



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

October 16, 1996

**Texaco Exploration & Production Inc.**  
**205 E. Bender Blvd.**  
**Hobbs, New Mexico 88240**  
**Attention: Monte C. Duncan**

*Administrative Order DD-145-A(NSBHL)*

Dear Mr. Duncan:

Reference is made to your application dated September 17, 1996 for approval to recomplete the New Mexico "N" State Well No. 10 (API No. 30-025-33434), located on the surface 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of Section 30, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico, into the Vacuum-Upper Pennsylvanian Pool at an unorthodox subsurface oil well location.

**The Division Director Finds That:**

- (1) By Division Administrative Order DD-145, dated May 7, 1996, Texaco Exploration & Production Inc. ("Texaco") was authorized to drill said New Mexico "N" State Well No. 10 from a standard surface oil well location 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of said Section 30, drill vertically to an approximate depth of 8,000 feet, kick-off in a south-southwesterly direction, and drill directionally to a targeted standard bottomhole oil well location within the Atoka formation being approximately 380 feet from the South and West lines of said Section 30. The 37.59-acre tract comprising Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 was dedicated to said well to form a (standard) oil spacing and proration unit for wildcat Atoka oil production. Said order DD-145 ascribed the applicable drilling window or "producing area" for said wellbore as that area within Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 being no closer than 330 feet to the outer boundary of said dedicated 37.59-acre tract;
- (2) From well data on file with the New Mexico Oil Conservation Division the New Mexico "N" State Well No. 10 was drilled to a total depth of 11,536 feet in July, 1996, after the Atoka interval between 11,132 feet to 11,252 feet tested dry the Upper Pennsylvanian zone from 10,088 feet to 10,184 feet was completed;

- (3) The Vacuum-Upper Pennsylvanian Pool is subject to the "*Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool*", as promulgated by Division Order No. R-2697, as amended, which provides for 80-acre oil spacing and proration units, or drilling units, and requires that wells be located within a 200 foot radius of the center of a governmental quarter-quarter section or lot, provided that the first well on the 80-acre unit is located in either the NW/4 or SE/4 of a governmental quarter section;
- (4) This application has been duly filed under the provisions of **Rule 5** of said special pool rules and **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;
- (5) As indicated by the directional survey, dated August 2, 1996, on file with the Division, the actual bottomhole location for this well within the perforated interval of the Vacuum-Upper Pennsylvanian Pool is approximately 400 feet from the South line and 388 feet from the West line (Lot 4/Unit M) of said Section 30.
- (6) The 75.96 acres comprising Lots 3 and 4 (the W/2 SW/4 equivalent) of said Section 30 is to be dedicated to said well per **Rule 2** of said "*Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool*"; and,
- (7) Texaco having satisfied all of the appropriate requirements prescribed in **Rule 5** of said "*Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool*", the subject unorthodox bottomhole Upper Pennsylvanian oil well should therefore be approved.

IT IS THEREFORE ORDERED THAT:

- (1) The unorthodox subsurface oil well location within the Vacuum-Upper Pennsylvanian Pool, being approximately 400 feet from the South line and 388 feet from the West line (Lot 4/Unit M) of Section 30, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico, for the Texaco Exploration and Production Inc. New Mexico "N" State Well No. 10 (API No. 30-025-33434), located on the surface 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of said Section 30, is hereby approved.
- (2) The 75.96 acres comprising Lots 3 and 4 (the W/2 SW/4 equivalent) of said Section 30 is to be dedicated to said well per **Rule 2** of the "*Special Rules and Regulations for the*

Administrative Order DD-145-A(NSBHL)  
Texaco Exploration & Production Inc.  
October 16, 1996  
Page 3

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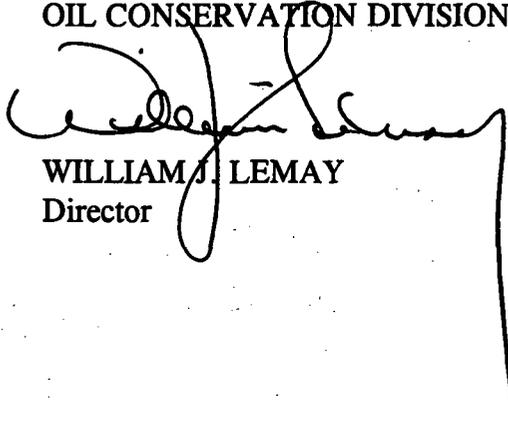
*Vacuum-Upper Pennsylvanian Pool*", as promulgated by Division Order No. R-2697, as amended.

(3) All provisions of Division Administrative Order DD-145, dated May 7, 1996, not in conflict with this order shall remain in full force and effect until further notice.

(4) 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

WJL/MES/kv

cc: Oil Conservation Division - Hobbs  
New Mexico State Land Office - Santa Fe  
File: DD-145

DD-145-A

Rec: 9-19-96

Susp 10-9-96

Release 10-16-96

October 16, 1996

**Texaco Exploration & Production Inc.  
205 E. Bender Blvd.  
Hobbs, New Mexico 88240**

**Attention: Monte C. Duncan**

*Administrative Order DD-145-A(NSBHL)*

Dear Mr. Duncan:

Reference is made to your application dated September 17, 1996 for approval to recomplete the New Mexico "N" State Well No. 10 (API No. 30-025-33434), located on the surface 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of Section 30, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico, into the Vacuum-Upper Pennsylvanian Pool at an unorthodox subsurface oil well location.

**The Division Director Finds That:**

- (1) By Division Administrative Order DD-145, dated May 7, 1996, Texaco Exploration & Production Inc. ("Texaco") was authorized to drill said New Mexico "N" State Well No. 10 from a standard surface oil well location 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of said Section 30, drill vertically to an approximate depth of 8,000 feet, kick-off in a south-southwesterly direction, and drill directionally to a targeted standard bottomhole oil well location within the Atoka formation being approximately 380 feet from the South and West lines of said Section 30. The 37.59-acre tract comprising Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 was dedicated to said well to form a (standard) oil spacing and proration unit for wildcat Atoka oil production. Said order DD-145 ascribed the applicable drilling window or "producing area" for said wellbore as that area within Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 being no closer than 330 feet to the outer boundary of said dedicated 37.59-acre tract;
- (2) From well data on file with the New Mexico Oil Conservation Division the New Mexico "N" State Well No. 10 was drilled to a total depth of 11,536 feet in July, 1996, after the Atoka interval between 11,132 feet to 11,252 feet tested dry the

Upper Pennsylvanian zone from 10,088 feet to 10,184 feet was completed;

- (3) The Vacuum-Upper Pennsylvanian Pool is subject to the "*Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool*", as promulgated by Division Order No. R-2697, as amended, which provides for 80-acre oil spacing and proration units, or drilling units, and requires that wells be located within a 200 foot radius of the center of a governmental quarter-quarter section or lot, provided that the first well on the 80-acre unit is located in either the NW/4 or SE/4 of a governmental quarter section;
- (4) This application has been duly filed under the provisions of **Rule 5** of said special pool rules and **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;
- (5) As indicated by the directional survey, dated August 2, 1996, on file with the Division, the actual bottomhole location for this well within the perforated interval of the Vacuum-Upper Pennsylvanian Pool is approximately 400 feet from the South line and 388 feet from the West line (Lot 4/Unit M) of said Section 30.
- (6) The 75.96 acres comprising Lots 3 and 4 (the W/2 SW/4 equivalent) of said Section 30 is to be dedicated to said well per **Rule 2** of said "*Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool*"; and,
- (7) Texaco having satisfied all of the appropriate requirements prescribed in **Rule 5** of said "*Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool*", the subject unorthodox bottomhole Upper Pennsylvanian oil well should therefore be approved.

IT IS THEREFORE ORDERED THAT:

(1) The unorthodox subsurface oil well location within the Vacuum-Upper Pennsylvanian Pool, being approximately 400 feet from the South line and 388 feet from the West line (Lot 4/Unit M) of Section 30, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico, for the Texaco Exploration and Production Inc. New Mexico "N" State Well No. 10 (API No. 30-025-33434), located on the surface 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of said Section 30, is hereby approved.

(2) The 75.96 acres comprising Lots 3 and 4 (the W/2 SW/4 equivalent) of said Section 30 is to be dedicated to said well per **Rule 2** of the "*Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool*", as promulgated by Division Order No. R-2697, as amended.

(3) All provisions of Division Administrative Order DD-145, dated May 7, 1996, not in conflict with this order shall remain in full force and effect until further notice.

(4) 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

WJL/MES/kv

cc: Oil Conservation Division - Hobbs  
New Mexico State Land Office - Santa Fe  
File: DD-145



Texaco E & P

205 E. Bender Blvd.  
Hobbs NM 88240  
505 393 7191

10/9/96  
ADCNSBHL

NEW MEXICO OIL CONSERVATION DIVISION  
RECEIVED

September 17, 1996

'96 SEP 19 AM 8 52

New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505

Attn: Mr. William J. LeMay, Division Director

Re: Application for Non-Standard Location  
New Mexico N State #10  
Unit M, Sec. 30, T-17-S, R-35-E,  
Lea County, New Mexico

Dear Sirs :

Texaco Exploration & Production Inc., respectfully requests administrative approval for an exception to Rule 104-C for a non-standard well location in the Vacuum Upper Penn Pool for the above well. This newly completed well is the first well drilled in this pool in this eighty acre oil proration unit..

Attached is NMOCD form C-102 identifying the location of the well on the subject 80 acre proration unit.

Texaco Exploration and Production Inc. has notified offset operators of this application by copy of this application package sent by certified mail. If you need further information concerning this matter, please contact me at (505)-397-0418, Thank you for your consideration of this proposal.

Sincerely,

Monte C. Duncan  
Engineer Assistant

/mcd

Chrono, Well File, Attachments

cc: New Mexico Oil Conservation Division, District I Office  
Offset Operators

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994

DISTRICT II  
P.O. Box Drawer DD, Artesia, NM 88211-0719

**OIL CONSERVATION DIVISION**

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-33434		<sup>2</sup> Pool Code 62310		<sup>3</sup> Pool Name VACUUM UPPER PENN	
<sup>4</sup> Property Code 11047		<sup>5</sup> Property Name NEW MEXICO N STATE			<sup>6</sup> Well No. 10
<sup>7</sup> OGRID Number 022351		<sup>8</sup> Operator Name TEXACO EXPLORATION & PRODUCTION INC.			<sup>9</sup> Elevation 3989'-GR

<sup>10</sup> Surface Location

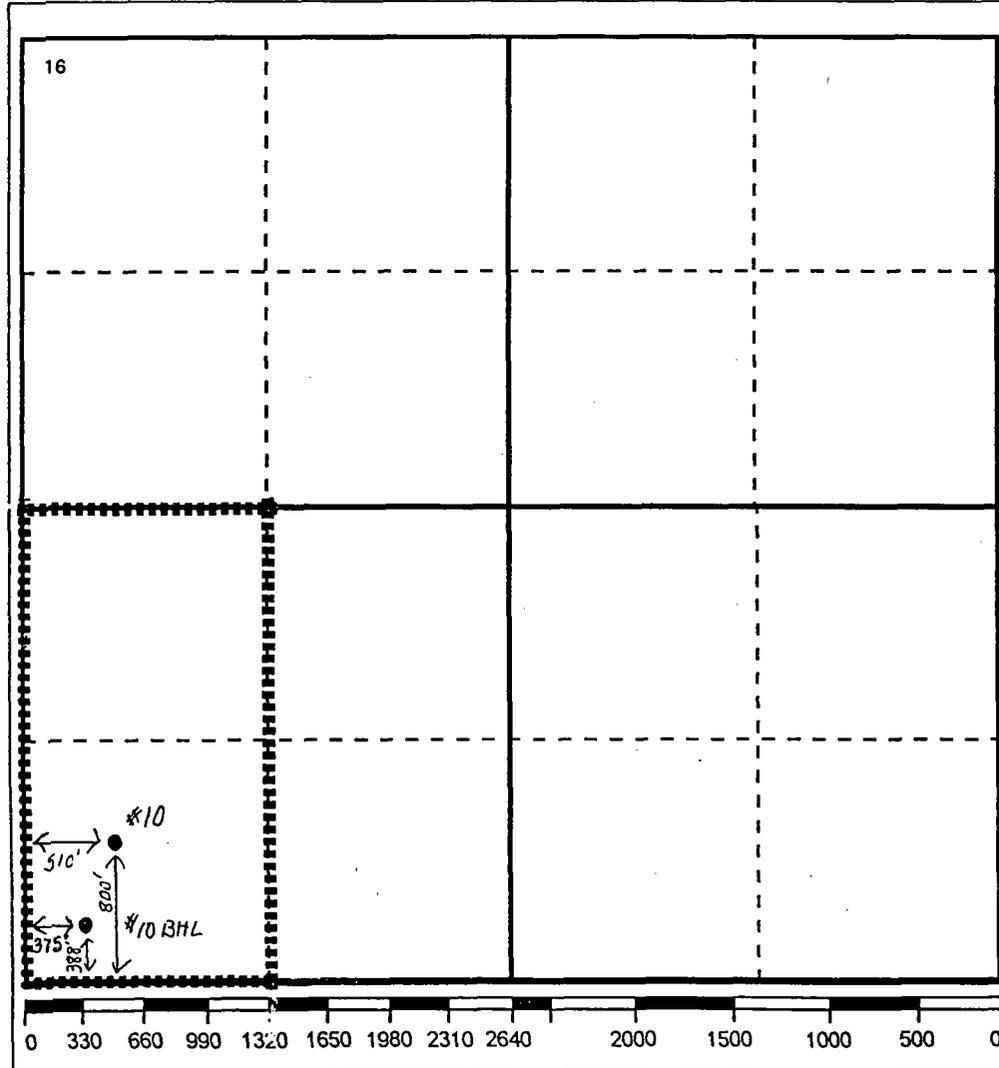
UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		800	SOUTH	510	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		388	SOUTH	375	WEST	LEA

<sup>12</sup> Dedicated Acres 80	<sup>13</sup> Joint or Infill No	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



**17 OPERATOR CERTIFICATION**

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

Signature: *Monte C. Duncan*

Printed Name: Monte C. Duncan

Position: Engr Asst

Date: 8/21/96

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**18 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:

Signature & Seal of Professional Surveyor:

Certificate No.:

**Offset Operators List  
New Mexico N State Well #10  
Lea County, New Mexico**

Apache Corporation  
2000 Post Oak Blvd  
Ste. 100  
Houston, Texas 77056

Arco Permian  
P.O. Box 1610  
Midland, Texas 79702

Marathon Oil Company  
P.O. Box 552  
Midland, Texas 79702

Mobil E & P US Inc.  
P.O. Box 633  
Midland, Texas 79702

Shell Western E & P Inc.  
P.O. Box 576  
Houston, Texas 77001



Texaco E & P

**CERTIFIED MAIL**

September 17, 1996

To: OFFSET OPERATORS

**Subject: Offset Operators Notification  
Request for Exception to Rule 104-C  
Non-Standard Well Location  
Vacuum Upper Penn Pool  
New Mexico N State #10  
Unit M, Sec. 30, T-17-S, R-35-E,  
Lea County, New Mexico**

Texaco Exploration and Production Inc. respectfully requests administrative approval for an exception to Rule 104-C for a non-standard well location in the Vacuum Upper Penn Pool for the above well.

Attached is a copy of the non-standard location application to the New Mexico Oil Conservation Division. Copies of this administrative application are being provided to our offset operators via Certified Mail.

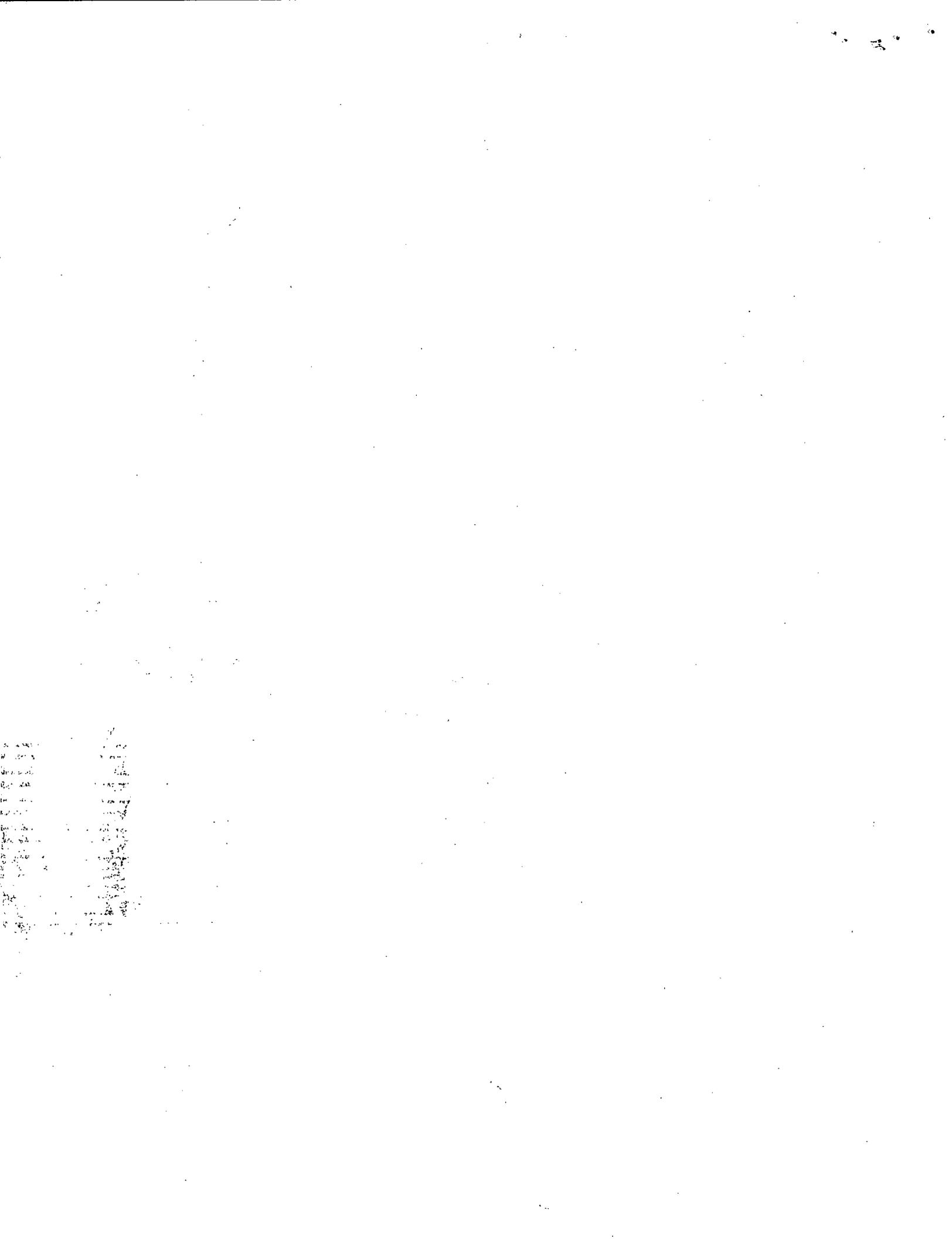
New Mexico Oil Conservation Division regulations require any objections to this proposal be made within twenty days of the receipt of this letter. If you have any questions concerning this proposal, please contact me at (505) 397-0418.

Thank you for your consideration of this proposal.

Sincerely,

Monte C. Duncan  
Engineer Assistant  
Hobbs Operating Unit

/mcd  
Chrono, Well File, Attachments



P 622 712 515

US Postal Service  
**Receipt for Certified Mail**  
No Insurance Coverage Provided.

Marathon Oil Company  
P.O. Box 552  
Midland, Texas 79702

PS Form 3800, April 1995

Postage	\$	✓
Certified Fee		✓
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		✓
Return Receipt Showing to Whom, Date, & Addressee's Address		
<b>TOTAL Postage &amp; Fees</b>	\$	2.75
Postmark or Date		APR 17 1998 USPS

P 622 712 514

US Postal Service  
**Receipt for Certified Mail**  
No Insurance Coverage Provided.

Arco Permian  
P.O. Box 1610  
Midland, Texas 79702

PS Form 3800, April 1995

Postage	\$	✓
Certified Fee		✓
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		✓
Return Receipt Showing to Whom, Date, & Addressee's Address		
<b>TOTAL Postage &amp; Fees</b>	\$	2.75
Postmark or Date		APR 17 1998 USPS

P 622 712 513

US Postal Service  
**Receipt for Certified Mail**  
No Insurance Coverage Provided.

Apache Corporation  
2000 Post Oak Blvd  
Ste. 100  
Houston, Texas 77056

PS Form 3800, April 1995

Postage	\$	✓
Certified Fee		✓
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		✓
Return Receipt Showing to Whom, Date, & Addressee's Address		
<b>TOTAL Postage &amp; Fees</b>	\$	2.75
Postmark or Date		APR 17 1998 USPS

P 622 712 517

US Postal Service  
**Receipt for Certified Mail**  
No Insurance Coverage Provided.

Shell Western E & P Inc.  
P.O. Box 576  
Houston, Texas 77001

PS Form 3800, April 1995

Postage	\$	✓
Certified Fee		✓
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		✓
Return Receipt Showing to Whom, Date, & Addressee's Address		
<b>TOTAL Postage &amp; Fees</b>	\$	2.75
Postmark or Date		APR 17 1998 USPS

P 622 712 516

US Postal Service  
**Receipt for Certified Mail**  
No Insurance Coverage Provided.

Mobil E & P US Inc.  
P.O. Box 633  
Midland, Texas 79702

PS Form 3800, April 1995

Postage	\$	✓
Certified Fee		✓
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		✓
Return Receipt Showing to Whom, Date, & Addressee's Address		
<b>TOTAL Postage &amp; Fees</b>	\$	2.75
Postmark or Date		APR 17 1998 USPS



Sec : 31 Twp : 23S Rng : 37E Section Type : NORMAL

13, 37.97	K 40.00	J 40.00	I 40.00
Federal owned C U A A A A	Federal owned C U A A A	Federal owned C U A A	Federal owned C U A
4 37.99	N 40.00	O 40.00	P 40.00
Federal owned C U A A	Federal owned C U A	Federal owned U A	Federal owned C U A

PF01 HELP      PF02              PF03 EXIT      PF04 GoTo      PF05              PF06  
PF07 BKWD      PF08 FWD          PF09 PRINT      PF10 SDIV      PF11              PF12

75.96



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

May 7, 1996

**Texaco Exploration and Production, Inc.**  
**P. O. Box 3109**  
**Midland, Texas 79702**  
**Attention: C. W. Howard**

*Administrative Order DD-145*

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, Texaco Exploration and Production Inc. ("Texaco") made application to the New Mexico Oil Conservation Division on March 15, 1996 for authorization to directional drill its proposed New Mexico "N" State Well No. 10, Lea County, New Mexico.

**The Division Director Finds That:**

- (1) The proposed wellbore, to be drilled to a pre-determined bottom-hole location in the Atoka formation to test for oil production, is subject to the statewide rules and regulations for oil wells, as promulgated by **Rules 104.C(2)(c)**, 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 any boundary of such tract;
- (2) The 37.59 acres tract comprising Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 is to be dedicated to said well to form a (standard) oil spacing and proration unit for said pool;
- (3) Texaco is requesting to directional drill this well in a conventional manner because surface obstructions prevent drilling at the proposed bottom-hole location;
- (4) It is Texaco's intent to place its New Mexico "N" State Well No. 10 at a standard surface oil well location 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of Section 30, Township 17 South, Range 35 East, NMPM,

Lea County, New Mexico, drill vertically to an approximate depth of 8,000 feet, kick-off in a south-southwesterly direction, and drill directionally to a targeted standard bottomhole oil well location that is approximately 380 feet from the South and West lines of said Section 30;

- (5) The applicable drilling window or "producing area" for said wellbore should include that area within Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 that is no closer than 330 feet to the outer boundary of said dedicated 37.59-acre tract; and,
- (6) It appearing the applicant has satisfied all of the appropriate requirements prescribed in said **Rule 111.D and E**, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of **Division General Rule 111**.

**IT IS THEREFORE ORDERED THAT:**

(1) Texaco Exploration and Production, Inc. ("Texaco") is hereby authorized to drill its New Mexico "N" State Well No. 10 from a standard surface oil well location 800 feet from the South line and 510 feet from the West line (Lot 4/Unit M) of Section 30, Township 17 South, Range 35 East, NMPM, Lea County, New Mexico, drill vertically to an approximate depth of 8,000 feet, kick-off in a south-southwesterly direction, and drill directionally to a targeted standard bottomhole oil well location that is approximately 380 feet from the South and West lines of said Section 30.

(2) The 37.59-acre tract comprising Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 shall be dedicated to said well to form a (standard) oil spacing and proration unit for said pool.

(3) The applicable drilling window or "producing area" for said wellbore shall consist of that area within Lot 4 (the SW/4 SW/4 equivalent) of said Section 30 that is no closer than 330 feet to the outer boundary of said dedicated 37.59-acre tract.

**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.

(4) 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.

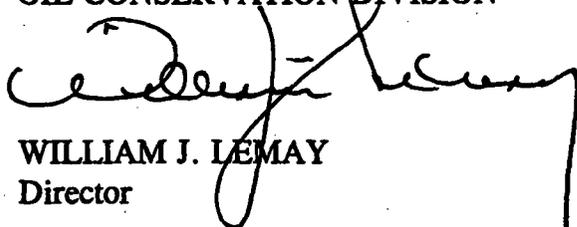
(5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F.

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

(7) 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  
New Mexico State Land Office - Santa Fe

**VACUUM-UPPER PENNSYLVANIAN POOL**  
Lea County, New Mexico

Order No. R-2697, Adopting Temporary Operating Rules for the Vacuum-Upper Pennsylvanian Pool, Lea County, New Mexico, June 1, 1964.

Order No. R-2697-A, May 19, 1965, makes permanent the temporary rules adopted in Order No. R-2697.

Application of Texaco Inc. for Special Pool Rules, Lea County, New Mexico.

CASE NO. 3016  
Order No. R-2697

**ORDER OF THE COMMISSION**

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on April 29, 1964, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 8th day of May, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

**FINDS:**

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

(2) That the applicant, Texaco Inc., seeks the promulgation of special pool rules for the Vacuum-Upper Pennsylvanian Pool in Lea County, New Mexico, establishing 80-acre spacing therein.

(3) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the Vacuum-Upper Pennsylvanian Pool.

(4) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(5) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(6) That this case should be reopened at an examiner hearing in May, 1965, at which time the operators in the subject pool should be prepared to appear and show cause why the Vacuum-Upper Pennsylvanian Pool should not be developed on 40-acre spacing units.

**IT IS THEREFORE ORDERED:**

That temporary Special Rules and Regulations for the Vacuum-Upper Pennsylvanian Pool are hereby promulgated as follows, effective June 1, 1964.

**SPECIAL RULES AND REGULATIONS**  
**FOR THE**  
**VACUUM-UPPER PENNSYLVANIAN POOL**

**RULE 1.** Each well completed or recompleted in the Vacuum-Upper Pennsylvanian Pool or in the Upper Pennsylvanian formation within one mile of the Vacuum-Upper Pennsylvanian Pool, and not nearer to or within the limits of another designated Upper Pennsylvanian pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

**RULE 2.** Each well completed or recompleted in the Vacuum-Upper Pennsylvanian Pool shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a single governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

**RULE 3.** The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a single quarter-quarter section or lot. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

**RULE 4.** The first well drilled on every standard or non-standard unit in the Vacuum-Upper Pennsylvanian Pool shall be located within 200 feet of the center of either the NW/4 or the SE/4 of a governmental quarter section.

**RULE 5.** The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed unorthodox location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

**RULE 6.** A standard proration unit (79 through 81 acres) in the Vacuum-Upper Pennsylvanian Pool shall be assigned an 80-acre proportional factor of 5.67 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable in the Vacuum-Upper Pennsylvanian Pool as the acreage in such non-standard unit bears to 80 acres.

**IT IS FURTHER ORDERED:**

(1) That any well presently drilling to or completed in the

**(VACUUM-UPPER PENNSYLVANIAN POOL - Cont'd.)**

Upper Pennsylvanian formation within the Vacuum-Upper Pennsylvanian Pool or within one mile of the Vacuum-Upper Pennsylvanian Pool that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of said rule. The operator shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before June 15, 1964.

(2) That any operator desiring to dedicate 80 acres to a well presently drilling to or completed in the Vacuum-Upper Pennsylvanian Pool shall file a new Form C-128 with the Commission on or before June 15, 1964.

(3) That this case shall be reopened at an examiner hearing in May, 1965, at which time the operators in the subject pool may appear and show cause why the Vacuum-Upper Pennsylvanian Pool should not be developed on 40-acre spacing units.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

**DAGGER DRAW-MORROW GAS POOL**  
Eddy County, New Mexico

Order No. R-2919, Adopting Temporary Operating Rules for the Dagger Draw-Morrow Gas Pool, Eddy County, New Mexico, June 8, 1965.

Order No. R-2919-A, February 23, 1967, makes permanent the rules adopted in Order No. R-2919.

Application of Monsanto Company for Special Pool Rules, Eddy County, New Mexico.

CASE NO. 3243  
Order No. R-2919

**ORDER OF THE COMMISSION**

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on April 28, 1965, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 8th day of June, 1965, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

**FINDS:**

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

(2) That the applicant, Monsanto Company, seeks the promulgation of special pool rules for the Dagger Draw-Strawn Gas Pool and the Dagger Draw-Morrow Gas Pool in Eddy County, New Mexico, including provisions for 640-acre spacing and fixed well locations.

(3) That the Monsanto Dagger Draw Well No. 1 located 660 feet from the South line and 1980 feet from the East line of Section 6, Township 20 South, Range 25 East, NMPM, Eddy County, New Mexico, is the only well presently completed in the subject pools.

(4) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 640-acre spacing should be promulgated for the Dagger Draw-Morrow Gas Pool.

(5) That the temporary special rules and regulations for the Dagger Draw-Morrow Gas Pool should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(6) That in order to protect correlative rights, a well location in the NW/4 NE/4 of Section 7, Township 20 South, Range 25 East, NMPM, Eddy County, New Mexico, no nearer than 660 feet to the North line of said Section 7 and no nearer than 330 feet to any other boundary of said quarter-quarter section should be authorized.

(7) That the temporary special rules and regulations for the Dagger Draw-Morrow Gas Pool should be established for a temporary period to expire one year from the date that a pipeline connection is first obtained for a well in the pool in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(8) That this case should be reopened at an examiner hearing one year from the date that a pipeline connection is first obtained for a well in the Dagger Draw-Morrow Gas Pool, at which time the operators in the subject pool should appear and show cause why the Dagger Draw-Morrow Gas Pool should not be developed on 320-acre spacing.

(9) That the first operator to obtain a pipeline connection for a well in the Dagger Draw-Morrow Gas Pool should notify the Commission in writing of such fact, and that the Commission should thereupon issue a supplemental order designating an exact date for reopening this case.

(10) That the applicant has not established that the proposed temporary special rules and regulations for the Dagger Draw-Strawn Gas Pool would prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, prevent reduced recovery which might result from the drilling of too few wells, or otherwise prevent waste.

(11) That the applicant's request for special rules and regulations governing the Dagger Draw-Strawn Gas Pool should be denied.

**IT IS THEREFORE ORDERED:**

(1) That the applicant's request for special rules and regulations governing the Dagger Draw-Strawn Gas Pool in Eddy County, New Mexico, is hereby denied.

(2) That temporary special rules and regulations for the Dagger Draw-Morrow Gas Pool are hereby promulgated as follows:

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-104  
Revised February 10, 1994

**DISTRICT II**  
P.O. Box Drawer DD, Artesia, NM 88211-0719

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Submit to Appropriate District Office  
RECEIVED  
5 Copies

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

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

AMENDED REPORT  
06 SEP 27 AM 6 52

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240		<sup>2</sup> OGRID Number 022351	
		<sup>3</sup> Reason for Filing Code NW	
<sup>4</sup> API Number 30-025-33434	<sup>5</sup> Pool Name VACUUM UPPER PENN		<sup>6</sup> Pool Code 62310
<sup>7</sup> Property Code 11047	<sup>8</sup> Property Name NEW MEXICO N STATE		<sup>9</sup> Well No. 10

**II. <sup>10</sup> Surface Location**

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		800	SOUTH	510	WEST	LEA

**<sup>11</sup> Bottom Hole Location**

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		388	SOUTH	375	WEST	LEA

<sup>12</sup> Lse Code S	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 8/21/96	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
-----------------------------	--	--	-----------------------------------	------------------------------------	-------------------------------------

**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
022628	TEXAS NEW MEXICO PIPELINE P.O. BOX 2528 HOBBS, N.M. 88240	2476210	O	O-25-17S-34E LEA, N.M. (N.M. N, O, Q, & BA BATTERY)
022345	TEXACO E & P INC. P.O. BOX 4325, 36TH FLR, GAS ACCT. HOUSTON, TEXAS 77210-4325	2476230	G	O-25-17S-34E LEA, N.M. (N.M. N, O, Q, & BA BATTERY)

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true verticle depths shall be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

### Southeastern New Mexico

T. Anhy	1547'	T. Canyon	10,660'
T. Salt	1653'	T. Strawn	10,946'
B. Salt	2664'	T. Atoka	11,032'
T. Yates	2853'	T. Miss	
T. 7 Rivers	3152'	T. Devonian	
T. Queen	3723'	T. Silurian	
T. Grayburg	4075'	T. Montoya	
T. San Andres	4428'	T. Simpson	
T. Glorieta	5895'	T. McKee	
T. Paddock		T. Ellenburger	
T. Bilinebry	6276'	T. Gr. Wash	
T. Tubb	7326'	T. Delaware Sand	
T. Drinkard	7498'	T. Bone Springs	
T. Abo	7922'	T.	
T. Wolfcamp	9312'	T.	
T. Penn	10,068'	T.	
T. Cisco (Bough C)	10,426'	T.	

### Northwestern New Mexico

T. Ojo Alamo	T. Penn "B"
T. Kirtland-Fruitland	T. Penn "C"
T. Pictured Cliffs	T. Penn "D"
T. Cliff House	T. Leadville
T. Menefee	T. Madison
T. Point Lookout	T. Elbert
T. Mancos	T. McCracken
T. Gallup	T. Ignacio Otzte
T. Base Greenhorn	T. Granite
T. Dakota	T.
T. Morrison	T.
T. Todilto	T.
T. Entrada	T.
T. Wingate	T.
T. Chinle	T.
T. Permian	T.
T. Penn "A"	T.

## OIL OR GAS SANDS OR ZONES

No. 1, from 10,088'	to 10,184'	No. 3, from	to
No. 2, from	to	No. 4, from	to

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in the hole.

No. 1, from	to	feet
No. 2, from	to	feet
No. 3, from	to	feet

## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

Submit 3 copies to Appropriate District Office

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240  
DISTRICT II  
P.O. Box Drawer DD, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

CONSERVATION DIVISION  
State of New Mexico  
Energy, Minerals and Natural Resources Department  
OIL CONSERVATION DIVISION

Form C-103  
Revised 1-1-89

WELL API NO. 30-025-33434  
5. Indicate Type of Lease STATE  FEE   
6. State Oil / Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO DIFFERENT RESERVOIR. USE 'APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.

1. Type of Well: OIL WELL  GAS WELL  OTHER

2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator P.O. Box 2100, Denver Colorado 80201

4. Well Location  
Unit Letter M : 800 Feet From The SOUTH Line and 510 Feet From The WEST Line  
Section 30 Township 17-S Range 35-E NMPM LEA COUNTY

7. Lease Name or Unit Agreement Name NEW MEXICO 'N' STATE  
8. Well No. 10  
9. Pool Name or Wildcat ATOKA

10. Elevation (Show whether DF, RKB, RT,GR, etc.) 3989'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK  PLUG AND ABANDON  TEMPORARILY ABANDON  CHANGE PLANS  PULL OR ALTER CASING  OTHER:   
SUBSEQUENT REPORT OF: REMEDIAL WORK  ALTERING CASING  COMMENCE DRILLING OPERATION  PLUG AND ABANDONMENT  CASING TEST AND CEMENT JOB  OTHER: COMPLETION

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 1. SCHLUMBERGER RAN GR-CCL 11,370' - 6000'. RIH W/ 2 7/8" SN, PKR, TOOK, 2 7/8" TBG. SET PKR W/ 10K COMPRESSION. SN @ 11,030'. 07-13-96.
- 2. PERF'D W/ 2 JSPF: 11,132'-11,144', 11,150'-11,156', 11,160'-11,166', 11,240'-11,252'. 152 HOLES. 07-15-96.
- 3. DOWELL ACIDIZED W/ 3,000 GAL 15% NEFE. SWAB TEST. SWAB DOWN TO SN. RECOVERED 75 BLW. 07-17-96.
- 4. RU SCHLUMBERGER. SET CIBP @ 11,100'. TEST TO 3,000 PSI. DUMP BAIL 35' CMT ON PLUG. 07-23-96.
- 5. SCHLUMBERGER PERF'D 10088'-96', 10,104'-26', 10,130'-36', 10,178'-84'. 84 HOLES. TIH W/ PKR. 07-24-96.
- 6. DOWELL ACIDIZED DOWN 2-7/8" TBG W/8,500 GAL 15% NEFE. 07-25-96.
- 7. SET ROTAFLEX PUMPING UNIT. 08-06-96.
- 8. PU 2 1/2" X 1 1/2" X 40' PUMP, K-BARS, RODS. 08-11-96.
- 9. HOOK UP ELECTRIC. 'HANG ON' RODS TO UNIT. 08-13-96.
- 10. PUMPED 233 BO,30 BW, 285 MCF IN 24 HOURS. DRLG TO PM. 08-15-96.

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

SIGNATURE C.P. Baaham SETH TITLE Eng. Assistant. DATE 8/20/96

TYPE OR PRINT NAME Sheilla D. Reed-High Telephone No. (303)621-4851

(This space for State Use)  
APPROVED [Signature] TITLE DISTRICT 1 SUPERVISOR DATE SEP 24 1996  
CONDITIONS OF APPROVAL, IF ANY:

New Mexico N State #10

Sec. 30, T-17-S, R-35-E Unit Ltr. M  
(Give Unit, Section, Township and Range)

Operator  
Texaco E & P Inc.

800/S + 510/W

1996 SEP 27 AM 8 52  
DRILLING CONTRACTOR

NABORS DRILLING USA, INC.

30-025-33434

The Undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH
4.0 @ 10282	0.8 @ 11271		
2.6 @ 10345	0.9 @ 11334		
1.7 @ 10407	1.6 @ 11396		
1.5 @ 10524	1.8 @ 11458		
1.7 @ 10587	1.9 @ 11494		
2.4 @ 10649			
1.1 @ 10649			
1.7 @ 10744			
1.3 @ 10805			
0.6 @ 10867			
0.9 @ 10962			
0.8 @ 11022			
0.8 @ 11085			
0.7 @ 11148			
0.6 @ 11210			

Drilling Contractor

Nabors Drilling USA, Inc.

By

Jimmy Stroud  
Jimmy Stroud

Subscribed and sworn to before me this 16th

day of July, 1996

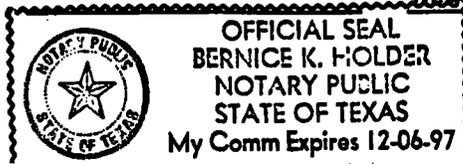
Bernice K. Holder  
Notary Public

My Commision Expires

MIDLAND

County

TEXAS



DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

**OIL CONSERVATION DIVISION**

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-33434	<sup>2</sup> Pool Code 62310	<sup>3</sup> Pool Name VACUUM UPPER PENN
<sup>4</sup> Property Code 11047	<sup>5</sup> Property Name NEW MEXICO N STATE	
<sup>7</sup> OGRID Number 022351	<sup>8</sup> Operator Name TEXACO EXPLORATION & PRODUCTION INC.	<sup>6</sup> Well No. 10
		<sup>9</sup> Elevation 3989'-GR

<sup>10</sup> Surface Location

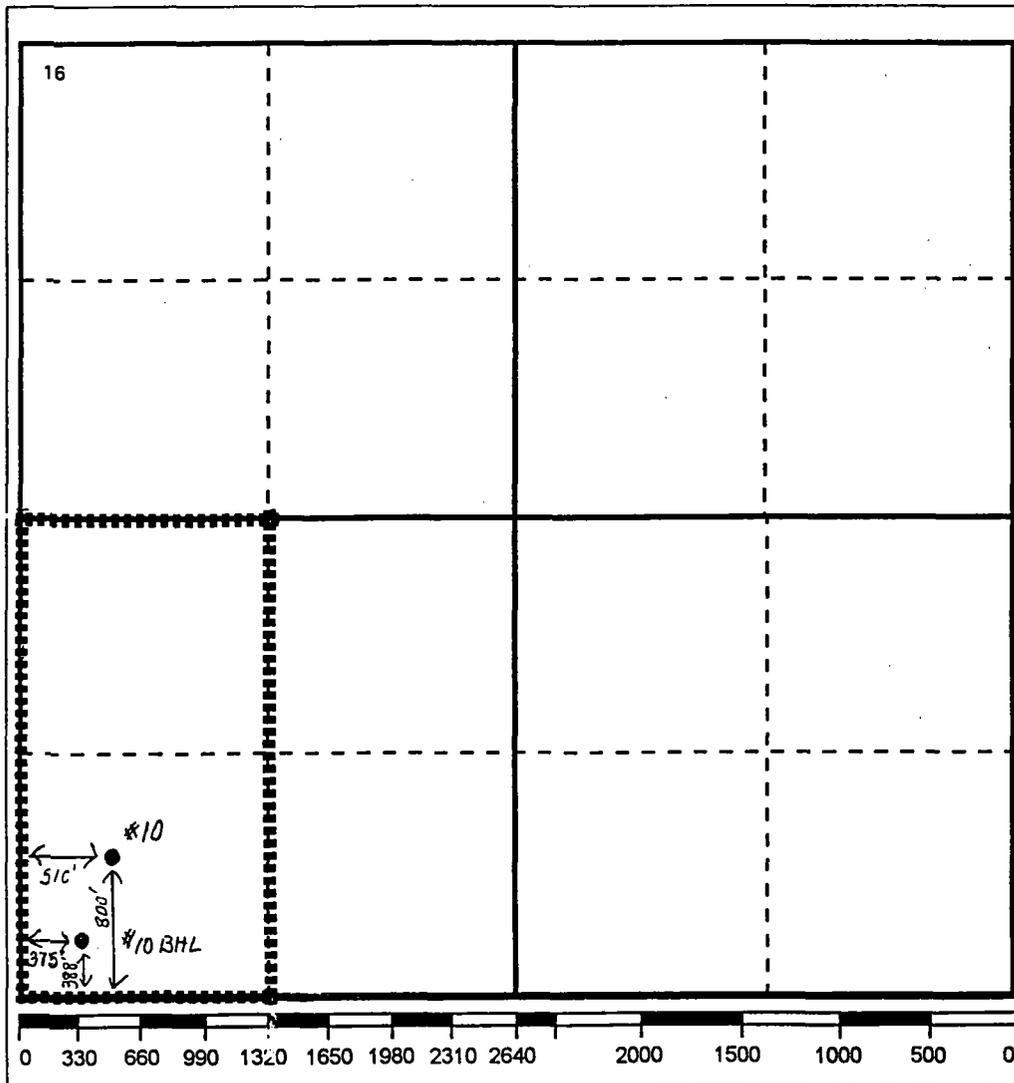
UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		800	SOUTH	510	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		388	SOUTH	375	WEST	LEA

<sup>12</sup> Dedicated Acres 80	<sup>13</sup> Joint or Infill No	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



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

Signature: *Monte C. Duncan*  
Printed Name: Monte C. Duncan  
Position: Engr Asst  
Date: 8/21/96

**18 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:  
Signature & Seal of Professional Surveyor:  
Certificate No.:

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.	30-025-33434
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil / Gas Lea	B-1722
7. Lease Name or Unit Agreement Name	NEW MEXICO N STATE
8. Well No.	10
9. Pool Name or Wildcat	VACUUM UPPER PENN

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	7. Lease Name or Unit Agreement Name NEW MEXICO N STATE
b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RES. <input type="checkbox"/> OTHER _____	

2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.	8. Well No. 10
---	-------------------

3. Address of Operator 205 E. Bender, HOBBS, NM 88240	9. Pool Name or Wildcat VACUUM UPPER PENN
--	--

4. Well Location  
 Surf/BHL Unit Letter M : 800/388 Feet From The SOUTH Line and 510/375 Feet From The WEST Line  
 Section 30 Township 17S Range 35E NMPM LEA COUNTY

10. Date Spudded 5/29/96	11. Date T.D. Reached 7/5/96	12. Date Compl. (Ready to Prod.) 8/13/96	13. Elevations (DF & RKB, RT, GR, etc.) 3989'-GR	14. Elev. Csghead 3989'
-----------------------------	---------------------------------	---	---	----------------------------

15. Total Depth 11,536	16. Plug Back T.D. 11,065'	17. If Mult. Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools O-11,536'	Cable Tools -
---------------------------	-------------------------------	-------------------------------------	--------------------------	---------------------------	------------------

19. Producing Interval(s), of this completion - Top, Bottom, Name 10,088'-10,184 (VACUUM UPPER PENN)	20. Was Directional Survey Made YES
---	--

21. Type Electric and Other Logs Run GR-ALL-CFL;GR-CNL;DLL-MSFL-CNL-LDT; GR-BCS; GR-CCL	22. Was Well Cored NO
--	--------------------------

23. CASING RECORD (Report all Strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
11 3/4"	42#	1500'	14 3/4"	CL-C 800 SX, CIR 110	
8 5/8"	32#	5300'	11"	CL-H 1800 SX, CIR 262	
5 1/2"	17#	11,536'	7 7/8"	CL-H 2050SX, CIR 350	

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	10202'	-

26. Perforation record (interval, size, and number) 10,088'-96'; 10,104'-26'; 10,130'-36'; 10,178'-84' (2 JSPF, .40", 42 NET FT, 84 HOLES)	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	10,088'-10,184'	ACID - 8500 GALS 15% NEFE HCL

28. PRODUCTION							
Date First Production 8/13/96	Production Method (Flowing, gas lift, pumping - size and type pump) PUMPING, 2 1/2" X 1 1/2" X 40'					Well Status (Prod. or Shut-in) PROD.	
Date of Test 8/15/96	Hours tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 233	Gas - MCF 285	Water - Bbl. 30	Gas - Oil Ratio 1223
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.) 38.9	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD	Test Witnessed By LOCKLAR
--	------------------------------

30. List Attachment DEVIATION SURVEY, DIRECTIONAL REPORT

31. I hereby certify that the information on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 8/21/96

TYPE OR PRINT NAME Monte C. Duncan Telephone No. 397-0418

DISTRICT I  
 P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-104  
 Revised February 10, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 5 Copies

DISTRICT II  
 P.O. Box Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION  
 P.O. Box 2088  
 Santa Fe, New Mexico 87504-2088

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

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

OIL CONSERVATION DIVISION  
 RECEIVED  
 96 AUG 19 11 08 52

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. 205 E. Bender, HOBBS, NM 88240		<sup>2</sup> OGRID Number 022351
		<sup>3</sup> Reason for Filing Code RT AUG-96, 11315 BO
<sup>4</sup> API Number 30-025-33434	<sup>5</sup> Pool Name WILDCAT (ATOKA)	<sup>6</sup> Pool Code
<sup>7</sup> Property Code 11047	<sup>8</sup> Property Name NEW MEXICO 'N' STATE	<sup>9</sup> Well No. 10

II. <sup>10</sup> Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		800	SOUTH	510	WEST	LEA

<sup>11</sup> Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17S	35E		<del>380</del> 388	SOUTH	<del>380</del> 375	WEST	LEA

<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
S	P				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
022507	TTT & I P.O. BOX 60628 MIDLAND, TX 79711	2476210	O	O-25-17S-34E LEA CO., N.M.
022345	TEXACO E & P INC., GAS PLT ACCT. 36TH FLOOR, BOX 4325 HOUSTON, TX 77210-4325	2476230	G	O-25-17S-34E LEA CO., N.M.

Submit 3 copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-3000-34
5. Indicate Type of Lease STATE [X] FEE [ ]
6. State Oil / Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.

1. Type of Well: OIL WELL [X] GAS WELL [ ] OTHER [ ]

2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator P.O. Box 2100, Denver Colorado 80201

4. Well Location Unit Letter M : 800 Feet From The SOUTH Line and 510 Feet From The WEST Line Section 30 Township 17-S Range 35-E NMPM LEA COUNTY

7. Lease Name or Unit Agreement Name NEW MEXICO 'N' STATE

8. Well No. 10

9. Pool Name or Wildcat ATO...

10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3989'

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [ ]
TEMPORARILY ABANDON [ ] CHANGE PLANS [ ]
PULL OR ALTER CASING [ ]
OTHER: [ ]

SUBSEQUENT REPORT OF

REMEDIAL WORK [ ] ALTERING CASING [ ]
COMMENCE DRILLING OPERATION [ ] PLUG AND ABANDONMENT [ ]
CASING TEST AND CEMENT JOB [ ]
OTHER: SPUD, SURF CSG, INT CSG, PROD CSG. [X]

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 1. NABORS RIG #723 SPUD 14.750 INCH HOLE @ 4:30 AM 05-29-96. DRILLED TO 1500'. TD @ 3:37 AM CDT 05-29-96.
2. RAN 36 JOINTS OF 11-3/4 INCH, 42#, WC-40, STC CASING SET @ 1500'. RAN 10 CENTRALIZERS.
3. DOWELL CEMENTED WITH 600 SACKS CLASS C W/ 4% GEL, 2% CACL2 (13.5 PPG, 1.74 CF/S). F/B 200 SACKS CLASS C W/ 2% CACL2 (14.8 PPG, 1.32 CF/S). PLUG DOWN @ 8:22 PM MDT 05-30-96. CIRCULATED 110 SACKS.
4. NU BOP & TESTED TO 1000#. TESTED CASING TO 1000# FOR 30 MINUTES FROM 1:00 PM TO 1:30 PM 06-01-96.
5. WOC TIME 16 HOURS AND 38 MINUTES FROM 8:22 PM MDT 05-30-96 TO 1:00 PM 06-01-96. REQUIREMENTS OF RULE 107, OPTION 2:
1. VOL OF CEMENT SLURRY: LEAD 1044 (CU. FT.), 264 TAIL (CU. FT.) 2. APPROX. TEMP OF SLURRY WHEN MIXED: 50 F
3. EST. FORMATION TEMP IN ZONE OF INTEREST: 90 F. 4. EST. CEMENT STRENGTH @ TIME OF CASING TEST: 2000 PSI.
5. ACTUAL TIME CEMENT IN PLACE PRIOR TO TESTING: 16 HOURS AND 38 MINUTES. DRILLING 11 INCH HOLE.
6. DRILLED 11 INCH HOLE TO 5300'. TD @ 8:15 AM 06-12-96.
7. RU SCHLUMBERGER. RUN PLATFORM EXPRESS 5300-2700'. GR-CNL TO SURF.
8. RAN 131 JOINTS (5307') OF 8 5/8 INCH, 32# FS-80, LTC CASING SET @ 5300'. RAN 10 CENTRALIZERS.
9. DOWELL CEMENTED W/ 1600 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.4 PPG, 2.14 CF/S) F/B 200 SACKS CLASS H NEAT (15.6 PPG, 1.18 CF/S). PLUG DOWN @ 5:30 PM 06-13-96. CIRCULATED 262 SACKS.
10. NU BOP & TESTED TO 1000#. TESTED CASING TO 1500# FOR 30 MINUTES FROM 1:00 PM TO 1:30 PM 06-15-96.
11. WOC TIME 43-1/2 HOURS FROM 5:30 PM 06-13-96 TO 1:00 PM 06-15-96. DRILLING 7 7/8 INCH HOLE.
12. DRILLED 7 7/8 INCH HOLE TO 11,536'. TD @ 8:45 AM 07-05-96.
13. RU SCHLUMBERGER. RAN 1ST RUN: DLL-MSFL-CNL-LDT. 2ND RUN: GR-BCS.
14. RAN 26 JTS (1203') OF 5 1/2 INCH, 17#, S-95 & 236 JTS (10333') OF 5-1/2" L-80, LTC CASING SET @ 11,536'. DV TOOL @ 7994'
15. DOWELL CEMENTED: 800 SACKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 4% D800, 2% D79, 1/4# FLOCELE (14.2 PPG, 1.94 CF/S). PLUG DOWN @ 2:30 AM 07-08-96. DOWELL CEMENTED 2ND STAGE: 950 SACKS 35/65 POZ CLASS H W/ 6% GEL, 5% SALT, 1/4# FLOCELE. (12.4 PPG, 2.14 CF/S). F/B 300 SKS 50/50 POZ CLASS H W/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2 PPG, 1.35 CF/S). PLUG DOWN @ 10:00 A.M. 07-08-96. BUMPED PLUG AND CLOSED DV TOOL. CIRCULATED 350 SACKS.
16. ND. RELEASE RIG @ 4:00 PM 07-08-96. PREP TO COMPLETE.

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

SIGNATURE C.P. Barham / S.R.H. TITLE Eng. Assistant. DATE 7/23/99

TYPE OR PRINT NAME Sheila D. Reed-High Telephone No. (311) 621-4851

(This space for State Use) APPROVED [Signature] CONDITIONS OF APPROVAL: NONE

TITLE DISTRICT 1 SUPERVISOR DATE AUG 12 1999



CEMENTING REPORT

Report Date: \_\_\_\_\_

Operator: Texasco Requester By: \_\_\_\_\_  
 Case No: NM N State #10 Service Point: HUM  
 Location: Lee NM Type of Job: Surface

SI Conditions: \_\_\_\_\_

Temp: 150.0 °F. Temp Grad: \_\_\_\_\_ SHST: 90 °F. SHOT: 85

System	Density (pcf)	Yield (cu ft/sk)	Mix Water (gal/sk)	Total Liquid (gal/sk)	Water Source	Cement Source
System No. 1	<u>13.5</u>	<u>1.74</u>	<u>9.11</u>	<u>9.11</u>	<u>Loc</u>	<u>C</u>
System No. 2	<u>14.8</u>	<u>1.72</u>	<u>6.32</u>	<u>6.32</u>	<u>Loc</u>	<u>C</u>
System No. 3	_____	_____	_____	_____	_____	_____
System No. 4	_____	_____	_____	_____	_____	_____

System Compositions:

System No. 1: C + 42 D20 + 27.51

System No. 2: C + 27.51

System No. 3: \_\_\_\_\_

System No. 4: \_\_\_\_\_

System	Setting Time Results										Rheology Results		
	MO. MIN	80	200	200	100	50	25	5	3	PV or n'	TY or K'	REM. CRY VESSEL	LOG
No. 1	<u>3:40</u>	<u>70</u>	<u>76</u>	<u>31</u>	<u>27</u>	<u>22</u>	<u>17</u>	<u>14</u>	<u>12</u>				
No. 2	<u>2:10</u>	<u>70</u>	<u>40</u>	<u>36</u>	<u>31</u>	<u>26</u>	<u>20</u>	<u>17</u>	<u>14</u>				
No. 3													
No. 4													

System	TEMP.	Compressive Strengths - psi		
		6 HRS.	12 HRS.	27 HRS.
No. 1	<u>90 °F</u>	<u>250</u>	<u>500</u>	<u>800</u>
No. 1	<u>°F</u>			
No. 2	<u>90 °F</u>	<u>600</u>	<u>1400</u>	<u>2000</u>
No. 2	<u>°F</u>			
No. 3	<u>°F</u>			
No. 3	<u>°F</u>			
No. 4	<u>°F</u>			
No. 4	<u>°F</u>			

System	FLUID LOSS		FRESH WATER
	°F.	°F.	°F.
	mL/20 min		mL
No. 1			
No. 2			
No. 3			
No. 4			

REMARKS: Pressure Data

June 8, 1996

DATE OF TEST : 08-jun-1996

TEST NUMBER : NPD640300001

CUSTOMER : TEXACO  
 FIELD : LEA NM  
 WELL : NM N STATE 10

CEMENT  
 Class : H  
 Blend : 3565  
 Brand : LONESTAR  
 Plant : MARYNEAL

**BASE FLUID**

Density : 8.32 lb/gal  
 Volume : 11.95 gal/sk  
 Type : LO  
 Total liquid : 11.95 gal/sk

**SLURRY**

Density : 12.40 lb/gal  
 Yield : 2.14 ft<sup>3</sup>/sk

B.H.S.T. : 113.0 F

B.H.C.T. : 106.0 F

ADDITIVES		
Code	Concent.	Unit
D020	6.000	% BWOC
D029	0.280	% BWOC
D044	5.000	% BWOW

Rheometer type : Fann 35  
 Spring factor : 1.0  
 Bob No : 1  
 Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

$T_y : 25.764 \text{ lbf}/100 \text{ ft}^2$

$P_v : 10.544 \text{ cP}$

Correlation coefficient : 0.997

Thickening Time : 7 hr47 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

Rheological data		
Temp. (F) :	75.0	0.0
R.P.M.	Dial 1	Dial 2
300.0	36.0	0.0
200.0	33.0	0.0
100.0	29.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	15.0	0.0
3.0	13.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
10 minutes Gel : 0.0		

Compressive strength		
PSI	Hours	Temp. (F)
154	6.0	113.0
255	12.0	113.0
355	24.0	113.0

Comment :

**FIELD BLEND**

35/65 POZ/H + 6% D20 + 5% D44 (BWOW) + 0.25PPS D29

LOCATION WATER USED

INTERMEDIATE LEAD 5300' POD = 3:45

**CemDABE Cement Test Report**

June 8, 1996  
DATE OF TEST : 08-jun-1996

TEST NUMBER : NPD640300002

CUSTOMER : TEXACO  
FIELD : LEA NM  
WELL : NM N STATE 10

**CEMENT**  
Class : H  
Blend :  
Brand : LONESTAR  
Plant : MARYNEAL

**BASE FLUID**  
Density : 8.32 lb/gal  
Volume : 5.20 gal/sk  
Type : LO  
Total liquid : 5.20 gal/sk

**SLURRY**  
Density : 15.60 lb/gal  
Yield : 1.18 ft<sup>3</sup>/sk

B.H.S.T. : 113.0 F  
B.H.C.T. : 106.0 F

No additives

Rheometer type : Fann 35  
Spring factor : 1.0  
Bob No : 1  
Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic  
 $T_y : 27.102 \text{ lbf}/100 \text{ ft}^2$   
 $P_v : 16.570 \text{ cP}$   
Correlation coefficient : 0.988

Rheological data		
Temp. (F) :	75.0	0.0
R.P.M.	Dial 1	Dial 2
300.0	44.0	0.0
200.0	37.0	0.0
100.0	33.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	19.0	0.0
3.0	16.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
10 minutes Gel : 0.0		

Thickening Time : 5 hr59 mn to 70 BC  
API Schedule :  
Set condition :  
Consistometer serial number :

Compressive strength		
PSI	Hours	Temp. (F)
556	6.0	113.0
1766	12.0	113.0
2586	24.0	113.0

No Fluid Loss data available  
No Free Water data available

Comment :  
FIELD BLEND  
CLASS H NEAT  
LOCATION WATER USED  
INTERMEDIATE TAIL 5300'

Schlumberger

Dowell

## CemDABE Cement Test Report

July 3, 1996

DATE OF TEST : 03-jul-1996

CUSTOMER : TEXACO

FIELD : LEA NM

WELL : NM N STATE 10

## BASE FLUID

Density : 8.32 lb/gal

Volume : 6.17 gal/sk

Type : LO

Total liquid : 6.17 gal/sk

ADDITIVES		
Code	Concent	Unit
D020	2.000	% BWOC
D029	0.270	% BWOC
D044	5.000	% BWOW
D079	0.200	% BWOC
D800	0.400	% BWOC

Rheological model (Dial 1) : Bingham Plastic

 $T_y : 15.391 \text{ lbf}/100\text{ft}^2$  $P_0 : 19.582 \text{ cP}$ 

Correlation coefficient : 0.999

Thickening Time : 4 hr 2 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

TEST NUMBER : NPD646800001

## CEMENT

Class : H

Blend : 5050

Brand : LONESTAR

Plant : MARYNEAL

## SLURRY

Density : 14.20 lb/gal

Yield : 1.34  $\text{ft}^3/\text{sk}$ 

B.H.S.T. : 175.0 F

B.H.C.T. : 142.0 F

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological data		
Temp. (F) :	75.0	0.0
R.P.M.	Dial 1	Dial 2
300.0	35.0	0.0
200.0	28.0	0.0
100.0	22.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	14.0	0.0
3.0	12.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
10 minutes Gel : 0.0		

Compressive strength		
PSI	Hours	Temp. (F)
104	6.0	175.0
730	12.0	175.0
1356	24.0	175.0

Comment :

## FIELD BLEND

50/50 POZ/H + 2% D20 + 5% D44 (BWOW) + 0.2% D79 + 0.4% D800 + 0.25PPS D29

## LOCATION WATER USED

LONG STRING 1ST STAGE 11550' POD = 1:46

HOBBBS

Hubbinger  
Dowell

**CemDABE Cement Test Report**

July 6, 1996

DATE OF TEST : 06-jul-1996

TEST NUMBER : NPD646800002

CUSTOMER : TEXACO  
FIELD : LEA NM  
WELL : NM N STATE 10

CEMENT  
Class : H  
Blend : 3565  
Brand : LONESTAR  
Plant : MARYNEAL

**BASE FLUID**

Density : 8.32 lb/gal  
Volume : 11.80 gal/sk  
Type : LO  
Total liquid : 11.80 gal/sk

**SLURRY**

Density : 12.40 lb/gal  
Yield : 2.14 ft<sup>3</sup>/sk

B.H.S.T. : 144.0 F

B.H.C.T. : 121.0 F

ADDITIVES		
Code	Concent.	Unit
D020	6.000	% BWOC
D029	0.250	% BWOC
D044	5.000	% BWOW

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological model (Dial 1) : Bingham Plastic

$T_y$  : 4.456 lb<sub>f</sub>/100ft<sup>2</sup>

$P_o$  : 11.057 cP

Correlation coefficient : 0.992

Thickening Time : 7 hr30 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

Rheological data		
Temp. (F) :	75.0	0.0
R.P.M.	Dial 1	Dial 2
300.0	16.0	0.0
200.0	11.0	0.0
100.0	8.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	5.0	0.0
3.0	4.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
10 minutes Gel : 0.0		

Compressive strength		
PSI	Hours	Temp. (F)
100	6.0	144.0
325	12.0	144.0
485	24.0	144.0

Comment :

**FIELD BLEND**

35/65POZ/H + 6%D20 + 5%D44(BWOW) + 0.25PPSD29

**LOCATION WATER USED**

LONG STRING 2ND STAGE LEAD 8000' POD = 5:20

Schlumberger

Dowell

## CemDABE Cement Test Report

July 7, 1996

DATE OF TEST : 07-jul-1996

TEST NUMBER : NPD646800003

CUSTOMER : TEXACO  
 FIELD : LEA NM  
 WELL : NM STATE 10

CEMENT  
 Class : H  
 Blend : 5050  
 Brand : LONESTAR  
 Plant : MARYNEAL

## BASE FLUID

Density : 8.32 lb/gal  
 Volume : 6.18 gal/sk  
 Type : LO  
 Total liquid : 6.18 gal/sk

## SLURRY

Density : 14.20 lb/gal  
 Yield : 1.34 ft<sup>3</sup>/sk

ADDITIVES		
Code	Concent.	Unit
D020	2.000	% BWOC
D029	0.250	% BWOC
D044	5.000	% BWOW

B.H.S.T. : 144.0 F

B.H.C.T. : 121.0 F

Rheological model (Dial 1) : Bingham Plastic

 $T_y : 20.075 \text{ lbf}/100\text{ft}^2$  $P_v : 21.089 \text{ cP}$ 

Correlation coefficient : 0.971

Thickening Time : 3 hr 2 mn to 70 BC

API Schedule :

Set condition :

Consistometer serial number :

No Fluid Loss data available

No Free Water data available

Rheometer type : Fann 35

Spring factor : 1.0

Bob No : 1

Rotor No : 1

Rheological data		
Temp. (F) :	75.0	0.0
R.P.M.	Dial 1	Dial 2
300.0	42.0	0.0
200.0	32.0	0.0
100.0	28.0	0.0
60.0	0.0	0.0
30.0	0.0	0.0
6.0	17.0	0.0
3.0	14.0	0.0
0.0	0.0	0.0
0.0	0.0	0.0
10 minutes Gel : 0.0		

Compressive strength		
PSI	Hours	Temp. (F)
125	6.0	144.0
695	12.0	144.0
1150	24.0	144.0

Comment :

## FIELD BLEND

50/50POZH + 2%D20 + 5%D44(BWOW) + 0.25PPSD29

## LOCATION WATER USED

LONG STRING 2ND STAGE TAIL 8000' POD = 2:01

**PERC DIRECTIONAL REPORT**

WELLNAME: NEW MEXICO "N" STATE #10 SUR 300/S & 510/W  
 FIELD: VACUUM ATOKA BHL 388/S & 375/W  
 AFE NO.: 665506 30-179-350 WELL ID NO.: 665506  
 API NO.: 30 025 33434

SURVEY TYPE : MWD MD : 100 ANGLE : 0.55 AZIMUTH : 135.45 TVD : 100.00  
 N/S : 0.34 EW : 0.34 VS : TARGET : 197.20

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
100	0.55	135.45	100	-0.34	0.34		
200	0.52	148.76	200	-1.07	0.91	0.75	0.13
300	0.53	138.67	300	-1.81	1.45	1.29	0.09
400	0.89	148.61	400	-2.82	2.16	2.05	0.38
500	1.02	159.44	500	-4.31	2.88	3.27	0.22
600	1.02	158.94	600	-5.98	3.51	4.67	0.01
700	1.23	165.20	700	-7.84	4.11	6.28	0.24
800	1.40	180.65	800	-10.10	4.37	8.36	0.39
900	1.48	192.63	900	-12.59	4.07	10.82	0.31
1,000	1.51	191.67	1,000	-15.14	3.52	13.42	0.04
1,100	1.47	191.13	1,100	-17.68	3.01	16.00	0.04
1,200	1.46	193.07	1,200	-20.18	2.47	18.55	0.05
1,300	1.45	194.01	1,300	-22.65	1.88	21.08	0.03
1,400	1.46	193.61	1,400	-25.12	1.27	23.62	0.01
1,500	1.38	191.98	1,500	-27.53	0.72	26.09	0.09
1,600	1.33	192.87	1,600	-29.84	0.21	28.45	0.05
1,700	1.27	187.41	1,700	-32.07	-0.19	30.70	0.14
1,800	1.34	189.98	1,800	-34.32	-0.53	32.95	0.09
1,900	1.40	186.63	1,900	-36.69	-0.88	35.31	0.10
2,000	1.45	190.11	2,000	-39.15	-1.24	37.76	0.10
2,100	1.42	191.36	2,100	-41.61	-1.71	40.25	0.04
2,200	1.36	192.28	2,199	-43.98	-2.20	42.67	0.06
2,300	1.48	187.52	2,299	-46.42	-2.62	45.12	0.17
2,400	1.47	187.80	2,399	-48.97	-2.97	47.66	0.01
2,500	1.45	184.93	2,499	-51.51	-3.25	50.16	0.08
2,600	1.12	173.81	2,599	-53.74	-3.25	52.30	0.41
2,700	0.98	166.97	2,699	-55.54	-2.96	53.93	0.19
2,800	0.88	155.64	2,799	-57.08	-2.45	55.25	0.21
2,900	0.90	149.18	2,899	-58.45	-1.73	56.35	0.10
3,000	0.91	145.18	2,999	-59.78	-0.87	57.36	0.06
3,100	0.95	152.05	3,099	-61.16	-0.03	58.43	0.12
3,200	0.88	155.63	3,199	-62.59	0.68	59.59	0.09
3,300	0.79	154.70	3,299	-63.91	1.29	60.68	0.09
3,400	0.71	158.59	3,399	-65.11	1.81	61.67	0.09
3,500	0.71	165.83	3,499	-66.29	2.19	62.68	0.09
3,600	0.80	160.22	3,599	-67.55	2.57	63.77	0.12
3,700	0.88	174.15	3,699	-68.97	2.89	65.03	0.22
3,800	0.91	176.89	3,799	-70.53	3.01	66.48	0.05
3,900	0.90	194.09	3,899	-72.08	2.86	68.01	0.27
4,000	0.94	189.00	3,999	-73.65	2.54	69.61	0.09
4,100	1.14	189.74	4,099	-75.44	2.25	71.41	0.20
4,200	1.08	187.50	4,199	-77.36	1.95	73.32	0.07
4,300	1.04	186.06	4,299	-79.20	1.74	75.14	0.05
4,400	1.10	180.08	4,399	-81.06	1.64	76.95	0.13
4,500	1.12	181.19	4,499	-83.00	1.62	78.81	0.03
4,600	0.99	186.75	4,599	-84.83	1.49	80.59	0.17
4,700	0.89	188.54	4,699	-86.46	1.28	82.21	0.10
4,800	0.42	181.99	4,799	-87.59	1.15	83.33	0.48
4,900	0.32	238.10	4,899	-88.10	0.90	83.90	0.36
5,000	0.31	215.87	4,999	-88.47	0.50	84.37	0.12
5,100	0.29	173.94	5,099	-88.94	0.37	84.85	0.22
5,200	0.53	185.71	5,199	-89.65	0.35	85.54	0.25
5,300	0.53	171.61	5,299	-90.57	0.37	86.41	0.13
5,400	0.40	171.90	5,399	-91.38	0.49	87.14	0.13
5,500	0.41	165.54	5,499	-92.07	0.63	87.76	0.05

**PERC** **DIRECTIONAL REPORT**

WELLNAME: NEW MEXICO "N" STATE #10  
 FIELD: VACUUM ATOKA  
 AFE NO.: 665506  
 WELL ID NO.: 665506  
 API NO.: 30 025 33434

SURVEY TYPE : MWD MD : 100 ANGLE : 0.55 AZIMUTH : 135.45 TVD : 100.00  
 NS : -0.34 EW : 0.34 VS : TARGET : 197.20

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
5,600	0.19	134.52	5,599	-92.53	0.84	88.14	0.27
5,700	0.36	133.62	5,699	-92.86	1.18	88.36	0.17
5,800	0.24	95.38	5,799	-93.10	1.62	88.46	0.23
5,900	0.35	100.82	5,899	-93.18	2.13	88.38	0.11
6,000	0.35	77.10	5,999	-93.17	2.73	88.19	0.14
6,100	0.33	66.38	6,099	-92.98	3.29	87.85	0.07
6,200	0.37	24.55	6,199	-92.57	3.69	87.34	0.25
6,300	0.48	46.93	6,299	-91.99	4.13	86.66	0.20
6,400	0.39	28.21	6,399	-91.41	4.59	85.96	0.17
6,500	0.50	38.42	6,499	-90.77	5.02	85.22	0.14
6,600	0.28	46.14	6,599	-90.25	5.47	84.60	0.23
6,700	0.45	28.94	6,699	-89.74	5.84	84.00	0.20
6,800	0.49	43.56	6,799	-89.09	6.32	83.23	0.13
6,900	0.61	37.16	6,899	-88.35	6.94	82.35	0.13
7,000	0.66	41.31	6,999	-87.50	7.64	81.32	0.07
7,100	0.71	29.40	7,099	-86.52	8.32	80.19	0.15
7,200	0.63	30.14	7,199	-85.51	8.90	79.05	0.08
7,300	0.74	23.38	7,299	-84.44	9.44	77.87	0.14
7,400	0.55	14.34	7,399	-83.38	9.81	76.75	0.21
7,500	0.58	358.62	7,499	-82.41	9.92	75.79	0.16
7,600	0.78	359.85	7,599	-81.23	9.91	74.66	0.20
7,700	0.97	349.16	7,699	-79.71	9.74	73.27	0.25
7,800	1.05	7.49	7,799	-77.97	9.70	71.62	0.33
7,898	1.29	356.03	7,897	-75.98	9.75	69.70	0.34
7,932	1.70	7.10	7,931	-75.10	9.78	68.85	1.47
8,003	0.50	195.10	8,002	-74.35	9.83	68.12	3.09
8,065	1.50	163.70	8,064	-75.39	9.99	69.07	1.78
8,128	0.60	134.10	8,127	-76.42	10.46	69.91	1.62
8,221	2.20	184.10	8,220	-78.54	10.68	71.87	2.01
8,253	3.40	183.70	8,252	-80.09	10.57	73.39	3.75
8,315	4.90	190.50	8,314	-84.53	9.97	77.80	2.54
8,376	6.30	195.50	8,374	-90.32	8.60	83.74	2.43
8,438	7.60	200.90	8,436	-97.43	6.23	91.23	2.34
8,501	8.90	201.60	8,498	-105.85	2.95	100.25	2.07
8,576	10.70	195.30	8,572	-117.96	-1.02	112.99	2.79
8,626	11.00	195.30	8,621	-127.04	-3.51	122.40	0.60
8,688	12.00	197.60	8,682	-138.89	-7.02	134.75	1.77
8,749	12.00	198.80	8,742	-150.94	-10.98	147.43	0.41
8,816	11.60	200.00	8,807	-163.86	-15.53	161.13	0.70
8,873	11.80	197.80	8,863	-174.80	-19.27	172.68	0.86
8,936	12.70	200.80	8,925	-187.40	-23.70	186.03	1.75
8,998	12.50	202.20	8,985	-199.99	-28.65	199.52	0.59
9,060	12.00	202.60	9,046	-212.15	-33.66	212.62	0.82
9,122	11.60	201.90	9,106	-223.88	-38.47	225.25	0.69
9,184	12.30	203.70	9,167	-235.71	-43.44	238.02	1.28
9,245	12.00	202.00	9,227	-247.54	-48.43	250.80	0.77
9,307	11.80	202.00	9,287	-259.40	-53.22	263.53	0.32
9,369	12.00	202.20	9,348	-271.24	-58.03	276.27	0.33
9,427	13.00	200.70	9,405	-282.93	-62.62	288.79	1.81
9,464	13.10	201.60	9,441	-290.72	-65.63	297.13	0.61
9,525	13.00	200.50	9,500	-303.57	-70.58	310.87	0.44
9,588	12.50	200.10	9,562	-316.61	-75.40	324.75	0.81
9,650	11.90	202.40	9,622	-328.82	-80.14	337.82	1.25
9,712	11.40	208.10	9,683	-340.14	-85.47	350.20	2.02
9,774	10.10	210.40	9,744	-350.23	-91.10	361.51	2.21

**PERC DIRECTIONAL REPORT**

WELLNAME: NEW MEXICO "N" STATE #10  
 FIELD: VACUUM ATOKA  
 AFE NO.: 665506  
 WELL ID NO.: 665506  
 API NO.: 30 025 33434

SURVEY TYPE : MWD MD : 100 ANGLE : 0.55 AZIMUTH : 135.45 TVD : 100.00  
 N/S : -0.34 E/W : 0.34 VS : TARGET : 197.20

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
9,836	9.20	209.50	9,805	-359.24	-96.30	371.65	1.47
9,938	8.70	213.50	9,906	-372.77	-104.57	387.02	0.78
10,031	9.00	214.90	9,998	-384.60	-112.61	400.70	0.40
10,093	7.80	214.90	10,059	-392.03	-117.79	409.33	1.94
10,156	7.00	211.80	10,121	-398.80	-122.26	417.12	1.42
10,219	5.50	210.40	10,184	-404.66	-125.81	423.77	2.39
10,282	4.00	213.50	10,247	-409.10	-128.56	428.82	2.41
10,345	2.60	211.10	10,310	-412.16	-130.51	432.32	2.23
10,407	1.70	226.20	10,372	-414.00	-131.90	434.48	1.70
10,524	1.50	169.90	10,489	-416.71	-132.88	437.36	1.30
10,587	1.70	187.10	10,552	-418.44	-132.85	439.02	0.82
10,649	1.10	188.90	10,614	-419.95	-133.06	440.51	0.97
10,744	1.70	244.10	10,709	-421.46	-134.47	442.38	1.48
10,805	1.30	256.40	10,770	-422.02	-135.95	443.35	0.84
10,867	0.60	299.30	10,832	-422.03	-136.92	443.64	1.54
10,962	0.90	310.50	10,927	-421.30	-137.92	443.24	0.35
11,022	0.80	345.70	10,987	-420.59	-138.38	442.70	0.87
11,085	0.80	36.00	11,050	-419.80	-138.23	441.91	1.08
11,148	0.70	44.40	11,113	-419.17	-137.70	441.15	0.24
11,210	0.60	78.00	11,175	-418.84	-137.12	440.65	0.63
11,271	0.80	27.90	11,236	-418.39	-136.61	440.08	1.02
11,334	0.90	14.50	11,299	-417.52	-136.28	439.15	0.35
11,396	1.60	19.10	11,360	-416.24	-135.88	437.80	1.14
11,458	1.80	11.70	11,422	-414.46	-135.39	435.97	0.48
11,494	1.90	9.90	11,458	-413.32	-135.18	434.81	0.32
11,536	1.90	9.90	11,500	-411.95	-134.94	433.43	0.00

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

State of New Mexico CONSERVATION DIVISION  
Energy, Minerals and Natural Resources Department

Form C-101

Revised February 10, 1994

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address TEXACO EXPLORATION & PRODUCTION INC. P.O. Box 3109, Midland Texas 79702		<sup>2</sup> OGRID Number 022351
		<sup>3</sup> API Number 30-025-33434
<sup>4</sup> Property Code 11047	<sup>6</sup> Property Name NEW MEXICO 'N' STATE	<sup>5</sup> Well No. 10

<sup>7</sup> Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17-S	35-E		800	SOUTH	510	WEST	LEA

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
M	30	17-S	35-E		380	SOUTH	380	WEST	LEA

<sup>9</sup> Proposed Pool 1 WILDCAT (ATOKA)	<sup>10</sup> Proposed Pool 2
---	-------------------------------

<sup>11</sup> Work Type Code N	<sup>12</sup> WellType Code O	<sup>13</sup> Rotary or C.T. ROTARY	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3989'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 11550'	<sup>18</sup> Formation ATOKA	<sup>19</sup> Contractor NABORS	<sup>20</sup> Spud Date 4/20/96

<sup>21</sup> Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14 3/4	11 3/4	42#	1500'	800 SACKS	SURFACE
11	8 5/8	32#	5300'	1600 SACKS	SURFACE
7 7/8	5 1/2	17#	11550'	2400 SACKS	SURFACE

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

CEMENTING PROGRAM:

SURFACE CASING: 600 SACKS CLASS C w/ 4% GEL, 2% CC (13.5 PPG, 1.74 CF/S, 9.1 GW/S). F/B 200 SACKS CLASS C w/ 2% CC (14.8 PPG, 1.34 CF/S, 6.3 GW/S)

INTERMEDIATE CASING: 1300 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FC (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 200 SACKS CLASS H (15.6 PPG, 1.19 CF/S, 5.2 GW/S).

PRODUCTION CASING: 1st STG - 900 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FC (14.2 PPG, 1.35 CF/S, 6.3 GW/S).

DV TOOL @ 8000': 2nd STG - 1200 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FC (12.4 PPG, 2.14 CF/S, 11.9 GW/S). F/B 300 SACKS CLASS H w/ 2% CC (15.6 PPG, 1.19 CF/S, 5.2 GW/S).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

APPROVAL TO DIRECTIONALLY DRILL HAS BEEN APPLIED FOR. (COPY ATTACHED)

DD-145

<sup>23</sup> I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.  Signature: <i>C. Wade Howard</i> Printed Name: C. Wade Howard Title: Eng. Assistant Date: 3/21/96 Telephone: 688-4606	<b>OIL CONSERVATION DIVISION</b>	
	Approved By: <i>Jerry Sexton</i>	
	Title: DISTRICT 1 SUPERVISOR	
	Approval Date: MAY 10 1996	Expiration Date:
Conditions of Approval: Attached <input type="checkbox"/>		

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**

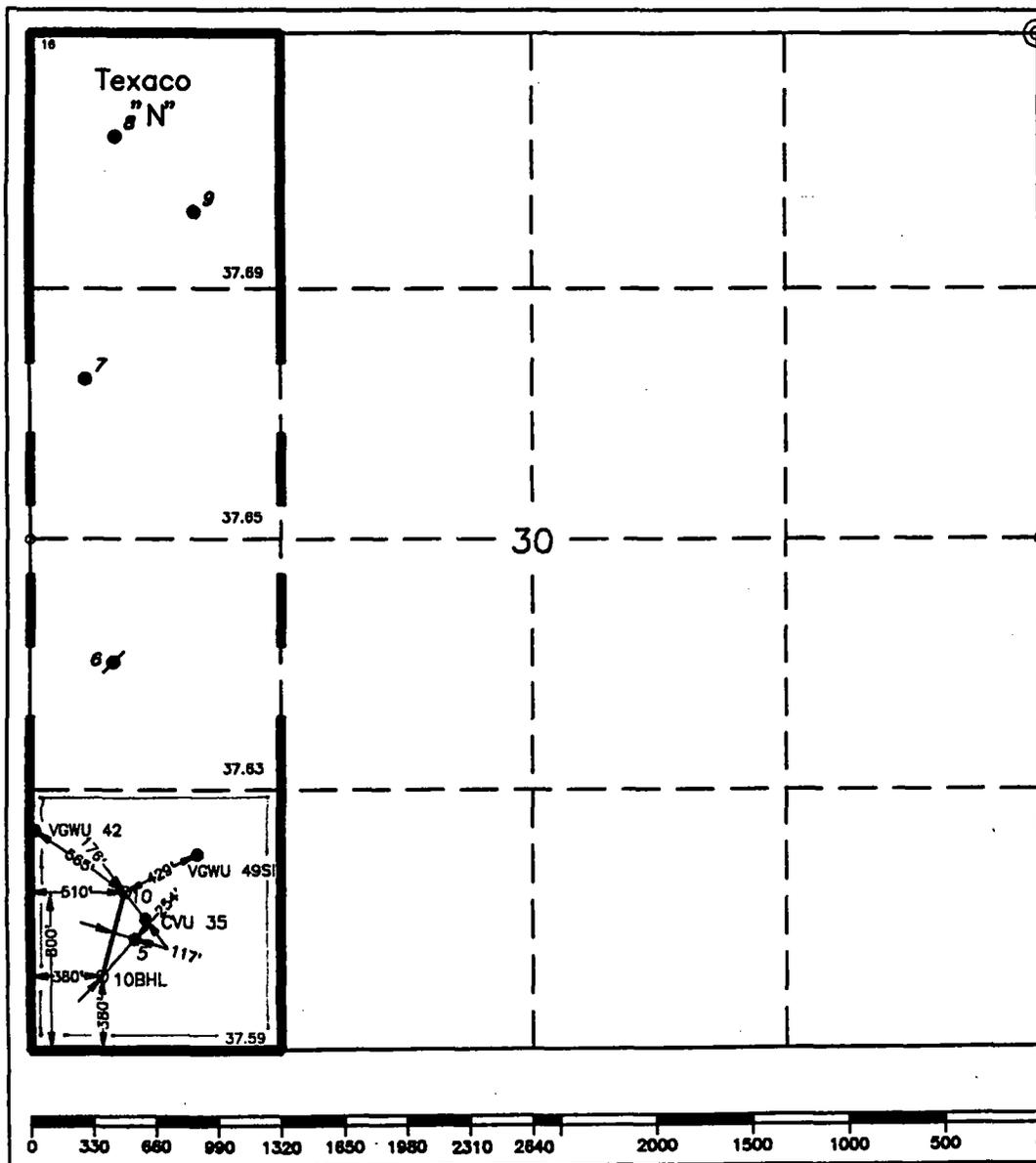
<sup>1</sup> API Number <b>30-025-33434</b>		<sup>2</sup> Pool Code	<sup>3</sup> Pool Name <b>Wildcat; Atoka</b>
<sup>4</sup> Property Code <b>11047</b>	<sup>5</sup> Property Name <b>New Mexico "N" State</b>		<sup>6</sup> Well Number <b>10</b>
<sup>7</sup> OGRID No. <b>22351</b>	<sup>8</sup> Operator Name <b>TEXACO EXPLORATION &amp; PRODUCTION, INC.</b>		<sup>9</sup> Elevation <b>3989'</b>

<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	<sup>7</sup> County
<b>M</b>	<b>30</b>	<b>17-S</b>	<b>35-E</b>		<b>800'</b>	<b>South</b>	<b>510'</b>	<b>West</b>	<b>Lea</b>

<sup>11</sup> 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	<sup>7</sup> County
<b>M</b>	<b>30</b>	<b>17-S</b>	<b>35-E</b>		<b>380'</b>	<b>South</b>	<b>380'</b>	<b>West</b>	<b>Lea</b>

<sup>12</sup> Dedicated Acres <b>37.59</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



**<sup>16</sup> OPERATOR 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  
**March 1, 1996**

---

**<sup>17</sup> 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  
**February 13, 1996**

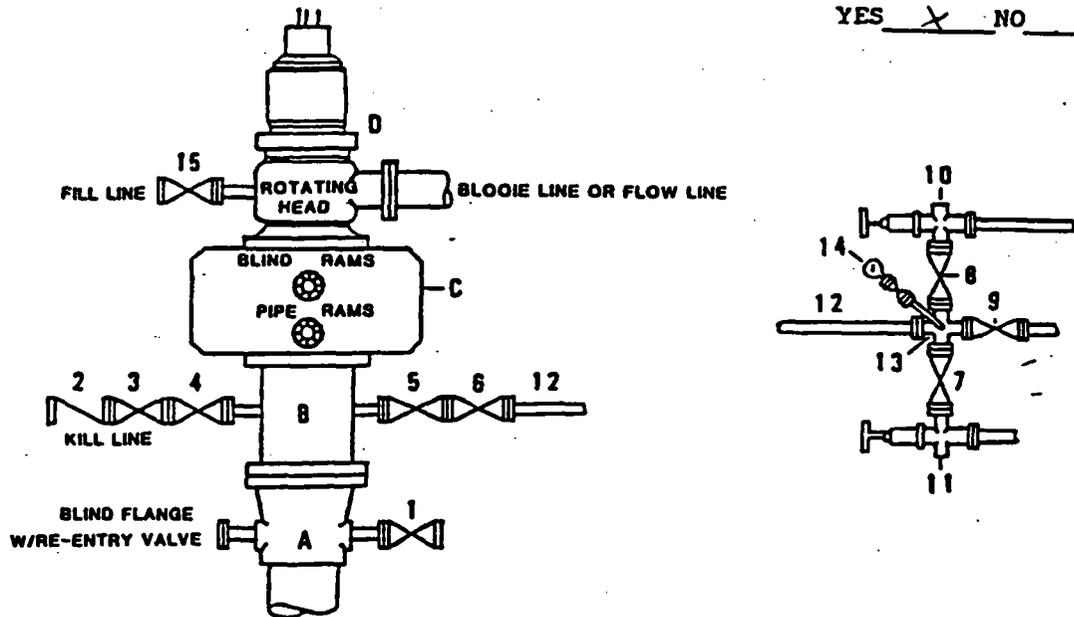
Signature & Seal of Professional Surveyor  
*John S. Piper*

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

Sheet

**DRILLING CONTROL  
CONDITION II-B 3000 WP  
FOR AIR DRILLING OR  
WHERE NITROGEN OR AIR BLOWS ARE EXPECTED**

H<sub>2</sub>S TRIM REQUIRED  
YES  NO



**DRILLING CONTROL**

**MATERIAL LIST - CONDITION II - B**

- A        Texaco Wellhead
- B        3000# W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C        3000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 3000# W.P. control lines (where sub-structure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized).
- D        Rotating Head with fill up outlet and extended Bleed Line.
- 1,2,4,7,8,    2" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 2        2" minimum 3000# W.P. back pressure valve.
- 5,6,9    3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 12       3" minimum schedule 80, Grade "B", seamless line pipe.
- 13       2" minimum x 3" minimum 3000# W.P. flanged cross.
- 10,11    2" minimum 3000# W.P. adjustable choke bodies.
- 14       Cameron Mud Gauge or equivalent ( location optional in choke line).
- 15       2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.



**TEXACO, INC.**  
MIDLAND DIVISION  
MIDLAND, TEXAS



SCALE:	DATE	EST. NO.	ORIG. NO.
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			

EXHIBIT C



Texaco Exploration  
and Production Inc

500 North Loraine  
Midland TX 79701

P O Box 3109  
Midland TX 79702

March 5, 1996

GOV - STATE AND LOCAL GOVERNMENTS  
Directional Drilling  
New Mexico "N" State Well No. 10  
Wildcat Atoka Field  
Lea County, New Mexico

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:

Administrative approval, Rule 111 c.2, is requested to directionally drill the captioned well to an orthodox bottomhole location.

This well must be directionally drilled because surface obstructions prevented staking it at the proposed bottom-hole location. It will be completed in the Atoka formation as a forty-acre oil well. Attached for your information is a copy of our directional plans, a type log section, and Form C-102.

The "affected" offset operators to this well have been notified of this request (see attached offset operator's list and certified mail receipts).

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

Yours very truly,

*C. Wade Howard*

C. W. Howard  
Engineer's Assistant

CWH:

CC: NMOCD, P. O. Box 1980, Hobbs, NM 88240

Attachments

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

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

Instructions on back

Submit to Appropriate District Office

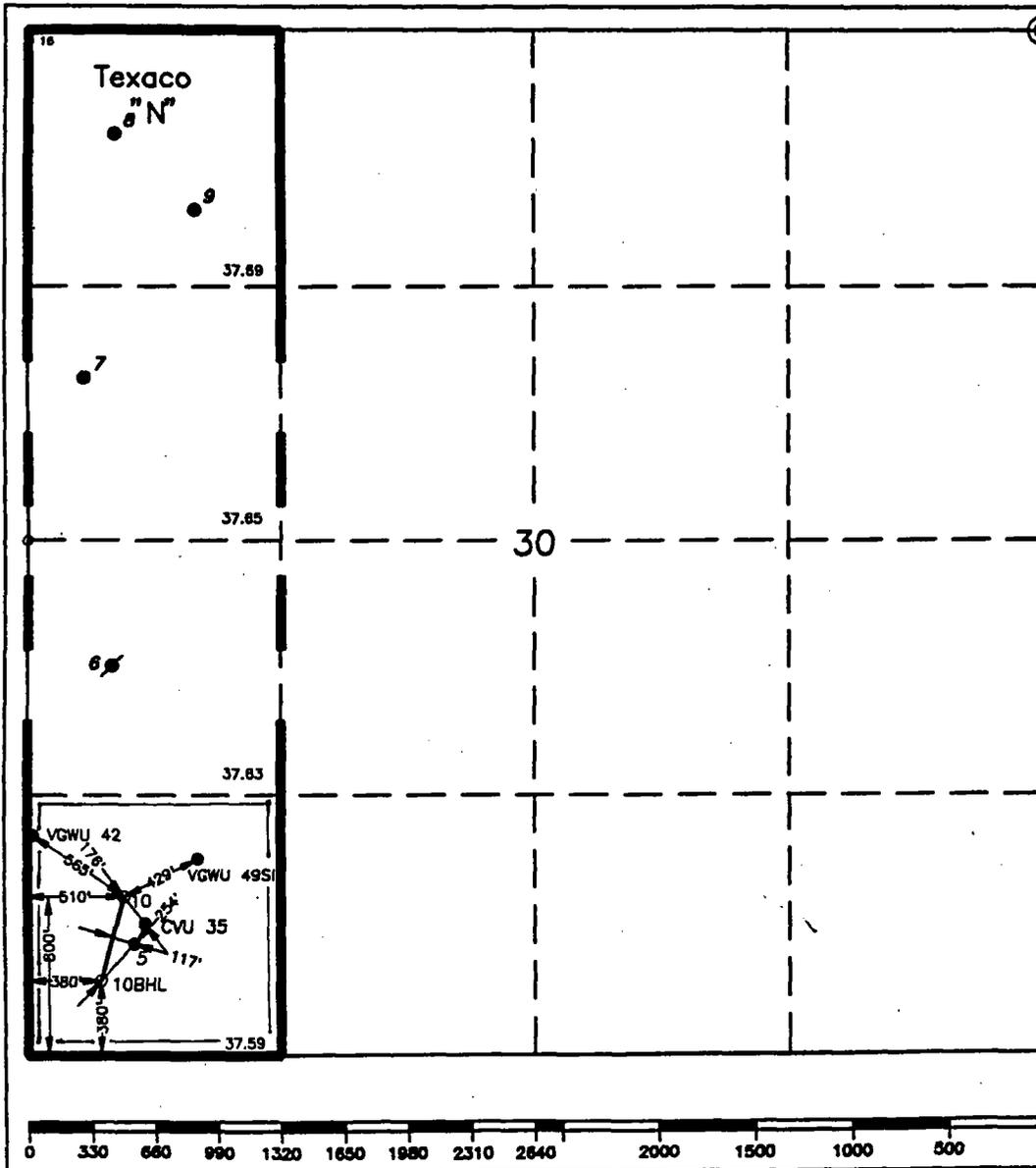
State Lease-4 copies  
Fee Lease-3 copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name Wildcat; Atoka					
<sup>4</sup> Property Code 11047		<sup>5</sup> Property Name New Mexico "N" State				<sup>6</sup> Well Number 10			
<sup>7</sup> OGRID No. 22351		<sup>8</sup> Operator Name TEXACO EXPLORATION & PRODUCTION, INC.				<sup>9</sup> Elevation 3989'			
<sup>10</sup> Surface Location									
UL or lot no. M	Section 30	Township 17-S	Range 35-E	Lot Idn	Feet from the 800'	North/South line South	Feet from the 510'	East/West line West	<sup>7</sup> County Lea
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 30	Township 17-S	Range 35-E	Lot Idn	Feet from the 380'	North/South line South	Feet from the 380'	East/West line West	<sup>7</sup> County Lea
<sup>12</sup> Dedicated Acres 37.59		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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.



<sup>16</sup> OPERATOR 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  
March 1, 1996

<sup>16</sup> 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  
February 13, 1996

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

Certificate No.  
7264 John S. Piper

Sheet



Texaco Exploration  
and Production Inc

500 North Loraine  
Midland TX 79701

P O Box 3109  
Midland TX 79702

March 5, 1996

GOV - STATE AND LOCAL GOVERNMENTS  
Directional Drilling  
New Mexico "N" State Well No. 10  
Sec. 30, T-17-S, R-35-E  
Lea County, New Mexico

TO THE OFFSET OPERATORS

Gentlemen:

As an offset operator to the captioned lease, you are being furnished with a copy of our Application to directionally drill the captioned well. 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. W. Howard  
Engineer's Assistant

CWH:cwh

File

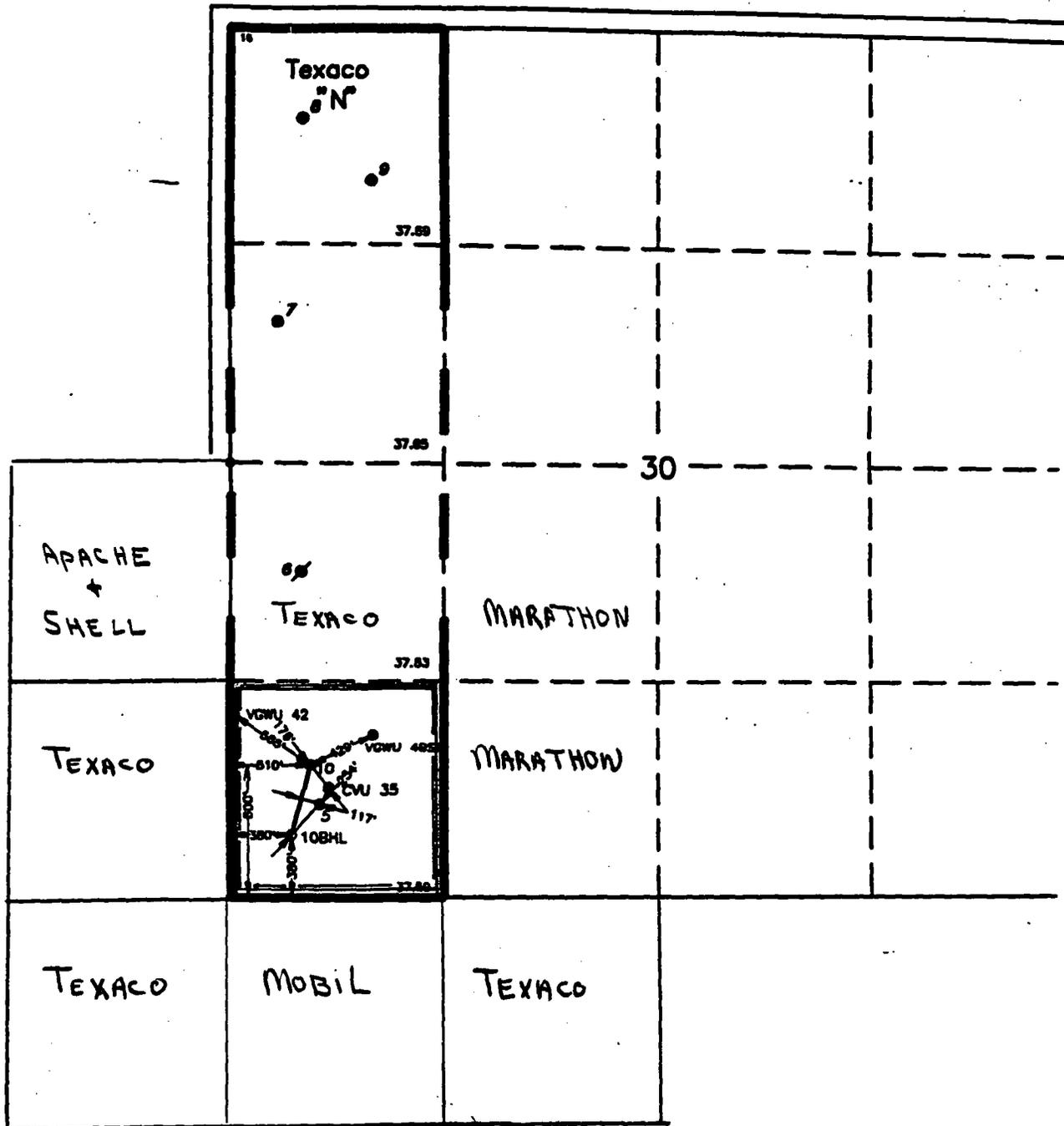
**WAIVER APPROVED:**

**COMPANY:** \_\_\_\_\_

**BY:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

# NEW MEXICO "N" STATE No. 10 OFFSET OPERATOR'S MAP



**OFFSET OPERATOR'S LIST  
New Mexico "N" State Well No. 10  
LEA COUNTY, NEW MEXICO**

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

**Marathon Oil Company  
P. O. Box 552  
Midland, TX 79702**

**Shell Western E & P Inc.  
P. O. Box 576  
Houston, TX 77001**

**Apache Coproration  
2000 Post Oak Blvd., Ste. 100  
Houston, TX 77056**

**Mobil Exploration and Producing US Inc.  
P. O. Box 633  
Midland, TX 79702**

**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:  
 SHELL WESTERN E&P INC.  
 P. O. BOX 576  
 HOUSTON, TEXAS 77001

4a. Article Number  
 P 329 313 916

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

7. Date of Delivery  
 MAR 8 1996

Signature (Addressee)  
 Signature (Agent)  
*R. Hendy*

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

Thank you for using Return Receipt Service.

**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:  
 MARATHON OIL COMPANY  
 P. O. BOX 552  
 MIDLAND, TEXAS 79702

4a. Article Number  
 P 329 313 915

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

7. Date of Delivery  
 MAR - 6 1996

5. Signature (Addressee)  
 6. Signature (Agent)  
*S. McWilliam*

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

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:  
 APACHE CORPORATION  
 2000 POST OAK BLVD.; SUITE 100  
 HOUSTON, TEXAS 77056

4a. Article Number  
 P 329 313 917

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

7. Date of Delivery  
 3-7-96

Signature (Addressee)  
 Signature (Agent)  
*[Signature]*

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

Thank you for using Return Receipt Service.

**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:  
 MOBIL E&P US INC.  
 P. O. BOX 633  
 MIDLAND, TEXAS 79702

4a. Article Number  
 P 329 313 918

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

7. Date of Delivery  
 MAR - 6 1996

5. Signature (Addressee)  
 6. Signature (Agent)  
*[Signature]*

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

Is your RETURN ADDRESS completed on the reverse side?

sc11000

BASE OF STRAWN  
TOP OF ATOKA

sc11100

sc11200

TENS

SGR

SGR

TNPP

RHOZ

sc11300

HDRA

BASE OF ATOKA

TOP OF MORROW

sc11400

HGA

FR

TD  
sc11500

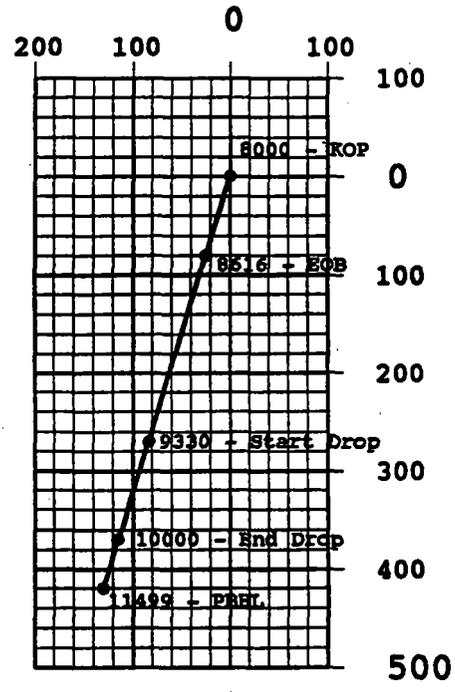
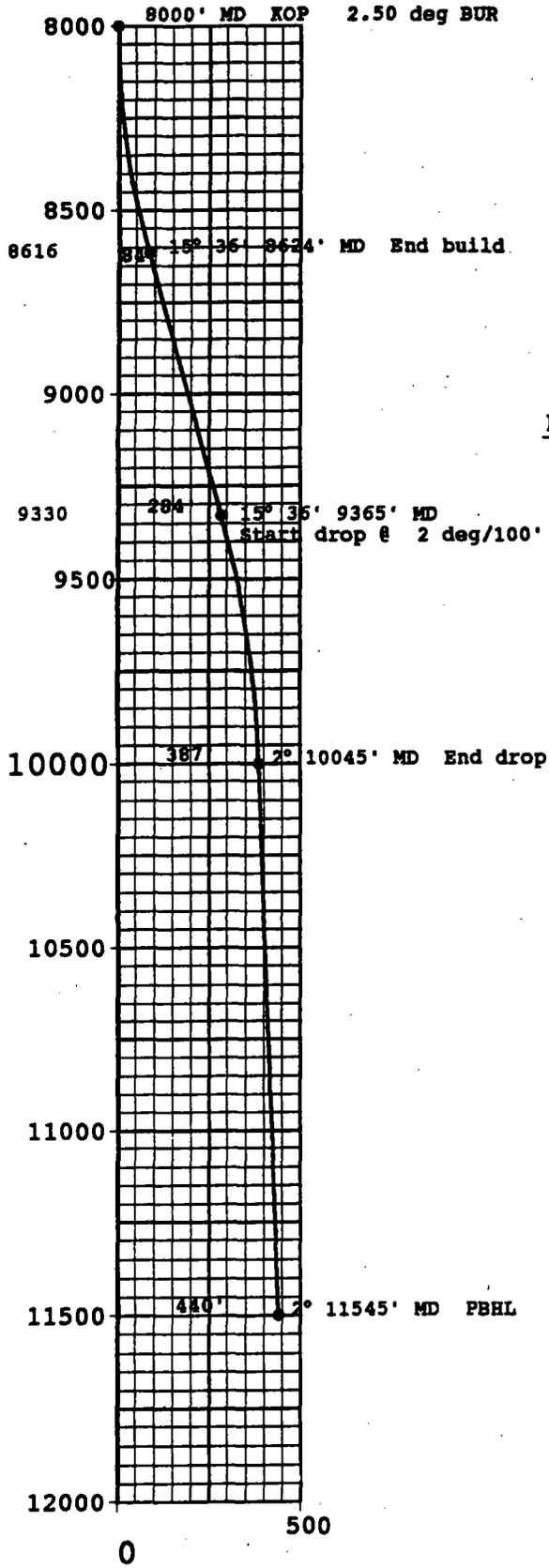
Stuck

**Texaco Exploration & Production, Inc.**  
 State 10  
 Sec 30, Blk 40, Tshp 2S, Lea County, New Mexico  
 Directional Proposal

PLANE OF PROPOSAL  
 S 17° 12' W



VERTICAL SECTION  
 Scale 1" = 500'



HORIZONTAL PLAN  
 Scale 1" = 200'

- Points of Interest**  
 (Ref fm SW of 30)
- 1) Surface Location  
 - 800' FSL & 510' FWL
  - 2) KOP  
 - 8000'
  - 3) EOB  
 - 8624' MD, 8616' TVD  
 - 719' FSL & 485' FWL
  - 4) Start Drop  
 - 9365' MD & 9330' TVD  
 - 529' FSL & 426' FWL
  - 5) End Drop  
 - 10045' MD & 10000' TVD  
 - 430' FSL & 395' FWL
  - 6) PBHL  
 - 11545' MD & 11500' TVD  
 - 380' FSL & 380' FWL

**PDS**

# Directional Proposal - Ref from Well Bore

Texaco State 10 Lea Cty, N.M.

Plane of Section = 197.2 Degs.  
 VS N/S Zero Point = 0 Feet  
 VS E/W Zero Point = 0 Feet  
 Calculation Method = Radius

	Measured		Azimuth Degrees	Course Length feet	Vertical Section feet	TVD feet	COORDINATES		Dogleg Severity Deg/100'
	Depth feet	Incl. Degrees					N/S feet	E/W	
S	8000.00	0.00	0.00	0.00	0.00	8000.00	0.00	0.00	0.00
C	KOP								
C	BUR 2.5 deg/100'								
S	8100.00	2.50	197.20	100.00	2.18	8099.97	-2.08	-.64	2.50
S	8200.00	5.00	197.20	100.00	8.72	8199.75	-8.33	-2.58	2.50
S	8300.00	7.50	197.20	100.00	19.61	8299.14	-18.73	-5.80	2.50
S	8400.00	10.00	197.20	100.00	34.82	8397.97	-33.26	-10.30	2.50
S	8500.00	12.50	197.20	100.00	54.33	8496.04	-51.90	-16.06	2.50
S	8600.00	15.00	197.20	100.00	78.09	8593.17	-74.60	-23.09	2.50
S	8623.76	15.59	197.20	23.76	84.36	8616.09	-80.59	-24.94	2.50
C	End of build								
S	9123.76	15.59	197.20	500.00	218.77	9097.68	-208.99	-64.69	0.00
S	9364.82	15.59	197.20	241.06	283.57	9329.87	-270.89	-83.85	0.00
C	Start of drop								
C	Drop rate 2 deg/100'								
S	9464.82	13.59	197.20	100.00	308.77	9426.64	-294.96	-91.30	2.00
S	9564.82	11.59	197.20	100.00	330.57	9524.23	-315.79	-97.75	2.00
S	9664.82	9.59	197.20	100.00	348.95	9622.52	-333.35	-103.18	2.00
S	9764.82	7.59	197.20	100.00	363.90	9721.39	-347.62	-107.60	2.00
S	9864.82	5.59	197.20	100.00	375.38	9820.72	-358.59	-111.00	2.00
S	9964.82	3.59	197.20	100.00	383.39	9920.40	-366.24	-113.36	2.00
S	10044.52	2.00	197.20	79.70	387.28	10000.00	-369.96	-114.51	2.00
C	End of drop								
C	Target in Pennsilvanian								
S	10544.52	2.00	197.19	500.00	404.73	10499.70	-386.63	-119.67	0.00
S	11044.52	2.00	197.20	500.00	422.18	10999.39	-403.30	-124.83	0.00
S	11544.52	2.00	197.19	500.00	439.63	11499.09	-419.97	-129.99	0.00
S	11545.44	2.00	197.20	0.92	439.66	11500.01	-420.00	-130.00	0.06
C	PBHL								
C	Final location 439.65' at 197.2 deg azimuth								

# Directional Proposal - Ref from SW Corner

Texaco State 10 Lea Cty, N.M.

Plane of Section = 197.2 Degs.  
 VS N/S Zero Point = 800 Feet  
 VS E/W Zero Point = 5100 Feet  
 Calculation Method = Radius

	Measured Depth feet	Incl. Degrees	Azimuth Degrees	Course Length feet	Vertical Section feet	TVD feet	COORDINATES N/S                  E/W feet		Dogleg Severity Deg/100'
S	8000.00	0.00	0.00	0.00	1357.30	8000.00	800.00	510.00	0.00
C	KOP								
C	BUR 2.5 deg/100'								
S	8100.00	2.50	197.20	100.00	1359.48	8099.97	797.92	509.36	2.50
S	8200.00	5.00	197.20	100.00	1366.02	8199.75	791.67	507.42	2.50
S	8300.00	7.50	197.20	100.00	1376.91	8299.14	781.27	504.20	2.50
S	8400.00	10.00	197.20	100.00	1392.12	8397.97	766.74	499.70	2.50
S	8500.00	12.50	197.20	100.00	1411.63	8496.04	748.10	493.94	2.50
S	8600.00	15.00	197.20	100.00	1435.39	8593.17	725.40	486.91	2.50
S	8623.76	15.59	197.20	23.76	1441.66	8616.09	719.41	485.06	2.50
C	End of build								
S	9123.76	15.59	197.20	500.00	1576.07	9097.68	591.01	445.31	0.00
S	9364.82	15.59	197.20	241.06	1640.87	9329.87	529.11	426.15	0.00
C	Start of drop								
C	Drop rate 2 deg/100'								
S	9464.82	13.59	197.20	100.00	1666.07	9426.64	505.04	418.70	2.00
S	9564.82	11.59	197.20	100.00	1687.87	9524.23	484.21	412.25	2.00
S	9664.82	9.59	197.20	100.00	1706.25	9622.52	466.65	406.82	2.00
S	9764.82	7.59	197.20	100.00	1721.20	9721.39	452.38	402.40	2.00
S	9864.82	5.59	197.20	100.00	1732.68	9820.72	441.41	399.00	2.00
S	9964.82	3.59	197.20	100.00	1740.69	9920.40	433.76	396.64	2.00
S	10044.52	2.00	197.20	79.70	1744.58	10000.00	430.04	395.49	2.00
C	End of drop								
C	Target in Pennsilvanian								
S	10544.52	2.00	197.19	500.00	1762.03	10499.70	413.37	390.33	0.00
S	11044.52	2.00	197.20	500.00	1779.48	10999.39	396.70	385.17	0.00
S	11544.52	2.00	197.19	500.00	1796.93	11499.09	380.03	380.01	0.00
S	11545.44	2.00	197.20	0.92	1796.96	11500.01	380.00	380.00	0.06
C	PBHL								
C	Final location 537.4' at 45 deg azimuth								

Scharbaruer