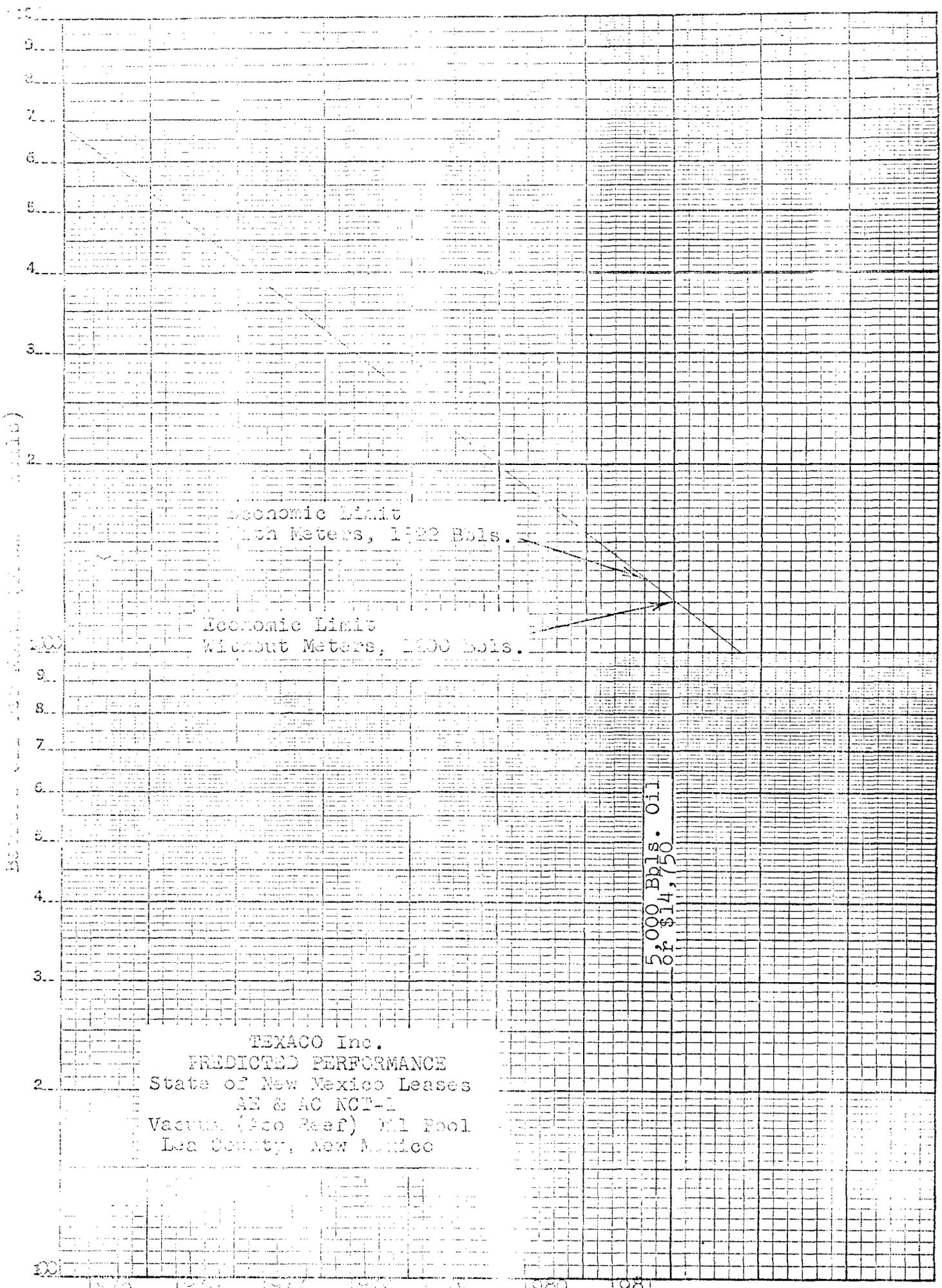
The economic analyses presented herein represent estimates of future performance based upon accurate current operational data. However, even if the degree of accuracy were not of a high order, the economic loss to the State of New Mexico and to the oil and gas industry resulting from statewide metering of all commingled state leases would be extremely high. In these examples, a loss of approximately a quarter million dollars would be incurred on only six leases in two oil pools involving only one operator. The total loss throughout the state would most certainly be many times this amount. It is hoped that these data will be of use to you and your department and if additional information is required, please advise.

Yours very truly,



J. H. Moore  
Ass't. Division Manager

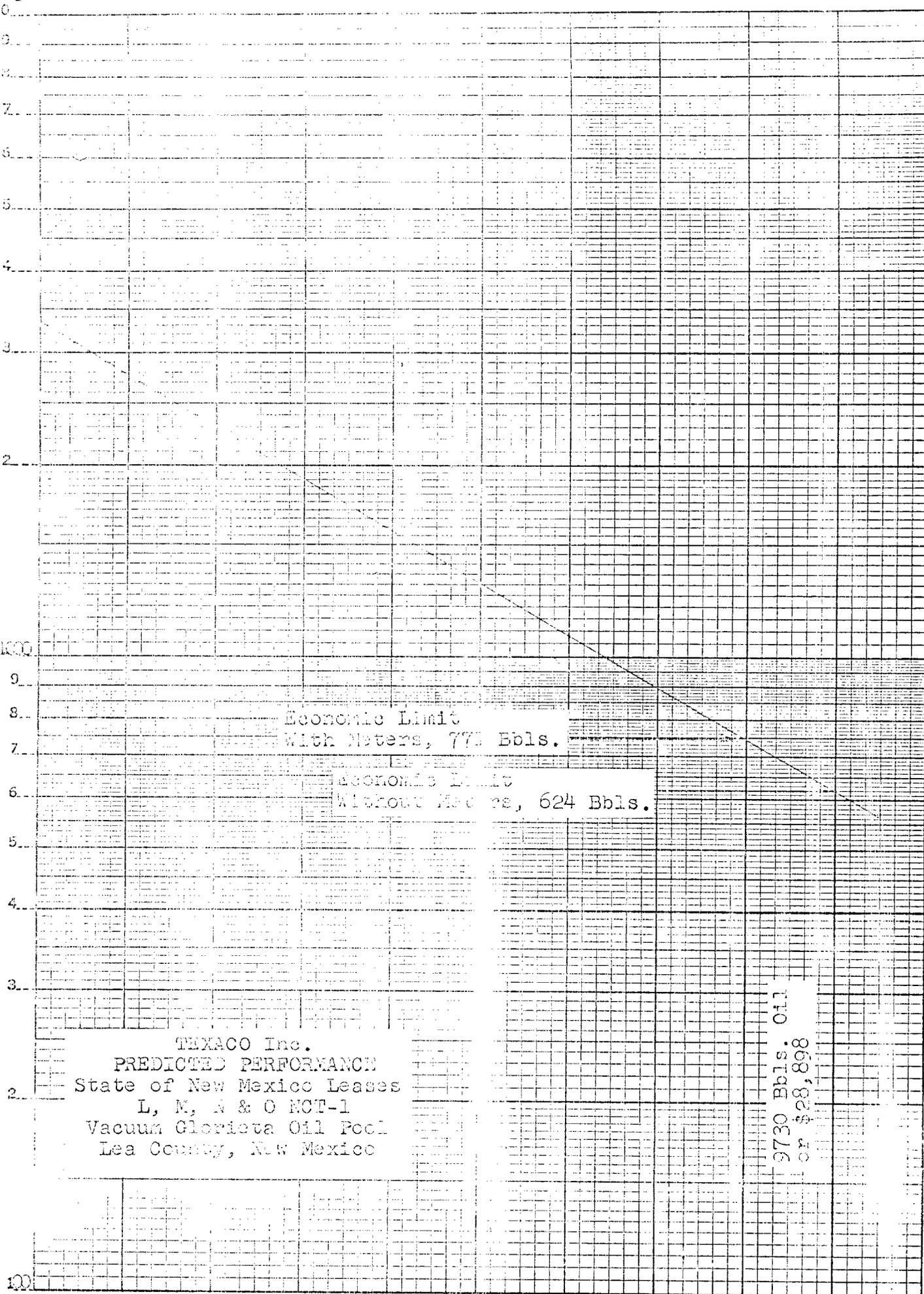
SEMILOGARITHMIC 359-60  
KNOXVILLE, TENN. 37901  
2 CIRCLES X 20 DIVISIONS



TEXACO Inc.  
PREDICTED PERFORMANCE  
State of New Mexico Leases  
AE & AC NCT-1  
Vacuna (Boo Reef) Oil Pool  
Lea County, New Mexico

SEMI LOGARITHMIC 359-60  
KROFFER & ASSOCIATES, INC.  
7 CLEVELAND ST. DIVISIONS

Barrel Oil per Acre (From 15 Wells)



TEXACO Inc.  
PREDICTED PERFORMANCE  
State of New Mexico Leases  
L, M, N & O NCT-1  
Vacuum Glorieta Oil Pool  
Lea County, New Mexico

Economic Limit  
With Netters, 770 Bbls.

Economic Limit  
Without Netters, 624 Bbls.

9730 Bbls. Oil  
for \$28,898

1979 1980 1981 1982 1983 1984 1985 1986

TEXACO  
INC.

PETROLEUM PRODUCTS



DRAWER 728

HOBBS, NEW MEXICO 88240

MAIN OFFICE OCC

1964 JUN 25 AM 7 41

June 25, 1964

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

*amend  
PLC of  
to include  
state CG  
lease*

Re: Application for Addition  
to Present Commingling  
Facilities, TEXACO Inc.  
State of New Mexico "L",  
"M", "N", and "O" (NCT-1)  
Leases, Vacuum Pools, Lea  
County, New Mexico, Admin-  
istrative Order No. PLC-4.

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

In accordance with New Mexico Oil Conservation Commission Rules 303 (b) and 309-B, TEXACO Inc. hereby makes application for administrative approval for an exception to Rules 303 (a) and 309-A to permit commingling of production from the Vacuum (North Abo, Glorieta, Blinbry, Wolfcamp, Pennsylvanian, and Devonian) Pools on State of New Mexico "L", Lease, NE/4 of Section 1, T-18-S, R-34-E; State of New Mexico "M" Lease, NW/4 of Section 1, T-18-S, R-34-E; State of New Mexico "N" Lease, W/4 of Section 30, T-17-S, R-35-E; State of New Mexico "O" (NCT-1) Lease, S/2 of N/2, SE/4 and S/2 of SW/4 of Section 36, T-17-S, R-34-E; and State of New Mexico "CG" (NCT-1) Lease, SE/4 of NE/4 of Section 30, T-17-S, R-35-E, Lea County, New Mexico. The following is stated in support of this request:

1. TEXACO Inc. is the operator and owner of each of the five leases and working and royalty interests are common. The royalty interest is held by the State of New Mexico, common schools being the beneficiary, and a copy of this application is being sent this date to the State Land Office, P. O. Box 1148, Santa Fe, New Mexico, by registered mail.

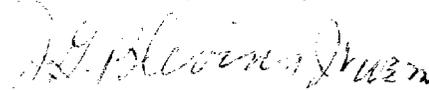
2. Administrative Order PLC-4, as revised by New Mexico Oil Conservation Commission letter dated May 18, 1964, authorizes commingling of production from the aforesaid pools, but is limited to the State of New Mexico "L", "M", "N" and "O" (NCT-1) Leases.
3. The currently used central battery, located on the State of New Mexico "O" (NCT-1) Lease, has metering facilities to accurately determine the production from each pool prior to being commingled and has metering test facilities to periodically determine the producing capacity of each well completed in each pool. ACT equipment is being used which is capable, along with the currently used metering facilities of accommodating the expected production from the State of New Mexico "CG" (NCT-1) Lease if and after production from the State of New Mexico "CG" (NCT-1) Lease has been commingled with that currently being commingled in the central battery.
4. In accordance with Section II, Item 2-A and Section III, Item 1 of the current "Manual for the Installation and Operation of Commingling Facilities", it is proposed to meter, prior to commingling, production from all zones using positive displacement type meters equipped with samplers and non-reset counters and to allocate well and lease production on the basis of periodic well tests.
5. Texas-New Mexico Pipe Line Company is the purchaser of the commingled production from the aforesaid central battery and a copy of this application is being sent this date to them at P. O. Box 1510, Midland, Texas.

In view of the facts recited above, it is respectfully requested that administrative approval of an exception to Rules 303 (a) and 309-A be granted TEXACO Inc. to permit commingling of production from the Vacuum (North Abo, Glorieta,

Page Three  
New Mexico Oil Conservation Commission  
June 25, 1964

Blinebry, Wolfcamp, Pennsylvanian and Devonian) Pools on the  
State of New Mexico "L", "M", "N" "O" (NCT-1) and "CG" (NCT-1)  
Leases, Lea County, New Mexico.

Yours very truly,



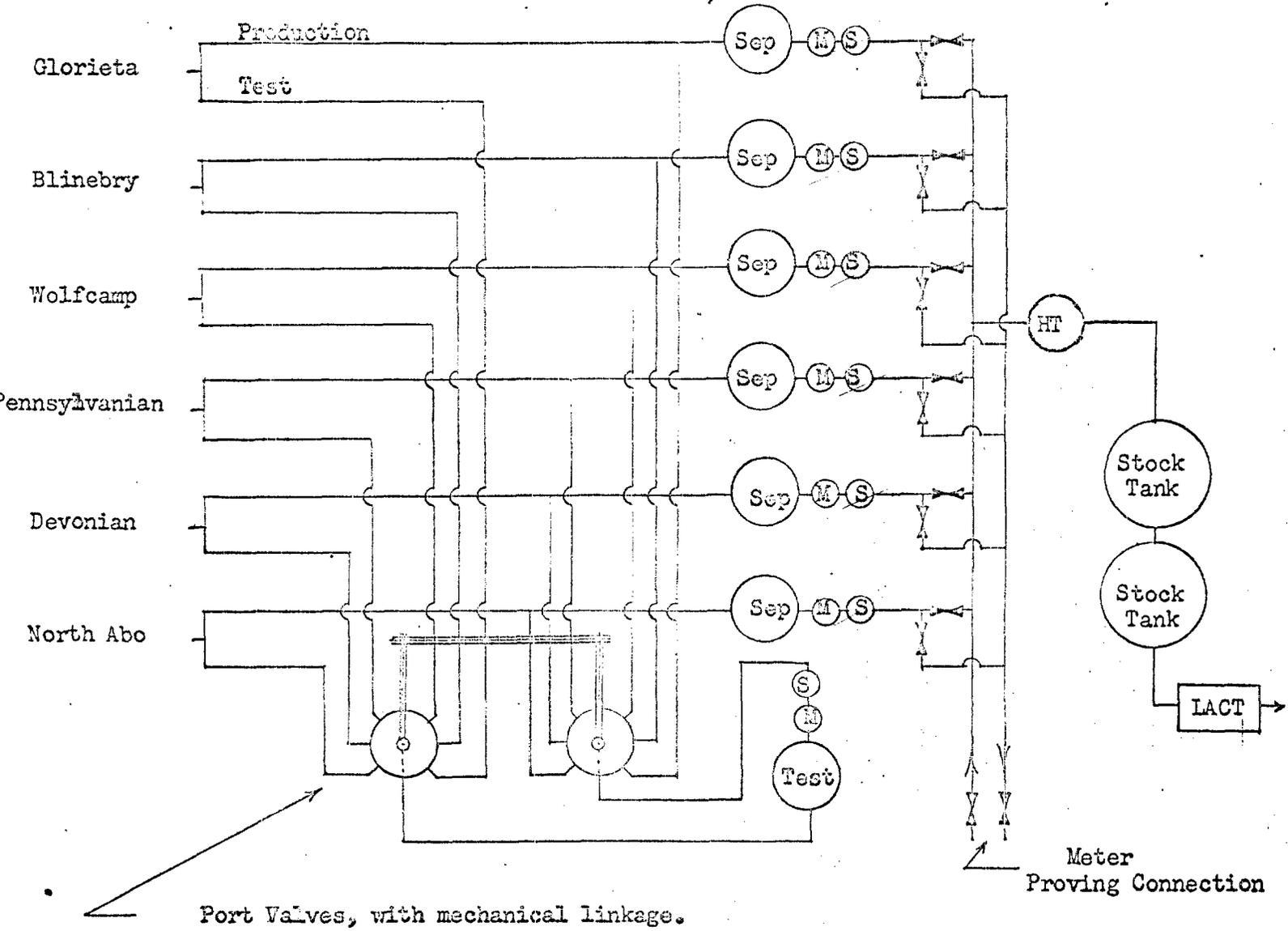
J. G. Blevins, Jr.  
Assistant District  
Superintendent

WPY:sg  
cc: NMOCC-Hobbs  
State Land Office  
Texas-New Mexico Pipe Line Co.

Attachments

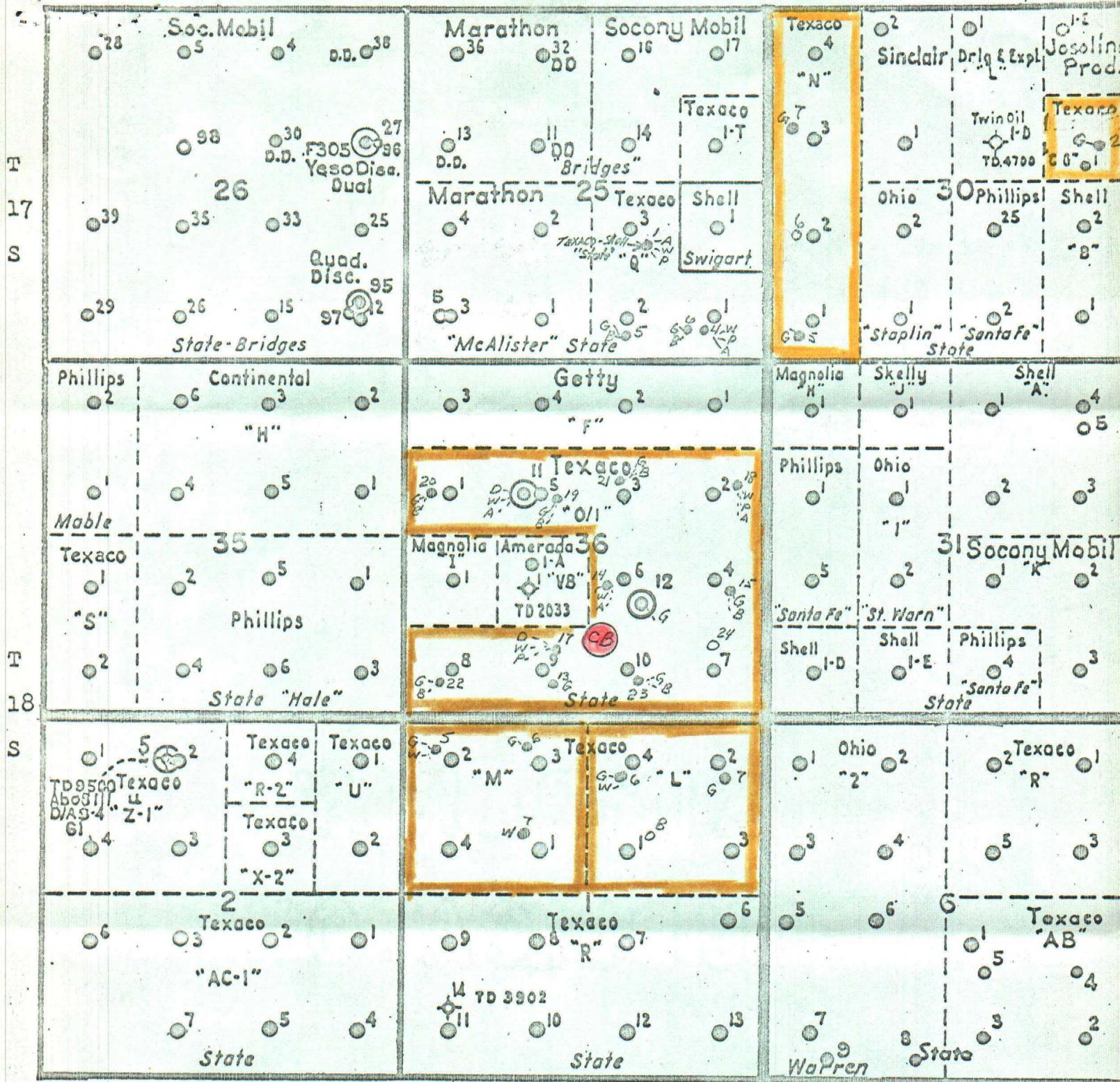
SCHEMATIC DIAGRAM OF COMINGLING INSTALLATION

State of New Mexico "L", "M", "N", "O" (NCT-1) and "CG" (NCT-1) Leases  
 Vacuna (Deep) Pools  
 Lea County, New Mexico



Port Valves, with mechanical linkage.

- SYMBOLS ---
-  Block Valve
  -  Meter
  -  Sampler
  -  Production Separator
  -  Test Separator
  -  Heater Treater



TEXACO INC.

State of New Mexico "L", "M", "N", & "O" (NCT-1) Leases

Vacuum Pools  
Lea County New Mexico

Scale 1"-2000

Legend

- A- North Abo
- B- Blinebry
- D- Devonian
- G- Glorieta
- P- Pennsylvanian
- W- Wolfcamp
- CB - Central Battery

Note: Wells not designated are completed in San Andres. Production is not to be Commingled.

*Case file*

TEXAS-NEW MEXICO PIPE LINE COMPANY

MAIN OFFICE OCC

1964 JUL 10 PM 1:28 P. O. BOX 1510  
MIDLAND, TEXAS 79701

P. A. LYONS  
DIVISION MANAGER

July 8, 1964

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

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

Gentlemen:

Texaco Inc. advises that they have made applica-  
tion to the New Mexico Oil Conservation Commission for per-  
mission to commingle the production from the Vacuum (North  
Abo, Glorieta, Blinbry, Wolfcamp, Pennsylvanian, and Devonian)  
Pools into a common tank battery to serve their State of New  
Mexico "L" Lease, NE/4 of Section 1, T-18-S, R-34-E; State of  
New Mexico "M" Lease, NW/4 of Section 1, T-18-S, R-34-E; State  
of New Mexico "N" Lease, W/4 of Section 30, T-17-S, R-35-E;  
State of New Mexico "O" (NCT-1) Lease, S/2 of N/2, SE/4 and  
S/2 of SW/4 of Section 36, T-17-S, R-34-E; and State of New  
Mexico "CG" (NCT-1) Lease, SE/4 of NE/4 of Section 30, T-17-S,  
R-35-E, Lea County, New Mexico.

Texas-New Mexico Pipe Line Company gathers the pro-  
duction from these leases and has no objection, to the extent  
that it affects its operations, to Texaco Inc. commingling  
this oil.

Yours very truly,

*P. A. Lyons*

LPS-BTK

cc: Texaco Inc.  
P. O. Drawer 728  
Hobbs, New Mexico 88240

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

May 18, 1964

Texaco Inc.  
Drawer 728  
Hobbs, New Mexico

Attention: Mr. J. G. Blevins, Jr.

Amendment  
Administrative Order FLC-4

Gentlemen:

Reference is made to your letter dated April 16, 1964, wherein you request that Administrative Order FLC-4 dated July 9, 1963, as amended August 7, 1963, which authorizes the commingling of Glorieta, Blinbry, Wolfcamp, Pennsylvania, Devonian, and Abo production, Vacuum Field, Lea County, New Mexico, from your State "L", State "M", and State "O" Leases be amended to include your State of New Mexico "N" Lease, comprising the W/2 W/2 of Section 30, Township 17 South, Range 35 East, Lea County, New Mexico.

It is our understanding that the ownership of all four leases is identical throughout so that separate lease measurement is not necessary. It is our further understanding that separate measurement is made of the production from all six of the aforesaid pools prior to commingling.

Administrative Order FLC-4 as previously amended is hereby further amended to include the State of New Mexico "N" Lease.

Very truly yours,

A. L. Porter, Jr.  
Secretary-Director

ALF:DSN:sg

cc: Oil Conservation Commission (with enclosure) - Hobbs  
Oil & Gas Engineering Committee - Hobbs  
Oil & Gas Accounting Commission - Santa Fe  
State Land Office - Santa Fe  
Administrative Order FLC-4 File

C  
O  
P  
Y

TEXACO  
INC.

PETROLEUM PRODUCTS



DRAWER 728

HOBBS, NEW MEXICO 88240

1964 APR 15 AM 3 20

April 16, 1964

*Approved  
PLC-4*

*State of New Mexico  
State Land Office  
State of New Mexico  
State of New Mexico*

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

Re: Application for Addition to Present  
Commingling Facilities, TEXACO Inc.  
State of New Mexico "L", "M", and "O"  
(NCT-1) Leases, Vacuum Field, Lea  
County, New Mexico, Administrative  
Order No. PLC-4.

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

In accordance with New Mexico Oil Conservation Commission Rules 303 (b) and 309-B, TEXACO Inc. hereby makes application for administrative approval for an exception to Rules 303 (a) and 309-A to permit commingling of production from the Vacuum (North Abo, Glorieta, Blinebry, Wolfcamp, Pennsylvanian and Devonian) Pools on State of New Mexico "L" Lease, NE/4 of Section 1, T-18-S, R-34-E, State of New Mexico "M" Lease, NW/4 of Section 1, T-18-S, R-34-E, State of New Mexico "N" Lease, W/4 of Section 30, T-17-S, R-35-E, and State of New Mexico "O" (NCT-1) Lease, S/2 of N/2, SE/4 and S/2 of SW/4 of Section 36, T-17-S, R-34-E, Lea County, New Mexico. The following is stated in support of this request.

1. TEXACO Inc. is the operator and owner of each of the four leases and working and royalty interests are common. The royalty interest is held by the State of New Mexico, common schools being the beneficiary, and a copy of this application is being sent this date to the State Land Office, P. O. Box 1148, Santa Fe, New Mexico, by registered mail.

2. Administrative Order PLC-4 authorizes commingling of production from the aforesaid pools but limited to the State of New Mexico "L", "M", and "O" (NCT-1) Leases.

3. The currently used central battery, located on the State of New Mexico "O" (NCT-1) Lease, has metering facilities to accurately determine the production from each pool prior to being commingled and has

*4/16/64*

April 14, 1964

metering test facilities to periodically determine the producing capacity of each well completed in each pool. ACT equipment is being used which is capable, along with the currently used metering facilities, of accommodating the expected production from the State of New Mexico "N" Lease if and after production from the State of New Mexico "N" Lease has been commingled with that currently being commingled in the central battery.

4. In accordance with Section II, Item 2-A and Section III, Item 1 of the current "Manual for the Installation and Operation of Commingling Facilities", it is proposed to meter, prior to commingling, production from all zones using positive displacement type meters equipped with samplers and non-reset counters, and to allocate well and lease production on the basis of periodic well tests.

5. Texas-New Mexico Pipe Line Company is the purchaser of the commingled production from the aforesaid central battery and a copy of this application is being sent this date to them at P. O. Box 1510, Midland, Texas.

In view of the facts recited above, it is respectfully requested that administrative approval of an exception to Rules 303 (a) and 309-A be granted TEXACO Inc. to permit commingling of production from the Vacuum (North Abo, Glorieta, Blinbry, Wolfcamp, Pennsylvanian, and Devonian) Pools on the State of New Mexico "L", "M", "N", and "O" (NCT-1) Leases, Lea County, New Mexico.

Yours very truly,



J. G. Blevins, Jr.  
Assistant District Superintendent

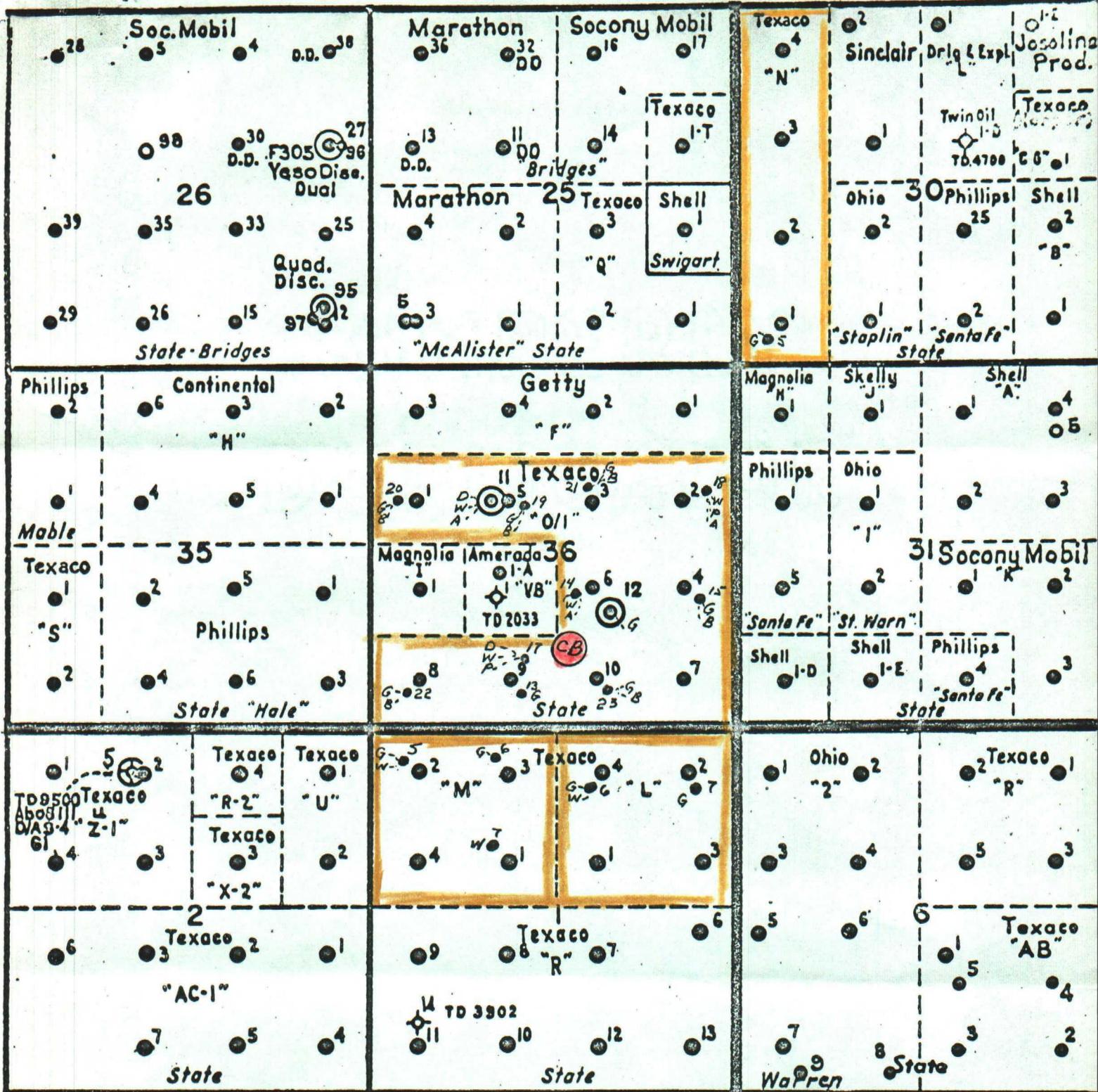
WPY-jr

Attachments

cc: NMOCC-Hobbs  
State Land Office  
Texas-New Mexico Pipe Line Co.

T  
17  
S

T  
18  
S



TEXACO INC.

State of New Mexico "L", "M", "N", & "O" (NCT-1) Leases

Vacuum Pools

Lea County New Mexico

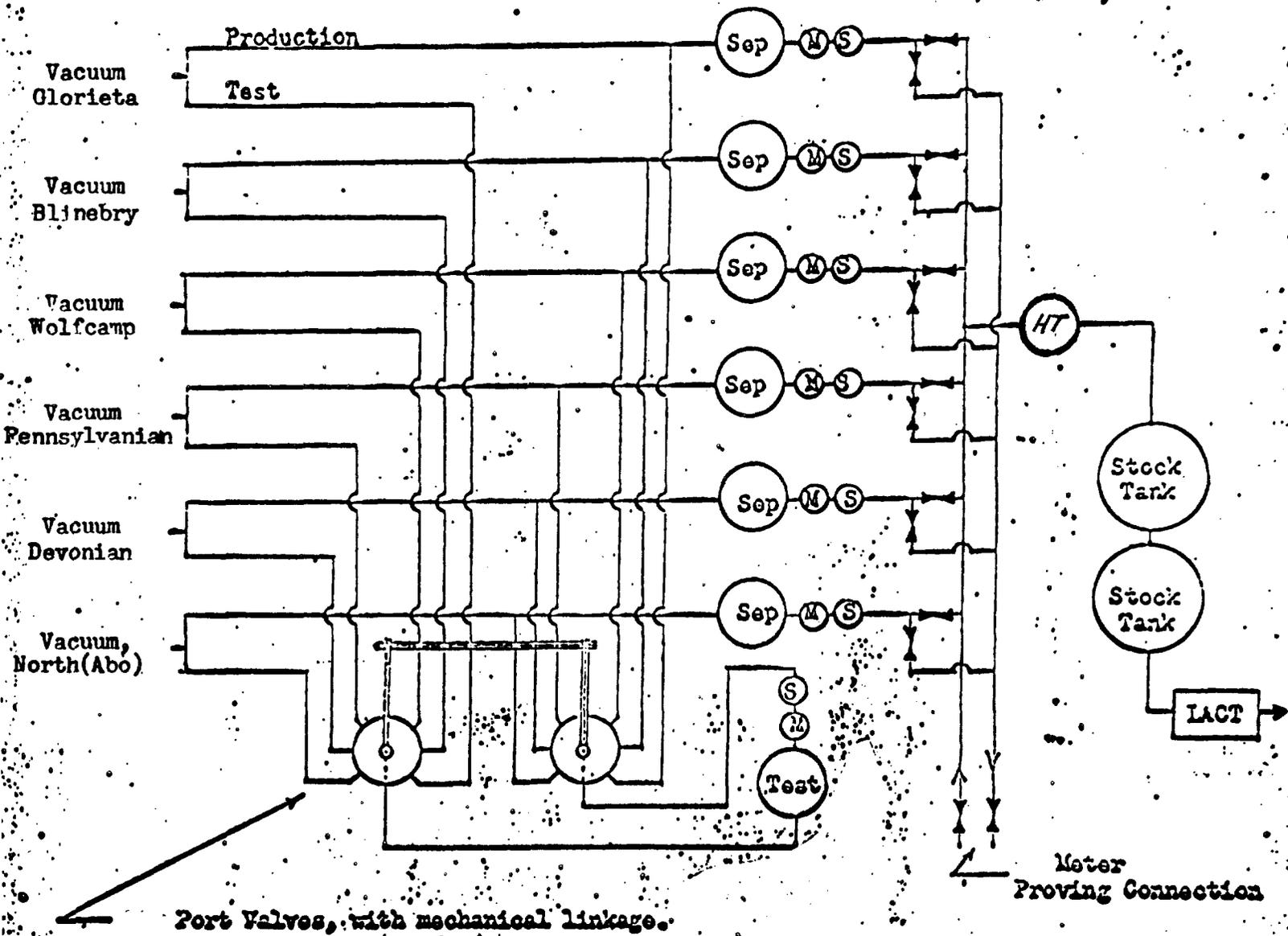
Scale 1"-2000

Legend

- A- North Abo
- B- Blinebry
- D- Devonian
- G- Glorieta
- P- Pennsylvanian
- W- Wolfcamp
- CB - Central Battery

Note: Wells not designated are completed in San Andres. Production is not to be Commingled.

SCHEMATIC DIAGRAM OF COMINGLING INSTALLATION  
 State of New Mexico "L", "M", "N", & "O" (NCT-1) Leases  
 Vacuum (Deep) Area  
 Lea County, New Mexico



- SYMBOLS —
- Block Valve
  - M Meter
  - S Sampler
  - Sep Production Separator
  - Test Test Separator
  - HT Heater Treater

TEXAS-NEW MEXICO PIPE LINE COMPANY

P. A. LYONS  
DIVISION MANAGER

P. O. BOX 1510  
MIDLAND, TEXAS 79701

*7:00 PM - 4*

April 17, 1964

1964 APR 19 AM 11:51

MAIN OFFICE OCC

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

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

Gentlemen:

Texaco Inc. advises that they have made applica-  
tion to the New Mexico Oil Conservation Commission for per-  
mission to commingle the production from the Vacuum (North  
Abo, Glorieta, Blinbry, Wolfcamp, Pennsylvanian, and  
Devonian) Pools on their State of New Mexico "L," "M," "N,"  
and "O" (NCT-1) Leases in Lea County, New Mexico.

Texas-New Mexico Pipe Line Company gathers the  
production from these leases and has no objection, to the  
extent that it affects its operations, to Texaco Inc.  
commingling this oil through the ACT unit now serving  
the Texaco Inc. - State of New Mexico "O" (NCT-1) Lease.

Yours very truly,

*P. A. Lyons*

LPS-BTK

cc: Texaco Inc.  
P. O. Drawer 728  
Hobbs, New Mexico 88240

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

August 7, 1963

C  
O  
P  
Y  
Texaco Inc.  
P. O. Box 728  
Hobbs, New Mexico

Attention: Mr. H. D. Raymond

AMENDMENT  
Administrative Order PLC-4 ✓

Gentlemen:

Reference is made to your letter of July 10, 1963, wherein you request that Administrative Order PLC-4 which authorizes the commingling of Glorieta, Blinbry, Wolfcamp, Pennsylvanian, and Devonian production from your State "L", "M", and "O" Leases, Vacuum Field, Lea County, New Mexico, be amended to include North Vacuum-Abo production in the authority contained therein. It is our understanding that all zones producing into this installation will be separately metered prior to commingling.

Pursuant to the authority granted me under the provisions of Rules 303 (b) and 309-B of the Commission Rules and Regulations, you are hereby authorized to commingle the production from the aforesaid pools and leases in the above-described manner. Provided however, that the installation shall be operated in accordance with the Commission "Manual for the Installation and Operation of Commingling Facilities," including the requirement for non-reset counters on the meters. You are also requested to notify the Hobbs District Office of the Commission at such time as the installation is complete in order that a field inspection of the installation may be made.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/DSH/ear

cc: Oil Conservation Commission (with enclosure) - Hobbs  
Oil & Gas Engineering Committee - Hobbs  
State Land Office - Santa Fe

4

**TEXACO**  
INC.

PETROLEUM PRODUCTS



P.O. Box 728  
Hobbs, New Mexico  
July 10, 1963

113 481 111 22

New Mexico Oil Conservation Commission  
P.O. Box 871  
Santa Fe, New Mexico

*add  
N. V. ...  
L. ...*

Re: Application for Addition to Present  
Commingling Facilities, TEXACO Inc.  
State of New Mexico "L" and "M" and  
"O" (NCT-1) Leases, Vacuum Field,  
Lea County, New Mexico.

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

In accordance with New Mexico Oil Conservation Commission Rules 303(b) and 309(b), TEXACO Inc. hereby makes application for administrative approval for an exception to Rules 303(a) and 309(a) to permit commingling of production from the Vacuum, North (Abo) Pool with production from the Vacuum Field, Glorieta, Blinebry Wolfcamp, Pennsylvanian and Devonian formations on TEXACO Inc. State of New Mexico "L" Lease NE/4 of Section 1, T-18-S, R-34-E, State of New Mexico "M" Lease NW/4 of Section 1, T-18-S, R-34-E, and State of New Mexico "O" (NCT-1) Lease, S/2 of N/2, SE/4 and S/2 of SW/4 Section 36, T-17-S, R-34-E, Lea County, New Mexico. The following is stated in support of the request.

1. TEXACO Inc. is the Operator of the three leases involved. Attached is a plat showing the location of all wells on the subject leases and the pool from which they are producing.

2. Administrative order PC-128 dated March 1, 1963 authorized commingling of production from the Glorieta, Blinebry, Wolfcamp, Pennsylvanian and Devonian formations on the TEXACO Inc. State of New Mexico "O" (NCT-1) Lease, Vacuum Field, Lea County, New Mexico. Application was made on June 18, 1963 for an exception to Rule 309(a) to permit commingling the production from the State of New Mexico "L" and "M" Leases with State of New Mexico "O" (NCT-1) Lease, Glorieta, Blinebry, Wolfcamp, Pennsylvanian, and Devonian formation, Vacuum Field, Lea County, New Mexico.

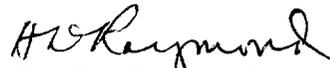
July 10, 1963

3. Royalty interest in the subject leases and pools is common and is held by the State of New Mexico. Application to commingle the Vacuum Field, Glorieta, Blinebry, Wolfcamp, Pennsylvanian and Devonian production from TEXACO Inc. State of New Mexico "L", "M", and "O" (NCT-1) Leases, Lea County, New Mexico was approved by the Commissioner of Public Lands on June 28, 1963.

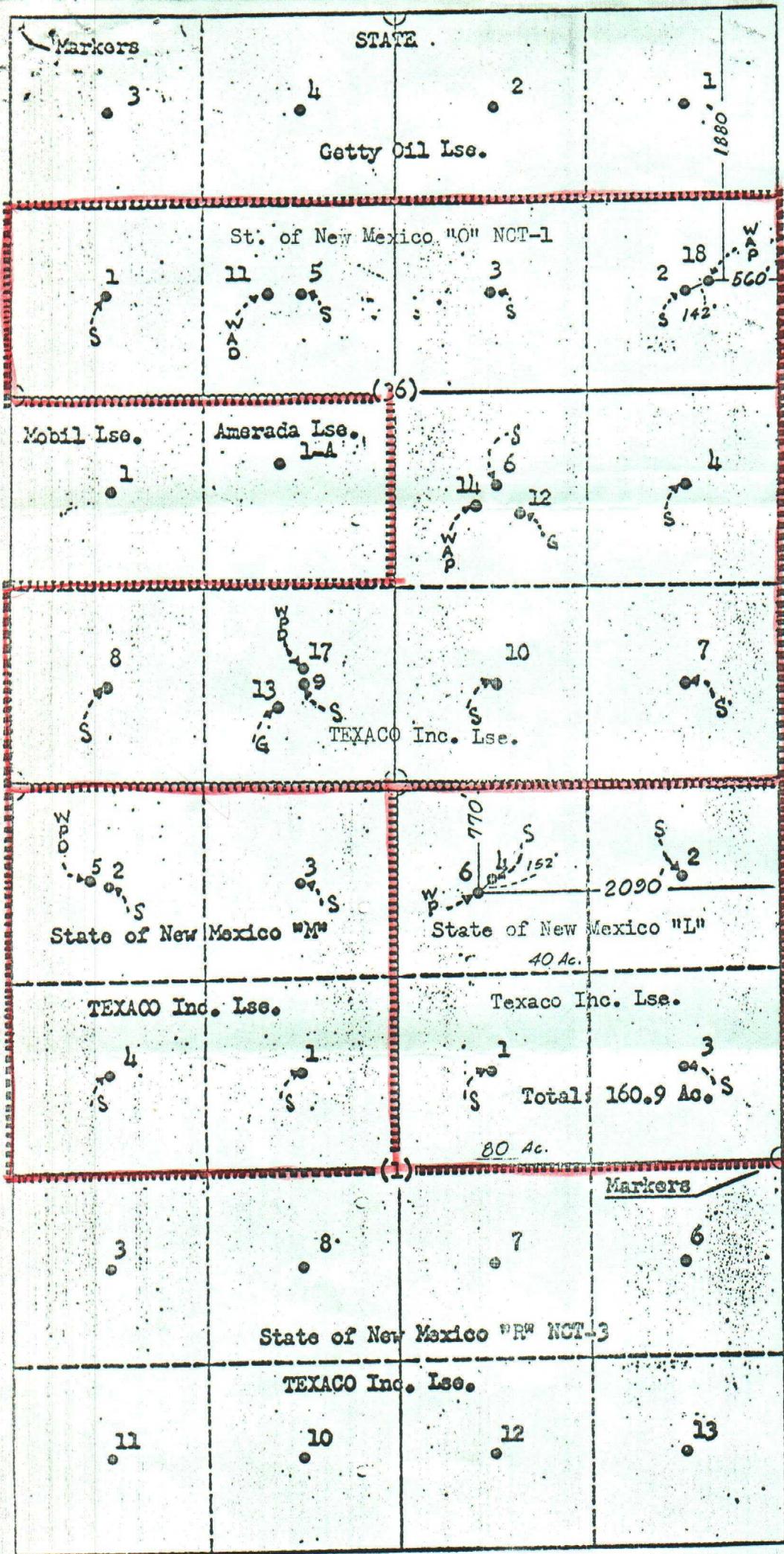
4. In accordance with Item II, Section 2-A and Item III, Section 1 of the current "Manual for the Installation and Operation of Commingling Facilities", it is proposed to meter, prior to commingling, production from all zones using positive displacement type meters equipped with samplers and non-reset counters; and to allocate well production on the basis of periodic well tests.

In view of the facts recited in this application, it is respectfully requested that administrative approval of an exception to Rules 303(a) and 309(a) be granted TEXACO Inc. to permit commingling the production from the Vacuum, North (Abo) and the Vacuum Field; Glorieta, Blinebry, Wolfcamp, Pennsylvania and Devonian formations on the TEXACO Inc. State of New Mexico "L", "M" and "O" (NCT-1) Leases, Lea County, New Mexico.

Yours very truly,

  
H. D. Raymond  
Assistant District  
Superintendent

ACK-sc



TEXACO INC.  
 STATE OF NEW MEXICO  
 "L" and "M" and "O" (NCT-1)  
 VACUUM FIELD  
 LEA COUNTY, NEW MEXICO

LEGEND:

- S - San Andres
- G - Glorieta
- B - Blinbry
- W - Wolfcamp
- A - Abo
- P - PENNSYLVANIAN
- D - DEVONIAN

TEXACO  
INC.

PETROLEUM PRODUCTS



DRAWER 728

HOBBS, NEW MEXICO 88240

August 5, 1963

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Re: Application for Addition to  
present commingling facilities,  
TEXACO Inc. State of New Mexico  
"L" and "M" and "O" (NCT-1)  
Leases, Vacuum Field, Lea County,  
New Mexico.

Attention: Mr. Dan Nutter

Gentlemen:

Attached is a schematic diagram to be included with  
our application for an exception to Rules 303(a) and 309(a)  
dated July 10, 1963, concerning the above subject.

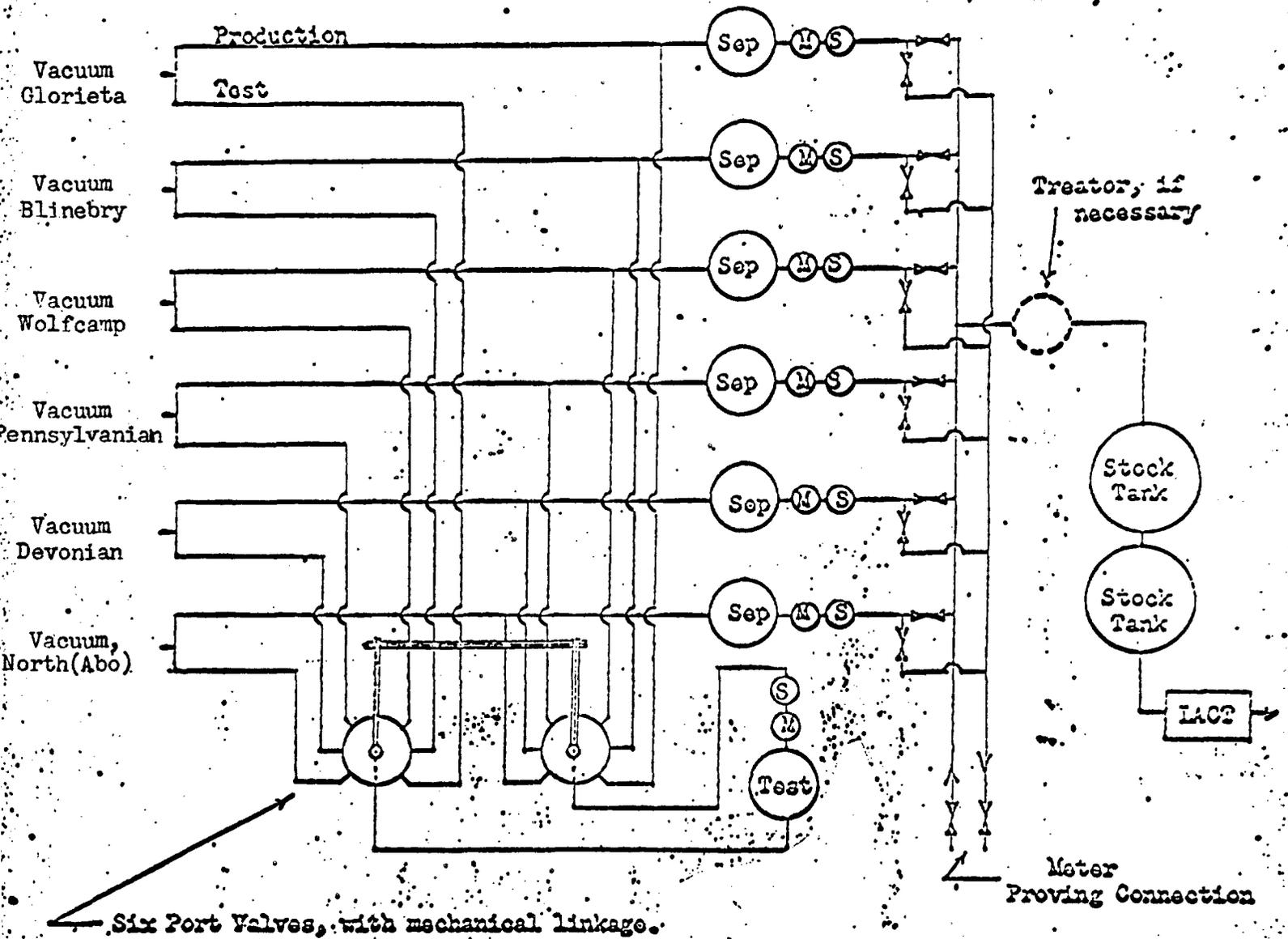
We will appreciate you including this as part of  
the application.

Yours very truly,

H. D. Raymond  
Assistant District Superintendent

ACK/jw  
cc: NMOCC, Hobbs  
Attachment

SCHEMATIC DIAGRAM OF COMINGLING INSTALLATION  
 State of New Mexico "L", "M", & "O" (NCT-1) Leases  
 Vacuum (Deep) Area  
 Lea County, New Mexico



- SYMBOLS —
- ▶ Block Valve
  - ⊙ M Meter
  - ⊙ S Sampler
  - ⊙ Sep Production Separator
  - ⊙ Test Test Separator

July 15, 1963

Texaco, Inc.  
P. O. Box 728  
Hobbs, New Mexico

Re: Application for Addition to  
Present Commingling Facilities,  
Texaco, Inc. State of New  
Mexico "L" and "M" and "O"  
(MCT-1) Leases, Vacuum Field,  
Lea County, New Mexico.  
Administrative Order PC-128

Gentlemen:

We can find no objection to the above so we, therefore,  
approve your request. Thank you for the schematic diagram.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:

ROMULO MARTINEZ  
Oil and Gas Department

RSJW/EM/mm

cc: Oil Conservation Commission  
Santa Fe, New Mexico

Oil and Gas Accounting Commission  
Santa Fe, New Mexico

**OIL CONSERVATION COMMISSION**

P. O. BOX 871

SANTA FE, NEW MEXICO

July 9, 1963

C  
O  
P  
Y  
  
Texaco Inc.  
P. O. Box 728  
Hobbs, New Mexico

Attention: Mr. H. D. Raymond

**Administrative Order PLC-4**

Gentlemen:

Reference is made to your letter of June 18, 1963, wherein you request authority to commingle the Glorieta, Blinbry, Wolfcamp, Pennsylvanian, and Devonian production from your State "L" Lease comprising the NE/4 of Section 1, Township 18 South, Range 34 East, your State "M" Lease comprising the NW/4 of Section 1, and your State "O" Lease comprising the S/2 N/2, SE/4, and S/2 SW/4 of Section 36, Township 17 South, Range 34 East, Vacuum Field, Lea County, New Mexico, after separately metering the production from each of the pools. It is our understanding that the ownership of each of the three leases is common throughout.

Pursuant to the authority granted me under the provisions of Rule 303 (b) and Rule 309-B of the Commission Rules and Regulations, you are hereby authorized to commingle the production from the aforesaid pools and leases in the above-described manner. Provided however, that the installation shall be operated in accordance with the provisions of the Commission "Manual for the Installation and Operation of Commingling Facilities," including the requirement for non-reset counters on the meters. You are also requested to notify the Hobbs District Office of the Commission at such time as the installation is complete in order that a field inspection of the installation may be made prior to putting the installation in operation.

Administrative Order PC-128 which authorized the commingling of production on the State "O" Lease is hereby superseded.

Very truly yours,

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

ALP/DSH/esr

cc: Oil Conservation Commission (with enclosure) - Hobbs  
Oil & Gas Engineering Committee - Hobbs  
State Land Office - Santa Fe

7

PLC-4

TEXACO  
INC.

PETROLEUM PRODUCTS

P.O. Box 728  
Hobbs, New Mexico  
June 18, 1963



100 JUN 14 AM 14

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Re: Application for Addition to Present  
Commingled Installation, TEXACO Inc.,  
State of New Mexico "L" and "M"  
Leases with State of New Mexico "O"  
(NCT-1) Lease, Glorieta, Blinebry,  
Wolfcamp, Pennsylvanian and Devonian  
Formations, Vacuum Field, Lea County,  
New Mexico.

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

In accordance with New Mexico Oil Conservation Commission Rule 309-B, TEXACO Inc. hereby makes application for administrative approval of an exception to Rule 309-A to permit commingling of production from TEXACO Inc. State of New Mexico "L" Lease, NE/4 of Section 1, T-18-S, R-34-E and State of New Mexico "M" Lease, NW/4 of Section 1, T-18-S, R-34E with current commingled production on State of New Mexico "O" (NCT-1) Lease, S/2 of N/2, SE/4 and S/2 of SW/4 of Section 36, T-17-S, R-34-E. All production being from the Glorieta, Blinebry, Wolfcamp, Pennsylvanian and Devonian formations, Vacuum Field, Lea County, New Mexico. The following is stated in support of the request.

1. TEXACO Inc. is the Operator of the three leases involved. Attached is a plat showing the location of all wells on the subject leases and the pool from which they are producing.

2. Administrative Order PC-128 dated March 1, 1963, authorized commingling of production from the Glorieta, Blinebry, Wolfcamp, Pennsylvanian and Devonian formations on the TEXACO Inc. State of New Mexico "O" (NCT-1) Lease, Vacuum Field, Lea County, New Mexico.

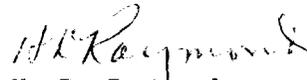
3. Royalty interest in the subject leases is common and is held by the State of New Mexico. A copy of this application is being sent this date to the State Land Office, P. O. Box 791, Santa Fe, New Mexico, requesting their approval in writing of the proposed installation. A copy of this approval will be forwarded to the Commission immediately upon receipt.

June 18, 1963

4. In accordance with Item II, Section 2-A and Item III, Section 1 of the current "Manual for the Installation and Operation of Commingling Facilities", it is proposed to meter prior to commingling all zones using positive displacement type meters equipped with samplers and non-reset counters; and to allocate well production on the basis of periodic well tests. A schematic diagram of the proposed commingling facilities is attached and in substantial compliance with procedures in the aforementioned manual.

In view of the facts recited in this application, it is respectfully requested that administrative approval of an exception to Rule 309-A be granted TEXACO Inc. to permit commingling the production from the TEXACO Inc. State of New Mexico "L" and "M" Leases with production from the TEXACO Inc. State of New Mexico "O" (NCT-1) Lease, Glorieta, Blinbry, Wolfcamp, Pennsylvanian and Devonian formations, Vacuum Field, Lea County, New Mexico.

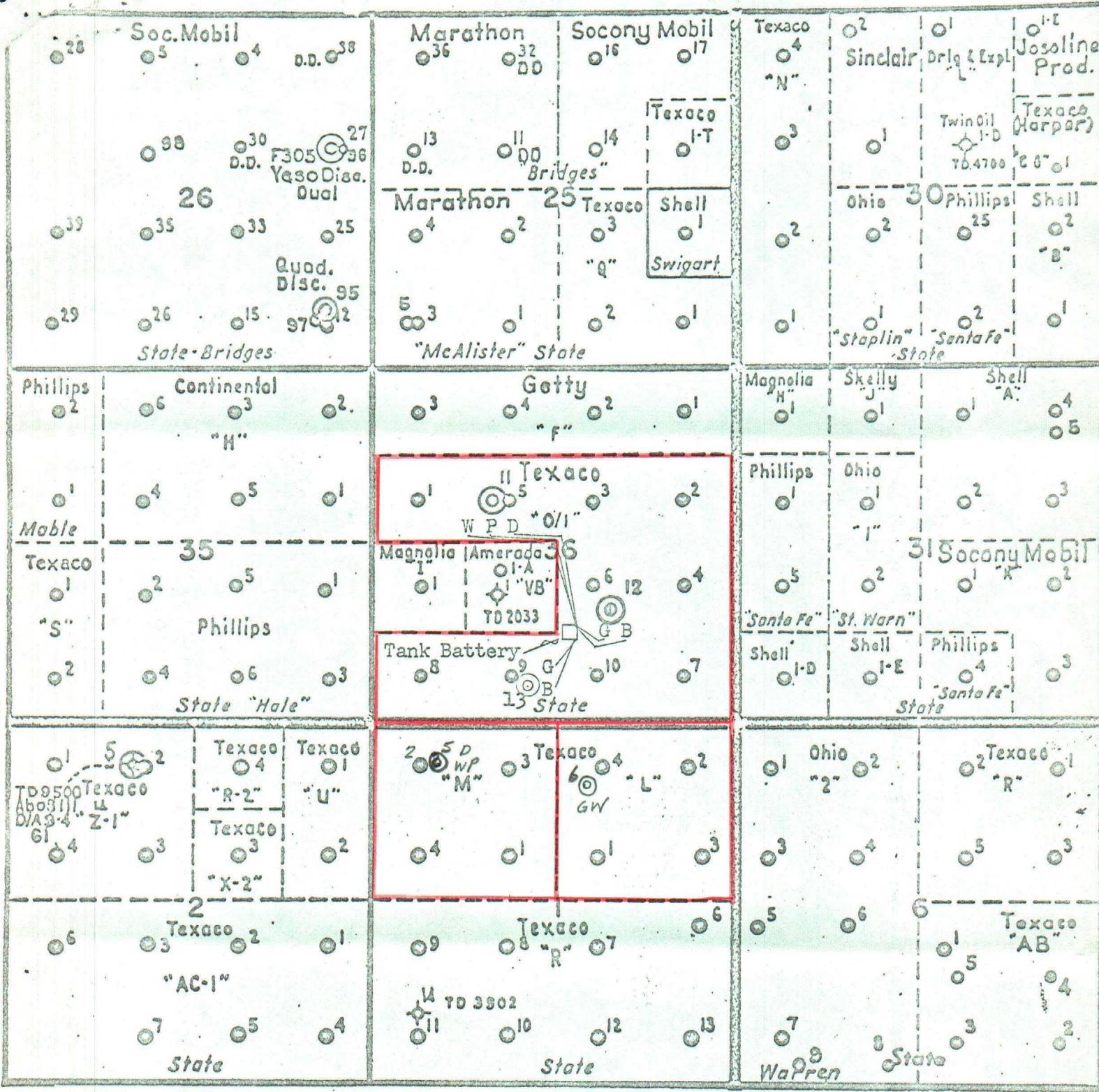
Yours very truly,



H. D. Raymond  
Assistant District Supt.

ACK-h

Attachment



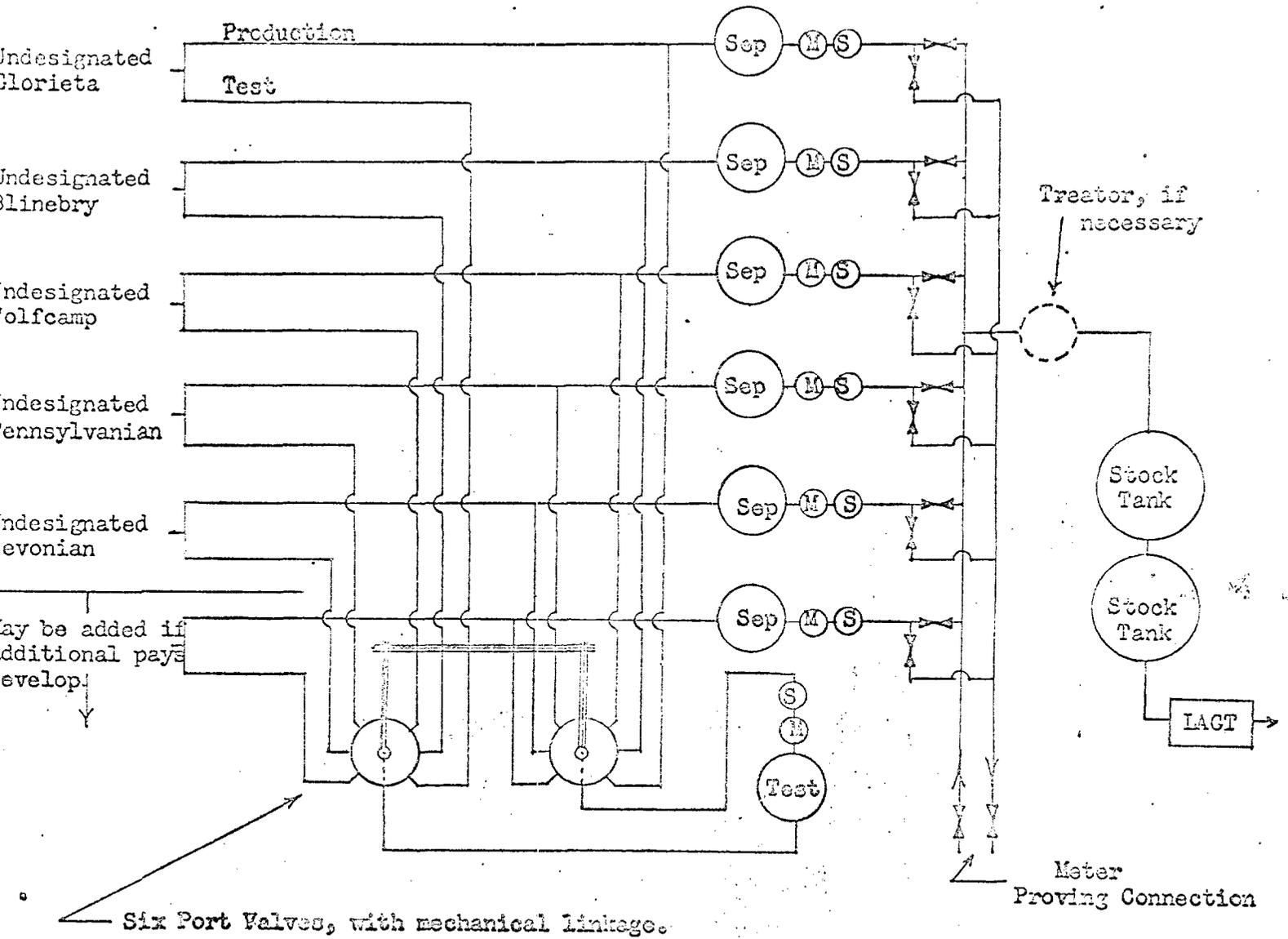
TEXACO INC.  
 State of New Mexico "O" NCT-1 Lease  
 Vacuum Pools  
 Lea County New Mexico  
 Scale 1"-2000

LEGEND

- G - Glorieta
- B - Blinbry
- W - Wolfcamp
- P - Pennsylvanian
- D - Devonian

Wells not noted in legend are in the Vacuum (San Andres) Pool

SCHEMA DIAGRAM OF COMINGLING INSTALLATION  
 State of New Mexico "O" NCT-1 Lease  
 Vacuum (Deep) Area  
 Lea County, New Mexico



- SYMBOLS —
-  Block Valve
  -  Meter
  -  Sampler
  -  Production Separator
  -  Test Separator

June 28, 1963

Texaco, Inc.  
P. O. Box 728  
Hobbs, New Mexico

Re: Application for addition to present commingled installation, Texaco, Inc., State of New Mexico "L" and "M" Leases with State of New Mexico "O" (NCT-1) Lease, Glorieta, Blinbry, Wolfcamp, Pennsylvania, and Devonian Formations, Vaccum Field, Sec. 36, Twp. 17S, Rge. 34E, and  $N\frac{1}{2}$  Sec. 1, Twp. 18S, Rge. 34E, Lea County, New Mexico.

Gentlemen:

Since Texaco, Inc., owns the three leases involved in this installation, and since prior approval has been granted on part of this, we will approve the above request. We shall ask that you send us a periodic production report on each lease so that we will know what each lease is producing.

The beneficiary is the same on the three leases.

Thank you for the plat and schematic diagram.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

By:

ROMULO MARTINEZ  
Oil and Gas Department

EW/RM/pr

cc: /Oil Conservation Commission

Oil and Gas Accounting Commission

C  
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Y