

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

Case No. 10516
Order No. R-9714

APPLICATION OF TEXACO EXPLORATION AND
PRODUCTION INC. FOR A WATERFLOOD PROJECT,
LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on July 23, 1992, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 3rd day of September, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Texaco Exploration and Production Inc. (Texaco), seeks authority to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum Glorieta Pool, Lea County, New Mexico, through the gross perforated and/or open hole interval from approximately 5,950 feet to 6,230 feet in one existing and fifty-nine wells to be drilled at orthodox and unorthodox locations as shown on Exhibit "A" attached hereto.

(3) By Order No. R-9710 issued in Case No. 10515 on August 25, 1992, the Division, upon application of Texaco, approved the Vacuum Glorieta West Unit which comprises some 2778.86 acres, more or less, in Townships 17 and 18 South, Ranges 34 and 35 East, NMPM, Lea County, New Mexico.

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(4) The vast majority of wells located within the applicant's Vacuum Glorieta West Unit Area are in an advanced state of depletion and should properly be classified as "stripper wells".

(5) The proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) The applicant should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(7) The injection of water into each of the wells shown on Exhibit "A" should be accomplished through internally cement-lined tubing installed in a packer set within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus should be filled with an inert fluid and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing or packer.

(8) Prior to commencing injection operations into the wells shown on Exhibit "A", the casing in each well should be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.

(9) The injection well or pressurization system should be initially equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 1200 psi.

(10) The Division Director should have the authority to administratively authorize a pressure limitation in excess of the pressure limitation described in Finding No. (9) above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

(11) The operator should give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure tests in order that the same may be witnessed.

(12) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Well Nos. 21, 43, 69, 97, 109 and 110, the applicant should be required to submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.

(13) The application should be approved and the project should be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.

(14) At the time of the hearing, the applicant requested that the subject waterflood be certified by the Division as a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).

(15) The evidence presented indicates that the subject waterflood meets all the criteria for certification.

(16) The certified "project area" should initially comprise the area approved for statutory unitization by Division Order No. R-9710, and described as follows, provided however, the "project area" and/or the producing wells eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 24: SW/4, SW/4 NW/4, SW/4 SE/4
Section 25: All
Section 26: E/2 SE/4
Section 35: NE/4, N/2 SE/4, SE/4 SE/4
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 30: Lots 1, 2, 3, 4 (W/2 W/2)
Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM

Section 1: Lots 1, 2, 3, 4 (N/2 N/2), S/2 NE/4
Section 2: Lot 1 (NE/4 NE/4)

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1, 2, 3, 4, 5, SE/4 NW/4, S/2 NE/4, (N/2)

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Texaco Exploration and Production Inc. (Texaco), is hereby authorized to institute a waterflood project in its Vacuum Glorieta West Unit by the injection of water into the Glorieta and Paddock formations, Vacuum-Glorieta Pool, Lea County, New Mexico, through the gross perforated and/or open hole interval from approximately 5,950 feet to 6,230 feet in one existing and fifty-nine wells to be drilled at orthodox and unorthodox locations as shown on Exhibit "A" attached hereto.

(2) The applicant shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(3) Injection into the wells shown on Exhibit "A" shall be accomplished through cement-lined tubing installed in a packer set approximately within 100 feet of the uppermost injection perforation or casing shoe; the casing-tubing annulus shall be filled with an inert fluid and a gauge or approved leak-detection device shall be attached to the annulus in order to determine leakage in the casing, tubing or packer.

(4) The injection wells or pressurization system shall be equipped with a pressure control device or acceptable substitute which will limit the surface injection pressure to no more than 1200 psi.

(5) The Division Director shall have the authority to administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

(6) Prior to commencing injection operations into the wells shown on Exhibit "A", the casing in each well shall be pressure-tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.

(7) The operator shall give advance notification to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure tests, in order that the same may be witnessed.

(8) The applicant shall immediately notify the supervisor of the Hobbs District Office of the Division of the failure of the tubing, casing or packer in any of the injection wells, the leakage of water or oil from or around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area, and shall take such steps as may be timely and necessary to correct such failure or leakage.

(9) The subject waterflood is hereby designated the Vacuum Glorieta West Unit Waterflood Project and shall be governed by the provisions of Rule Nos. 701 through 708 of the Oil Conservation Division Rules and Regulations.

(10) Monthly progress reports of the waterflood project herein authorized shall be submitted to the Division in accordance with Rule Nos. 706 and 1115 of the Division Rules and Regulations.

(11) The applicant shall be required to obtain Division approval, subsequent to the entry of this order, to drill any injection well located at an unorthodox location closer than 330 feet from the outer boundary of the Vacuum Glorieta West Unit.

(12) Prior to commencing injection operations into the proposed Vacuum Glorieta West Unit Well Nos. 21, 43, 69, 97, 109 and 110, the applicant shall submit to the Santa Fe Office of the Division an executed copy of an Injection Lease-Line Agreement.

(13) The subject waterflood is a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5).

(14) To be eligible for the EOR credit, the operator must advise the Division when injection operations will commence and request the Division certify the project to the Taxation and Revenue Department.

(15) The certified "project area" shall initially comprise the area approved for statutory unitization by Division Order No. R-9710, and described as follows, provided however, the "project area" and/or the producing wells eligible for the recovered oil tax rate may be contracted and reduced dependent upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 24: SW/4, SW/4 NW/4, SW/4 SE/4
Section 25: All
Section 26: E/2 SE/4
Section 35: NE/4, N/2 SE/4, SE/4 SE/4
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM

Section 30: Lots 1, 2, 3, 4 (W/2 W/2)
Section 31: Lots 1, 2, 3, 4 (W/2 W/2)

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TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM

Section 1: Lots 1, 2, 3, 4 (N/2 N/2), S/2 NE/4
Section 2: Lot 1 (NE/4 NE/4)

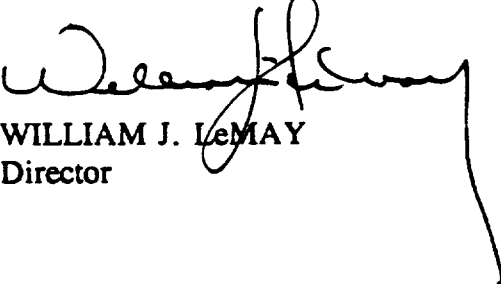
TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM

Section 6: Lots 1, 2, 3, 4, 5, SE/4 NW/4, S/2 NE/4, (N/2)

(16) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

EXHIBIT "A"
 DIVISION ORDER NO. R-9714
 VACUUM GLORIETA WEST UNIT
APPROVED NEWLY DRILLED INJECTION WELLS

<u>LEASE NAME</u>	<u>LOCATION</u>	<u>ULSTR</u>	<u>VGWJ WELL NO.</u>
Bridges State	1360' FSL & 1300' FWL	M-24-17S-34E	4
Bridges State	1209' FSL & 2582' FWL	N-24-17S-34E	5
Bridges State	73' FNL & 1411' FWL	C-25-17S-34E	9
Yucca State	100' FSL & 2628' FWL	O-24-17S-34E	10
Bridges State	246' FNL & 1554' FEL	B-25-17S-34E	11
Bridges State	1328' FNL & 1399' FWL	F-25-17S-34E	17
Bridges State	1651' FNL & 2543' FWL	F-25-17S-34E	18
Bridges State	1502' FNL & 1520' FEL	G-25-17S-34E	19
NM T State NCT-1	1541' FNL & 181' FEL	H-25-17S-34E	20
NM N State	1330' FNL & 1283' FWL	E-30-17S-35E	21
Bridges State	1171' FSL & 34' FEL	I-26-17S-34E	27
McAllister State	2304' FSL & 1127' FWL	L-25-17S-34E	28
McAllister State	2522' FSL & 2283' FWL	K-25-17S-34E	29
NM Q State	2305' FSL & 1391' FEL	J-25-17S-34E	30
Swiggart	2520' FSL & 128' FEL	I-25-17S-34E	31
McAllister State	2387' FSL & 51' FEL	M-25-17S-34E	38
McAllister State	1194' FSL & 1055' FWL	M-25-17S-34E	39
McAllister State	1570' FSL & 2404' FWL	K-25-17S-34E	40
NM Q State	1437' FSL & 1646' FEL	J-25-17S-34E	41
NM N State	1250' FSL & 8 FWL	M-30-17S-35E	42
NM N State	1453' FSL & 1247' FWL	L-30-17S-35E	43
State H-35	112' FNL & 1214' FEL	A-35-17S-34E	50
State H-35	24' FNL & 31' FEL	A-35-17S-34E	51
McAllister State	65' FSL & 1587' FWL	N-25-17S-34E	52
McAllister State	65' FSL & 2350' FWL	N-25-17S-34E	53
NM Q State	7' FSL & 1693' FEL	O-25-17S-34E	54
NM N State	177' FSL & 52' FWL	M-30-17S-35E	55
State H-35	1370' FNL & 1135' FEL	A-35-17S-34E	63
NM O State NCT-1	1484' FNL & 204' FWL	E-36-17S-34E	64
NM O State NCT-1	1472' FNL & 1492' FWL	F-36-17S-34E	65

<u>LEASE NAME</u>	<u>LOCATION</u>	<u>ULSTR</u>	<u>VGWU WELL NO.</u>
NM O State NCT-1	1690' FNL & 2577' FWL	F-36-17S-34E	66
NM O State NCT-1	1435' FNL & 1408' FEL	G-36-17S-34E	67
NM O State NCT-1	1491' FNL & 280' FEL	H-36-17S-34E	68
Santa Fe Battery 2 State H-35	1502' FNL & 1203' FWL	E-31-17S-35E	69
	2569' FSL & 1326' FEL	H-35-17S-34E	77
NM O State NCT-1	2491' FNL & 127' FWL	E-36-17S-34E	78
State VB	2461' FSL & 1351' FWL	K-36-17S-34E	79
NM O State NCT-1	2552' FNL & 2504' FEL	G-36-17S-34E	80
NM O State NCT-1	2466' FSL & 1505' FEL	J-36-17S-34E	81
NM O State NCT-1	2576' FSL & 82' FEL	I-36-17S-34E	82
M.E. Hale	1459' FSL & 1148' FEL	I-35-17S-34E	91
State I	1451' FSL & 149' FWL	L-36-17S-34E	92
State VB	1723' FSL & 1575' FWL	K-36-17S-35E	93
NM O State NCT-1	1525' FSL & 2591' FEL	J-36-17S-34E	94
NM O State NCT-1	1519' FSL & 1548' FEL	J-36-17S-34E	95
NM O State NCT-1	142' FSL & 214' FEL	I-36-17S-34E	96
Santa Fe Battery 2	1419' FSL & 1225' FWL	L-31-17S-35E	97
NM O State NCT-1	361' FSL & 300' FWL	M-36-17S-34E	104
NM O State NCT-1	403' FSL & 1340' FWL	N-36-17S-34E	105
NM O State NCT-1	310' FSL & 2542' FEL	O-36-17S-34E	106
NM O State NCT-1	184' FSL & 1382' FEL	O-36-17S-34E	107
NM O State NCT-1	213' FSL & 301' FEL	P-36-17S-34E	108
Warn State AC 2	96' FNL & 2498' FWL	C-6-18S-35E	109
NM R State NCT-1	74' FNL & 56' FEL	A-6-18S-35E	110
NM L State	1102' FNL & 1575' FEL	B-1-18S-34E	120
NM L State	1014' FNL & 140' FEL	A-1-18S-34E	121
Warn State AC 2	1000' FNL & 1136' FWL	D-6-18S-35E	122
Warn State AC 2	1080' FNL & 2344' FWL	C-6-18S-35E	123
NM R State NCT-1	1020' FNL & 1419' FEL	B-6-18S-35E	124

EXISTING WELL TO BE CONVERTED TO INJECTION

Bridges State No. 113 1980' FNL & 830' FWL E-24-17S-34E 1



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

Case No. 11188 Exhibit No. 2

Texaco Exploration and Production, Inc.
ATTN: Mike Mullins
P.O. Box 3109
Midland, TX 79702

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: February 2, 1995

**CERTIFICATION OF ENHANCED OIL RECOVERY PROJECT
FOR RECOVERED OIL TAX RATE**

The New Mexico Oil Conservation Division hereby certifies that the following Enhanced Oil Recovery Project has been approved by the Division as a secondary project, pursuant to the provisions of the New Mexico *Enhanced Oil Recovery Act* (Laws of 1992, Chapter 38). In order to qualify for the *Recovered Oil Tax Rate*, you must apply for certification of positive production response within five years from the date of this certification. Only production from that portion of the project area identified herein which is actually developed for enhanced recovery will qualify for the reduced tax rate.

If operation of this project is terminated for any reason, the operator of the project must notify this division and the Secretary of Taxation and Revenue not later than the thirtieth day after termination.

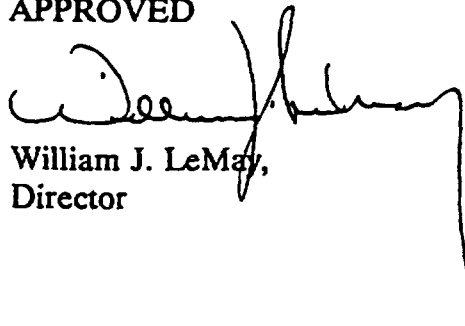
NAME OF PROJECT:	Vacuum Glorieta West Unit
OCD ORDER NO.:	R-9714
OPERATOR:	Texaco Exploration and Production, Inc.
ADDRESS:	ATTN: Mike Mullins P.O. Box 3109 Midland, TX 79702
CERTIFICATION DATE:	December 8, 1992

EOR Project Certification
 Vacuum Glorieta West Unit

PROJECT AREA

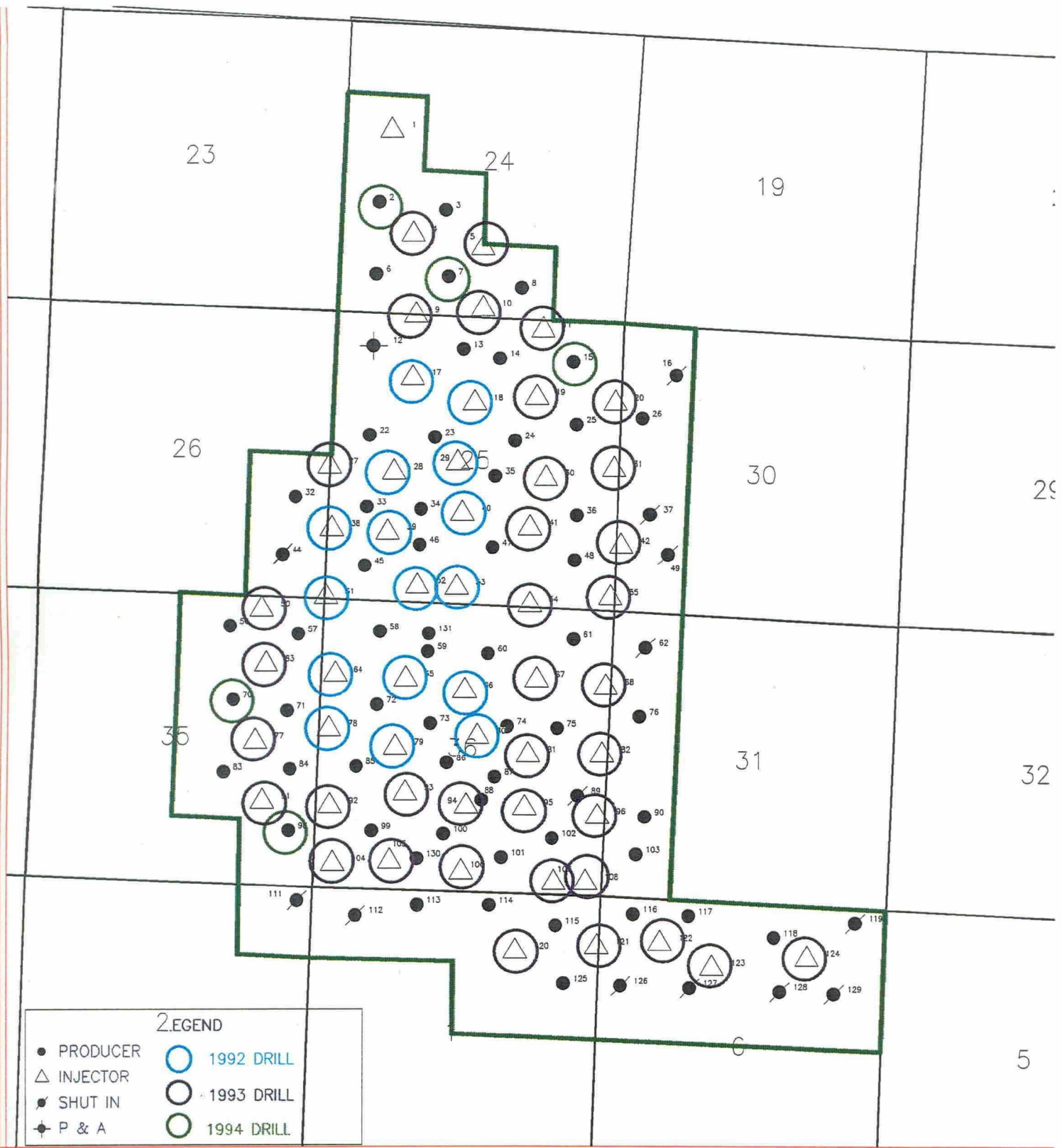
<i>Township</i>	<i>Range</i>	<i>Section</i>	
17 South	34 East	24:	SW/4, SW/4 NW/4, SW/4 SE/4
		25:	All
		26:	E/2 SE/4
		35:	NE/4, N/2 SE/4, SE/4 SE/4
		36:	All
17 South	35 East	30:	Lots 1,2,3,4 (W/2 W/2)
		31:	Lots 1,2,3,4 (W/2 W/2)
18 South	34 East	1:	Lots 1,2,3,4 (N/2 N/2), S/2 Ne/4
		2:	Lot 1 (NE/4 NE/4)
18 South	35 East	6:	Lots 1,2,3,4,5, SE/4 NW/4, S/2 NE/4 (N/2)

APPROVED



William J. LeMay,
 Director

seal



LEGEND

● PRODUCER	○ 1992 DRILL
△ INJECTOR	○ 1993 DRILL
⊘ SHUT IN	○ 1994 DRILL
⊕ P & A	



Texaco Exploration & Production		
VACUUM GLORIETA WEST UNIT LEA COUNTY NEW MEXICO		
Hickey, Kevin		1/31/95
Scale 1:30000.		

**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11188 Exhibit No. 3

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: February 2, 1995

VACUUM GLORIETA WEST UNIT

COMPLETION				COMPLETION				
API NO.	WELL NO.	TYPE	DATE	API NO.	WELL NO.	TYPE	DATE	
L-24-17-34	3002521830	1	Winj	660930	3002531706	66	Winj	921013
R-24-17-34	3002502092	2	Oil	940401	3002502237	67	Winj	930220
	3002521866	3	Oil	660930	3002531839	68	Winj	930310
	3002531833	4	Winj	930520	3002532270	70	Oil	940130
M-24-17-34	3002531834	5	Winj	930505	3002520665	71	Oil	640402
N-24-17-34	3002502094	6	Oil	400401	3002530779	72	Oil	900217
O-24-17-34	3002502091	7	Oil	940201	3002530714	73	Oil	900217
	3002520673	8	Oil	640611	3002530968	74	Oil	910215
	3002531835	9	Winj	930425	3002530969	75	Oil	910316
	3002531836	10	Winj	930410	3002520784	76	Oil	600620
	3002531837	11	Winj	930401	3002531872	77	Winj	930625
	3002502106	12	P&A	390709	3002531707	78	Winj	931114
C-25-17-34	3002521364	13	Oil	650428	3002531708	79	Winj	921123
B-25-17-34	3002521649	14	Oil	660312	3002531709	80	Winj	921206
A-25-17-34	3002532262	15	Oil	940119	3002531842	81	Winj	930225
D-30-17-35	3002523854	16	SHUT IN	711014	3002531840	82	Winj	930326
	3002531781	17	Winj	921229	3002520781	83	Oil	890325
	3002531782	18	Winj	921216	3002520778	84	Oil	640103
	3002531783	19	Winj	930108	3002520236	85	Oil	631130
	3002531807	20	Winj	930121	3002520179	86	Oil	630719
E-25-17-34	3002520873	22	Oil	650106	3002521637	87	Oil	721017
F-25-17-34	3002521675	23	Oil	660402	3002530206	88	Oil	880325
G-25-17-34	3002521041	24	Oil	641207	3002520505	89	SHUT IN	640121
H-25-17-34	3002520951	25	Oil	641024	3002520270	90	Oil	640130
E-30-17-35	3002520943	26	Oil	640607	3002531873	91	Winj	930707
	3002531869	27	Winj	930624	3002531809	92	Winj	930126
	3002531784	28	Winj	921210	3002531810	93	Winj	930208
	3002531785	29	Winj	921222	3002531841	94	Winj	930217
	3002531786	30	Winj	930105	3002531843	95	Winj	930311
I-26-17-34	3002531814	31	Winj	930112	3002531844	96	Winj	930318
L-25-17-34	3002520148	32	Oil	630912	3002532263	98	Oil	940208
K-25-17-34	3002520235	33	Oil	630605	3002529919	99	Oil	870711
J-25-17-34	3002520143	34	Oil	630714	3002530476	100	Oil	890504
I-25-17-34	3002527236	35	Oil	810716	3002520237	101	Oil	631221
L-30-17-35	3002520212	36	Oil	630221	3002530126	102	Oil	871221
	3002520942	37	SHUT IN	640713	3002520339	103	Oil	640224
	3002531699	38	Winj	921008	3002531858	104	Winj	930407
	3002531700	39	Winj	921019	3002531880	105	Winj	930520
	3002531701	40	Winj	921103	3002531874	106	Winj	930605
	3002531838	41	Winj	930323	3002531884	107	Winj	930620
	3002531815	42	Winj	930130	3002531875	108	Winj	930621
P-26-17-34	3002520068	44	SHUT IN	630120	3002521111	111	SHUT IN	641009
M-25-17-34	3002520050	45	Oil	630620	3002520515	112	SHUT IN	680325
N-25-17-34	3002520249	46	Oil	631215	3002521107	113	Oil	650227
O-25-17-34	3002527913	47	Oil	821024	3002531132	114	Oil	910529
P-25-17-34	3002530970	48	Oil	901231	3002531131	115	Oil	910628
M-30-17-35	3002530967	49	SHUT IN	910519	3002520753	116	Oil	640723
	3002531870	50	Winj	930606	3002520754	117	Oil	640815
	3002531728	51	Winj	921011	3002531129	118	Oil	910701
	3002531702	52	Winj	921118	3002521108	119	SHUT IN	641005
	3002531703	53	Winj	921130	3002531859	120	Winj	930723
	3002531816	54	Winj	930219	3002531876	121	Winj	930808
	3002531817	55	Winj	930120	3002531877	122	Winj	930916
B-35-17-34	3002520329	56	Oil	651021	3002531878	123	Winj	930915
A-35-17-34	3002520510	57	Oil	632907	3002531879	124	Winj	930814
D-36-17-34	3002530715	58	Oil	900117	3002520939	125	Oil	641112
C-36-17-34	3002530971	59	Oil	910409	3002521031	126	SHUT IN	650114
B-36-17-34	3002530716	60	Oil	900115	3002521292	127	SHUT IN	650514
A-36-17-34	3002521432	61	Oil	650703	3002521054	128	SHUT IN	650202
D-31-17-35	3002520863	62	SHUT IN	640721	3002521425	129	SHUT IN	650519
	3002531871	63	Winj	930615	3002520046	130	Oil	630218
	3002531704	64	Winj	921107	3002520334	131	Oil	630924
	3002531705	65	Winj	921026				

~~G-35-17-34~~
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~~M-31-17-35~~
~~A-2-18-34~~
~~D-1-18-34~~
~~C-1-18-34~~
~~B-1-18-34~~
~~A-1-18-34~~
~~B-6-18-35~~
~~C-6-18-35~~
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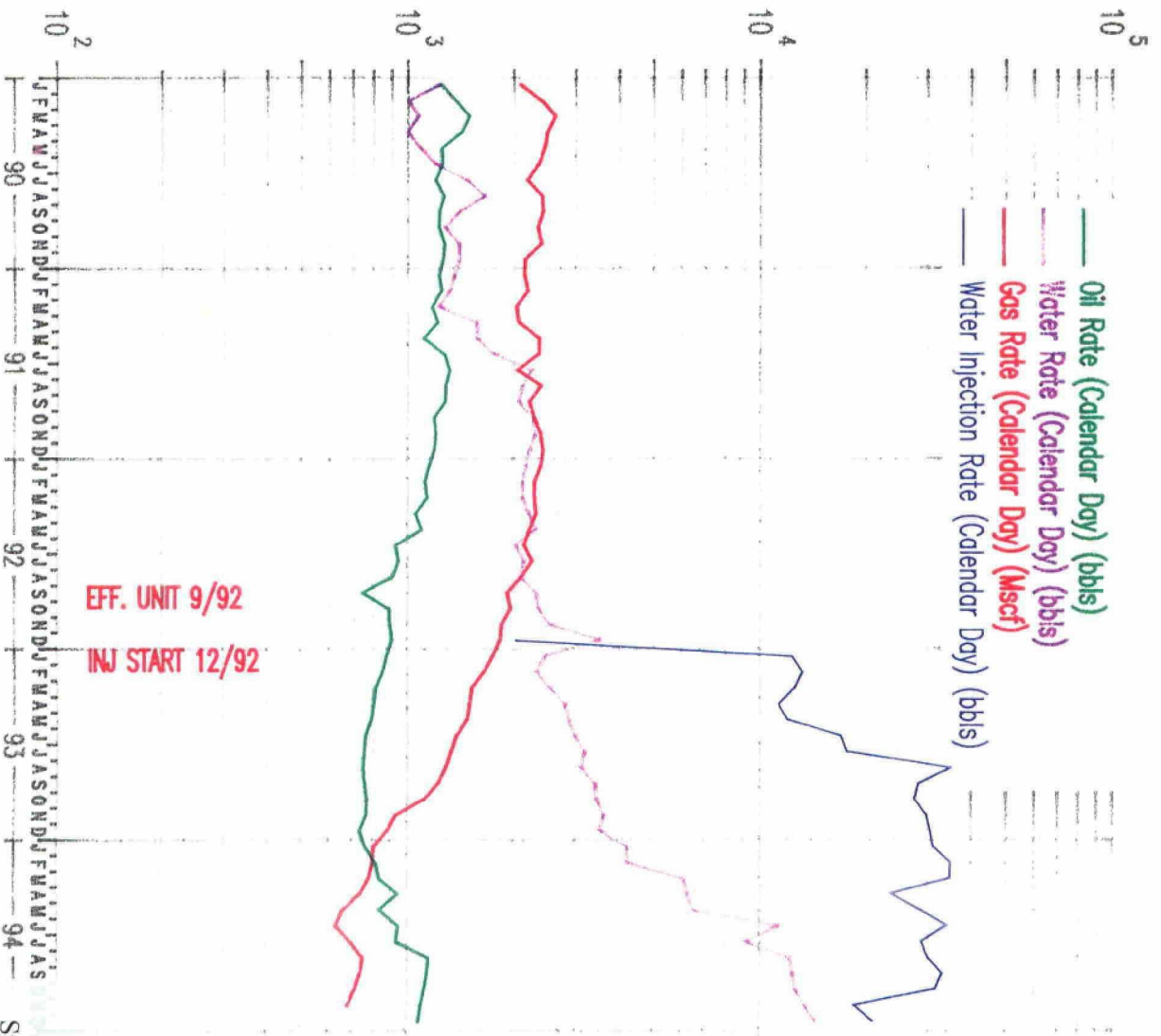
**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11188 Exhibit No. 4

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: February 2, 1995

VACUUM GLORIETA WEST UNIT



BEFORE THE
OIL CONSERVATION DIVISION
 Santa Fe, New Mexico

Case No. 11188 Exhibit No. 5

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: February 2, 1995

PRODUCTION DATA

VACUUM GLORIETA WEST UNIT

<u>DATE</u>	<u>OIL</u>	<u>GAS</u>	<u>WATER</u>	<u>WATER INJECTION</u>
Jan-90	38658	37980	64567	0
Feb-90	38341	27951	67002	0
Mar-90	46379	33121	81214	0
Apr-90	42659	29780	74542	0
May-90	38666	33478	75558	0
Jun-90	37558	36002	70512	0
Jul-90	37014	45554	67377	0
Aug-90	39272	51498	74503	0
Sep-90	36811	42000	72488	0
Oct-90	37963	39385	72288	0
Nov-90	38125	41944	71797	0
Dec-90	39052	43294	66469	0
Jan-91	37974	41928	66318	0
Feb-91	34929	36865	61316	0
Mar-91	36173	37761	62726	0
Apr-91	36535	47031	61765	0
May-91	34232	48638	73242	0
Jun-91	38201	52865	70700	0
Jul-91	40938	70136	63148	0
Aug-91	39810	65596	74303	0
Sep-91	38408	61708	66390	0
Oct-91	36845	70599	70890	0
Nov-91	36063	69307	71521	0
Dec-91	36848	68880	75087	0
Jan-92	35558	67173	74017	0
Feb-92	32366	61282	66376	0
Mar-92	35110	65489	71051	0
Apr-92	31448	66281	69440	0
May-92	33899	71820	68738	0
Jun-92	27613	60374	64085	0
Jul-92	29165	66478	70115	0
Aug-92	28050	64723	65143	0
Sep-92	22283	69744	57247	0
Oct-92	27488	73163	60651	0
Nov-92	26736	76071	55354	0
Dec-92	28015	110134	56726	63222
Jan-93	27074	76516	54095	382609
Feb-93	23822	65003	46212	371130
Mar-93	25248	78906	47217	388962
Apr-93	24120	84206	45017	338319
May-93	24540	88947	45805	371439
Jun-93	22872	89835	41384	509310
Jul-93	23424	99282	41252	547908
Aug-93	23234	96202	39854	1085751
Sep-93	22723	102672	36662	844982
Oct-93	23815	106903	34434	850374
Nov-93	22966	108560	27727	892104
Dec-93	22713	108844	27099	943676
Jan-94	23604	131423	24817	962489
Feb-94	22849	118117	22286	976354
Mar-94	25860	189109	24050	1075342
Apr-94	28284	187187	22016	706232
May-94	25816	200459	20277	881626
Jun-94	28350	342619	18680	1023529
Jul-94	28899	281025	21344	890654
Aug-94	35692	23249	378616	929552
Sep-94	34226	22080	372406	991993
Oct-94	34698	22062	392426	976979
Nov-94	32819	20270	404814	554501
Dec-94	33398	0	446036	650536

**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11188 Exhibit No. 6

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: February 2, 1995



Texaco Exploration and Production Inc.
Midland Producing Division

500 N. Loraine
Midland TX 79701

P. O. Box 3103
Midland TX 79702

November 4, 1994

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

RE: **POSITIVE PRODUCTION RESPONSE**
CERTIFICATION

Vacuum Glorieta West Unit
Lea County, New Mexico

Gentlemen:

Texaco requests certification of positive production response for the subject unit. The Vacuum Glorieta West Unit was certified as a secondary recovery project on December 8, 1992. Attached is the required information associated with the application:

- A copy of the Division's approval of the secondary project
- A plat of the affected area and a list of all wells with completion dates
- A production graph and tabular data of production and injection.

If you need additional information regarding this matter, please contact Mr. Kevin Hickey at (915) 688-2950.

Thank you for your prompt consideration of this matter.

Yours very truly,

James A. Head /KFH

J. A. Head
Asset Manager


KFH-CC

Attachments

TLF

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case No. 11188 Exhibit No. 7

Submitted by: Texaco Exploration and Production Inc.

Hearing Date: February 2, 1995



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Texaco Exploration and Production, Inc.
ATTN: Mike Mullins
P.O. Box 3109
Midland, TX 79702

**CERTIFICATION OF ENHANCED OIL RECOVERY PROJECT
FOR RECOVERED OIL TAX RATE**

The New Mexico Oil Conservation Division hereby certifies that the following Enhanced Oil Recovery Project has been approved by the Division as a **secondary** project, pursuant to the provisions of the New Mexico *Enhanced Oil Recovery Act* (Laws of 1992, Chapter 38). In order to qualify for the *Recovered Oil Tax Rate*, you must apply for certification of positive production response within **five years** from the date of this certification. Only production from that portion of the project area identified herein which is actually developed for enhanced recovery will qualify for the reduced tax rate.

If operation of this project is terminated for any reason, the operator of the project must notify this division and the Secretary of Taxation and Revenue not later than the thirtieth day after termination.

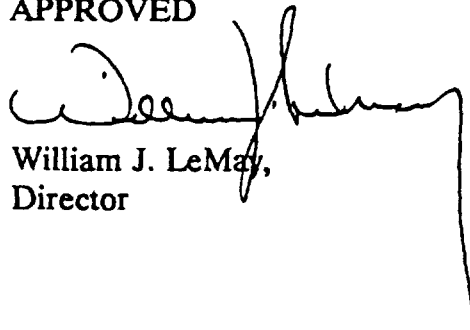
NAME OF PROJECT:	Vacuum Glorieta West Unit
OCD ORDER NO.:	R-9714
OPERATOR: ADDRESS:	Texaco Exploration and Production, Inc. ATTN: Mike Mullins P.O. Box 3109 Midland, TX 79702
CERTIFICATION DATE:	December 8, 1992

EOR Project Certification
 Vacuum Glorieta West Unit

PROJECT AREA

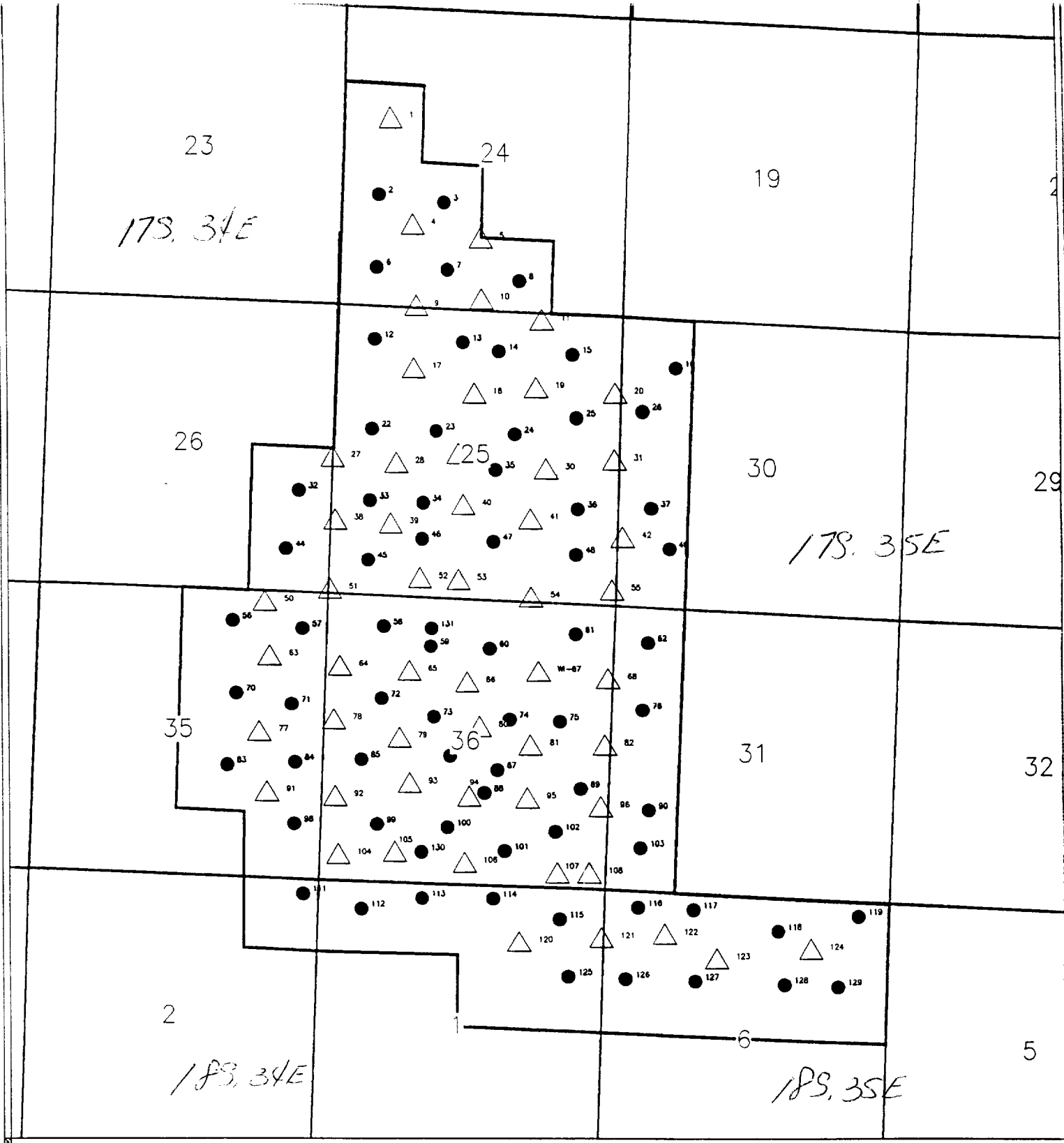
<i>Township</i>	<i>Range</i>	<i>Section</i>	
17 South	34 East	24: 25: 26: 35: 36:	SW/4, SW/4 NW/4, SW/4 SE/4 All E/2 SE/4 NE/4, N/2 SE/4, SE/4 SE/4 All
17 South	35 East	30: 31:	Lots 1,2,3,4 (W/2 W/2) Lots 1,2,3,4 (W/2 W/2)
18 South	34 East	1: 2:	Lots 1,2,3,4 (N/2 N/2), S/2 Ne/4 Lot 1 (NE/4 NE/4)
18 South	35 East	6:	Lots 1,2,3,4,5, SE/4 NW/4, S/2 NE/4 (N/2)

APPROVED



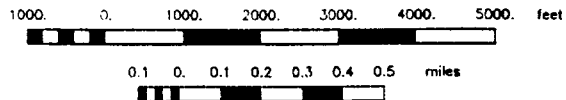
William J. LeMay,
 Director

seal



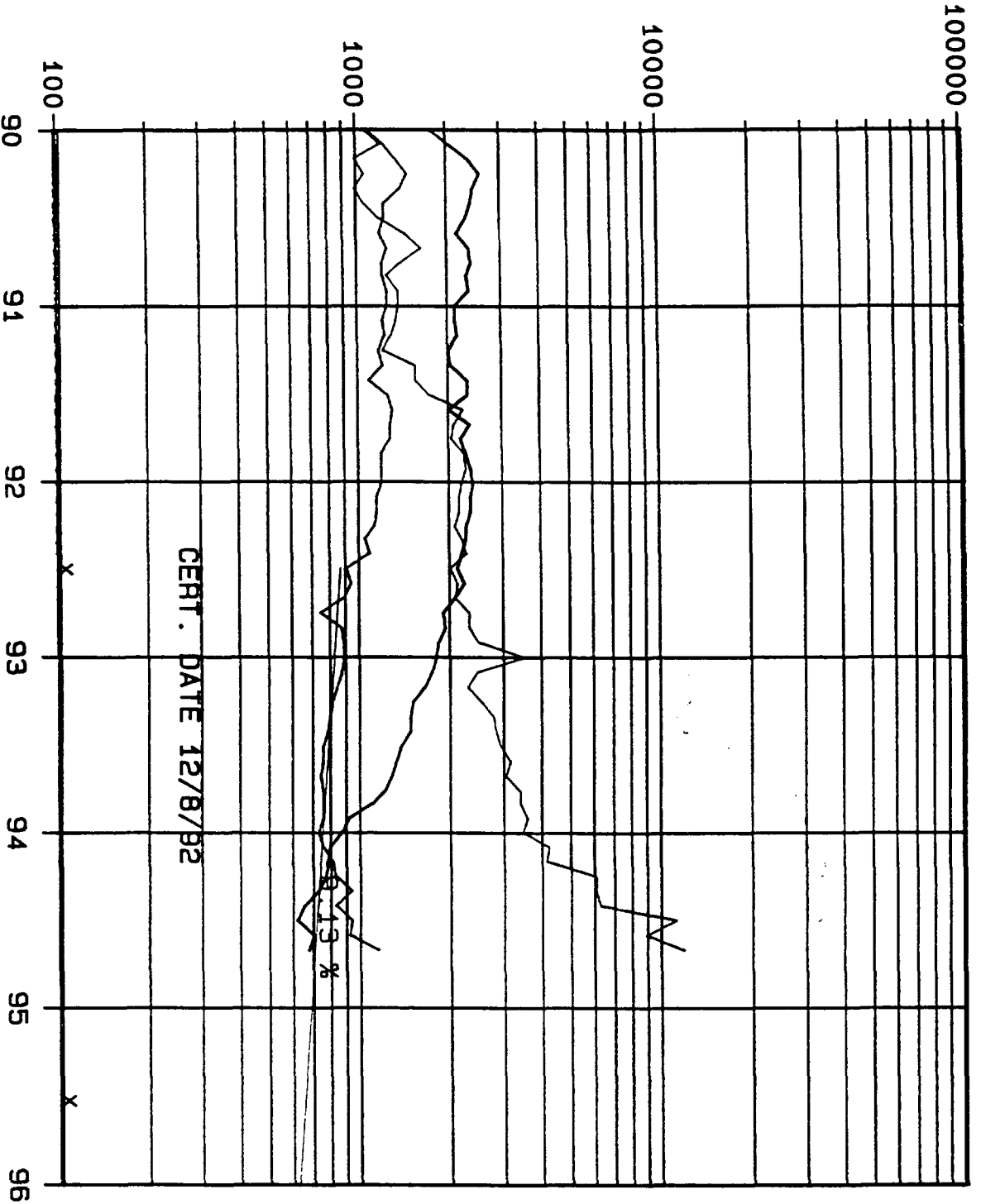
Texaco Exploration & Prod. Inc.		
VACUUM GLORIETA WEST UNIT LEA COUNTY NEW MEXICO		
Hickey, Kevin		11/3/94
Scale 1:30000.		

Scale 1:30000.



VACUUM GLORIETA WEST UNIT

BOPD BWPD MCFPD BWIPD



YEARS

LEASE DATA

LSE
 FLD
 OPER
 ZONE
 --
 COUNTY
 STATE
 STATUS 8-94
 CO 16893 MBO
 CG 26994 MMCF
 CW 14200 MBW
 BOPD 1151
 BWPD 12093
 MCFPD 677
 WELLS 1
 CI 15018 MBWI
 BWIPD 29986

PRODUCTION DATA
VACUUM GLORIETA WEST UNIT

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