



State of New Mexico
Department of Public Lands
Santa Fe, New Mexico

State of New Mexico
Department of Public Lands
Santa Fe, New Mexico

4851
~~6366~~

March 28, 1990

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

Commissioner of Public Lands
State of New Mexico
Oil and Gas Division
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

RE: **VACUUM GRAYBURG SAN ANDRES UNIT**
PLANS OF DEVELOPMENT
LEA COUNTY, NEW MEXICO

Gentlemen:

Texaco, as Operator and 100% working interest owner of the Vacuum Grayburg San Andres Unit, respectfully submits for your approval a report of past operations and a plan of operation and development for 1990.

PAST OPERATIONS

Vacuum Field was discovered in May, 1929 when Vacuum Oil (Mobil Oil Company) completed the New Mexico "Bridges" State Well No. 1 for 119 BOPD. This well was shut-in until pipeline facilities became available in 1937.

During initial field development from 1937 to 1945, The Texas Company drilled 31 Grayburg-San Andres wells on 40-acre spacing in the Vacuum Grayburg San Andres Unit Area. A second stage of development occurred in 1972-1973 when the Vacuum Grayburg San Andres Unit area was infill-drilled on 20-acre spacing. During this time, 25 additional wells were drilled.

The Unit Agreement for Vacuum Grayburg San Andres Unit became effective January 1, 1973, and water injection began January 14, 1973.

Cumulative oil production for the Vacuum Grayburg San Andres Unit area prior to unitization was 16,792,757 barrels. From inception of the unit through January 1, 1990, 26,424,649 BO have been produced and 65,679,832 BW have been injected.

March 28, 1990

The Vacuum Grayburg San Andres Unit has 36 producers and 29 injection wells. Average production for December, 1989 was 3,000 BOPD, 1,241 MCFD, and 6,078 BWPD. The average injection rate was 11,927 BWPD with a maximum injection pressure of 1,600 psi.

1989 UNIT ACTIVITIES:

To maintain optimal unit production, workovers were performed on the following Vacuum Grayburg San Andres Unit wells in 1989: Nos. 10, 44, 23, 53, 16, 24, 12, 36, 40, 26, 21, 14. A workover to repair a casing leak in VGSAU No. 58 began in late 1989 and was completed in February, 1990.

DEVELOPMENT PLANS FOR 1990:

Plans for 1990 include the drilling of 19 proposed 10-acre infill wells in the north half of Sections 1 and 2-T18S-R34E. As of March 30, 1990, three of the 19 wells will have been drilled:

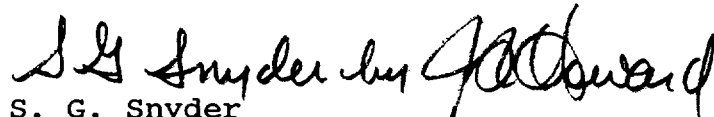
<u>Well</u>	<u>Location</u>
VGSAU No. 138	1980' FNL, 2583' FWL Sec. 2-T18S-R34E
VGSAU No. 139	1980' FNL, 1282' FEL Sec. 2-T18S-R34E
VGSAU No. 140	1980' FNL, 10' FEL Sec. 2-T18S-R34E

These wells will provide information necessary to determine the feasibility of infill drilling the entire Vacuum Grayburg San Andres Unit on 10-acre spacing.

Other plans include continuous monitoring and optimization of unit production through the use of injection surveys, stimulations, and cleanouts. Equipment modifications, well workovers, and plugging will be performed as necessary.

Yours very truly,

Texaco Inc.



S. G. Snyder
Portfolio Manager

JFG/srt

file
chrono

TEXACO PRODUCING INC.

MIDLAND DIVISION

HOBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/ LEASE NO.	LEASE NAME/ FRS NO.	WELL NO.	WELL STATUS	COMMENTS	CONDITION	SEQUENCE NUMBER	API NUMBER
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(1) 100% OWNED AND OPERATED BY TEXACO

4	STATE 'AP'	1	ASD	UNSUCCESSFUL WD	07-31-88	22112600	3002526824
	333000061020004					22112600	
	02924703					22112600	
		6	PM	*PENN		22111600	3002520057
		6	PM	*COMP-WOLFCAMP		22111700	3002520057
		7	PM			22111800	3002520334
		8	PM	TRIPLE-ABO.DHC		22111900	3002520986
		8	PM	*PENN		22112000	3002520986
		8	PM	*COMP-WOLFCAMP		22112100	3002520986
		9	PM			22112200	3002521061
		10	PM			22112300	3002521432
		11	D		11-20-89	22112400	3002530715
		12	D		12-10-89	22112500	*3002530716

1B1 VACUUM GRAYBURGSAN
ANDRES UNIT
333000061020181

1	PM	22112700	3002599037
2	PM	22112800	3002599038
3	PM	22112900	3002599030
4	INJ	22113000	3002524332
5	INJ	22113100	3002524333
6	PM	22113200	3002521420
7	PM	22113300	3002599039
8	PM	22113400	3002599125

SUB AREA - 6102 BUCKLEY-BUCKLEY SUB-AREA

TEXACO PRODUCING INC.

MIDLAND DIVISION

HOBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/ LEASE NO.	LEASE NAME/ FRS NO.	WELL NO.	WELL STATUS	COMMENTS	CONDITION	SEQUENCE NUMBER	API NUMBER
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(1) 100% OWNED AND OPERATED BY TEXACO

9		PM				22113500	3002502274
10		PM				22113600	3002502258
11		SI-O	?		07-30-85	22113700	3002502257
12		PM			09-15-89	22113800	3002502259
13		PM				22113900	3002502260
14		INU			10-29-89	22114000	3002524359
15		INU				22114100	3002524328
16		INU				22114200	3002524308
17		INU				22114300	3002524316
18		INU				22114400	3002524317
19		INU				22114500	3002524331
20		INU				22114600	3002524360
21		PM			10-02-89	22114700	3002502276
22		PM				22114800	3002502273
23		PM				22114900	3002502272
24		PM			08-28-89	22115000	3002502271
25		PM				22115100	3002502256
26		PM			09-25-89	22115200	3002502255
27		PM				22115300	3002502254
28		PM				22115400	3002502253
29		INU				22115500	3002524313
30		INU				22115600	3002524307

SUB-AREA - 6102 BUCKEYE-BUCKEYE SUB-AREA

TEXACO PRODUCING INC.

MIDLAND DIVISION

HOBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/
LEASE NO.LEASE NAME/
FRS NO.WELL
NO.WELL
STATUS

COMMENTS

CONDITION

SEQUENCE
NUMBER

API NUMBER

(1) 100% OWNED AND OPERATED BY TEXACO

31	INU					22115700	3002524314
32	INU					22115800	3002524330
33	INU					22115900	3002524323
34	INU					22116000	3002524312
35	INU					22116100	3002524361
36	PM				09-15-89	22116200	3002502269
37	PM					22116300	3002502268
38	PM					22116400	3002502265
39	PM					22116500	3002502264
40	PM				09-07-89	22116600	3002502252
41	PM					22116700	3002502249
42	PM					22116800	3002521634
43	PM					22116900	3002599033
44	INU					22117000	3002524362
45	INU					22117100	3002524363
46	INU					22117200	3002524364
47	INU					22117300	3002524365
48	INU					22117400	3002524322
49	INU					22117500	3002524329
50	INU					22117600	3002524366
51	PM					22117700	3002502266
52	PM					22117800	3002502267

SUB AREA 6102 BUCKEYE BUCKEYE SUB AREA

TEXACO PRODUCING, INC.

MIDLAND DIVISION

HOBBS DISTRICT

MONTH ENDING 01-01-90

FIELD NAME/ LEASE NO.	LEASE NAME/ FRS NO.	WELL NO.	WELL STATUS	COMMENTS	CONDITION	SEQUENCE NUMBER	API NUMBER
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(1) 100% OWNED AND OPERATED BY TEXACO

53		PM				22117900	3002502262
54		PM				22118000	3002521111
55		PM			08-02-89	22118100	3002502250
56		PM				22118200	3002502251
57		PM				22118300	3002599031
58		PM				22118400	3002599032
59		INJ		LEASE LINE VGS AU-50%, WVU-50%		22118500 22118500	3002526281 3002526282
60		INJ		LEASE LINE VGS AU-50%, WVU-50%		22118600 22118600	3002527973 3002527974
62		INJ		*COUNTED ON VAC. COOP INJ SYSTEM #62		22118700 22118700	3002527975 3002502227
63				*COUNTED ON VAC. COOP INJ SYSTEM #63		22118800 22118800	3002527976 3002502226
64		PM				22118900	3002527977
65		INJ		*COUNTED ON VAC. COOP INJ SYSTEM #65		22119000 22119000	3002527978 3002502227
66		PM				22119100	3002527979
67		INJ		*COUNTED ON VAC. COOP INJ SYSTEM #67		22119200 22119200	3002527980 3002527981
68		SI-O		FORMERLY NM "R" NCT-1 #16 SI 04-29-88, NO REASON GIVEN.		22119300 22119300 22119300 22119300	3002527982 3002527983 3002527984 3002527985
1WS		WS				22119400	3002599001

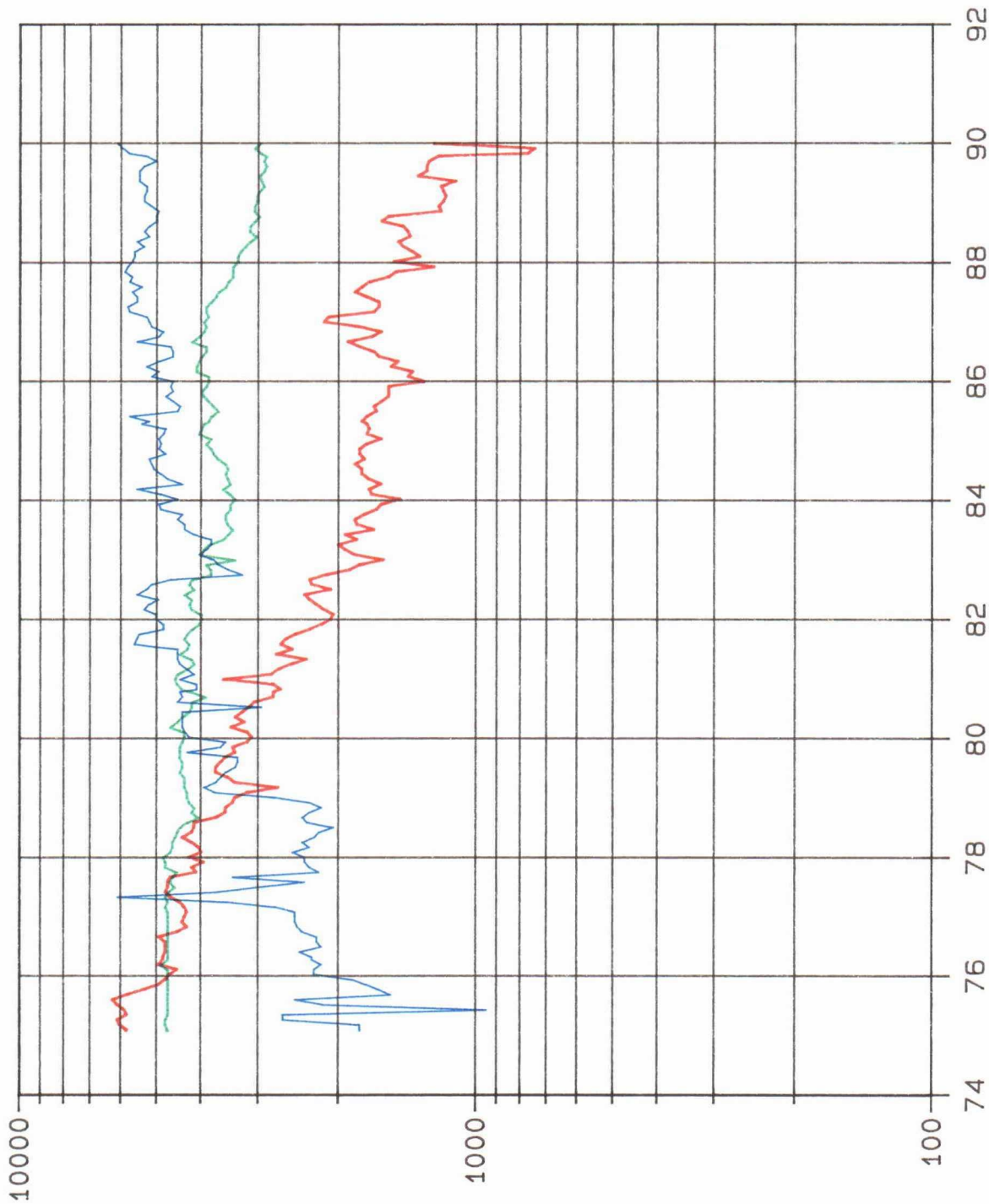
SUB AREA - 6102 BUCKEYE-BUCKEYE SUB-AREA

VACUUM GRAYBURG SAN ANDRES UNIT

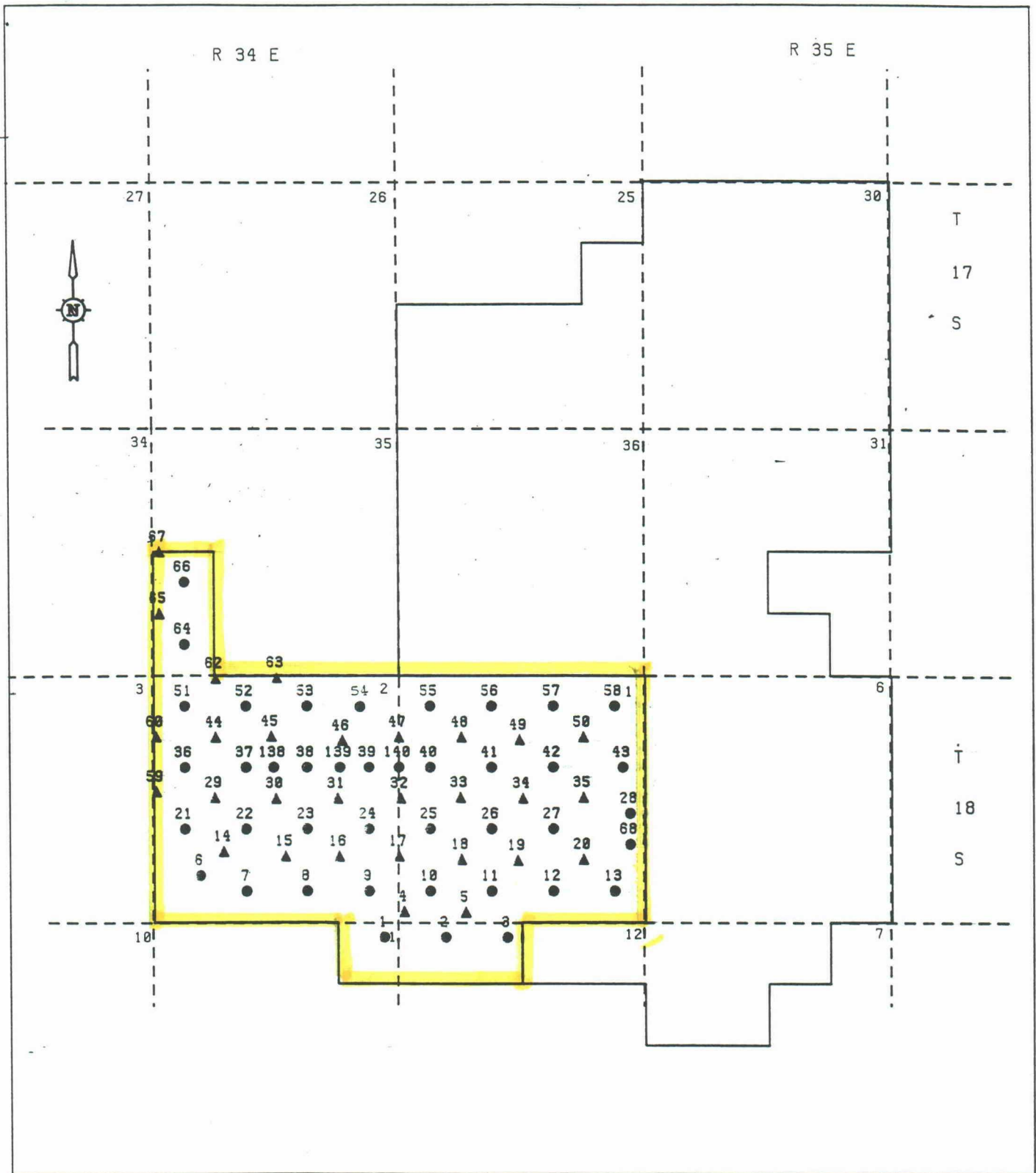
LEASE DATA
 LSE 857948
 FLD 59800
 OPER
 ZONE 432

 COUNTY 025
 STATE 30

STATUS
 CO 43218 MBO
 CG 34707 MMCf
 BOPD 3000
 BWPD 6078
 MCFPD 1241
 WELLS 65



YEARS



LEGEND:

● PRODUCING WELL

▲ INJECTION WELL

■ UNIT BOUNDARY

TEXACO		
MIDLAND	TEXAS	U.S.A.
VACUUM GRAYBURG SAN ANDRES FIELD		
LEA COUNTY, NEW MEXICO		
VACUUM GRAYBURG SAN ANDRES UNIT		
1"=2500' 10-000-00		

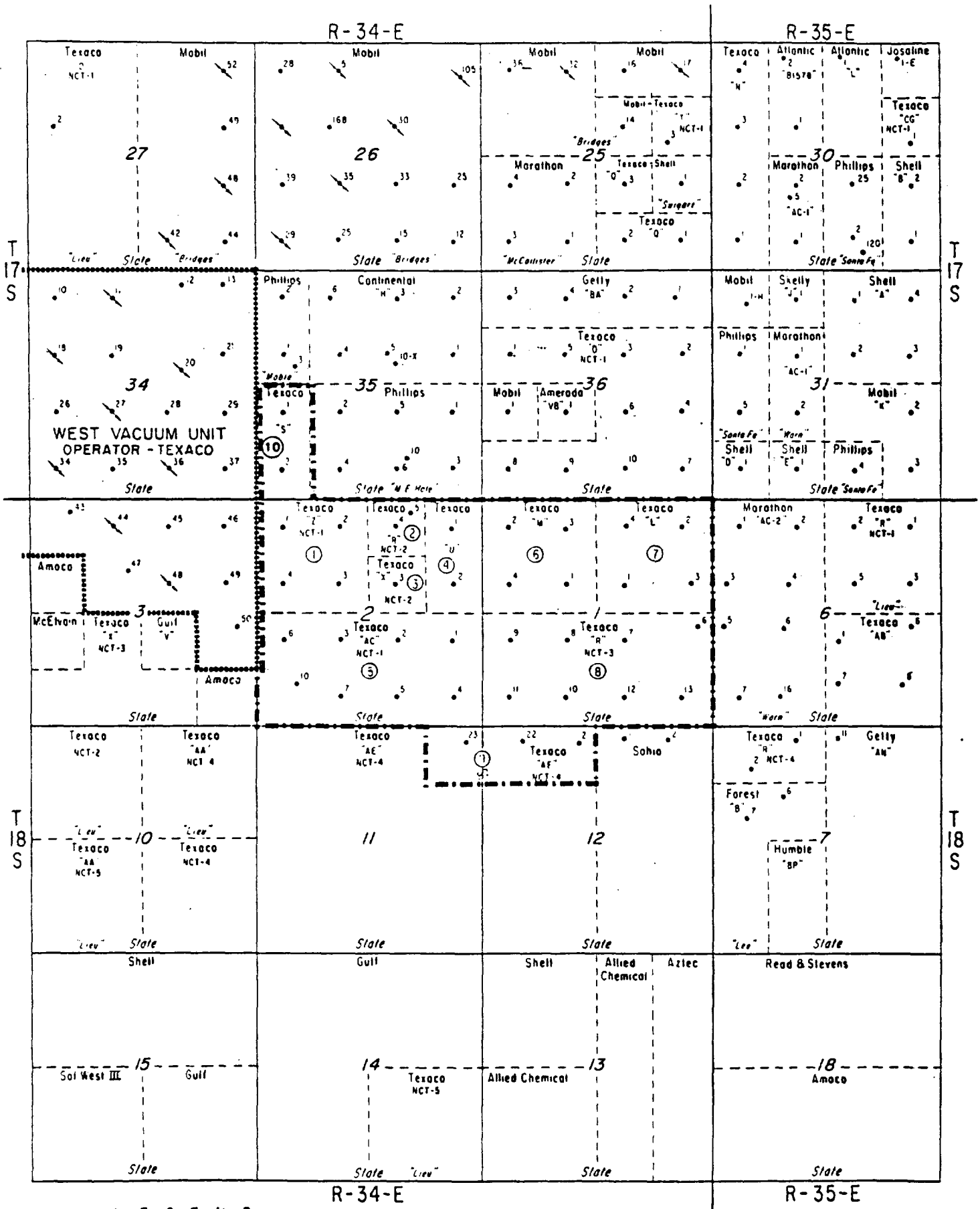


EXHIBIT "B" REVISED

FIRST ENLARGEMENT EFFECTIVE JANUARY 1, 1981

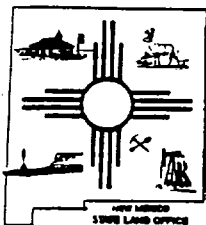
SCHEDULE SHOWING TRACT PARTICIPATIONS AND PERCENTAGE AND KIND OF OWNERSHIP
OF ALL LANDS WITHIN THE VACUUM GRAYBURG SAN ANDRES UNIT
LEA COUNTY, NEW MEXICO

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & DATE OF LEASE OR APPLICATION	BASIC ROYALTY & PERCENTAGE		LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE		WORKING INTEREST & PERCENTAGE	PERCENTAGE OF TRACT PARTICIPATION		TEXAS FILE NUMBER
1	T18S-R34E Section 2; Lots 3 & 4, SW/4 NW/4, SE/4 NW/4	161.41	B-3011-1 6-11-34 H.B.P.	State of New Mexico (Common School)	12.50	The Texas Co.	None		Texaco Inc.	100%	9.80275	60868
2	T18S-R34E Section 2; Lot 2	40.83	B-1306-1 11-10-32 H.B.P.	State of New Mexico (Common School)	12.50	The Texas Co.	None		Texaco Inc.	100%	3.18789	55035
3	T18S-R34E Section 2; SW/4 NE/4	40.00	B-1446-1 12-10-32 H.B.P.	State of New Mexico (Lieu)	12.50	The Texas Co.	None		Texaco Inc.	100%	2.98864	55278
4	T18S-R34E Section 2; Lot 1, SE/4 NE/4	80.92	B-867-1 5-6-32 H.B.P.	State of New Mexico (Common School)	12.50	The Texas Co.	None		Texaco Inc.	100%	6.05698	54150
5	T18S-R34E Section 2; NE/4 SW/4, NW/4 SW/4, SW/4 SW/4, SE/4 SW/4, NE/4 SE/4, NW/4 SE/4, SW/4 SE/4, SE/4 SE/4	320.00	B-1189-1 9-10-32 H.B.P.	State of New Mexico (Common School)	12.50	The Texas Co.	None		Texaco Inc.	100%	11.15760	54615

TRACT NO.	DESCRIPTION	NO. OF ACRES	SERIAL NO. & DATE OF LEASE OR APPLICATION	BASIC ROYALTY & PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY & PERCENTAGE	WORKING INTEREST & PERCENTAGE	PERCENTAGE OF TRACT PARTICIPATION	TEXACO UNIT NUMBER
6	T18S-R34E Section 1; Lots 3 & 4, SW/4 NW/4, SE/4 NW/4	161.58	B-1080-1 7-30-32 H.B.P.	State of New Mexico (Lieu)	The Texas Co.	None	Texaco Inc. 100%	16.33792	54474
7	T18S-R34E Section 1; Lots 1 & 2, SW/4 NE/4, SE/4 NE/4	160.90	B-1733-1 2-17-33 H.B.P.	State of New Mexico (Lieu)	The Texas Co.	None	Texaco Inc. 100%	18.72883	55391
8	T18S-R34E Section 1; NE/4 SW/4, NW/4 SW/4, SW/4 SW/4, SE/SW/4, NE/4 SE/4, NW/4 SE/4, SW/4 SE/4, SE/4 SE/4	320.00	B-1306-1 11-10-32	State of New Mexico (M. Inst.)	The Texas Co.	None	Texaco Inc. 100%	24.60649	55035
9	T18S; R34E Section 11; NE/4 NE/4, and Section 12; NE/4 NW/4, NW/4 NW/4	120.00	B-1258-1 10-10-32 H.B.P.	State of New Mexico (Lieu)	The Texas Co.	None	Texaco Inc. 100%	1.15561	54627
10	T17S; R34E Section 35; NW/4 SW/4 SW/4 SW/4	80.00	B-870-1 5-6-32 H.B.P.	State of New Mexico (M. Inst.)	The Texas Co.	None	Texaco Inc. 100%	5.97729	54146
								100.00000%	

Ten (10) State Tracts containing 1,485.64 Acres and 100.00% of Unit Area

ILLEGIBLE



State of New Mexico
Commissioner of Public Lands

#4851

W. R. Humphries
COMMISSIONER

April 27, 1990

Advisory Board

George Clark
Chairman

Kristin Conniff
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

Texaco USA
P.O. Box 3109
Midland, Texas 79702

ATTN: S.G. Snyder

RE: Vacuum Grayburg San Andres Unit
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the Vacuum Grayburg San Andres Unit. Our approval is subject to like approval by all other appropriate agencies.

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

Enclosed is an approved copy of the 1990 Plan of Development for your files. If we may be of further help, please do not hesitate to contact this office at (505) 827-5746.

Very truly yours,

W.R. HUMPHRIES,
COMMISSIONER OF PUBLIC LANDS

BY:

Floyd O. Prando

FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5746

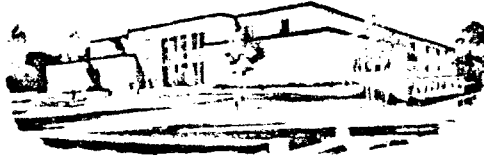
cc: OCD - Santa Fe, New Mexico
BLM
Unit Correspondence File
Unit P.O.D. File

WRH/FOP/SMH

State of New Mexico



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands
February 2, 1981

4851
P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Texaco U.S.A.
P. O. Box 3109
Midland, Texas 79702

Re: 254770- Vacuum Grayburg San Andres Unit
Lea County, New Mexico

ATTENTION: Mr. Robert E. Davis

Gentlemen:

The Commissioner of Public Lands has this date approved the expansion of the Vacuum Grayburg-San Andres Unit Area and the Texaco Vacuum Grayburg-San Andres Pressure Maintenance Project area to include the New Mexico State "S" Lease comprising the W/2SW/4 of Section 35, Township 17 South, Range 34 East, Lea County, New Mexico.

Enclosed is one approved copy for your files.

Please remit a Ten (\$10.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Assistant Director
Oil and Gas Division
AC 505-827-2748

AJA/FOP/s
encls.
cc:

OCD-Santa Fe, New Mexico

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

December 9, 1980

Texaco Inc.
P. O. Box 3109
Midland, Texas 79702

Attention: G. F. Clarke

Re: ✓ Case No. 4851
Expansion to Vacuum Grayburg-
San Andres Unit Area
PMX-97

Gentlemen:

We hereby approve the expansion of the Vacuum Grayburg-San Andres Unit Area and the Texaco Vacuum Grayburg-San Andres Pressure Maintenance Project Area to include your New Mexico State "S" Lease comprising the W/2 SW/4 of Section 35, Township 17 South, Range 34 East, Lea County, New Mexico.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

C

O

P

Y



PRODUCING DEPARTMENT

October 21, 1980

OK-MTH

Steve Schlack

Ex 202

TEXACO
U.S.A.
A DIVISION OF TEXACO INC.
P. O. BOX 3109
MIDLAND, TEXAS 79702

915-882-0541

Re - Expansion of
Vac GB-SA Unit
PMX-

APPLICATION FOR UNIT EXPANSION
VACUUM GRAYBURG-SAN ANDRES UNIT
VACUUM FIELD
LEA COUNTY, NEW MEXICO

10:30-11:30

State of New Mexico
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

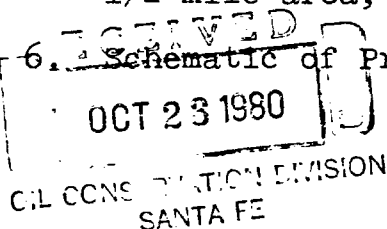
4851
OK
3/1
12/1/80

Texaco Inc. respectfully requests administrative approval to expand the project area of the Vacuum Grayburg-San Andres Unit as authorized by Commission Order No. R-4442, Rule 7, dated November 27, 1972. The requested expansion will add Texaco's 80 acre New Mexico "S" State Lease, located in the W/2 of the SW/4 of Section 35, T-17-S, R-34-E, Lea County, New Mexico, to the Vacuum Grayburg San Andres Unit.

Please find attached the following supportive exhibits:

1. Base Map
2. Map depicting proposed expansion
3. Map outlining all wells within 1/2 mile of the proposed unit boundary
4. List of all wells within the 1/2 mile area that penetrate the San Andres formation, showing casing, sacks of cement, and cement tops
5. Schematics of each plugged and abandoned well within the 1/2 mile area, showing the locations of plugs

6. Schematic of Proposed Future Injection Wells



Approval of Vacuum Grayburg-San Andres Unit
Also the Texaco Vac GB-SA Unit

October 21, 1980

The operators of the leases in Section 35, T-17-S, R-34-E, were unable to reach agreement on unitization for secondary recovery purposes, and each will carry out secondary recovery operations on its own lease. Presently, the possibility of leasehold agreements for the drilling of cooperative injection is being discussed. It is anticipated that such drilling would take place in the first half of 1981, pending acceptance of the agreements and adequate water supply. Texaco wishes to expand the boundaries of the Vacuum Grayburg-San Andres Unit to include the New Mexico "S" State lease to facilitate efficient operations.

Texaco is a 100% working interest owner in the N.M. "S" State lease, with the State of New Mexico the only royalty interest owner, as is the case with the original leases that went into the Vacuum Grayburg-San Andres Unit.

Yours very truly,

Alan R. McDaniel
Division Manager

By


G. F. Clarke
Assistant Division Manager

RJA/lt

Attachments

cc: State of New Mexico
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Conoco Inc.
P. O. Box 460
Hobbs, NM 88240

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762