



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

February 12, 1996

Texaco Exploration and Production, Inc.
P. O. Box 3109
Midland, Texas 79702

Attention: C. W. Howard

Administrative Order DD-130(NSBHL)

Dear Mr. Howard:

Under the provisions of Rules 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995 and Rule 104.F, revised by Division Order No. R-10533, issued by the Commission in Case 11351 on January 18, 1996, Texaco Exploration and Production Inc. made application to the New Mexico Oil Conservation Division on January 18, 1996 for authorization to directional drill its proposed Central Vacuum Unit Well No. 168, Lea County, New Mexico.

The Division Director Finds That:

- (1) The proposed wellbore to be drilled to a pre-determined bottom-hole location is within the applicant's Central Vacuum Unit Pressure Maintenance Project Area, established by Division Order No. R-5530, as amended, and as such the Vacuum Grayburg-San Andres Pool is subject to the statewide rules and regulations for oil wells, as promulgated by Rules 104.C(1)(a) and F(1), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of the lease or unitized area, nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary;
- (2) Under the provisions of Division General Rule 104.F(1) the applicant further requests that the bottom-hole location be unorthodox for the purpose of completing an efficient injection/production pattern within the Central Vacuum Unit Pressure Maintenance Project Area;

- (3) It is Texaco's intent to place its Central Vacuum Unit Well No. 168 at a surface location 2068 feet from the North line and 1467 feet from the West line (Unit F) of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum Grayburg-San Andres Pool, Central Vacuum Unit Area, Lea County, New Mexico, drill vertically to an approximate depth of 3011 feet, kick-off in a northwesterly direction, and drill directionally to a targeted unorthodox bottomhole oil well location that is approximately 1918 feet from the North line and 1310 feet from the West line (Unit E) of said Section 36.
- (4) It appears the applicant has satisfied all of the appropriate requirements prescribed in said Rules 111.D and E and 104.F, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable and/or practical provisions of Division General Rules 111 and 104.F(1).

IT IS THEREFORE ORDERED THAT:

(1) Texaco Exploration and Production, Inc. is hereby authorized to drill its Central Vacuum Unit Well No. 168 from a surface location 2068 feet from the North line and 1467 feet from the West line (Unit F) of Section 36, Township 17 South, Range 34 East, NMPM, Central Vacuum Unit Area, Lea County, New Mexico, and intentionally deviate to a targeted unorthodox bottomhole oil well location within the Vacuum Grayburg-San Andres Pool that is approximately 1918 feet from the North line and 1310 feet from the West line (Unit E) of said Section 36.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED FURTHER THAT during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Hobbs District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

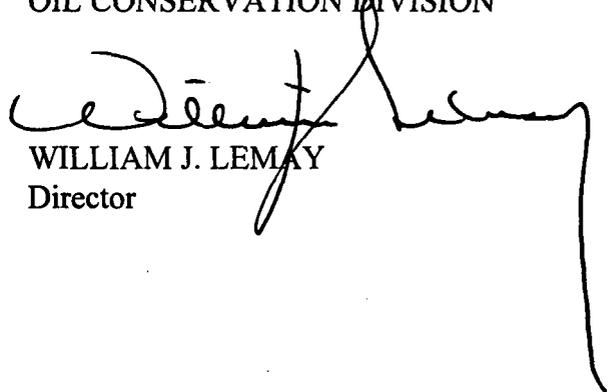
(3) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable and/or practical requirements in 111.D and F and 104.F(1).

(4) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth (TVD) in addition to measured depths (MVD).

(5) 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

SEAL

cc: Oil Conservation Division - Hobbs
NM State Land Office - Santa Fe

OIL CONSERVATION DIVISION

Rec. 1/18/96
Susp. 2/7/96
Released 2/12/96

DD-Tex

January 19, 1996

**Texaco Exploration and Production, Inc.
P. O. Box 3109
Midland, Texas 79702**

Attention: C. W. Howard

130
Administrative Order DD-4(NSBHL)*

Dear Mr. Howard:

Under the provisions of Rules 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995 and Rule 104.F, revised by Division Order No. R-10533, issued by the Commission in Case 11351 on January 18, 1996, Texaco Exploration and Production Inc. made application to the New Mexico Oil Conservation Division on January 18, 1996 for authorization to directional drill its proposed Central Vacuum Unit Well No. 168, Lea County, New Mexico.

The Division Director Finds That:

- (1) The proposed wellbore to be drilled to a pre-determined bottom-hole location is within the applicant's Central Vacuum Unit Pressure Maintenance Project Area, established by Division Order No. R-5530, as amended, and as such the Vacuum Grayburg-San Andres Pool is subject to the statewide rules and regulations for oil wells, as promulgated by Rules 104.C(1)(a) and F(1), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of the lease or unitized area, nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary;
- (2) Under the provisions of Division General Rule 104.F(1) the applicant further requests that the bottom-hole location be unorthodox for the purpose of completing an efficient injection/production pattern within the Central Vacuum Unit Pressure Maintenance Project Area;

- (3) It is Texaco's intent to place its Central Vacuum Unit Well No. 168 at a surface location 2068 feet from the North line and 1467 feet from the West line (Unit F) of Section 36, Township 17 South, Range 34 East, NMPM, Vacuum Grayburg-San Andres Pool, Central Vacuum Unit Area, Lea County, New Mexico, drill vertically to an approximate depth of 3011 feet, kick-off in a northwesterly direction, and drill directionally to a targeted unorthodox bottomhole oil well location that is approximately 1918 feet from the North line and 1310 feet from the West line (Unit E) of said Section 36.
- (4) It appears the applicant has satisfied all of the appropriate requirements prescribed in said Rules 111.D and E and 104.F, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable and/or practical provisions of Division General Rules 111 and 104.F(1).

IT IS THEREFORE ORDERED THAT:

(1) Texaco Exploration and Production, Inc. is hereby authorized to drill its Central Vacuum Unit Well No. 168 from a surface location 2068 feet from the North line and 1467 feet from the West line (Unit F) of Section 36, Township 17 South, Range 34 East, NMPM, Central Vacuum Unit Area, Lea County, New Mexico, and intentionally deviate to a targeted unorthodox bottomhole oil well location within the Vacuum Grayburg-San Andres Pool that is approximately 1918 feet from the North line and 1310 feet from the West line (Unit E) of said Section 36.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED FURTHER THAT during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Hobbs District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.

Administrative Order DD-***** (NSBHL)

August *****

Page No. 3

(3) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable and/or practical requirements in 111.D and F and 104.F(1).

(4) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth (TVD) in addition to measured depths (MVD).

(5) 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

cc: Oil Conservation Division - Hobbs

New Mexico State Land Office - Santa Fe



OP. TEX

OIL CONSERVATION DIVISION
RECEIVED

Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702 8 52

January 11, 1996

GOV - STATE AND LOCAL GOVERNMENTS

Unorthodox Locations
Directional Drilling
Central Vacuum Unit
Well Nos. 168, 176, 187, and 188
Vacuum Grayburg-San Andres Field
Lea County, New Mexico

#168

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Attention: Mr. Michael E. Stogner

Gentlemen:

An Exception to Rule 104 F.I. and to Rule 111 c.2 by administrative approval is requested for Texaco Exploration and Production Inc.'s Central Vacuum Unit Well Nos. 168, 176, 187 and 188.

These wells must be drilled at these locations to ensure proper development of 10-acre spacing. Wells drilled previously on 10-acre spacing have proven to be viable wells. These wells must be directionally drilled because surface obstructions prevented staking them at the proposed bottom-hole locations. They will be completed in the Grayburg San Andres formation and will be producing wells. See attached list for the surface and proposed bottom-hole locations. Also attached is a type log section, and our proposed directional plans. These wells will be drilled to a TVD of 4800'.

Texaco Exploration and Production Inc. is the only "affected offset operator" to Well Nos. 187 and 188. We grant ourselves a waiver to the unorthodox location. There are no "affected offset operators" to Well No. 176. Phillips Petroleum Company is the only "affected offset operator" to Well No. 168 and they have been notified of this request. (see attached certified receipt) Attached is Form C-102 for each well showing the surface and bottom-hole locations and a lease plat showing the location of the subject wells.

Any questions concerning this request should be directed to me at (915) 688-4606.

Yours very truly,

C. Wade Howard

C. W. Howard
Engineer Assistant

CWH:cwh cc: NMOCD, Hobbs, NM

CENTRAL VACUUM UNIT

WELL LOCATIONS

NO. 168: Surface 2068' FNL, 1467' FWL OF SEC. 36, T-17-S, R-34-E
BHL: 1918' FNL & 1310' FWL OF SEC. 36, T-17-S, R-34-E

NO. 176: Surface 1988' FSL, 355' FEL OF SEC. 36, T-17-S, R-34-E
BHL: 1993' FSL, 10' FEL OF SEC. 36, T-17-S, R-34-E

NO. 187: Surface 974' FSL, 1199' FWL OF SEC. 31, T-17-S, R-35-E
BHL: 660' FSL, 1292' FWL OF SEC. 31, T-17-S, R-35-E

NO. 188: Surface 650' FSL, 318' FEL OF SEC. 36, T-17-S, R-34-E
BHL: 663' FSL, 10' FEL OF SEC. 36, T-17-S, R-34-E

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
 - 2. Restricted Delivery
- Consult postmaster for fee.

3. Article Addressed to:

Phillips Petroleum Co.
 4001 PENBROOK
 ODESSA, TX 79762

4a. Article Number
P 652 054 553

- 4b. Service Type
- Registered Insured
 - Certified COD
 - Express Mail Return Receipt for Merchandise

7. Date of Delivery
1-11-96 *Jm*

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

Nancy Buck

Thank you for using Return Receipt Service.



Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

P O Box 3109
Midland TX 79702

January 11, 1996

GOV - STATE AND LOCAL GOVERNMENTS

Unorthodox Locations

**Central Vacuum Unit Well No. 168
Vacuum Grayburg-San Andres Field
Lea County, New Mexico**

**Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762**

Gentlemen:

As the "affected offset operator" to the captioned well, you are being furnished with a copy of our Application for an Exception to Rules 104, F.I. and 111 c.2. If you have no objection, please sign the waiver at the bottom of this letter and return in the enclosed envelope.

Any questions concerning this request should be directed to me at (915) 688-4606.

Yours very truly,

C. Wade Howard

**C. W. Howard
Engineer Assistant**

CWH:cwh

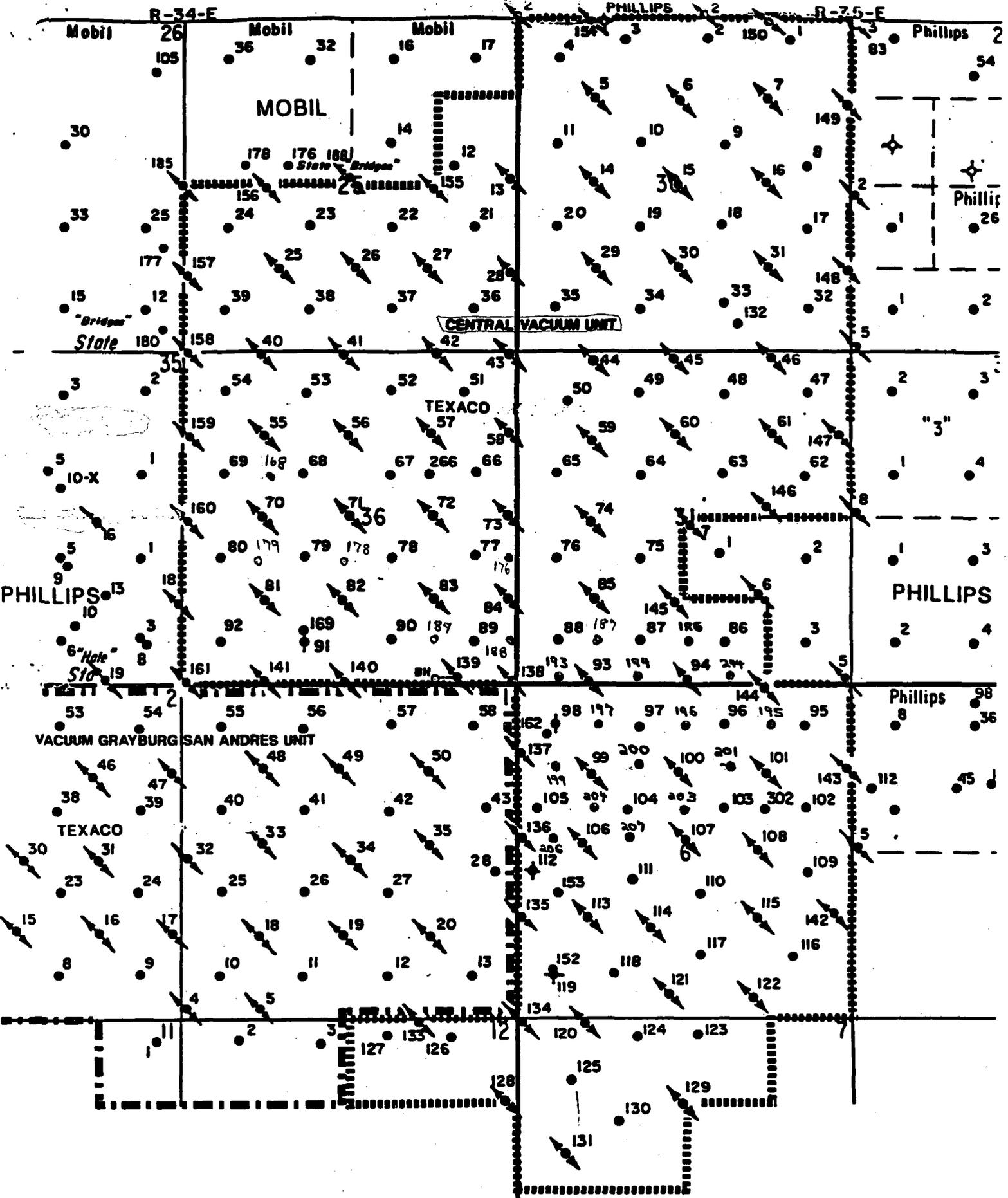
File

WAIVER APPROVED:

COMPANY: _____

BY: _____

DATE: _____

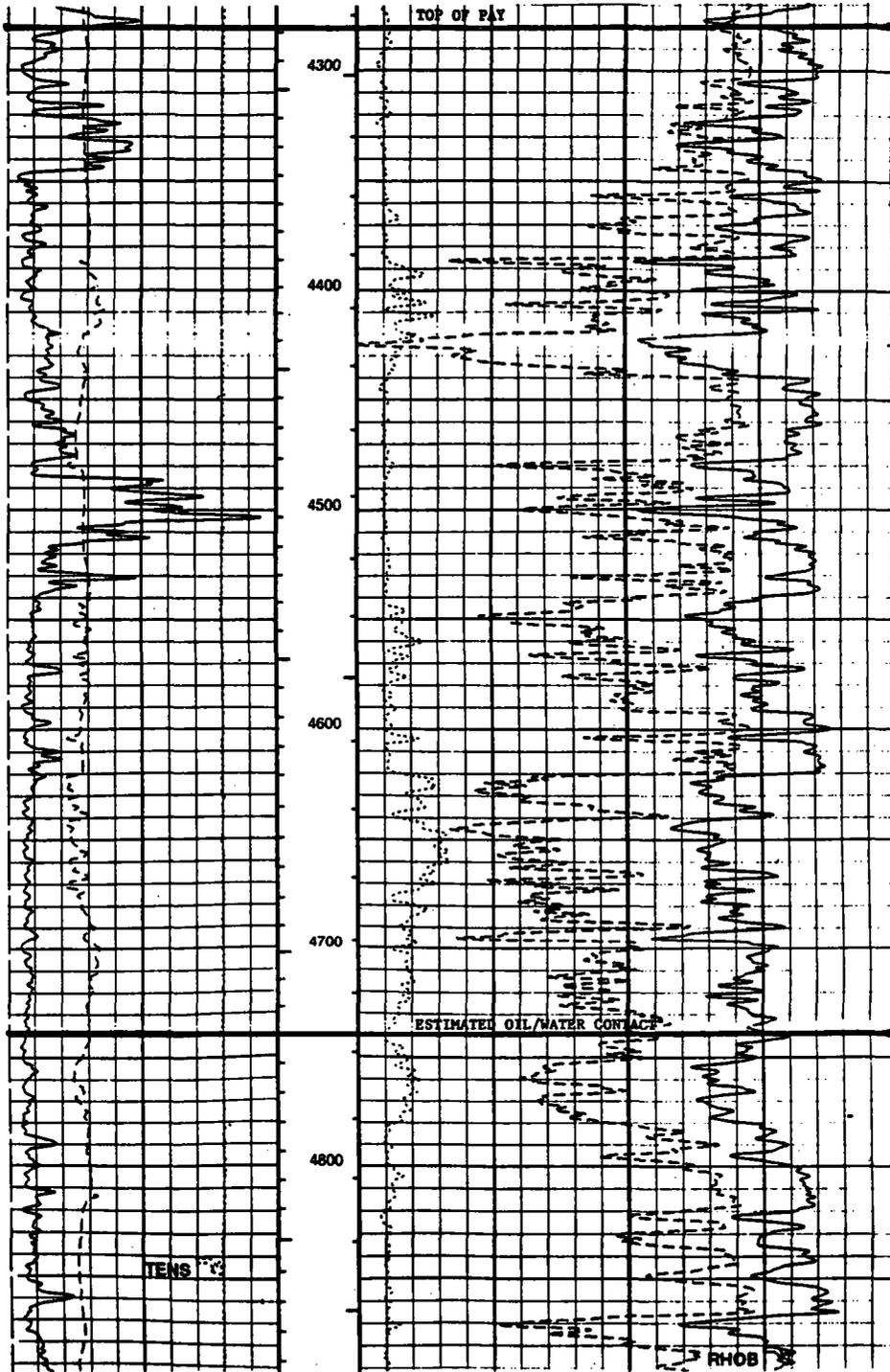


- PROPOSED WELL
- PRODUCING WELL
- ⚡ INJECTION WELL
- ◆ SHUT-IN WELL

TEXACO
CENTRAL VACUUM UNI
VACUUM G-SA FIELD
LEA COUNTY, NEW MEXIC

TYPE LOG

VACUUM GRAYBURG SAN ANDRES FIELD
TEXACO E&P INC.
VACUUM 36 STATE COM #1
2310' FSL & 660' FEL
SEC. 36 17S-34E
LEA COUNTY, NEW MEXICO



Texaco Exploration & Production, Inc.

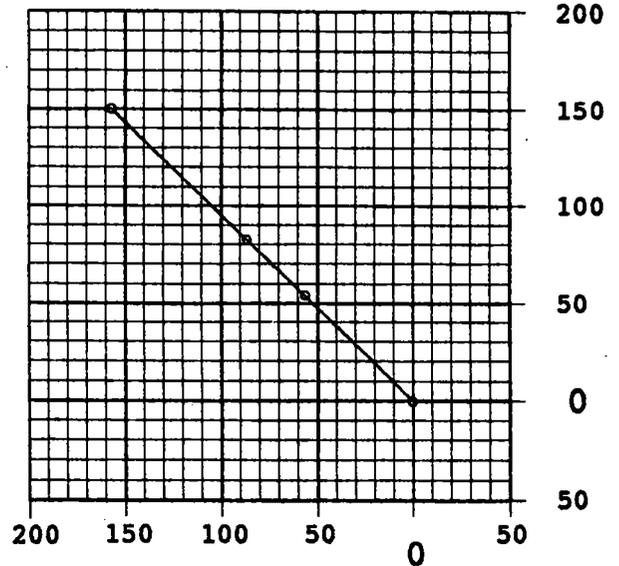
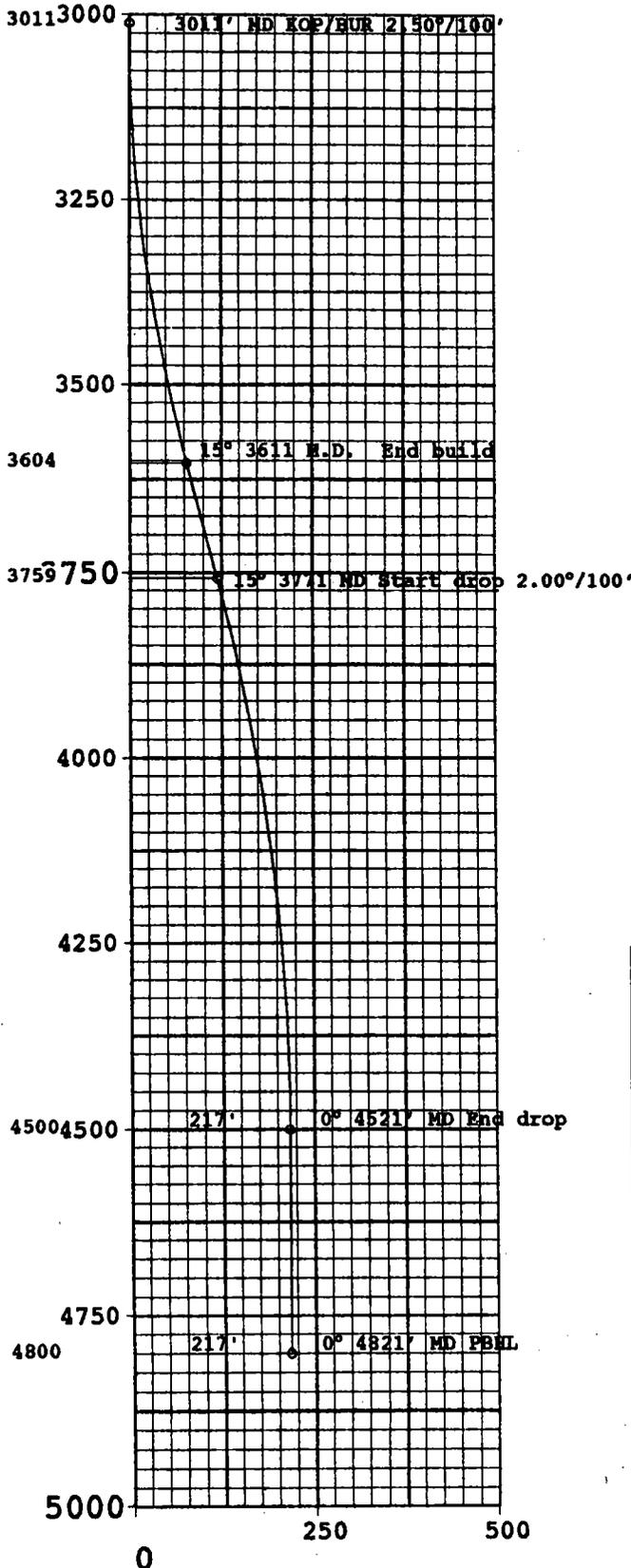
Texaco Central Vacuum Unit, Well #168
 Section 36, Tp. 17S, Rge 34E - Lea County, New Mexico
 Directional Proposal

Plane of Proposal

N 46° 19' W

VERTICAL SECTION

Scale 1" = 250'



HORIZONTAL PLAN

Scale 1" = 100'



PDS

PERFORMANCE DRILLING SPECIALISTS, INC.

DATE: January 8, 1996

DRAWN BY: Gary Long

PREPARED FOR: Scott Elkington

Note:

With motors, drilling a "S" curve will probably be the easiest way to stay within the 50' radius for the last 300'. End of curve has 160' tangent to establish drop rate in rotary mode.

DD Proposal

Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	RECTANGULAR COORDINATES		DLS Deg/100'
3000.00	0	0	3000.00	0	0	
3010.74	0	0	3010.74	0	0	0
3110.74	2.50	313.69	3110.71	1.51 N	1.58 W	2.50
3210.74	5.00	313.69	3210.48	6.02 N	6.31 W	2.50
3310.74	7.50	313.69	3309.88	13.54 N	14.18 W	2.50
3410.74	10.00	313.69	3408.71	24.05 N	25.18 W	2.50
3510.74	12.50	313.69	3506.78	37.53 N	39.28 W	2.50
3610.73	15.00	313.69	3603.90	53.94 N	56.47 W	2.50
3770.83	15.00	313.69	3758.55	82.56 N	86.43 W	0
3870.83	13.00	313.69	3855.57	99.27 N	103.92 W	2.00
3970.83	11.00	313.69	3953.38	113.64 N	118.95 W	2.00
4070.83	9.00	313.69	4051.86	125.63 N	131.51 W	2.00
4170.83	7.00	313.69	4150.88	135.24 N	141.57 W	2.00
4270.83	5.00	313.69	4250.33	142.46 N	149.13 W	2.00
4370.83	3.00	313.69	4350.08	147.28 N	154.17 W	2.00
4470.83	1.00	313.69	4450.01	149.69 N	156.70 W	2.00
4520.82	0	0	4500.00	149.99 N	157.01 W	2.00
4820.82	0	0	4800.00	149.99 N	157.01 W	0

Final location: 217.14 feet at 313.69 degrees

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

DISTRICT II
P. O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

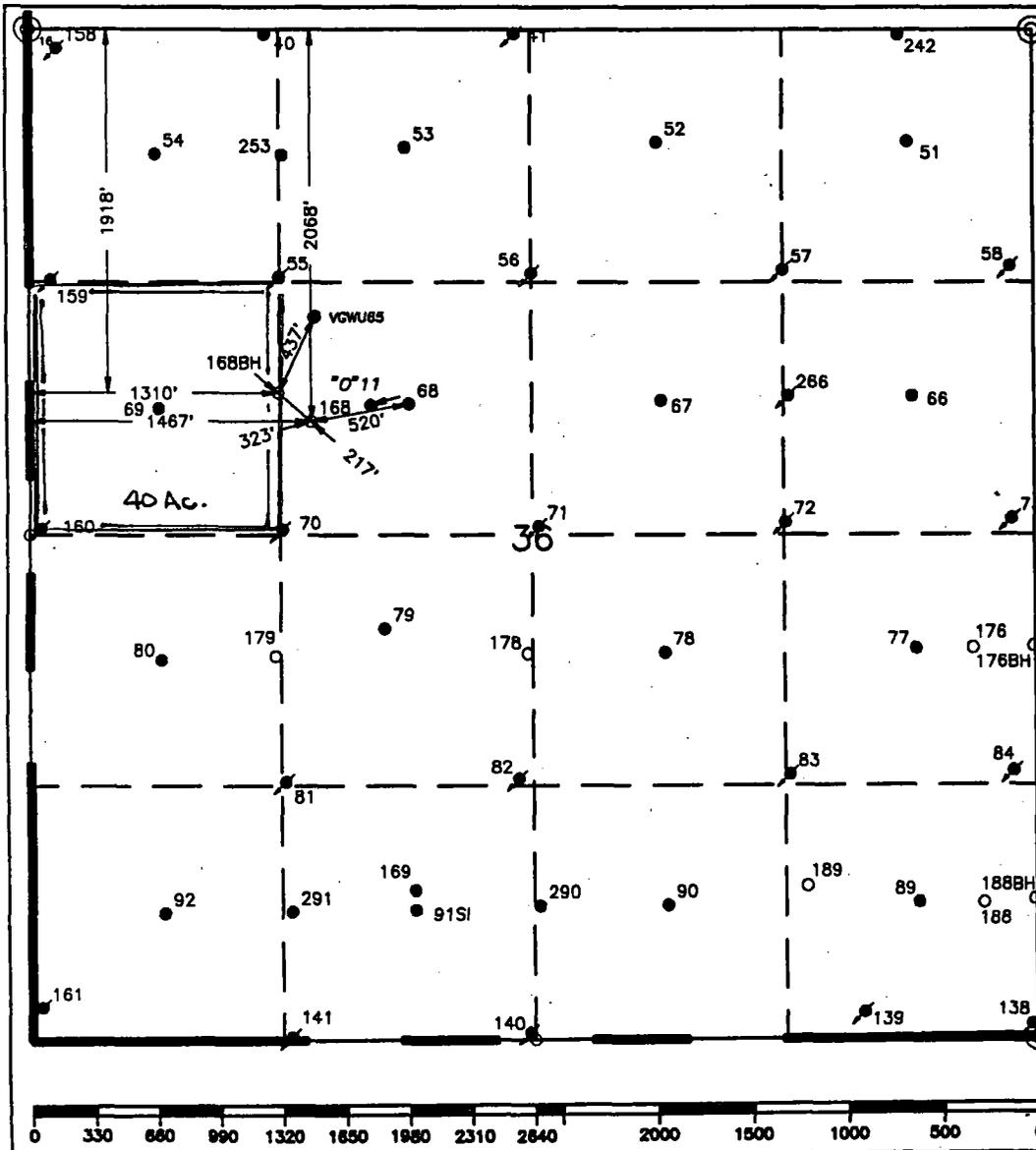
State Lease-4 copies
Fee Lease-3 copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 62180		³ Pool Name Vacuum Grayburg-San Andres					
⁴ Property Code 11122		⁵ Property Name Central Vacuum Unit			⁶ Well Number 168				
⁷ OGRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			⁹ Elevation 3985'				
¹⁰ Surface Location									
UL or lot no. F	Section 36	Township 17-S	Range 34-E	Lot Idn	Feet from the 2068'	North/South line North	Feet from the 1467'	East/West line West	⁷ County Lea
¹¹ Bottom Hole Location if Different From Surface									
UL or lot no. E	Section 36	Township 17-S	Range 34-E	Lot Idn	Feet from the 1918'	North/South line North	Feet from the 1310'	East/West line West	⁷ County Lea
¹² Dedicated Acres 40		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



¹ OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Signature	<i>C. Wade Howard</i>
Printed Name	C. Wade Howard
Position	Engineer's Assistant
Company	Texaco Expl. & Prod. Inc.
Date	December 21, 1995
¹⁶ SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.	
Date Surveyed	December 5, 1995
Signature & Seal of Professional Surveyor	<i>John S. Piper</i>
Certificate No.	7254 John S. Piper
Sheet	

○ = Staked Location ● = Producing Well = Injection Well ⊗ = Water Supply Well ◆ = Plugged & Abandon Well

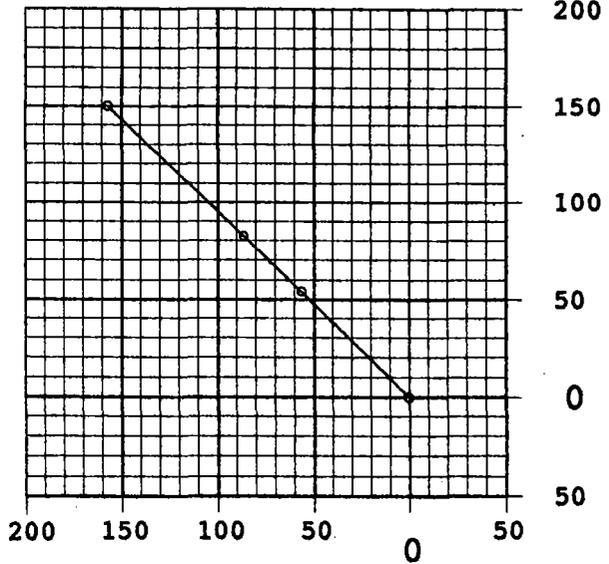
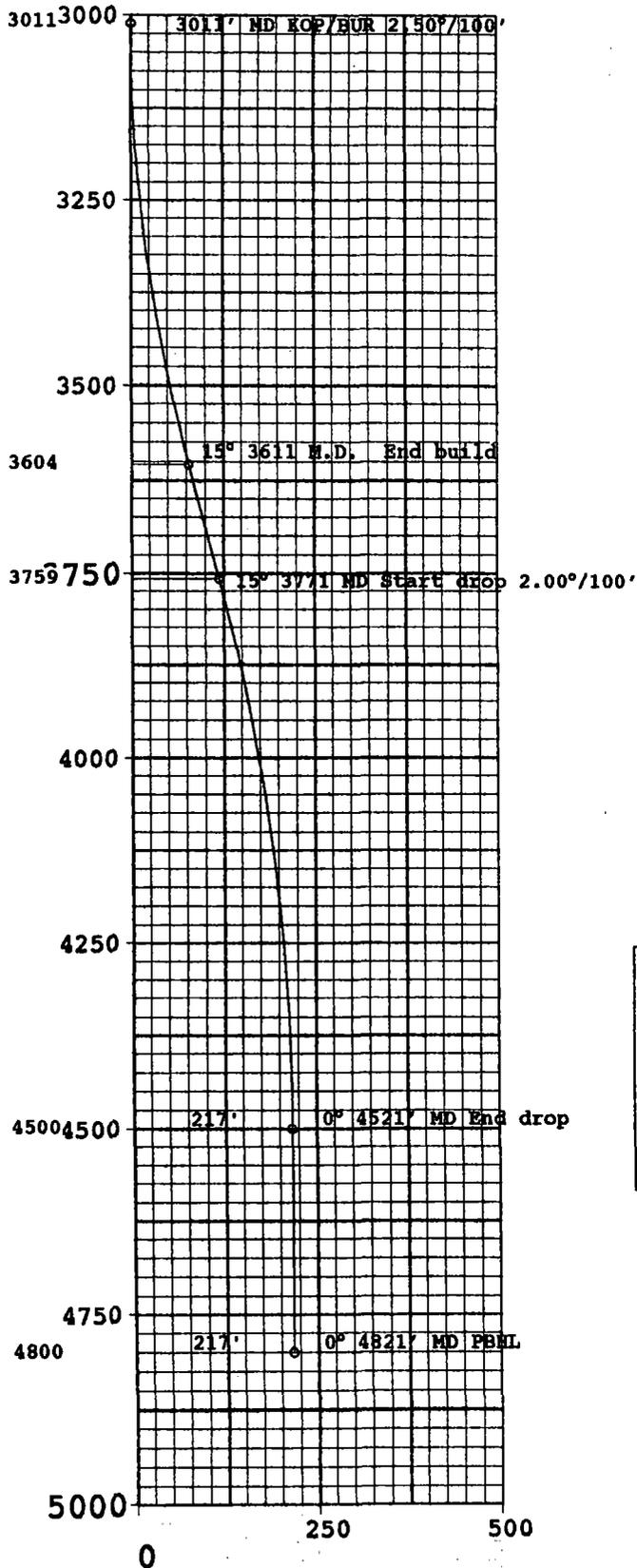
Texaco Exploration & Production, Inc.
 Texaco Central Vacuum Unit, Well #168
 Section 36, Tp. 17S, Rge 34E - Lea County, New Mexico
 Directional Proposal

Plane of Proposal

N 46° 19' W

VERTICAL SECTION

Scale 1" = 250'



HORIZONTAL PLAN

Scale 1" = 100'



PDS
 PERFORMANCE DRILLING SPECIALISTS, INC.
 DATE: January 8, 1996
 DRAWN BY: Gary Long
 PREPARED FOR: Scott Elkington

Note:
 With motors, drilling a "S" curve will probably be the easiest way to stay within the 50' radius for the last 300'. End of curve has 160' tangent to establish drop rate in rotary mode.

DD Proposal

Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	RECTANGULAR COORDINATES		DLS Deg/100'
3000.00	0	0	3000.00	0	0	
3010.74	0	0	3010.74	0	0	0
3110.74	2.50	313.69	3110.71	1.51 N	1.58 W	2.50
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4070.83	9.00	313.69	4051.86	125.63 N	131.51 W	2.00
4170.83	7.00	313.69	4150.88	135.24 N	141.57 W	2.00
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Final location: 217.14 feet at 313.69 degrees

DISTRICT I
P. O. Box 1980, Hobbs, NM 88240

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P. O. Drawer DD, Artesia, NM 88210

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1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P. O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994

Instructions on back

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Office

State Lease-4 copies
Fee Lease-3 copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

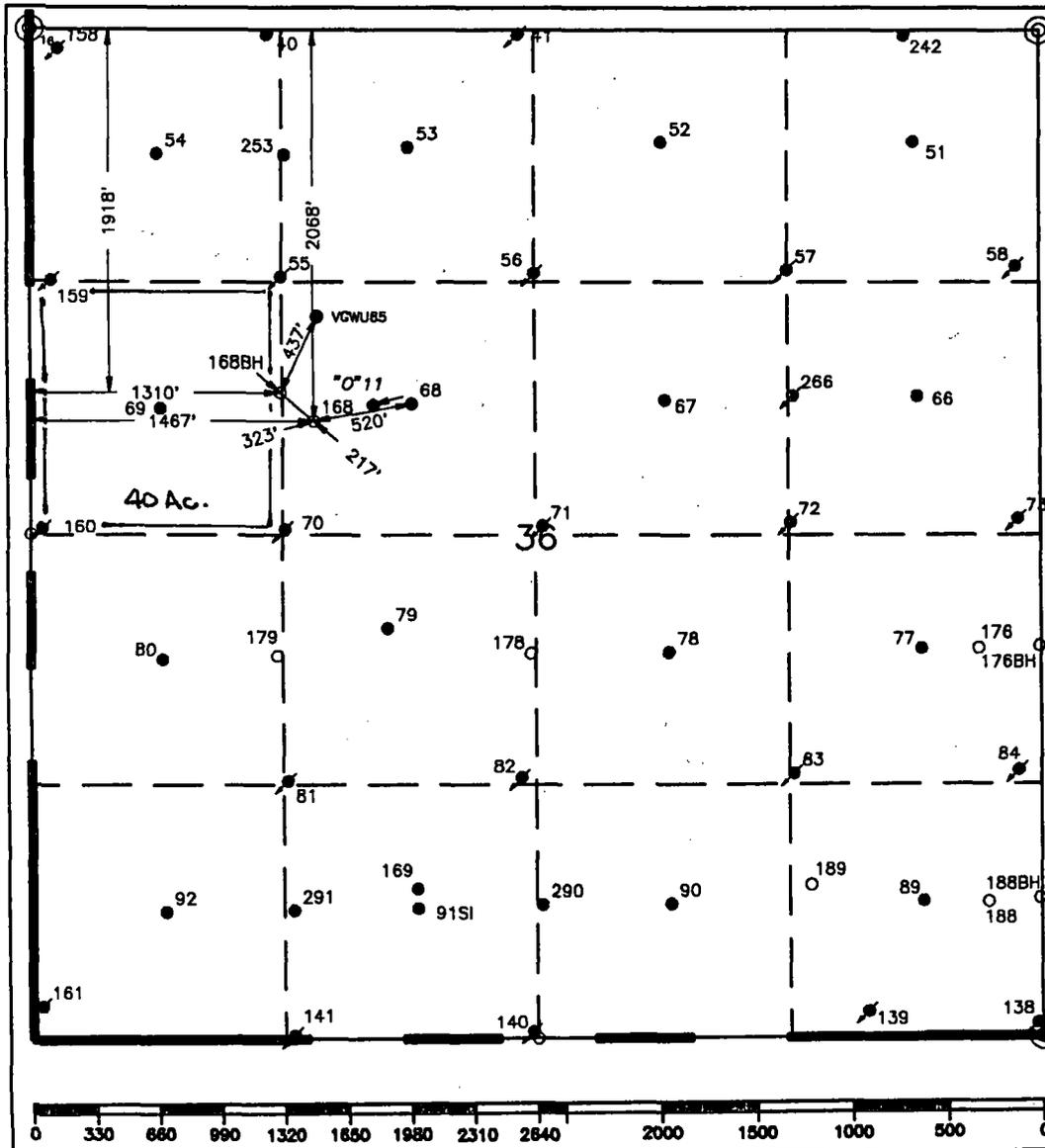
¹ API Number		² Pool Code 62180		³ Pool Name Vacuum Grayburg-San Andres	
⁴ Property Code 11122		⁵ Property Name Central Vacuum Unit			⁶ Well Number 168
⁷ OGRID No. 22351		⁸ Operator Name TEXACO EXPLORATION & PRODUCTION, INC.			⁹ Elevation 3985'

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
F	36	17-S	34-E		2068'	North	1467'	West	Lea

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	⁷ County
E	36	17-S	34-E		1918'	North	1310'	West	Lea

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *C. Wade Howard*

Printed Name: **C. Wade Howard**

Position: **Engineer's Assistant**

Company: **Texaco Expl. & Prod. Inc.**

Date: **December 21, 1995**

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **December 5, 1995**

Signature & Seal of Professional Surveyor: *John S. Piper*

Certificate No.: **7254 John S. Piper**

Sheet

○ = Staked Location ● = Producing Well = Injection Well ◊ = Water Supply Well ◆ = Plugged & Abandon Well