



NSL-REDC. 1

NSL 8/18/97

OXY USA Inc.

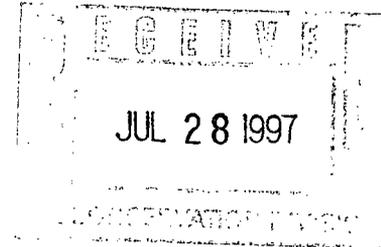
6 Desta Drive, Suite 6000, Midland, TX 79705, P.O. Box 50250, Midland, TX 79710-0250  
Telephone 915 685-5600 Fax 915 685-5754

July 25, 1997

New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
Santa Fe, NM 87505

Attention: Mr. Michael E. Stogner

Re: *Application of OXY USA Inc. for Unorthodox Well Location  
Dow B Federal Lease, Well #1  
2180' FSL & 1980' FEL, Unit J  
Section 33, Township 17 South, Range 31 East  
Cedar Lake (Atoka) Pool  
Eddy County, New Mexico*



Dear Mr. Stogner:

OXY USA Inc. ("OXY") respectfully requests administrative approval under Rule 104 (F) to re-enter this plugged and abandoned well and test the Atoka pool. Texaco well originally drilled this at an orthodox location for an east half 320-acre spacing unit. Since Texaco now has the north half of this section dedicated to their Dow B Federal Lease, Well #2, which produces from the Atoka, OXY proposes to designate the south half of the section as a 320-acre spacing unit for Atoka production. This, however, puts the wellbore at an unorthodox location, hence our request for NSL authority.

The need for the unorthodox location is based on the geology of the Atoka formation. In addition to the lease plat, attached is a structure map and cross-section A-A' of the Atoka. The proposed re-entry is located above the gas/water contact in the Atoka and in a potentially productive part of the reservoir. The log from the recently drilled OXY/Panther Federal #1 Well revealed that Atoka sand development disappears to the west of the proposed re-entry.

Also attached are Form C-102 and a "service list" which identifies all affected parties as defined in Rule 104 (F) (3). A copy of this cover letter, C-102 and lease plat have been sent certified mail, return receipt requested, to all parties on the service list. By copy of this letter they are hereby notified that if they have any objection it must be filed within twenty days from the date of this notice. An APD has been filed on this same date with the BLM.

NMOCD approval of this request will aid in protecting OXY's correlative rights and preventing waste. If I can provide any additional information to aid in processing this request, please call me at (915) 685-5913. Thank you for consideration of our application.

Sincerely,

*Richard E. Foppiano*

Richard E. Foppiano, P.E.  
Regulatory Affairs Advisor

*E. Loco Hill Atoka Gas*

REF:ref  
Enclosures

# SERVICE LIST

Mr. Tim Gum, Supervisor  
New Mexico Oil Conservation Division  
District II Office  
811 S. First Street  
Artesia, New Mexico 88210

United States Department of the Interior  
Bureau of Land Management  
2909 West Second Street  
Roswell, NM 88201

Texaco Exploration & Production, Inc.  
205 East Bender  
Hobbs, New Mexico 88240

ABOVE THIS LINE FOR DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

## ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

### Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

- NSL    NSP    DD    SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

- DHC    CTB    PLC    PC    OLS    OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

- WFX    PMX    SWD    IPI    EOR    PPR

### NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A]  Working, Royalty or Overriding Royalty Interest Owners

[B]  Offset Operators, Leaseholders or Surface Owner

[C]  Application is One Which Requires Published Legal Notice

[D]  Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E]  For all of the above, Proof of Notification or Publication is Attached, and/or,

[F]  Waivers are Attached

### [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Richard E. Foppiano  
Print or Type Name

Richard E. Foppiano  
Signature

Regulatory Affairs Adv.  
Title

7/25/97  
Date

District I  
 PO Box 1980, Hobbs, NM 88241-1980  
 District II  
 PO Drawer DD, Artesia, NM 88211-0719  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
 Energy, Minerals & Natural Resources Department

Form C-102  
 Revised February 10, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-27068		Pool Code	Pool Name Undesignated Atoka
Property Code	Property Name Dow B 33 Federal		Well Number 1
OGRID No. 16696	Operator Name OXY USA Inc.		Elevation 3760'

<sup>10</sup> Surface Location

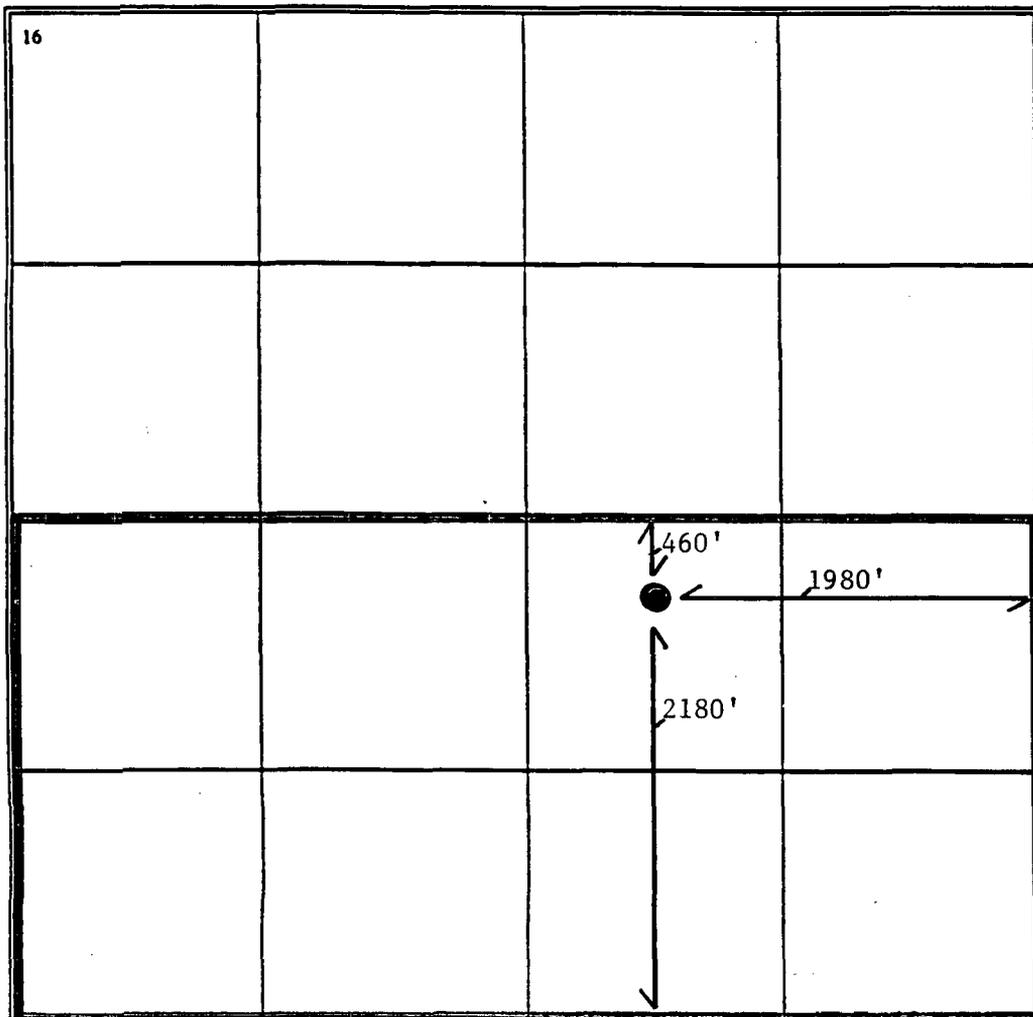
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	33	17S	31E		2180	South	1980	East	Eddy

<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	County

<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill N	<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



<sup>17</sup> OPERATOR CERTIFICATION

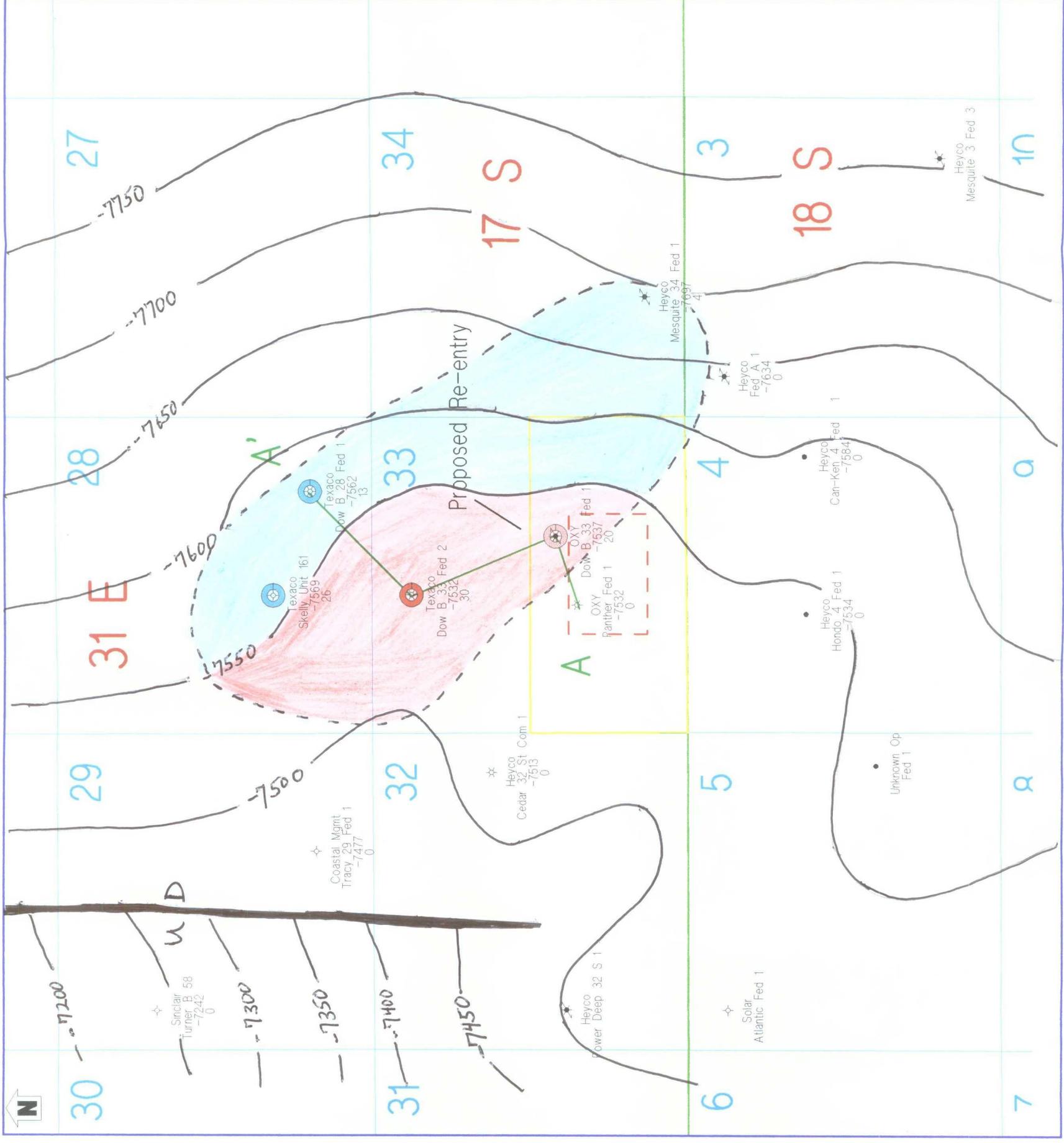
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

*David Stewart*  
 Signature  
 David Stewart  
 Printed Name  
 Regulatory Analyst  
 Title  
 7/25/97  
 Date

<sup>18</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 belief.

Date of Survey  
 Signature and Seal of Professional Surveyer:  
 Certificate Number



**OXY USA, Inc.**  
 OXY USA / Western Region

Lusk

Atoka Carb Struct (Cl = 50 ft)  
 Atoka Sandstone Outline  
 Cedar Lake Area, Eddy Co, NM

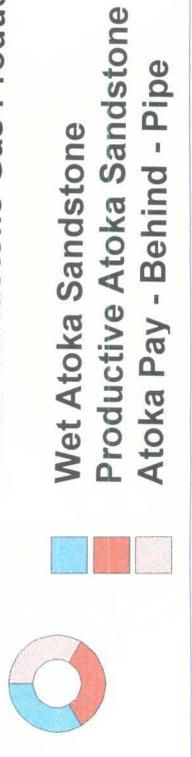


By: R. L. Doty  
 Date: 7/23/1997 Time: 19:42:36  
 Plot File : D:\PROJECTS\LUSK\PLOTS\STRUCT.PLT

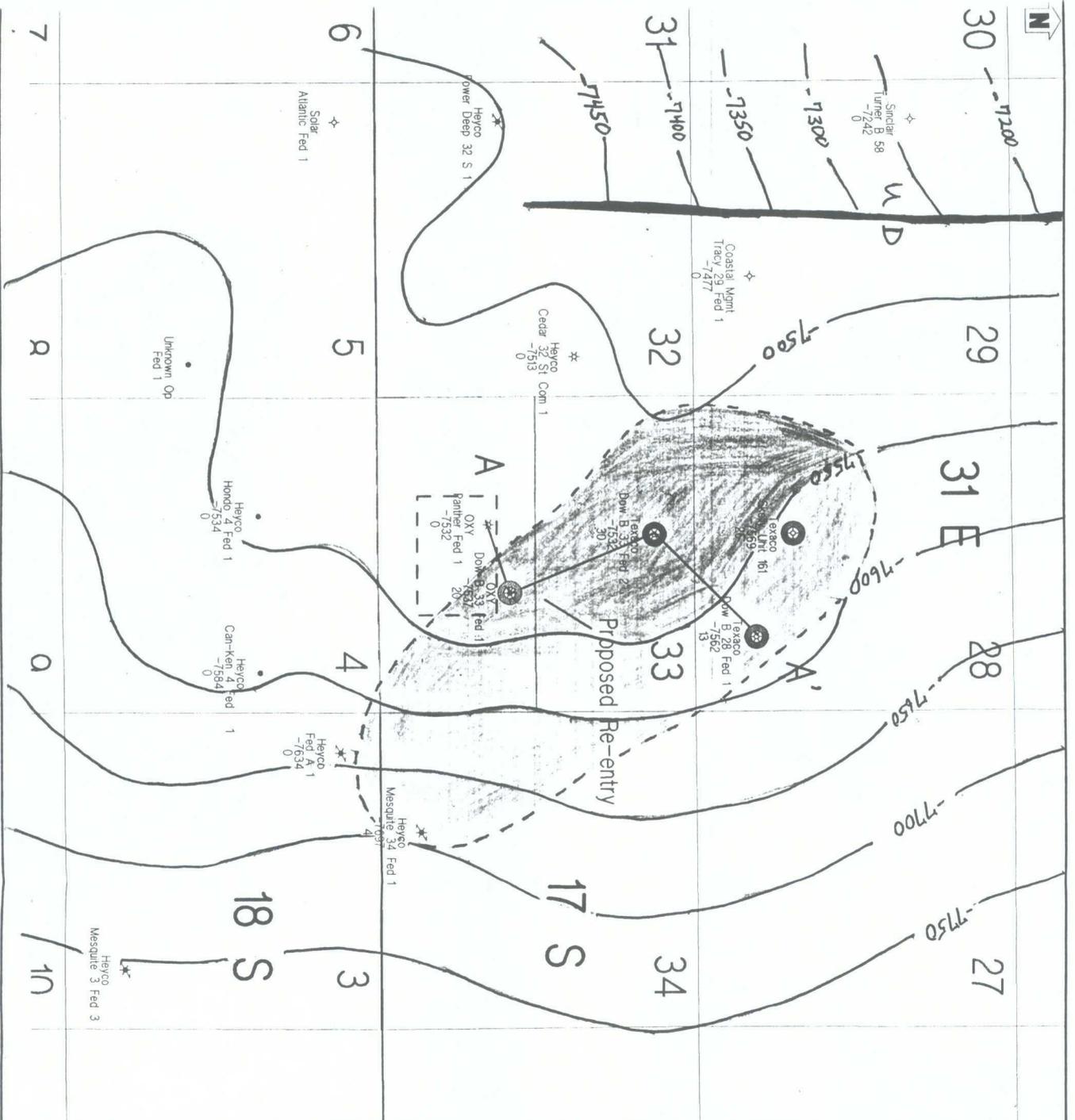
**POSTED DATA**

OPERATOR  
 WELL DESCRIPTOR  
 TOP.AT\_CO3 (SS) - Atoka Carbonate  
 AT\_SSNET\_SS - Net Sandstone

**Atoka Sandstone Gas Production**



Stacked Curves System



**OXY USA, Inc.**  
 OXY USA / Western Region

Lusk

Atoka Carb Struct (Cl = 50 ft)

Atoka Sandstone Outline

Cedar Lake Area, Eddy Co, NM



FEET

By: R. L. Doty

Date: 7/23/1997 Time: 19:42:36

Plot File : D:\PROJECTS\LUSK\PLOTS\STRUCT.PLT

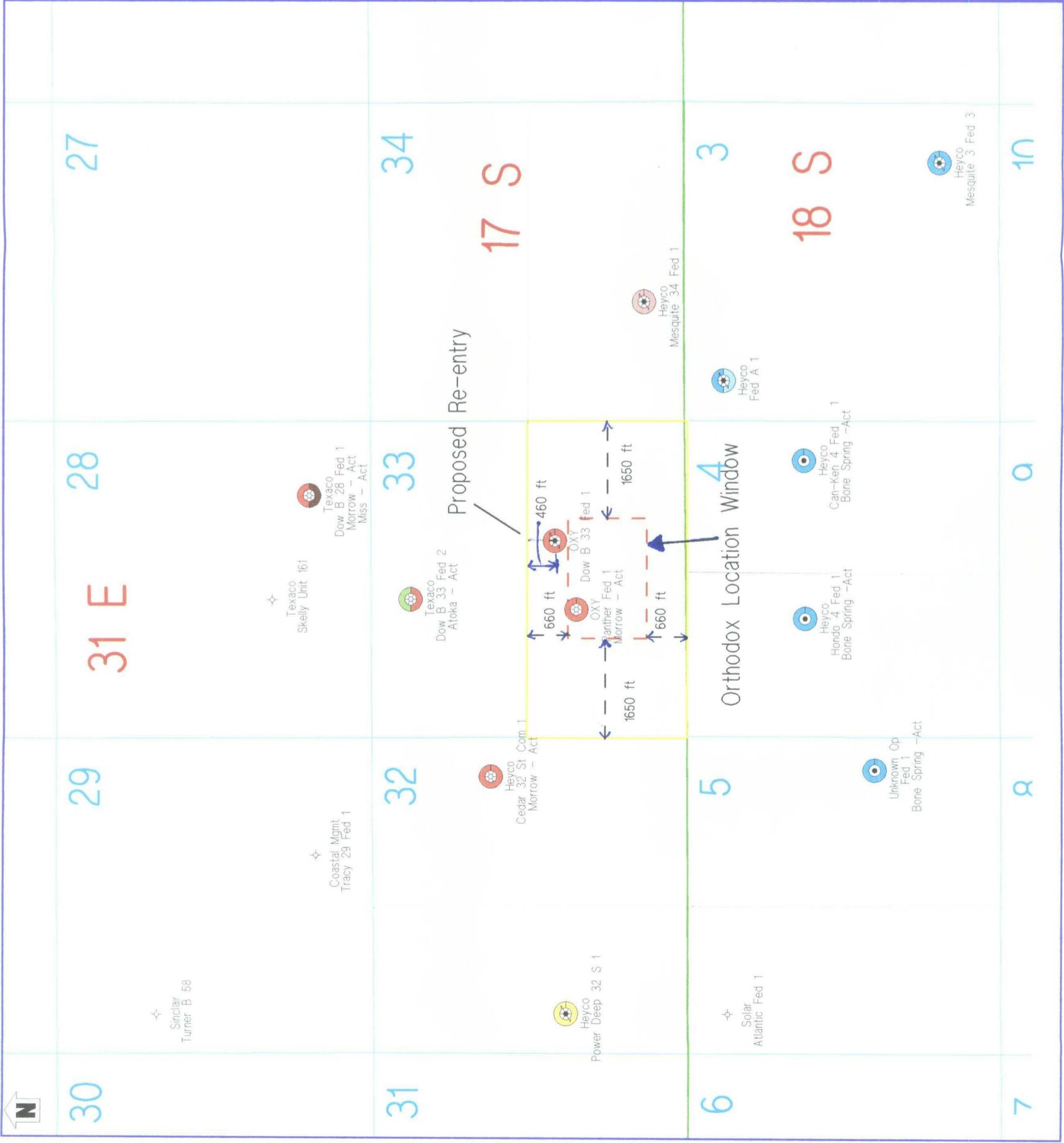
**POSTED DATA**

OPERATOR  
 WELL DESCRIPTOR  
 TOPAT\_CO3 (SS) - Atoka Carbonate  
 AT\_SSNEL\_SS - Nat Sandstone

**Atoka Sandstone Gas Production**

- Wet Atoka Sandstone
- Productive Atoka Sandstone
- Atoka Pay - Behind - Pipe

Stacked Curves System



**OXY USA, Inc.**  
OXY USA / Western Region

Lusk

**Cedar Lake Area Land Plat**

Eddy County, New Mexico  
Atoka Penetrations Only



By: R. L. Doty  
Date: 7/23/1997 Time: 19:08:09  
Plot File : D:\PROJECTS\LUSK\PLOTS\DOW\_1.PLT

**SYMBOL LEGEND**

- Dry Hole
- Gas Well
- Abandoned Producer
- Oil Well
- Oil, Multi-Zone UNKNOWN

**Producing Zones**

- Eddy (Group 4)
- Shugart North (Bone S)
- Mesquite (Strawn)
- Cedar Lake (Atoka)
- Cedar Lake E (Morrow)
- Eddy (Morrow)
- Cedar Lake E (Miss)

Stacked Curves System



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

August 1, 1995

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

**Attention: C. Wade Howard**

*Administrative Order DD-107*

Dear Mr. Howard:

Under the provisions of General Rule 111 (c), (d) and (e), Texaco Exploration and Production, Inc. made application to the New Mexico Oil Conservation Division on June 28, 1995, for authorization to recomplete its existing Dow "B-33" Federal Well No. 1 in Eddy County, New Mexico by side tracking off of the vertical wellbore and directionally drill to a pre-determined bottom-hole location in order to further deplete the East Cedar Lake-Morrow Gas Pool underlying the standard 320-acre gas spacing and proration unit comprising the S/2 of said Section 33.

**The Division Director Finds That:**

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;
- (2) The Dow "B-33" Federal Well No. 1 (API No. 30-015-27068), located 2180 feet from the South line and 1980 feet from the East line (Unit J) of Section 33, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico, was originally drilled in August/September 1992 to a total depth of 12,050 and was completed as a gas well in the Morrow formation;
- (3) The applicant/operator proposes to kick off vertical at a depth of approximately 10,341 feet in a westerly direction and drill in such a manner as to bottom back in the Morrow formation at a true vertical depth of approximately 11,800 feet at a standard gas well location within the NE/4 SW/4 (Unit K) of said Section 33;

Administrative Order DD-107  
Texaco Exploration and Production, Inc.  
August 1, 1995  
Page No. 3

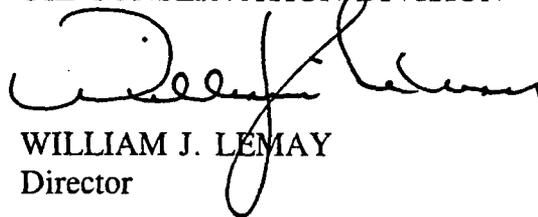
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(4) The S/2 of said Section 33 shall be dedicated to said well to form a standard 320-acre gas spacing and proration unit for said interval.

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

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

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY  
Director

S E A L

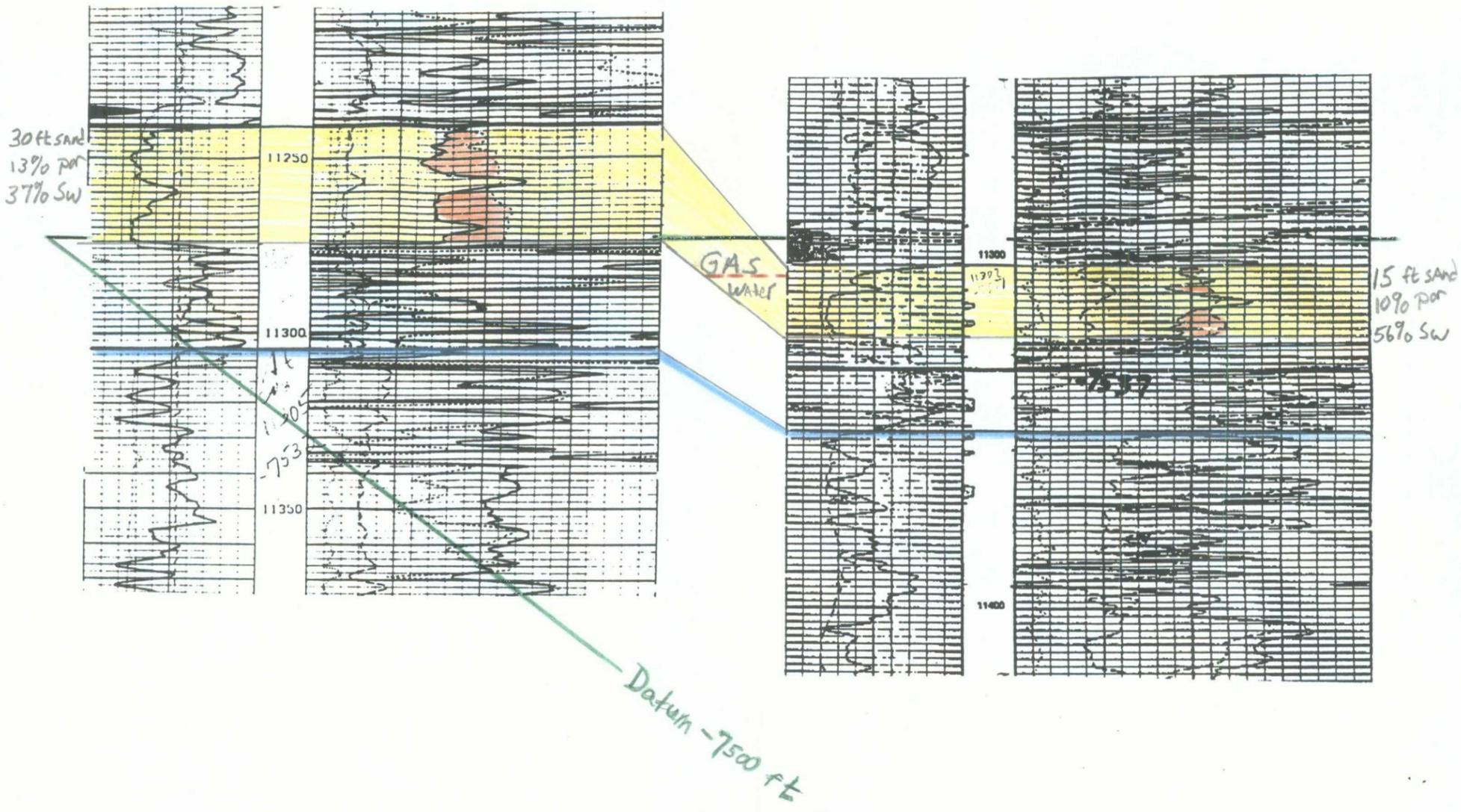
WJL/MES/kv

cc: Oil Conservation Division - Artesia  
U. S. Bureau of Land Management - Carlsbad

Texaco Dow B "33" Fed #2  
 Sec 33 17S 31E  
 KB 3773

Texaco Dow B "28" Fed #1  
 Sec 28 17S 31E  
 KB 3795

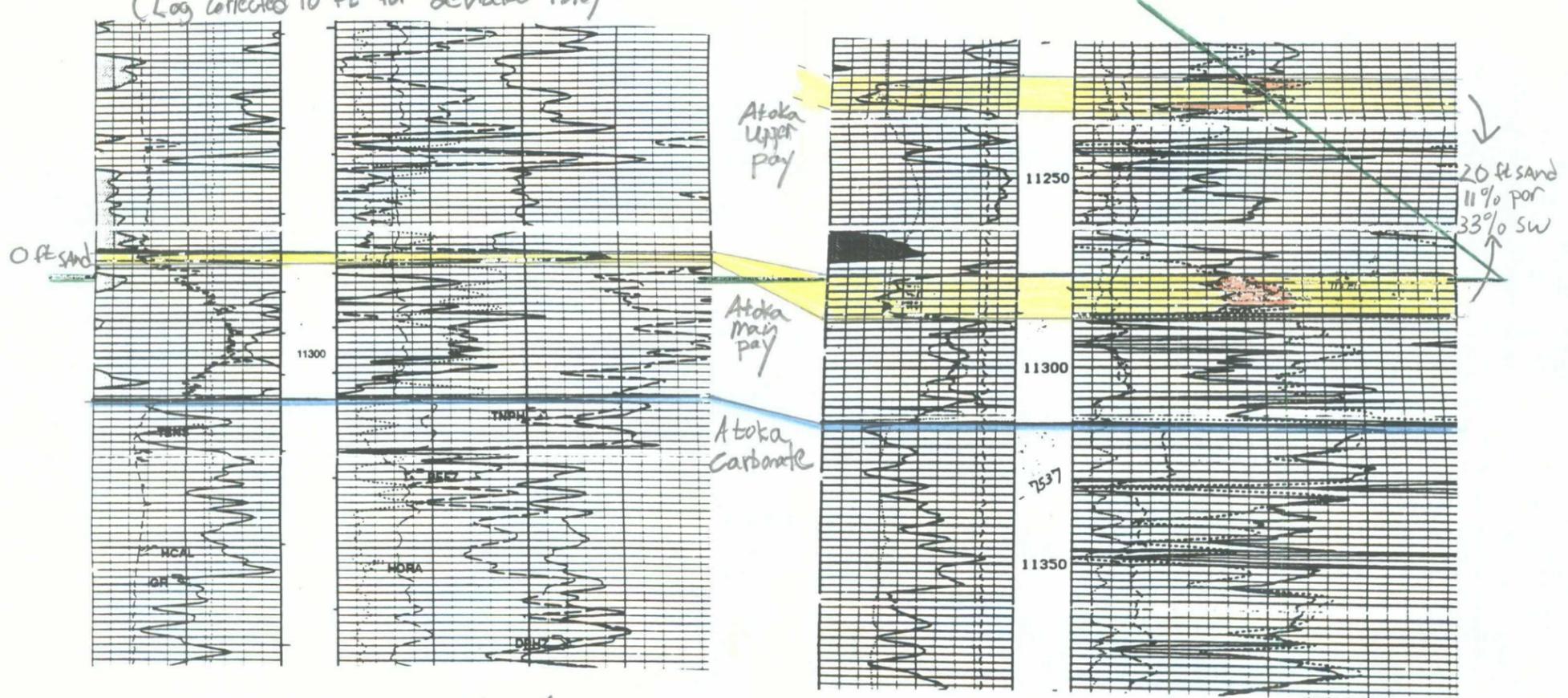
A'



A

OXY Panther Fed #1  
 Sec 33 17S 31E  
 KB 3761  
 (Log corrected 10 ft for deviated hole)

OXY Dow B "33" Fed #1  
 Sec 33 17S 31E  
 KB 3777



Geologic Section A-A'  
 Datum: -7500 ft



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division  
811 S. 1st Street  
Artesia, NM 88210

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5F

97 JAN 3 10 52

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT --" for such proposals

5. Lease Designation and Serial No. LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
DOW B 33 FEDERAL  
1

9. API Well No.  
30-015-27068

10. Field and Pool, Exploratory Area  
WILDCAT GRAYBURG

11. County or Parish, State  
EDDY, NEW MEXICO

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC. DEC 19 96

3. Address and Telephone No.  
205 E. Bender, HOBBS, NM 88240 397-0418

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17S Range 31E

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

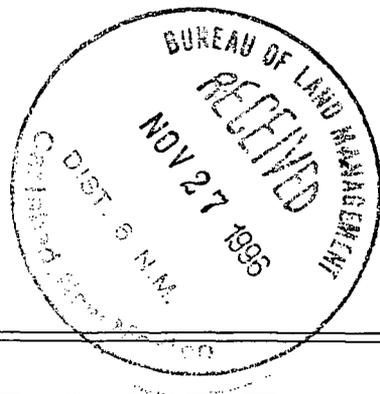
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Attlering Casing
	<input checked="" type="checkbox"/> OTHER: <u>BATTERY SITE</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

IN REFERENCE TO BLM LETTER 3162 (067); LC-029420-B DATED 11/7/96 CONCERNING FINAL ABANDONEMENT ON THE ABOVE WELL:  
THE WELL LOCATION OF THE ABOVE PLUGGED & ABANDONED WELL WILL SERVE AS THE BATTERY LOCATION FOR TEXACO EXPLORATION AND PRODUCTION INC.'S DOW B 33 FEDERAL #2 WELL LOCATED IN UNIT LETTER C, SECTION 33, T-17-S, R-32-E, EDDY COUNTY. THE ACCESS ROAD WILL CONTINUE TO SERVE AS AN ACCESS TO THE DOW B 33 FEDERAL TANK BATTERY.

AR



14. I hereby certify that the foregoing is true and correct

SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 11/25/96

TYPE OR PRINT NAME Monte C. Duncan

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division  
811 S. 1st Street  
Artesia, NM 88210-2834

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	Case Designation and Serial No. LC-029420-13
2. Name of Operator Texaco Exploration and Production Company, Inc.	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P. O. Box 3109, Midland, TX 79701 915-688-4816	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Unit Letter J 2180' FSL & 1980' FEL Sec 33 T-17-S R-31-E	8. Well Name and No. Dow "B" 33 Fed #1
	9. API Well No. 30-015-27068
	10. Field and Pool, or Exploratory Area Wildcat Grayburg
	11. County or Parish, State Eddy, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- 1) Load hole with mud
- 2) Spot 30 sx cement plug @ 5100'
- 3) Perforate 5 1/2 casing @ 3885' Unable to pump into perforations at 1200psi Called BLM in Carlsbad, NM got approval by Joe Lara to spot cement plug across perforation & tag spot 25 sx cement plug @ 3937' W.O.C. Tag cement top @ 3777'
- 4) Perforate 5 1/2 casing @ 1950' Squeeze W/65 sx W.O.C. Tag cement top @ 1830'
- 5) Perforate 5 1/2 casing @ 703' Circulate cement to surface between 5-1/2 & 8-5/8 W/160 sx W.O.C. Tag cement top @ 564'
- 6) Spot 15 sx cement from 100' to surface Set PA marker
- 7) Job Completed 10-09-96

Part ID-2  
11-8-96  
P+17

Approved as to plugging of the well term.  
Liability under bond is retained until  
surface restoration is completed.

14. I hereby certify that the foregoing is true and correct

Signed Raymond McDonald Title Supervisor Date 10-9-96

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER Date OCT 30 1996

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RESERVOIR DIVISION  
RECEIVED

UNITED STATES N.M. Oil Cons. Division  
DEPARTMENT OF THE INTERIOR 811 S. 1st Street  
BUREAU OF LAND MANAGEMENT Artesia, NM 88210-2834

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SEPT 10 1995 8 52  
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
LC-029420-B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

RECEIVED

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
Dow "B" 33 Federal #1

2. Name of Operator  
Texaco Exploration & Production, Inc.

9. API Well No.  
30-015-27068

3. Address and Telephone No.  
P.O. Box 3109, Midland, TX 79701

915-688-4816

10. Field and Pool, or Exploratory Area  
Wildcat Grayburg

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J 2180' from southline and 1980' from the east line  
Section 33, Township 17S, Range 31E

11. County or Parish, State  
Eddy, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
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	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

- Notify BLM of intent to plug and abandon well.
- MIRU pulling unit and P & A unit. N.U.B.O.P.
- TIHW/tubing and tag. Cement plug @ 7965'. Displace hole with 10# 35 uis. Mud.
- POOH to 5100' and spot 30 sacks class C cement. Plug from 5100-4900'.
- POOH to 3885 (San Andres) Perf. & squeeze at 3885' with 65 sack class C cement with packer at 3530'. (Note cal. T.O.C. at 4000') W.O.C. and tag.
- POOH to 1950' (Yates) Perf. & squeeze at 1950' with 65 sack class C cement with packer at 1800'. W.O.C. & tag.
- POOH to 703' (Rustler) Perf. and circulate cement to surface behind 5 1/2" casing at 150 sack class C cement with CICR or packer at 577'.
- Spot 15 sack of class C cement. 100' surface.
- Nipple down BOP and cutoff wellhead and install dryhole marker. Clean location up. Rig down and move off.

14. I hereby certify that the foregoing is true and correct

Signed David R. Glass

Title Operations Engineer

Date 8/22/96

(This space for Federal or State office use)

Approved by (ORIG. SCD) DAVID R. GLASS

Title OPERATIONS ENGINEER

Date AUG 23 1996

Conditions of approval, if any:

SEE ATTACHED FOR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONSERVATION DIVISION  
RECEIVED  
96 JAN 4 AM 8 52

OCD 57

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No.  
P.O. BOX 730, HOBBS, NM 88240 397-0418

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17S Range 31E

5. Lease Designation and Serial No.  
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6. If Indian, Alottee or Tribe Name

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8. Well Name and Number  
DOW "B" 33 FEDERAL  
1

9. API Well No.  
30-015-27068

10. Field and Pool, Exploratory Area  
WILDCAT GRAYBURG

11. County or Parish, State  
EDDY, NEW MEXICO

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

THIS IS THE SUBSEQUENT REPORT TO THE NOTICE OF INTENT TO PLUG BACK & RECOMPLETE THIS WELL FROM THE EDDY UNDESIGNATED GROUP 5 TO THE WILDCAT GRAYBURG. THE INTENT WAS APPROVED BY MR. JOE LARA OF THE BLM ON 10/24/95. 10/18/95 - 10/25/95

- MIRU PULLING UNIT. NU 3000# DOUBLE RAM BOP W/ 2 7/8" PIPE RAMS IN BOTTOM. TIH W/ 5 1/2" CIBP & SET @ 8000'. DUMPED 35' CMT ON TOP W/ BAILER (PBD 7965').
- TIH W/ 2 7/8" TBG TO 3800'. LOADED HOLE W/ 70 BBL 2% KCL. CLOSED RAMS & TSTD CIBP & CSG TO 3000#. HELD OK. TOH W/ TBG.
- RU WIRELINE W/ PACKOFF. TIH W/ GR-CCL-CBL & LOGGED FROM 4000'-3000'. HELD 1000 PSI ON CSG WHILE LOGGING. TOH W/ LOGGING EQUIPMENT.
- TIH W/ 4" CSG GUN W/ 120 DEG SPIRAL PHASING, 4 JSPF & PERFORATED THE FOLLOWING GRAYBURG SAND INTERVAL: 3688' - 3726' (26' NET, 104 HOLES).
- TIH W/ 5 1/2" TREATING PKR & SN ON 2 7/8" TBG. TESTED TBG INTO HOLE TO 5000#. SET PKR @ 3686'. LOAD BACKSIDE & TEST PKR TO 500#. ND BOP, NU 5000# FRAC TREE. RU FLOWBACK LINES OFF ADJUSTABLE CHOKE TO PIT.
- ACIDIZED GRAYBURG PERFS 3688'-3726' W/ 3000 GALLONS 15% NEFE HCL W/ BALLSEALERS. PLACED 500# ON BACKSIDE & MONITORED DURING JOB. FLUSHED TO BOTTOM PERF W/ 2% KCL. AIR = 7 BPM, MAX P = 3000#, MIN P = 1570#, ISIP = 1540#.
- SWAB TSTD WELL. ND TREE, NU BOP. RELEASED PKR, TOH W/ PKR. TIH WITH 2 7/8" TBG TO 4000'. LEFT WELL SI PENDING PLUG & ABANDONMENT PROCEDURE.

14. I hereby certify that the foregoing is true and correct

SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 11/17/95

TYPE OR PRINT NAME Monte C. Duncan

(This space for Federal or State office use)

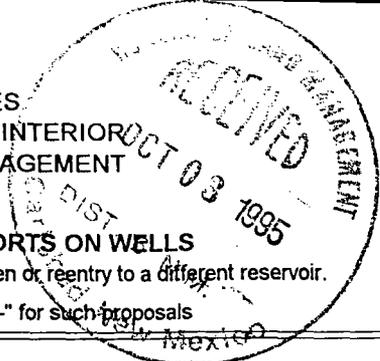
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5  
(June 1990) ON DIVISION  
RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



NM OIL CONS COMMISSION  
Drawer DD  
Artesia, NM 88210  
FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

NOV 17 AM 8 52

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17S Range 31E

5. Lease Designation and Serial No.  
LC-029420-B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
DOW "B" 33 FEDERAL

9. API Well No.  
30-015-27068

10. Field and Pool, Exploratory Area  
WILDCAT GRAYBURG

11. County or Parish, State  
EDDY, NEW MEXICO

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

BY THIS NOTICE OF INTENT, TEPI PROPOSES TO PLUG BACK & RECOMPLETE THIS WELL FROM THE EDDY UNDESIGNATED GROUP 5 TO THE WILDCAT GRAYBURG.

- MIRU PULLING UNIT. NU 3000# DOUBLE RAM BOP W/ 2 7/8" PIPE RAMS IN BOTTOM.
- TIH W/ 5 1/2" CIBP & SET @ +/- 8000'. DUMP 35' CMT ON TOP W/ BAILER (PROPOSED PBD 7965').
- TIH W/ 2 7/8" TBG TO 3800'. LOAD HOLE W/ 2% KCL. CLOSE PIPE RAMS & TEST CIBP & CSG TO 3000#. TOH W/ TBG.
- RU WIRELINE W/ PACKOFF. TIH W/ GR-CCL-CBL & LOG FROM 4000'-3000'. HOLD 1000 PSI ON CSG WHILE LOGGING. TOH W/ LOGGING EQUIPMENT.
- TIH W/ 4" CSG GUN W/ 120 DEG SPIRAL PHASING, 4 JSPF & PERFORATE THE FOLLOWING GRAYBURG SAND INTERVAL: 3688' - 3726' (26' NET, 104 HOLES).
- TIH W/ 5 1/2" TREATING PKR & SN ON 2 7/8" TBG. TEST TBG INTO HOLE TO 5000#. SET PKR @ +/- 3600'. LOAD BACKSIDE & TEST PKR TO 500#. ND BOP, NU 5000# FRAC TREE. RU FLOWBACK LINES OFF ADJUSTABLE CHOKE TO PIT.
- SWAB WELL DOWN. ACIDIZE GRAYBURG PERFS 3688'-3726' W/ 3000 GALLONS 15% NEFE HCL W/ BALLSEALERS. PUMP @ AN AVERAGE RATE OF 7 - 8 BPM W/ MAX PRESSURE NOT TO EXCEED 5000#. PLACE 500# ON BACKSIDE & MONITOR DURING JOB. FLUSH TO BOTTOM PERF W/ 2% KCL WATER. SD, GET ISIP, 5 MIN, 10 MIN, & 15 MIN SITP.
- FLOW/ SWAB TEST. ND TREE, NU BOP. RELEASE PKR, RUN THROUGH PERFS TO KNOCK OFF BALL SEALERS. RESET PKR @ +/- 3600'. LOAD BACKSIDE & TEST PKR TO 500#. ND BOP, NU FRAC TREE.
- FRAC GRAYBURG PERFS 3688'-3726' W/ 29,000 GALLONS 35# BORATE XLG 2% KCL CARRYING 125,000# 16/30 OTTOWA SAND @ AN AVERAGE RATE OF 25 BPM W/ MAX PRESSURE NOT TO EXCEED 5000#. PLACE 500# ON BACKSIDE & MONITOR THROUGHOUT JOB.
- FLOWBACK WELL @ LESS THAN 1 BPM. TIH W/ PRODUCTION EQUIPMENT. PLACE WELL ON PRODUCTION.

14. I hereby certify that the foregoing is true and correct

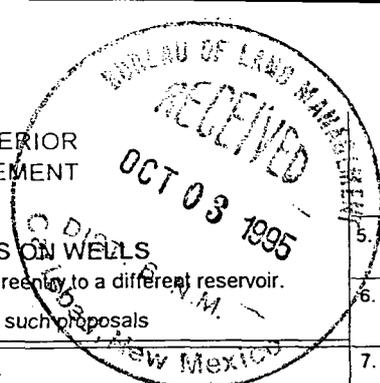
SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 10/2/95  
TYPE OR PRINT NAME Monte C. Duncan

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE [Signature] DATE 10/24/95  
CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



NM OIL CONS COMMISSION  
Drawer DD  
Artesia, NM 88210  
FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17S Range 31E

5. Lease Designation and Serial No.  
LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
DOW "B" 33 FEDERAL  
1

9. API Well No.  
30-015-27068

10. Field and Pool, Exploratory Area  
CEDAR LAKE, EAST MORROW

11. County or Parish, State  
EDDY, NEW MEXICO

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PRIOR TO THIS RECOMPLETION ATTEMPT TO SIDETRACK & DIRECTIONALLY DRILL TO A LOWER DEPTH, THE ABOVE WELL WAS CLASSIFIED AS AN OIL WELL IN THE EDDY UNDESIGNATED GROUP 5. THE INTENT FOR THIS RECOMPLETION ATTEMPT WAS APPROVED BY MR. DAVID GLASS OF THE BLM ON 7/26/95.

8/8/95 - 9/7/95

- MIRU. TIH w/ Whipstock assembly, tagged bottom @ 10,362'.
- Made up stripper & pups, picked up gyro & RIH, oriented tool face to 249 deg @ 10,362'. TOH w/ wireline.
- Made up swivel, shear setting stud @ 21K down. Cut window in casing @ 10,362'. Directionally drilled to 10,371'. Samples indicated 100% cement & iron. TOH w/ drilling assembly, laid down Whipstock assembly.
- Spotted Class H cement plug from 10,371' - 10,250'. (PBSD @ 10,250'). TOH w/ drilling equipment. Left well shut-in. Rigged down service unit.

(INTERNAL TEPI STATUS REMAINS SI-O)

*J. Lara*  
OCT 24 1995

14. I hereby certify that the foregoing is true and correct

SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 9/29/95

TYPE OR PRINT NAME Monte C. Duncan

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NEW OIL CONSERVATION COMMISSION  
DRAWER DD  
ARTESIA, NM 88210  
FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

RECEIVED  
OCT 12 11 00 AM '95  
CARLSON  
AREA HEADQUARTERS

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. P.O. Box 46510, Denver Colorado 80201-6510 (303)621-485

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17-S Range 31-E

5. Lease Designation and Serial No.  
LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
DOW 'B' 33 FEDERAL  
1

9. API Well No.  
30-015-27068

10. Field and Pool, Exploratory Area  
CEDAR LAKE, EAST MORROW

11. County or Parish, State  
EDDY, NM

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> OTHER: <u>COM. RE-ENTRY OPER.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

COMMERCIAL RE-ENTRY OPERATIONS: 08-08-95

DRILL OUT CEMENT RETAINER AT 8629' AND CEMENT THROUGH WOLFCAMP PERFS (8720' - 8730').  
PRESSURE TEST CASING TO 2000 PSIG.

TIH WITH SECTION MILL AND MILL SECTION IN CASING FROM 10,331' TO 10,371' (40').

TIH W/ 2-7/8" OPEN-ENDED TO 10,450'. SPOT A 50 SX CLASS H (17.5 PPG, 1.01 FT3/SX, 0.5% D-65) FROM 10,450' TO 10,200'.  
TOH.

TIH W/ 4-7/8" BIT, 6-3 1/2" DC'S ON 2-7/8" WORKSTRING. DRESS TOP OF CEMENT TO 10,341'.

*J. Love*  
OCT 24 1995

14. I hereby certify that the foregoing is true and correct

SIGNATURE C. P. Basham / SEH TITLE Drilling Operations Mgr. DATE 9/15/95

TYPE OR PRINT NAME C. P. Basham

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION

Drawer DD

Artesia, NM 88210

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

8. Well Name and Number

DOW 'B' 33 FEDERAL

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

9. API Well No.

30-015-27068

3. Address and Telephone No. P.O. Box 3109, Midland Texas 79702 688-4606

10. Field and Pool, Exploratory Area

CEDAR LAKE, EAST MORROW

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The

EAST Line Section 33 Township 17-S Range 31-E

11. County or Parish, State

EDDY, NM

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> OTHER:
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TEXACO PLANS TO SIDETRACK THIS WELL AT 10341' AND DIRECTIONALLY DRILL TO A TOTAL DEPTH OF 12373' MD/ 11850' TVD TO AN ORTHODOX BOTTOMHOLE LOCATION AT APPROXIMATELY 1815' FSL AND 2145' FWL (50' radius). SEE ATTACHED FORM C-102 AND PROPOSED DEVIATION PROGRAM. ALSO ATTACHED IS COPY OF THE APPLICATION TO THE NMCD TO DIRECTIONALLY DRILL THIS WELL.

A PULLING UNIT WITH A CLOSED MUD SYSTEM WILL BE USED. NO ADDITIONAL SURFACE DISTURBANCE WILL BE REQUIRED. A 5000 psi DUAL RAM HYDRAULIC BOP WILL BE USED. NO ABNORMAL TEMPERATURES OR HAZARDOUS GASES ARE ANTICIPATED. PRESSURES ARE NORMAL FOR THE AREA WHICH MEANS A +/- 8.7 - 9.6 PPG EMW PORE PRESSURE IN THE PENNSYLVANIAN.

MUD PROGRAM: 10000' TO TD, BRINE WATER/MUD. WEIGHT: 9.0 - 9.5. VISCOSITY: 32-35.

CASING PROGRAM: DRILL 4 3/4" HOLE. RUN 3 1/2", 9.3#, L-80, 8rd/EUE LINER TO 12373'.

CEMENT PROGRAM: 200 SACKS CLASS H (15.6PPG, 1.18 CF/S, 5.2 GW/S).

LOGGING PROGRAM: GR-CNL SURVEY WILL BE RUN.

SUBJECT TO  
LIKE APPROVAL  
BY STATE

RECEIVED  
JUN 27 10 49 AM 1995  
OIL CONS. DIV.

14. I hereby certify that the foregoing is true and correct.

SIGNATURE C. Wade Howard TITLE Eng. Assistant DATE 6/26/95

TYPE OR PRINT NAME C. Wade Howard

APPROVED BY [Signature] TITLE LINEER DATE 6/25 1995

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-102  
 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

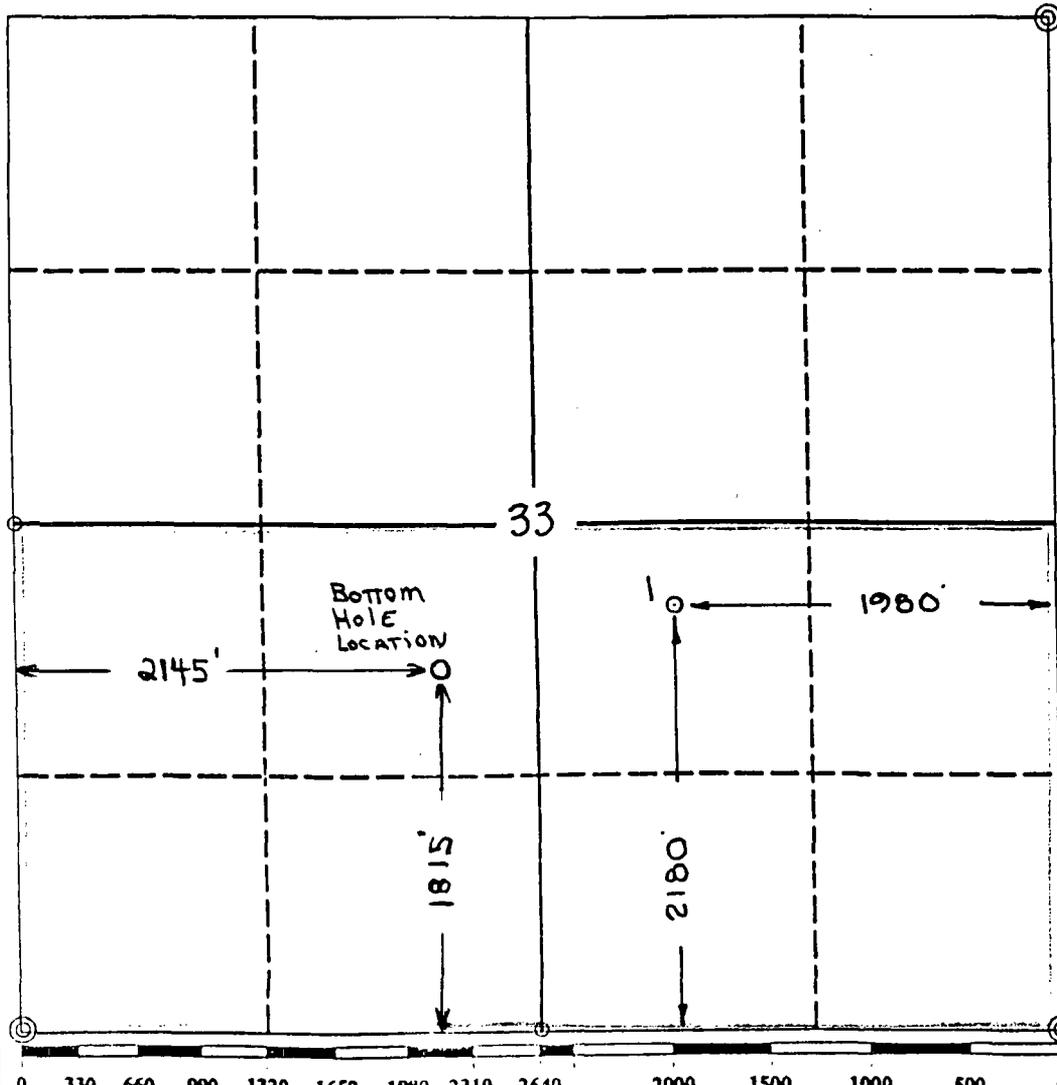
Operator TEXACO EXPLORATION AND PRODUCTION INC.			Lease DOW "B" 33 FEDERAL		Well No. 1
Unit Letter J	Section 33	Township 17-South	Range 31-East	County EDDY	
Actual Footage Location of Well: 2180 feet from the South line and 1980 feet from the East line					
Ground level Elev. 3760	Producing Formation Morrow		Pool Cedar Lake, East Morrow		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
 

Yes  No If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature: *Royce D. Mariott*  
 Printed Name: Royce D. Mariott  
 Position: Division Surveyor  
 Company: Texaco Expl. & Prod. Inc.  
 Date: June 17, 1992

**SURVEYOR CERTIFICATION**

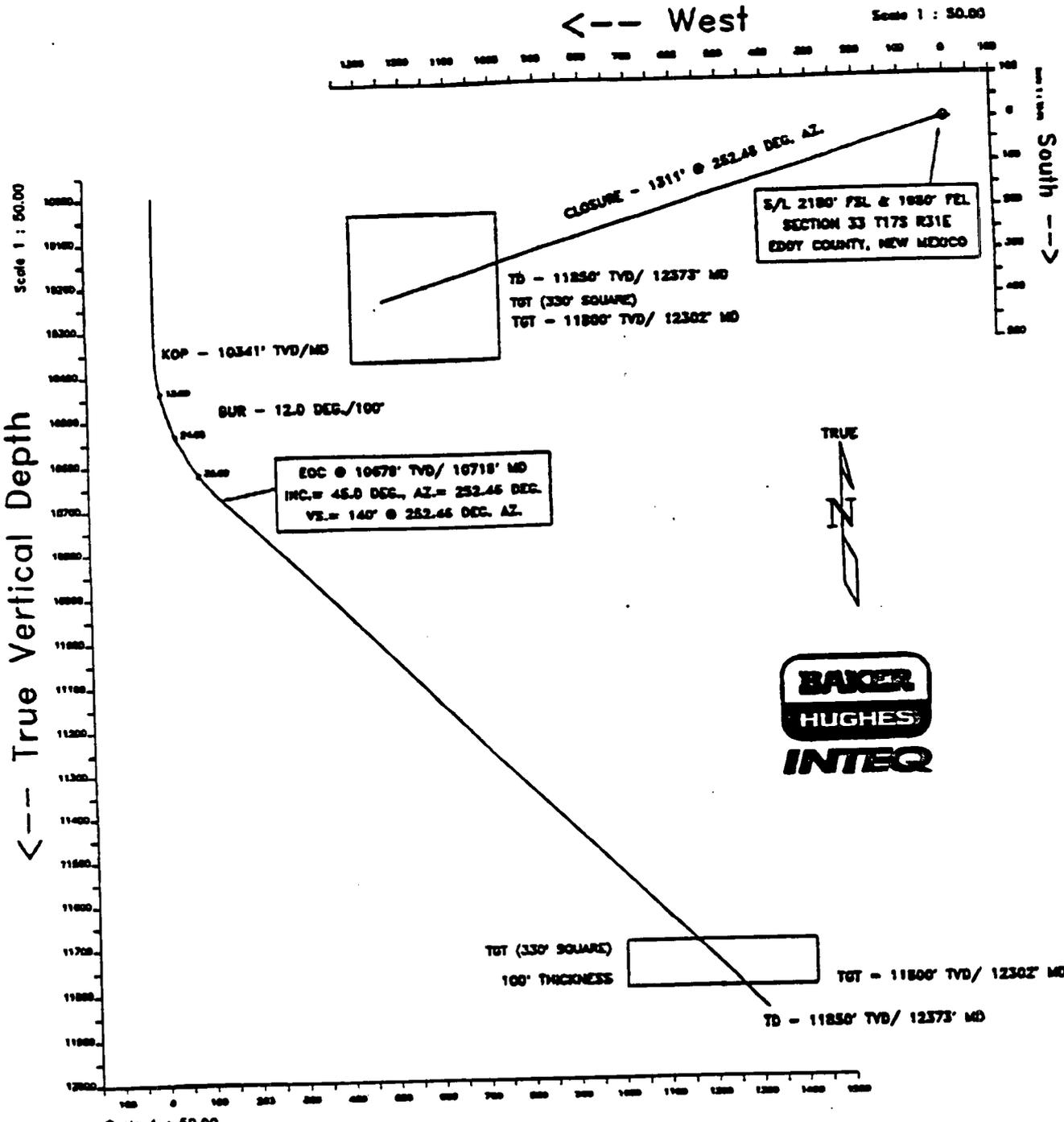
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: June 16, 1992  
 Signature & Seal of Professional Surveyor: *John S. Piper*  
 Certificate No.: 7254 John S. Piper

# TEXACO E&P INC.

Structure : DOW B33 FED #1      Well : DB33F #1  
 Field : #222      Location : EDDY COUNTY, NM.

WELL PROFILE DATA							
---	---	---	---	---	---	---	---
TD	11850	12373	MD				
TGT	11800	12302	MD				
TD	10678	16718	MD				
INC.	45.0		DEC.	252.46	DEC.		
VR.	140		DEC.	252.46	DEC.		
TD	10341		MD				
BUR	12.0		DEC./100'				



Scale 1 : 50.00  
 Vertical Section on 252.46 azimuth with reference 0.00 N, 0.00 E from slot #1

TEXACO B&P INC.  
DOW B33 FED #1

DB33P #1  
slot #1  
#222

EDDY COUNTY, NM.

P R O P O S A L L I S T I N G

by  
Baker Hughes INTEQ

Your ref : 12/100 BUR  
Our ref : prop908  
License :

Date printed : 8-Jun-95  
Date created : 8-Jun-95  
Last revised : 8-Jun-95

Field is centred on 0.000,0.000,999.00000,N  
Structure is centred on n33 30 0.000,e104 0 0

Slot location is n33 30 0.000,w104 0 0.000  
slot Grid coordinates are N 1413039.762, E 881409.569  
slot local coordinates are 0.00 N, 0.00 E  
Reference North is Grid North

TEXACO B&P INC.  
 DOW B33 FED #1, DB33F #1  
 #2222, EDDY COUNTY, NM.

PROPOSAL LISTING Page 1  
 Your ref : 12/100 BUR  
 Last revised : 8-Jun-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	252.46	0.00	0.00 N 0.00 E	0.00	0.00
500.00	0.00	252.46	500.00	0.00 N 0.00 E	0.00	0.00
1000.00	0.00	252.46	1000.00	0.00 N 0.00 E	0.00	0.00
1500.00	0.00	252.46	1500.00	0.00 N 0.00 E	0.00	0.00
2000.00	0.00	252.46	2000.00	0.00 N 0.00 E	0.00	0.00
2500.00	0.00	252.46	2500.00	0.00 N 0.00 E	0.00	0.00
3000.00	0.00	252.46	3000.00	0.00 N 0.00 E	0.00	0.00
3500.00	0.00	252.46	3500.00	0.00 N 0.00 E	0.00	0.00
4000.00	0.00	252.46	4000.00	0.00 N 0.00 E	0.00	0.00
4500.00	0.00	252.46	4500.00	0.00 N 0.00 E	0.00	0.00
5000.00	0.00	252.46	5000.00	0.00 N 0.00 E	0.00	0.00
5500.00	0.00	252.46	5500.00	0.00 N 0.00 E	0.00	0.00
6000.00	0.00	252.46	6000.00	0.00 N 0.00 E	0.00	0.00
6500.00	0.00	252.46	6500.00	0.00 N 0.00 E	0.00	0.00
7000.00	0.00	252.46	7000.00	0.00 N 0.00 E	0.00	0.00
7500.00	0.00	252.46	7500.00	0.00 N 0.00 E	0.00	0.00
8000.00	0.00	252.46	8000.00	0.00 N 0.00 E	0.00	0.00
8500.00	0.00	252.46	8500.00	0.00 N 0.00 E	0.00	0.00
9000.00	0.00	252.46	9000.00	0.00 N 0.00 E	0.00	0.00
9500.00	0.00	252.46	9500.00	0.00 N 0.00 E	0.00	0.00
10000.00	0.00	252.46	10000.00	0.00 N 0.00 E	0.00	0.00
10340.93	0.00	252.46	10340.93	0.00 N 0.00 E	0.00	0.00
10440.93	12.00	252.46	10440.20	3.14 S 9.95 W	12.00	10.43
10540.93	24.00	252.46	10535.13	12.44 S 39.36 W	12.00	41.28
10640.93	36.00	252.46	10621.58	27.48 S 86.95 W	12.00	91.19

All data is in feet unless otherwise stated.  
 Coordinates from slot #1 and TWD from wellhead.  
 Vertical section is from wellhead on azimuth 252.46 degrees.  
 Declination is 0.00 degrees, Convergence is -1.89 degrees.  
 Calculation uses the minimum curvature method.  
 Presented by Baker Hughes INTEQ

TEXACO E&P INC.  
 DOW B33 FED #1, DB33F #1  
 #222, RDDY COUNTY, NH.

PROPOSAL LISTING Page 2  
 Your ref : 12/100 BUR  
 Last revised : 8-Jun-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
10715.93	45.00	252.46	10678.55	42.14 S	12.00	139.85
11000.00	45.00	252.46	10879.42	102.67 S	0.00	340.71
11500.00	45.00	252.46	11232.97	209.21 S	0.00	694.27
12000.00	45.00	252.46	11586.52	315.75 S	0.00	1047.82
12372.61	45.00	252.46	11850.00	395.14 S	0.00	1311.30

All data is in feet unless otherwise stated.  
 Coordinates from slot #1 and TVD from wellhead.  
 Vertical section is from wellhead on azimuth 252.46 degrees.  
 Declination is 0.00 degrees, Convergence is -1.89 degrees.  
 Calculation uses the minimum curvature method.  
 Presented by Baker Hughes INTEQ



Texaco Exploration and Production Inc  
Midland Producing Division

500 N. Loraine  
Midland, TX 79701

P. O. Box 370  
Midland, TX 79701

June 15, 1995

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling  
Dow "B" -33- Federal Well No. 1  
Cedar Lake, East Morrow Field  
Eddy 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 sidetrack and directionally drill the captioned well to an orthodox bottomhole location.

This well is no longer economical to produce because of high water production. Plans are to sidetrack to well at +/-10,341' and directionally drill to a TVD of 11,850' at a proposed bottomhole location of 2145' FWL and 1815' FSL of Section 33, T-17-S, R-31-E. Productive formation should be encountered in the morrow formation resulting in a commercial well. Attached for your information is a copy of the proposed deviation program.

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

Attached is Form C-102 showing the surface location and proposed bottomhole location for this well. 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: BLM, P. O. Box 1778, Carlsbad, NM 88220

Attachments

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

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-102  
 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

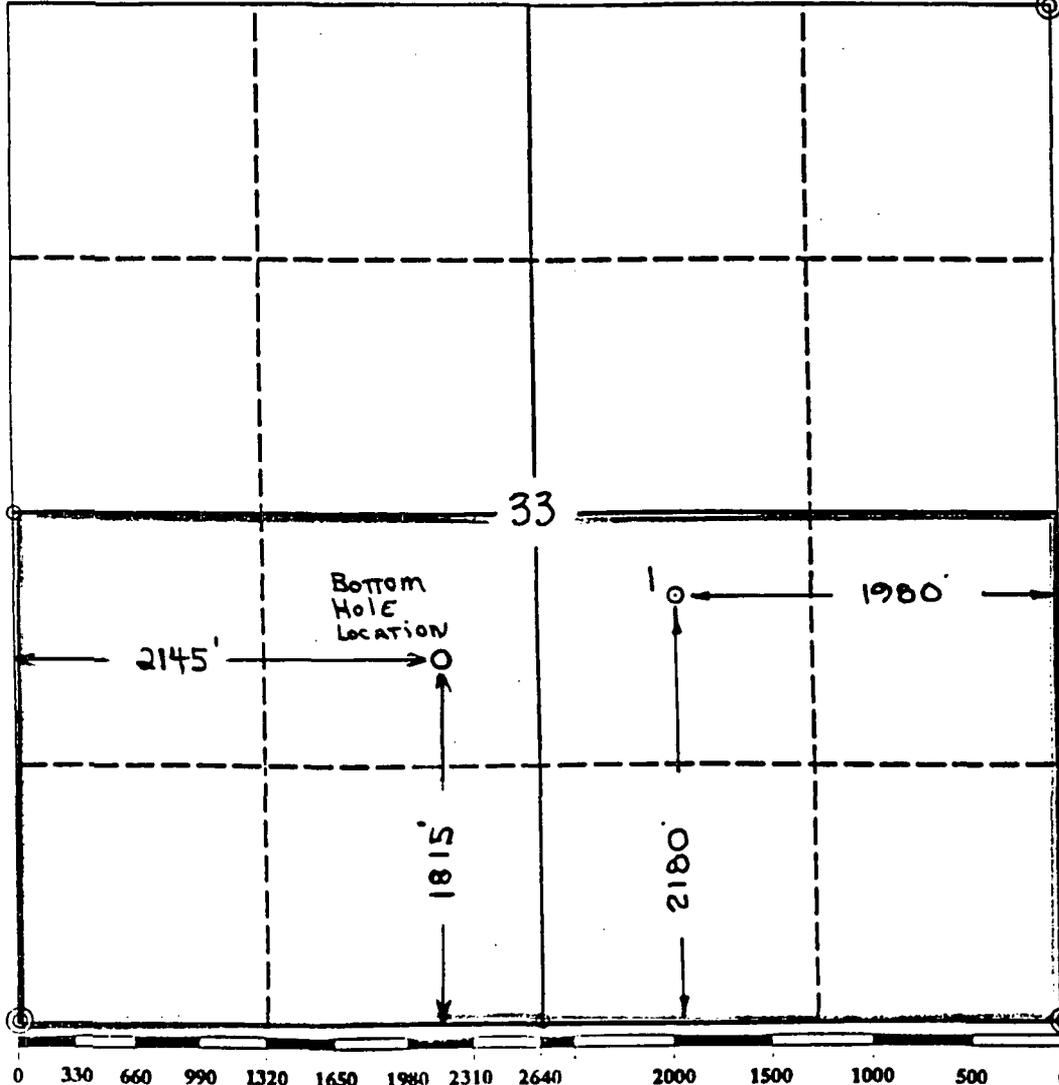
Operator TEXACO EXPLORATION AND PRODUCTION INC.			Lease DOW "B" 33 FEDERAL		Well No. 1
Unit Letter J	Section 33	Township 17-South	Range 31-East	County RDDY	
Actual Footage Location of Well: 2180 feet from the South line and 1980 feet from the East line					
Ground level Elev. 3760	Producing Formation MORROW		Pool Cedar Lake, East Morrow		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
 

Yes  No If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



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

Signature: *Royce D. Mariott*  
 Printed Name: Royce D. Mariott  
 Position: Division Surveyor  
 Company: Texaco Expl. & Prod. Inc.  
 Date: June 17, 1992

**SURVEYOR CERTIFICATION**  
 I hereby certify that the well location shown on this plat was plotted from field notes 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: June 16, 1992  
 Signature & Seal of Professional Surveyor: *John S. Piper*  
 Certificate No.: 7254 John S. Piper

○ = Found 1" Iron Pipe with GLO Brass Cap      ⊙ = Found 2 or 3" Iron Pipe with GLO Brass Cap



Texas Exploration and Production Division  
Mining Production Division

10 - 11-1995  
MAY 1995

10 - 11-1995  
MAY 1995

June 13, 1995

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling

Dow "B" -33- Federal Well No. 1  
Sec. 33, T-17-S, R-31-E  
Cedar Lake, East Morrow Field  
Eddy 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 sidetrack and 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. Wade Howard*

C. W. Howard  
Engineer's Assistant

CWH: cwh

File

**WAIVER APPROVED:**

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

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

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

OFFSET OPERATOR'S LIST  
DOW "B" -33- FEDERAL WELL No. 1  
EDDY COUNTY, NEW MEXICO

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

Coastal Management Corporation  
P. O. Box 2720  
Midland, Texas 79702

Atlantic Richfield Company  
P. O. Box 1610  
Midland, Texas 79702

Anadarko Petroleum Coproration  
P. O. Box 2497  
Midland, Texas 79702

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

Harvey E. Yates Company  
Spiral, Inc.  
Explorers Petroleum Corporation  
Heyco Employees, Ltd.  
P. O. Box 1933  
Roswell, New Mexico 88202

Yates Energy Coproration  
Yates-McMinn Drilling Venture 1984-1  
1010 Sunwest Centre  
Roswell, New Mexico 88202

Jalapeno Corporation  
P. O. Box 1608  
Albuquerque, New Mexico 87103

William A. Hudson/Roxie  
William A. Hudson, III, Trustee  
Edward R. Hudson, Jr., Trustee  
616 Texas St.  
Fort Worth, Texas 76102

Mary Hudson Ard, Trustee  
Edward R. Hudson Trust 4  
4808 Westridge  
Fort Worth, Texas 76116

**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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Coastal Mgmt. Corp.  
P.O. Box 2720  
Midland, TX 79702

4a. Article Number  
P 188 919 626

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

7. Date of Delivery

5. Signature (Addressee)

6. Signature (Agent)  
*Shelley Jackson*

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

PS Form 3811, December 1991    U.S. GPO: 1993-322-714    **DOMESTIC RETURN RECEIPT**

is your RETURN ADDRESS completed on the reverse side?

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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Atlantic Richfield Co.  
P. O. Box 1610  
Midland, Texas 79702

4a. Article Number  
P 188 919 627

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

7. Date of Delivery  
JUN 14 1995

5. Signature (Addressee)  
*[Signature]*

6. Signature (Agent)

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

PS Form 3811, December 1991    U.S. GPO: 1993-322-714    **DOMESTIC RETURN RECEIPT**

is your RETURN ADDRESS completed on the reverse side?

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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Anadarko Petroleum Corp.  
P. O. Box 2497  
Midland, TX 79702

4a. Article Number  
P 188 919 628

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

7. Date of Delivery  
JUN 14 1995

5. Signature (Addressee)

6. Signature (Agent)  
*[Signature]*

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

PS Form 3811, December 1991    U.S. GPO: 1993-322-714    **DOMESTIC RETURN RECEIPT**

is your RETURN ADDRESS completed on the reverse side?

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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Marathon Oil Company  
P. O. Box 552  
Midland, Texas 79702

4a. Article Number  
P 188 919 629

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

7. Date of Delivery  
JUN 1 1991

5. Signature (Addressee)

6. Signature (Agent)

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

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

**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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Harvey E. Yates Company  
Spiral, Inc.  
Explorers Pet. Corp.  
Heyco Employees, Ltd.  
P. O. Box 1933  
Roswell, New Mexico 88202

4a. Article Number  
P 188 919 630

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

7. Date of Delivery  
14  
1991

5. Signature (Addressee)

6. Signature (Agent)  
HARVEY E. YATES

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

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

**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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
Yates Energy Corporation  
Yates-McMinn Drilling Venture  
1010 Sunwest Centre 1948-1  
Roswell, New Mexico 88202

4a. Article Number  
P 188 919 631

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

7. Date of Delivery  
JUN 14 1991

5. Signature (Addressee)

6. Signature (Agent)  
HARVEY E. YATES

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

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. 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:  
JALAPENO CORPORATION  
P.O. BOX 1608  
ALBUQUERQUE, NM

4a. Article Number:  
E188-919-638

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

5. Signature (Addressee)

6. Signature (Agent)  
*Janette Atkin*

7. Date of Delivery

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

PS Form 3811, December 1991 \*U.S. G.P.O. 1989-362-714 **DOMESTIC RETURN RECEIPT**

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)  
2.  Restricted Delivery (Extra charge)

3. Article Addressed to:  
William A. Hudson/Roxie  
William A. Hudson, III, Trustee  
Edward R. Hudson, Jr., Trustee  
616 Texas Street  
Fort Worth, Texas 76102

4. Article Number:  
P 046 660 730

Type of Service:  
 Registered  Insured  
 Certified  COD  
 Express Mail  Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee  
X

6. Signature Agent  
X *W. Charles*

7. Date of Delivery  
JUN 15 1995

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

PS Form 3811, Apr. 1989 \*U.S.G.P.O. 1989-238-815 **DOMESTIC RETURN RECEIPT**

**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:  
Mary Hudson Ard, Trustee  
Edward R. Hudson Trust 4  
4808 Westridge  
Fort Worth, TX 76116

4a. Article Number:  
P 188 919 634

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

5. Signature (Addressee)

6. Signature (Agent)  
*Crazy Azura*

7. Date of Delivery  
6-22-95

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

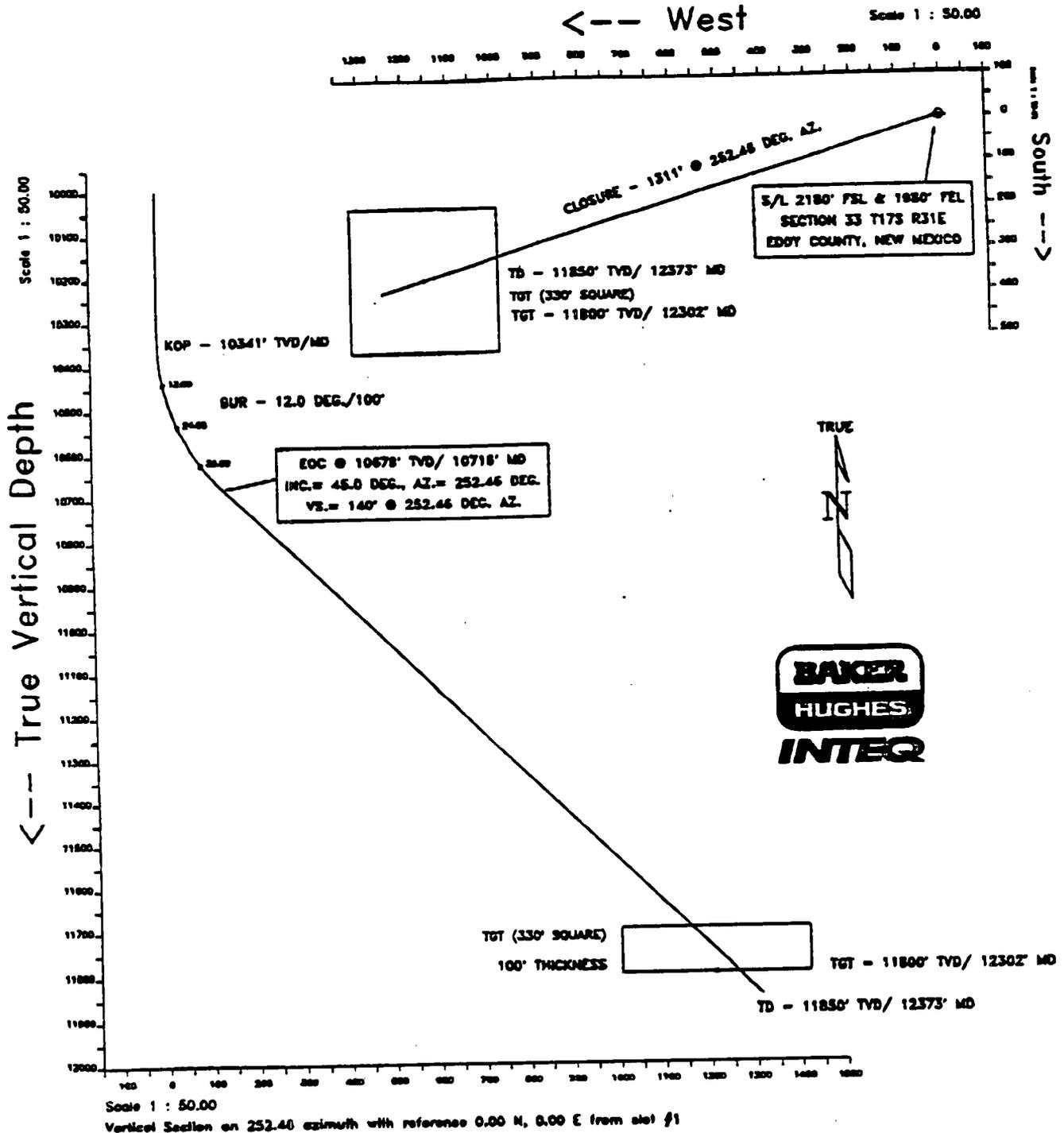
PS Form 3811, December 1991 \*U.S. G.P.O. 1989-362-714 **DOMESTIC RETURN RECEIPT**

# TEXACO E&P INC.

Structure : DOW B33 FED #1      Well : DB33F #1  
 Field : #222      Location : EDDY COUNTY, NM.

----- WELL PROFILE DATA -----

Point	DB	IN	BY	TD	INCH	Est	Log/MD
To bit	0	0.00	200.00	0	0	0	0.00
TOP	10341	0.00	200.00	10341	0	0	0.00
End of Hole	10718	45.00	252.46	10718	-45	-138	13.00
Total	12373	45.00	252.46	11890	-300	-1380	0.00



TEXACO E&P INC.  
DOW B33 FED #1

DB33F #1  
slot #1  
#222

EDDY COUNTY, NM.

P R O P O S A L L I S T I N G

by  
Baker Hughes INTEQ

Your ref : 12/100 BUR  
Our ref : prop908  
License :

Date printed : 8-Jun-95  
Date created : 8-Jun-95  
Last revised : 8-Jun-95

Field is centred on 0.000,0.000,999.00000,N  
Structure is centred on n33 30 0.000,e104 0 0

Slot location is n33 30 0.000,w104 0 0.000  
slot Grid coordinates are N 1413039.762, E 881409.569  
Slot local coordinates are 0.00 N 0.00 E  
Reference North is Grid North

TEXACO E&P INC.  
 DOW B33 FED #1, DB33F #1  
 #222, EDDY COUNTY, NM.

PROPOSAL LISTING Page 1  
 Your ref: 12/100 BUR  
 Last revised: 8-Jun-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	252.46	0.00	0.00 N	0.00 E	0.00
500.00	0.00	252.46	500.00	0.00 N	0.00 E	0.00
1000.00	0.00	252.46	1000.00	0.00 N	0.00 E	0.00
1500.00	0.00	252.46	1500.00	0.00 N	0.00 E	0.00
2000.00	0.00	252.46	2000.00	0.00 N	0.00 E	0.00
2500.00	0.00	252.46	2500.00	0.00 N	0.00 E	0.00
3000.00	0.00	252.46	3000.00	0.00 N	0.00 E	0.00
3500.00	0.00	252.46	3500.00	0.00 N	0.00 E	0.00
4000.00	0.00	252.46	4000.00	0.00 N	0.00 E	0.00
4500.00	0.00	252.46	4500.00	0.00 N	0.00 E	0.00
5000.00	0.00	252.46	5000.00	0.00 N	0.00 E	0.00
5500.00	0.00	252.46	5500.00	0.00 N	0.00 E	0.00
6000.00	0.00	252.46	6000.00	0.00 N	0.00 E	0.00
6500.00	0.00	252.46	6500.00	0.00 N	0.00 E	0.00
7000.00	0.00	252.46	7000.00	0.00 N	0.00 E	0.00
7500.00	0.00	252.46	7500.00	0.00 N	0.00 E	0.00
8000.00	0.00	252.46	8000.00	0.00 N	0.00 E	0.00
8500.00	0.00	252.46	8500.00	0.00 N	0.00 E	0.00
9000.00	0.00	252.46	9000.00	0.00 N	0.00 E	0.00
9500.00	0.00	252.46	9500.00	0.00 N	0.00 E	0.00
10000.00	0.00	252.46	10000.00	0.00 N	0.00 E	0.00
10340.93	0.00	252.46	10340.93	0.00 N	0.00 E	0.00
10440.93	12.00	252.46	10440.20	3.14 S	9.95 W	10.43
10540.93	24.00	252.46	10535.13	12.44 S	39.36 W	41.28
10640.93	36.00	252.46	10621.58	27.48 S	86.95 W	91.19

All data is in feet unless otherwise stated.  
 Coordinates from slot #1 and TVD from wellhead.  
 Vertical section is from wellhead on azimuth 252.46 degrees.  
 Declination is 0.00 degrees, Convergence is -1.89 degrees.  
 Calculation uses the minimum curvature method.  
 Presented by Baker Hughes INTEQ

PROPOSAL LISTING Page 2  
 Your ref : 12/100 BUR  
 Last revised : 8-Jun-95

TEXACO E&P INC.  
 DOW B33 FED #1, DB33F #1  
 #222, EDDY COUNTY, NM.

Measured Depth	Inclin. Degrees	Asimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
10715.93	45.00	252.46	10678.55	42.14 S 133.34 W	12.00	139.85
11000.00	45.00	252.46	10879.42	102.67 S 324.88 W	0.00	340.71
11500.00	45.00	252.46	11232.97	209.21 S 662.00 W	0.00	694.27
12000.00	45.00	252.46	11586.52	315.75 S 999.12 W	0.00	1047.82
12372.61	45.00	252.46	11850.00	395.14 S 1250.34 W	0.00	1311.30

All data is in feet unless otherwise stated.  
 Coordinates from slot #1 and TVD from wellhead.  
 Vertical section is from wellhead on azimuth 252.46 degrees.  
 Declination is 0.00 degrees, Convergence is -1.89 degrees.  
 Calculation uses the minimum curvature method.  
 Presented by Baker Hughes INTEQ

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION  
Drawer DD  
Artesia, NM 88210

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT --" for such proposals

5. Lease Designation and Serial No.  
LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

8. Well Name and Number  
DOW "B" 33 FEDERAL

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

9. API Well No.  
30-015-27068

3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17S Range 31E

10. Field and Pool, Exploratory Area  
EDDY UNDESIGNATED GROUP 5

11. County or Parish, State  
EDDY, NEW MEXICO

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PRIOR TO THIS WORKOVER, THE ABOVE WELL WAS CLASSIFIED AS A GAS WELL IN THE CEDAR LAKE EAST, MORROW ZONE. THE FOLLOWING PROCEDURE EXPLAINS HOW THE WELL WAS PLUGGED BACK & RECOMPLETED AS AN OIL WELL IN THE EDDY UNDESIGNATED GROUP 5. THE INTENT FOR THIS WORKOVER WAS VERBALLY APPROVED BY MR. JOE LARA OF THE BLM ON 5/5/95.

5/8/95 - 5/21/95

- MIRU. Install BOP. Pulled tubing & packer assembly from 11,495'.
- TIH w/ CIBP. Tagged packer body & set CIBP immediately on top @ 11,495'. Capped with 35' of cmt, PBDT @ 11,460'.
- Rigged up perforators with high-pressure lubricator and grease injector. Perforated through 2-7/8" tubing with 4" casing gun from 8720' - 8730' with 2.50" holes per foot (11 feet, 22 holes).
- TIH w/ on/off tool with 1.875" profile nipple & packer. Tested tubing to 7000# on trip in. Set packer @ 8660' w/ 15,000# compression. Swabbed fluid down to 8600'.
- Installed tree saver. Acidized perforations from 8720'-8730' w/ 400 gals 15% NEFE HCL. Max P = 5060#, AIR = 3 BPM. Hooked up pump to backside and held 1000# pressure throughout job. Flushed to bottom perf with 53 bbls KCL water. TOH w/ pkr. Swabbed load back and tested well.
- Set cmt retainer @ 8629'. Sqzd perforations from 8720'-8730' w/ 125 sxs class H cmt. Max P = 3000#, AIR = 2.4 BPM. Reversed out 12 sxs. TOH w/ production equipment. Well shut-in pending further evaluation.

14. I hereby certify that the foregoing is true and correct

SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 6/22/95

TYPE OR PRINT NAME Monte C. Duncan

(This space for Federal or State Office use)

APPROVED BY David A. Elser TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION  
Drawer DD  
Artesia, NM 88210  
FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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95 JUN 25 10 08 52

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17S Range 31E

5. Lease Designation and Serial No.  
LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
DOW "B" 33 FEDERAL

1

9. API Well No.  
30-015-27068

10. Field and Pool, Exploratory Area  
UNDESIGNATED WOLFCAMP

11. County or Parish, State  
EDDY, NEW MEXICO

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> OTHER:
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

THIS WELL IS CURRENTLY COMPLETED IN THE CEDAR LAKE MORROW ZONE. THE FOLLOWING PROCEDURE IS FOR PLUGGING BACK AND RECOMPLETING IN THE UNDESIGNATED WOLFCAMP.

- MIRU. Install BOP. Pull tubing & packer assembly from 11,495'.
- TIH w/ CIBP. Tag packer body and set CIBP immediately on top. Cap with a minimum of 35' of cement.
- TIH w/ on/off tool with 1.875" profile nipple & packer. Test tubing to 7000# on the trip in. Hang packer @ approximately 8650'. Set w/ 15,000# compression.
- Circulate packer fluid around backside; approximately 250 barrels to circulate around. Set packer. Swab fluid to 8000'.
- RU perforators with high-pressure lubricator and grease injector. Perforate through 2-7/8" tubing with 1-11/16" Dynastrip gun. Perforate two 0.45" holes per foot from 8720' - 8730' (11 feet, 22 holes)
- Install tree saver. Acidize perforations w/ 400 gals 15% NEFE HCL @ 3 to 4 bpm w/ an anticipated pressure of 5800 psi. Hook up pump to backside & hold 1000# pressure throughout job. Flush to bottom perf + 2 bbls with KCl water (53 bbls, 2226 gals). TOH w/ pkr.
- Swab well in until flowing and return well to production.

RECEIVED VERBAL APPROVAL FROM MR. JOE LARA WITH THE BLM ON 5/5/95.

RECEIVED  
MAY 9 10 30 AM '95  
CARL AREA

RECEIVED

OIL CON. DIV.  
DIST. 2

verbal approval on 5/5/95

14. I hereby certify that the foregoing is true and correct

SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 5/5/95

TYPE OR PRINT NAME Monte C. Duncan

(This space for Federal or State office use)

APPROVED BY JOE G. LARA TITLE PETROLEUM ENGINEER DATE 6/13/95

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC 10 - Artesia

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Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

95 APR 19 PM 8 52

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

2. Name of Operator  
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0426

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Unit Letter J : 2180 Feet From The SOUTH Line and 1980 Feet From The  
EAST Line Section 33 Township 17S Range 31E

5. Lease Designation and Serial No.  
LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number  
Dow "B" 33 Federal

1

9. API Well No.  
30 015 27068

10. Field and Pool, Exploratory Area  
Cedar Lake Morrow East

11. County or Parish, State  
Eddy County , New Mexico

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> OTHER: <u>set inflatable bridge plug</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

10/24/94: Set inflatable bridge plug @ 11770'.

10/25/94: Capped bridge plug with 4' cement (new PBTD @ 11762').

10/26/94: Swabbed. Would not flow.

ACCEPTED FOR RECORD  
J. Jara  
APR 6 1995

BUREAU OF LAND MANAGEMENT  
RECEIVED  
MAR 14 1995  
DIST 6 N.M.

14. I hereby certify that the foregoing is true and correct.

SIGNATURE [Signature] TITLE Engineering Assistant DATE 3/13/95

TYPE OR PRINT NAME Darrell J. Carriger

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT  
 OIL SUBMIT IN DUPLICATE  
 (See other instructions on reverse side)

Form approved. 0  
 Budget Bureau No: 1004-0137  
 Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL  GAS WELL  CORY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESER.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
 TEXACO EXPLORATION & PRODUCTION INC.

3. ADDRESS OF OPERATOR  
 P. O. Box 3109, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface 2180' FSL & 1980' FEL, UNIT LETTER J  
 At top prod. interval reported below SAME  
 At total depth SAME  
 API # \_\_\_\_\_

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED 07-22-92  
 12. COUNTY OR PARISH EDDY 13. STATE NM

15. DATE SPUDDED 08-05-92 16. DATE T.D. REACHED 09-17-92 17. DATE COMPL. (Ready to prod.) 10-04-92 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* GR-3760', KB-3777' 19. ELEV. CASING HEAD 3760'

20. TOTAL DEPTH, MD & TVD 12050' 21. PLUG BACK T.D., MD & TVD 11900' 22. IF MULTIPLE COMPL. HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS 0 - 12050' CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\* 11614' - 11777': MORROW  
 25. WAS DIRECTIONAL SURVEY MADE YES

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-DLL-MSFL-CAL, GR-CSL-CAST, GR-CCL-DSN-SDL  
 27. WAS WELL CORED NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4	42#	653'	14 3/4	400 SX, TOC @ 100' BY TS. 1 INCHED TO SURFACE W/190 SX	
8 5/8	32#	5000'	11	1770 SX, CRC. 115 SX	
5 1/2	17#	12050'	7 7/8	SEE ATTACHED SUNDRY NOTICE	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8		11495'

31. PERFORATION RECORD (Interval, size, and number)  
 11614' - 11618', 11718' - 11722', 11742' - 11758',  
 11770' - 11777' W/4 JSPF ( 168 HOLES)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11618' - 11777'	ACID - 500 GAL 7 1/2% NEFE

33. PRODUCTION

DATE OF FIRST PRODUCTION 10-05-92	PRODUCTION METHOD (Flowing, gas lift, pumping- size and type of pump) FLOWING	WELL STATUS (Producing or shut-in) SHUT IN					
DATE OF TEST 10-13-92	HOURS TESTED 20	CHOKE SIZE 11/64	PROD'N FOR TEST PERIOD _____	OIL - BBL. 57	GAS - MCF. 1580	WATER - BBL. 0	GAS - OIL RATIO 27719
FLOW. TUBING PRESS. 2500	CASING PRESSURE _____	CALCULATED 24 HOUR RATE _____	OIL - BBL. 68	GAS - MCF. 5268 CAOF	WATER - BBL. 0	OIL GRAVITY - API (CORR.) 54.4	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) VENTED FOR TEST PURPOSES ONLY  
 TEST WITNESSED BY M. D. ELMORE

35. LIST OF ATTACHMENTS  
 DEVIATION SURVEY, SUNDRY NOTICE

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED CP Basham/Roc TITLE DRILLING OPERATIONS MANAGER DATE 10-27-92

\*(See instructions and spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and content: s thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries).

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
MORROW	11614'	11777'	

38. GEOLOGIC MARKERS

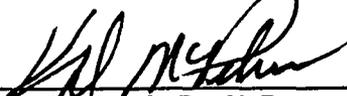
NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
RUSTLER	627'	
YATES	1988'	
SEVEN RIVERS	2362'	
BOWERS SAND	2778'	
QUEEN	2994'	
PENROSE	3178'	
GRAYBURG	3970'	
SAN ANDRES	3787'	
BONE SPRING	6880'	
2ND SAND	7281'	
3RD SAND	8484'	
WOLFCAMP	8648'	
PENNSYLVANIAN	10040'	
STRAWN	10821'	
ATOKA	10986'	
MORROW	11911'	
MISSISSIPPIAN	11910'	

WELL NAME AND NUMBER: Dow "B" 33 Federal #1  
 LOCATION: Sec. 33, T17S, R31E, Eddy County, New Mexico  
 OPERATOR: Texaco Exploration & Production, Inc.  
 DRILLING CONTRACTOR: ZIADRIL, Inc.

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:

<u>DEGREES and DEPTH</u>		<u>DEGREES and DEPTH</u>		<u>DEGREES and DEPTH</u>	
.75	191'	1.75	5,996'	2.00	7,761'
.25	370'	3.25	6,465'	2.25	7,855'
.25	570'	4.25	6,559'	2.25	7,950'
.25	1,052'	4.75	6,621'	2.00	8,045'
.50	1,424'	4.50	6,654'	2.50	8,139'
1.00	1,799'	4.50	6,685'	2.25	8,231'
1.25	2,195'	4.25	6,748'	2.25	8,325'
.50	2,392'	5.00	6,810'	2.00	8,439'
.50	2,790'	5.50	6,873'	2.00	8,539'
.75	3,270'	5.00	6,936'	2.00	8,665'
1.00	3,642'	3.00	7,038'	2.00	8,911'
.75	4,054'	1.50	7,133'	1.50	9,221'
.75	4,429'	2.00	7,260'	1.25	9,721'
.75	4,825'	2.50	7,384'	1.75	10,220'
.75	5,000'	1.75	7,479'	.50	10,711'
1.25	5,463'	2.50	7,574'	.75	11,211'
2.00	5,904'	2.00	7,668'	.25	11,710'
				1.50	12,050'

Drilling Contractor: ZIADRIL, Inc.

By:   
 Kenneth D. McPeters

Subscribed and sworn to before me this 22nd day of September, 1992.

My Commission Expires:

September 13, 1996

  
 Notary Public  
 Lea County, New Mexico

Form 3160-5,  
 (June 1990)

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

FORM APPROVED  
 Budget Bureau No. 1004-0135  
 Expires: March 31, 1993

RECEIVED  
 '94 JUN 13 10 58 AM '94  
 SUNDRY NOTICES AND REPORTS ON WELLS  
 Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
 Use "APPLICATION FOR PERMIT --" for such proposals

Fed  
 5. State Oil / Gas Lease No. LC-029420-B

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well:  OIL WELL  GAS WELL  OTHER

8. Well Name and Number  
 DOW "B" 33 FEDERAL

2. Name of Operator  
 TEXACO EXPLORATION & PRODUCTION INC. JUN 14 '94  
 O. C. D. ARTESIA, OFFICE

#1, #2

3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0431

9. API Well No. 30-015-27068 #1  
 30-015-27675 #2

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 Unit Letter \_\_\_\_\_ Feet From The \_\_\_\_\_ Line and \_\_\_\_\_ Feet From The \_\_\_\_\_  
 Line Section 33 Township 17-S Range 31-E

10. Field and Pool, Exploratory Area  
 CEDAR LAKE MORROW EAST

11. County or Parish, State  
 EDDY, NEW MEXICO

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Attering Casing
	<input checked="" type="checkbox"/> OTHER: change meth. of water disposal
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

ALL WATER PRODUCED FROM THE DOW "B" FEDERAL LEASE WILL BE HAULED TO THE SKELLY UNIT TO BE USED AS INJECTANT AT THE SKELLY UNIT.

- A- PRODUCING FORMATION: CEDAR LAKE MORROW EAST
- B- AMOUNT OF WATER PRODUCED PER DAY: APPROXIMATELY 2 BWPD
- C- CURRENT WATER ANALYSIS ATTACHED
- D- WATER STORAGE: A SEPARATE 210 BARREL FIBERGLASS TANK IS USED FOR WELLS #1 AND #2.
- E- WATER MOVED BY: THE WATER IS HAULED BY EITHER ROWLAND TRUCKING OR I AND W TRANSPORTATION.
- F- INJECTION SYSTEM TO WHICH THE WATER IS HAULED:

SKELLY UNIT WATER FLOOD  
 LEGAL: SEC. 22, TOWN. 17S, RANGE 31E  
 OWNER: TEXACO EXPLORATION AND PRODUCTION

RECEIVED  
 APR 8 12 03 PM '94  
 OIL AREA

14. I hereby certify that the foregoing is true and correct

SIGNATURE Darrell J. Carriger TITLE Engineering Assistant DATE 4/5/94

TYPE OR PRINT NAME Darrell J. Carriger

(This space for Federal or State office use)

APPROVED BY (ORIG. SGD.) JOE G. LARA TITLE PETROLEUM ENGINEER DATE 6/10/94

CONDITIONS OF APPROVAL, IF ANY: See attached

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



BUREAU OF LAND MANAGEMENT  
CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.

Form 3165  
(June 1990)

RECEIVED  
FEB 28 AM 8 39  
UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL, CONS COMMISSION  
Drawer DD  
Artesia, NM 88210

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993  
5. Lease Designation and Serial No.  
LC-029420-B  
6. If Indian, Allottee or Tribe Name  
7. If Unit or CA, Agreement Designation  
8. Well Name and No.  
DOW B 33 FEDERAL #1  
9. API Well No.  
30-015-27068  
10. Field and Pool, or Exploratory Area  
CEDAR LAKE MORROW EAST  
11. County or Parish, State  
EDDY COUNTY, NEW MEXICO

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well  Gas Well  Other  
2. Name of Operator  
Texaco Exploration and Production Inc.  
3. Address and Telephone No.  
P.O. Box 730, Hobbs, NM 88240 505-393-7191  
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
UNIT LETTER J, 2180' FSL & 1980' FEL  
SEC. 33, T-17-S, R-31-E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>METHOD OF WATER DISPOSAL</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

IN REPLY TO NOTICE OF INCIDENTS OF NONCOMPLIANCE NUMBER NM-067-93-DE-1069, INSPECTOR DON EARLY  
DETAILS OF WATER DISPOSAL:

- (A) PRODUCING FORMATION: Cedar Lake Morrow East
- (B) AMOUNT OF WATER PRODUCED PER DAY: App 1 barrel per day
- (C) CURRENT WATER ANALYSIS ATTACHED
- (D) WATER STORAGE: 210 barrel fiberglass tank
- (E) WATER MOVED BY: Hauled by Rowland Trucking to approved salt water disposal wells.
- (F) DISPOSAL WELLS TO WHICH WATER IS TRUCKED:

DISPOSAL WELL	ID#	OWNER	LEGAL
Myrtle Myre SWD	SWD-391	Ray Westall	Sec 32, T-21-S, R-27-E
RA State SWD	SWD-188	Rowland Trucking	Sec 31, T-18-S, R-36-E

(G) PITS: No pits at any of these SWD'S

**APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED**

14. I hereby certify that the foregoing is true and correct  
Signed [Signature] Title ENGINEER'S ASSISTANT Date 7-21-93

(This space for Federal or State office use)  
Approved by [Signature] Title Supv. PET Date 2/16/94  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



**OIL CONSERVATION DIVISION**

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

OIL CONSERVATION DIVISION P.O. Box 2088

RECEIVED Santa Fe, New Mexico 87504-2088

RECEIVED  
NOV 24 1992

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

**REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS**

Operator Texaco Exploration and Production Inc.		Well API No. 30-015-27068
Address P. O. Box 730 Hobbs, New Mexico 88240-2528		
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)		
New Well <input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

If change of operator give name and address of previous operator

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name DOW "B" 33 FEDERAL	Well No. 1	Pool Name, Including Formation WILDCAT MORROW	Kind of Lease State, Federal or Fee FEDERAL	Lease No. LC-029420-B
Location Unit Letter <u>J</u> : <u>2180</u> Feet From The <u>SOUTH</u> Line and <u>1980</u> Feet From The <u>EAST</u> Line Section <u>33</u> Township <u>17-S</u> Range <u>31-E</u> , <u>NMPM</u> , <u>EDDY</u> County				

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**

Name of Authorized Transporter of Oil TTTI <input checked="" type="checkbox"/>	or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) P.O. Box 6196 MIDLAND, TEXAS 79711				
Name of Authorized Transporter of Casinghead Gas CONOCO INC. <input checked="" type="checkbox"/>	or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) 10 DESTA DRIVE 100 WEST MIDLAND, TEXAS 79705				
If well produces oil or liquids, give location of tanks.	Unit J	Sec. 33	Twp. 17S	Rge. 31E	Is gas actually connected? NO	When ?

If this production is commingled with that from any other lease or pool, give commingling order number:

**IV. COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well	Gas Well X	New Well X	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded 8-5-92	Date Compl. Ready to Prod. 10-4-92		Total Depth 12050'			P.B.T.D. 11900'		
Elevations (DF, RKB, RT, GR, etc.) GR-3760', KB-3777'	Name of Producing Formation MORROW		Top Oil/Gas Pay 11614'			Tubing Depth 11495'		
Perforations 11614-11618, 11718-11722, 11742-11758, 11770-11777 W/4 JSPF 168 HLES						Depth Casing Shoe 12050'		
<b>TUBING, CASING AND CEMENTING RECORD</b>								
HOLE SIZE 14 3/4	CASING & TUBING SIZE 11 3/4		DEPTH SET 653'			SACKS CEMENT 400 SX, TOC @ 100' BY TS		
11	8 5/8		5000'			1770 SX. (CIRC)		
7 7/8	5 1/2		12050'			2300 SX, TOC @ 4000'		

**V. TEST DATA AND REQUEST FOR ALLOWABLE**

**OIL WELL** (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

**GAS WELL**

Actual Prod. Test - MCF/D 1580 MCF	Length of Test 20 HRS	Bbls. Condensate/MMCF 57	Gravity of Condensate 54.4
Testing Method (pilot, back pr.) FLOWING	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size 11/64

**VI. OPERATOR CERTIFICATE OF COMPLIANCE**

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 Monte C. Duncan  
Printed Name MONTE C. DUNCAN Title ENGR. ASST.  
Date 11-20-92 Telephone No. 505-393-7191

**OIL CONSERVATION DIVISION**

Date Approved DEC 30 1992

By ORIGINAL SIGNED BY

MIKE WILLIAMS

Title SUPERVISOR, DISTRICT II

**INSTRUCTIONS:** This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit in duplicate to appropriate district office See Rule 401 & Rule 1122

NOV 1 1992  
C.C.O.  
APPROVED

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

Tight hole -  
Essentially  
Requested

**MULTIPOINT AND ONE POINT BACKPRESSURE TEST FOR GAS WELL**

Operator <b>TEXACO, INC.</b>				Lease or Unit Name <b>DOW B 33 FED.</b>			
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date <b>10-13-92</b>		Well No. <b>1</b>	
Completion Date <b>10-5-92</b>		Total Depth <b>12050</b>		Plug Back TD <b>11900</b>		Elevation	
Csg. Size <b>5 1/2</b>		Wt. d <b>17</b>		Set At <b>12050</b>		Perforations: From: <b>11614</b> To: <b>11777</b>	
Tbg. Size <b>2 7/8</b>		Wt. d <b>6.5</b>		Set At <b>2.441</b>		Perforations: From: To:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>single</b>				Packer Set At <b>11493</b>		Formation <b>Morrow</b>	
Producing Thru tbg.		Reservoir Temp. °F <b>188.9 @ 11493</b>		Mean Annual Temp. °F <b>60</b>		Baro. Press - P <sub>a</sub> <b>13.2</b>	
L <b>11493</b>		H <b>11493</b>		Gg <b>.658</b>		% CO <sub>2</sub> <b>.54</b>	
				% N <sub>2</sub> <b>.52</b>		% H <sub>2</sub> S	
				Prover		Meter Run <b>4.026</b>	
						Taps Flg.	

FLOW DATA					TUBING DATA			CASING DATA			Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F		
SI						2948		Pkr.		72 hr.	
1.	4 X 1.500		540	2.6	105	2793		"		1 hr.	
2.	4 X 1.500		558	13.00	77	2521		"		1 hr.	
3.	4 X 1.500		558	20.00	55	2405		"		1 hr.	
4.	4 X 1.500		558	56.00	70	2113		"		1 hr.	
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1.	10.84	37.93	553.2	.9594	1.233	1.044	508
2.	10.84	86.17	571.2	.9840	1.233	1.058	1199
3.	10.84	106.88	571.2	1.005	1.233	1.068	1533
4.	10.84	178.85	571.2	.9905	1.233	1.058	2505
5.							

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.82	565	1.50	.918	289	
2.	.85	537	1.743	.893	53.0 @ 60°	Deg.
3.	.85	515	1.37	.876	Specific Gravity Separator Gas .658	XXXXXXXXXX
4.	.85	530	1.41	.893	Specific Gravity Flowing Fluid XXXXX	6 Mix. = .760
5.					Critical Pressure 670 P.S.I.A.	669 P.S.I.A.
					Critical Temperature 375 R	382 R

$P_c = 2961.2$       $P_c^2 = 8768.7$

NO.	P <sub>i</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>
1.		2806.8	7878.2	890.5
2.		2537.8	6440.6	2328.1
3.		2424.4	5877.5	2891.2
4.		2144.4	4598.6	4170.1
5.				

1)  $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.103}{}$      2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.103}{}$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{5.268}{}$

Absolute Open Flow **5,268** Mcfd @ 15.025     Angle of Slope  $\theta$  **45**     Slope, n **1.000**

Remarks: **Well made 8.3 BBLs 53.0 @ 60° Condensate during test.**

Approved By Division \_\_\_\_\_ Conducted By: **PRO WELL TESTERS**     Calculated By: **B.M.**     Checked By: **B.M.**

SUGGESTED FIELD DATA SHEET (Not Required To File)

Type Test  INITIAL  ANNUAL  SPECIAL Test Date 10-13-92 Lease No. or Serial No.

Company TEXACO, INC. Connection Allottee

Field Reservoir Morrow Location Unit

Completion Date 10-5-92 Total Depth 12050 Plug Back TO 11900 Elevation Farm or Lease Name DOW B 33 FED.

Csg. Size 5 1/2 Wt. 17 d Set At 12050 Perforation From 11614 To 11777 Well No. 1

Tbg. Size 2 7/8 Wt. 6.5 d 2.441 Set At 11493 Perforation: From To Sec. 33 Twp-dk. 17 Rge. 31

Type Completion (Describe) Single Packer Set At County or Parish Eddy State N.M.

Producing thru Tbg. Reservoir Temp. F Mean Annual Temp. F Base Press. - P<sub>g</sub> Prover Meter Run 4.026

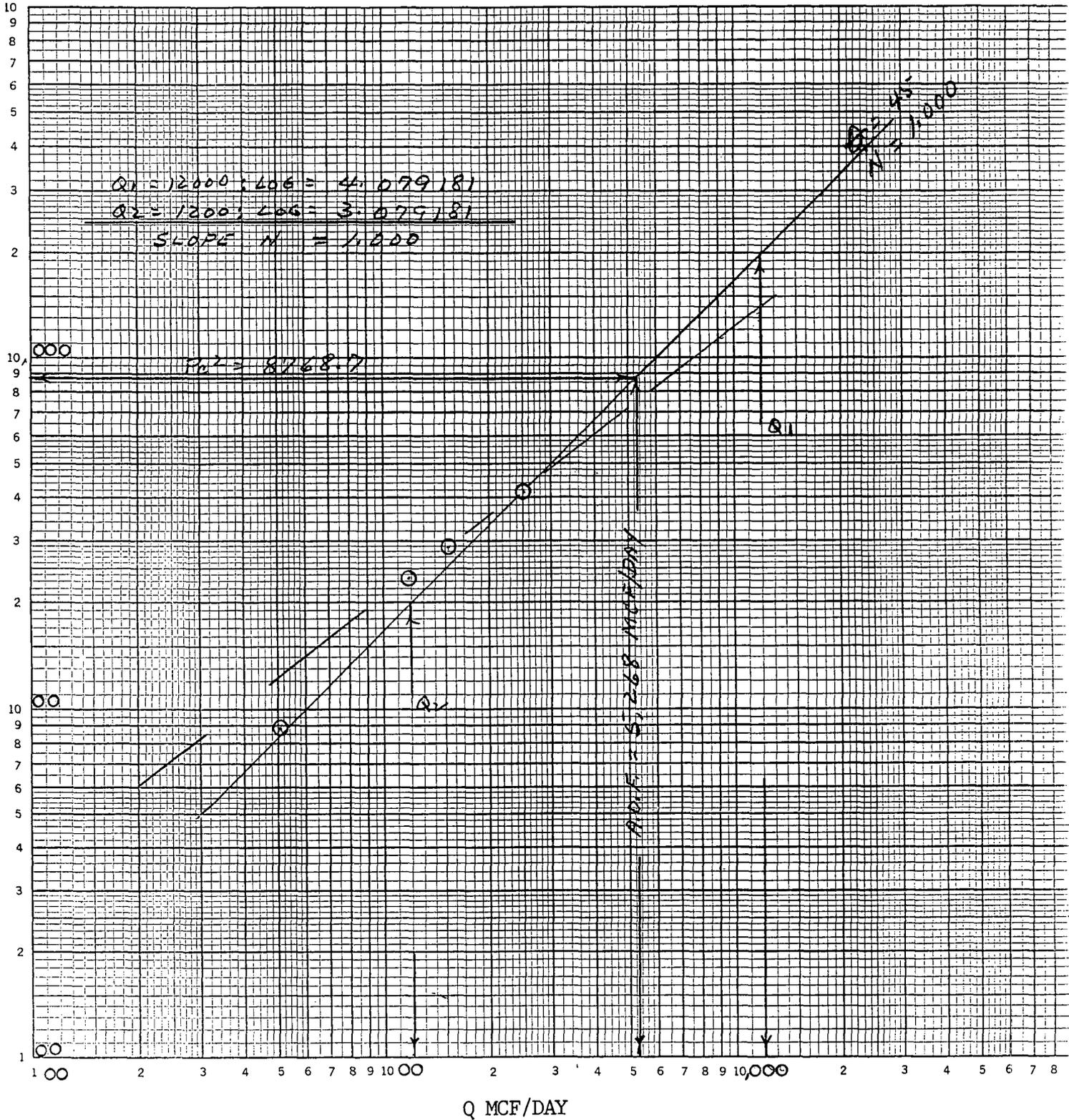
L 11493 H 11493 G<sub>g</sub> .658 % CO<sub>2</sub> .54 % N<sub>2</sub> .52 % H<sub>2</sub>S

DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS (Include liquid production data Type-A, P.I. Gravity-Amount)
		Tbg. Psig.	Csg. Psig.	Temp. F	Pressure Psig.	Diff.	Temp. F	Orifice	
SIP	72	2948	Pkr.						-10 Chart 100 - 1500#
1st	1	2793	"		540	2.6	105	1.500	464
2nd	1	2521	"		558	13.00	77		1111
3rd	1	2405	"		558	20.00	55		1387
4th	1	2113	"		558	56.00	70		2311
									8.3 BBLs Cond.
									53.0 @ 60°

TEXACO, INC.  
 Dow B. 33 Federal, Well #1  
 33-17-31  
 Eddy County, New Mexico  
 10-13-92

$P_c^2 - P_w^2$  (thsnds)  $\times 67400$

LOGARITHMIC 3 X 3 CYCLES  
 KEUFFEL & ESSER CO. MADE IN U.S.A.



Q MCF/DAY



# Laboratory Services

1331 Tasker Drive  
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Texaco E & P Inc.  
Attention: Mr. Richard Lemmons  
P. O. Box 730  
Hobbs, New Mexico 88240

SAMPLE IDENTIFICATION: Dow B 33 Federal #1  
COMPANY: TEPI  
LEASE:  
PLANT:

SAMPLE DATA:	DATE SAMPLED:	10-13-92 12:25	PGAS (XX)	LIQUID ( )
	ANALYSIS DATE:	12-13-92	SAMPLED BY:	Richard Lemmons
	PRESSURE - PSIG	558.00	ANALYSIS BY:	Vickie Walker
	SAMPLE TEMP. °F	60.00		
	ATMOS. TEMP. °F	78.00		
REMARKS:	H2S = 0			

## COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Oxygen	(O2)			
Hydrogen Sulfide	(H2S)	0.00		
Nitrogen	(N2)	0.52		
Carbon Dioxide	(CO2)	0.54		
Methane	(C1)	85.80		
Ethane	(C2)	6.40	2.241	
Propane	(C3)	3.24	0.892	
I-Butane	(IC4)	0.36	0.117	
N-Butane	(NC4)	0.70	0.220	
I-Pentane	(IC5)	0.15	0.055	
N-Pentane	(NC5)	0.13	0.047	
Hexane	(C6+)	0.16	0.067	
Heptanes Plus	(C7)	0.00	0.000	
		<u>100.00</u>	<u>3.639</u>	
BTU/CU.FT. - DRY		1150	MOLECULAR WT	19.0598
AT 14.650 DRY		1147		
AT 14.650 WET		1127	26# GASOLINE -	0.242
AT 15.025 DRY		1176		
AT 15.025 WET		1156		
SPECIFIC GRAVITY -				
CALCULATED		0.658		
MEASURED		0.000		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING  
OFFICE FOR NUMBER  
OF COPIES REQUIRED  
(Other instructions on  
reverse side)

30-015-27068  
BLM Roswell District  
Modified Form No.  
NMO60-3160-2

SIL CONSERVATION  
LEASE DESIGNATION AND SERIAL NO.  
LC-029420-B

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  WILDCAT  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 TEXACO EXPLORATION AND PRODUCTION INC./

3a. AREA CODE & PHONE NO.  
 (915) 688-4620

3. ADDRESS OF OPERATOR  
 P. O. Box 3109, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 2180' FSL & 1980' FEL, UNIT LETTER: J  
 At proposed prod. zone  
 SAME

5. LEASE DESIGNATION AND SERIAL NO.  
 LC-029420-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 254

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 DOW 'B' 33 FEDERAL

9. WELL NO.  
 1

10. FIELD AND POOL, OR WILDCAT  
 WILDCAT *MADRAW*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SEC. 33, T-17-S, R-31-E

12. COUNTY OR PARISH  
 EDDY

13. STATE  
 NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 4 MILES EAST OF LOCO HILLS, NEW MEXICO

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 1980'

16. NO. OF ACRES IN LEASE  
 720

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 320/40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 1st WELL

19. PROPOSED DEPTH  
 12,100'

20. ROTARY OR CABLE TOOLS  
 ROTARY

21. ELEVATIONS (Show Whether DF, RT, GR, ETC.)  
 GR-3760'

22. APPROX. DATE WORK WILL START\*  
 JULY 20, 1992

23. PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
20	16	65#	WC-40	PE	40'	REDIMIX
14 3/4	11 3/4	42#	WC-40	ST&C	675' CIRCULATE	1450 SACKS
11	8 5/8	32#	J-55 & S-80	LT&C	5000' (tie back)	1450 SACKS
7 7/8	5 1/2	17#	J-55 & L-80	LT&C	12100' (+6 above Wolfcamp or BS)	2650 SACKS

CEMENTING PROGRAM: CONDUCTOR - REDIMIX.  
 SURFACE CASING - 450 SACKS CLASS C w/ 2% GEL & 2% CaCl2 (14.1ppg, 1.51f3/s, 7.6gw/s).  
 INTERMEDIATE CASING - 1200 SACKS 35/65 POZ CLASS H w/ 6% GEL, 5% SALT & 1/4# FLOCELE (12.8ppg, 1.87f3/s, 9.9gw/s). F/B 250 SACKS CLASS H w/ 2% CaCl2 (15.6ppg, 1.19f3/s, 5.2gw/s).  
 PRODUCTION CASING - 1st STAGE: 850 SACKS 50/50 POZ CLASS H w/ 2% GEL, 5% SALT & 1/4# FLOCELE (14.2ppg, 1.28f3/s, 5.75gw/s) F/B 500 SACKS CLASS H (15.6ppg, 1.18f3/s, 5.2gw/s). DV TOOL @ 8700. 2nd STAGE: 1000 SACKS 50/50 POZ CLASS H w/ 2% GEL, 5% SALT & 1/4# FLOCELE (14.2ppg, 1.28f3/s, 5.75gw/s). F/B 300 SACKS CLASS H (15.6ppg, 1.18f3/s, 5.2gw/s).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED C.P. Basham / cwh TITLE DRILLING OPERATIONS MANAGER DATE 06-25-92

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY Ron Duvette TITLE \_\_\_\_\_ DATE 7-22-92

CONDITIONS OF APPROVAL, IF ANY:  
 APPROVAL SUBJECT TO  
 GENERAL REQUIREMENTS AND  
 SPECIAL STIPULATIONS

\*See Instructions On Reverse Side

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

**OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

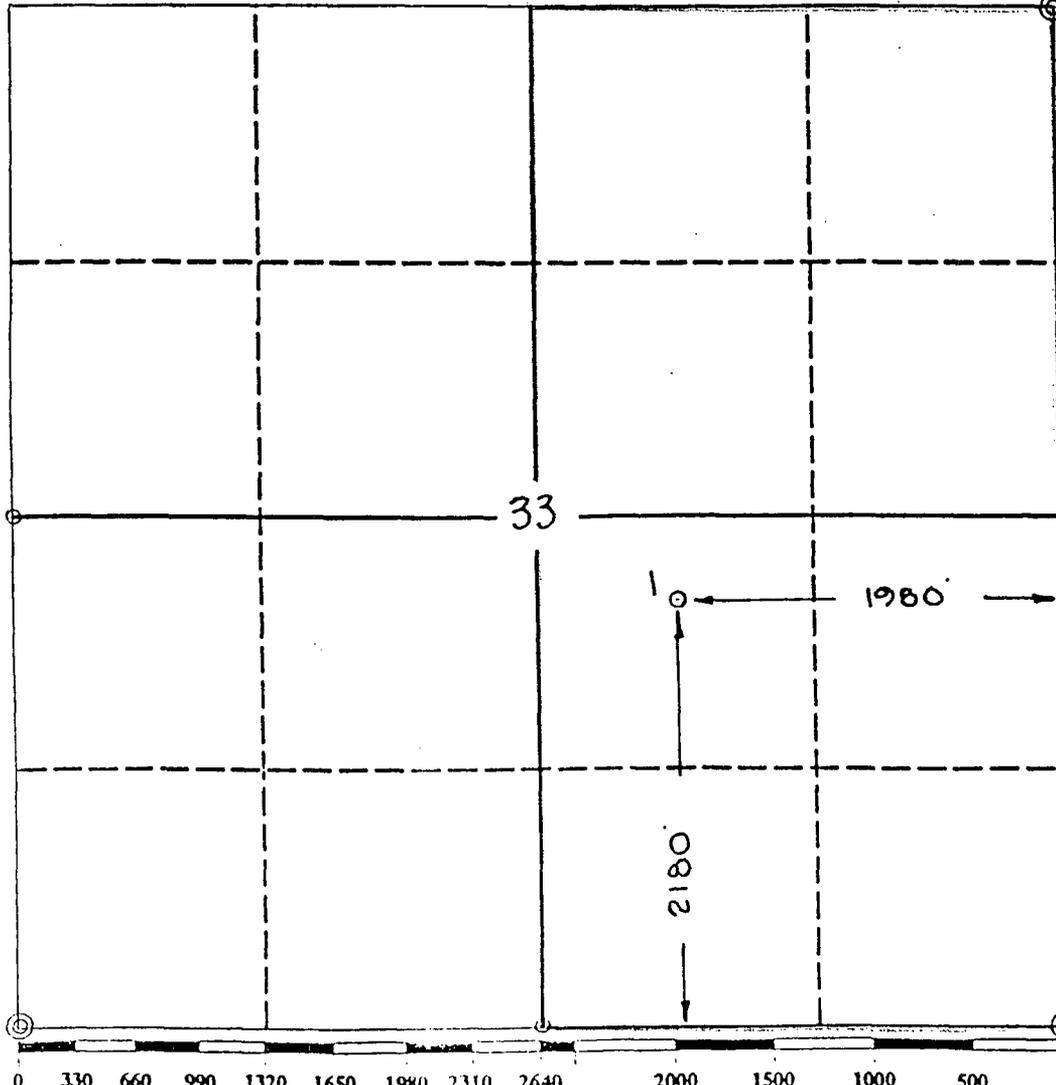
Operator <b>TEXACO EXPLORATION AND PRODUCTION INC.</b>			Lease <b>DOW "B" 33 FEDERAL</b>		Well No. <b>1</b>
Unit Letter <b>J</b>	Section <b>33</b>	Township <b>17-South</b>	Range <b>31-East</b>	County <b>EDDY</b>	
Actual Footage Location of Well: <b>2180</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>East</b> line					
Ground level Elev. <b>3760</b>	Producing Formation <b>Morrow; Atoka</b>		Pool <b>Widlcot</b>	Dedicated Acreage: <b>320</b> Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
 

Yes     No    If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature: *Royce D. Mariott*  
 Printed Name: **Royce D. Mariott**  
 Position: **Division Surveyor**  
 Company: **Texaco Expl. & Prod. Inc.**  
 Date: **June 17, 1992**

**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: **June 16, 1992**  
 Signature & Seal of Professional Surveyor: *John S. Piper*  
 Certificate No.: **7254 John S. Piper**

○ = Found 1" Iron Pipe with GLO Brass Cap    ⊙ = Found 2 or 3" Iron Pipe with GLO Brass Cap

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

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-102  
 Revised 1-1-89

**OIL CONSERVATION DIVISION**

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

**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

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

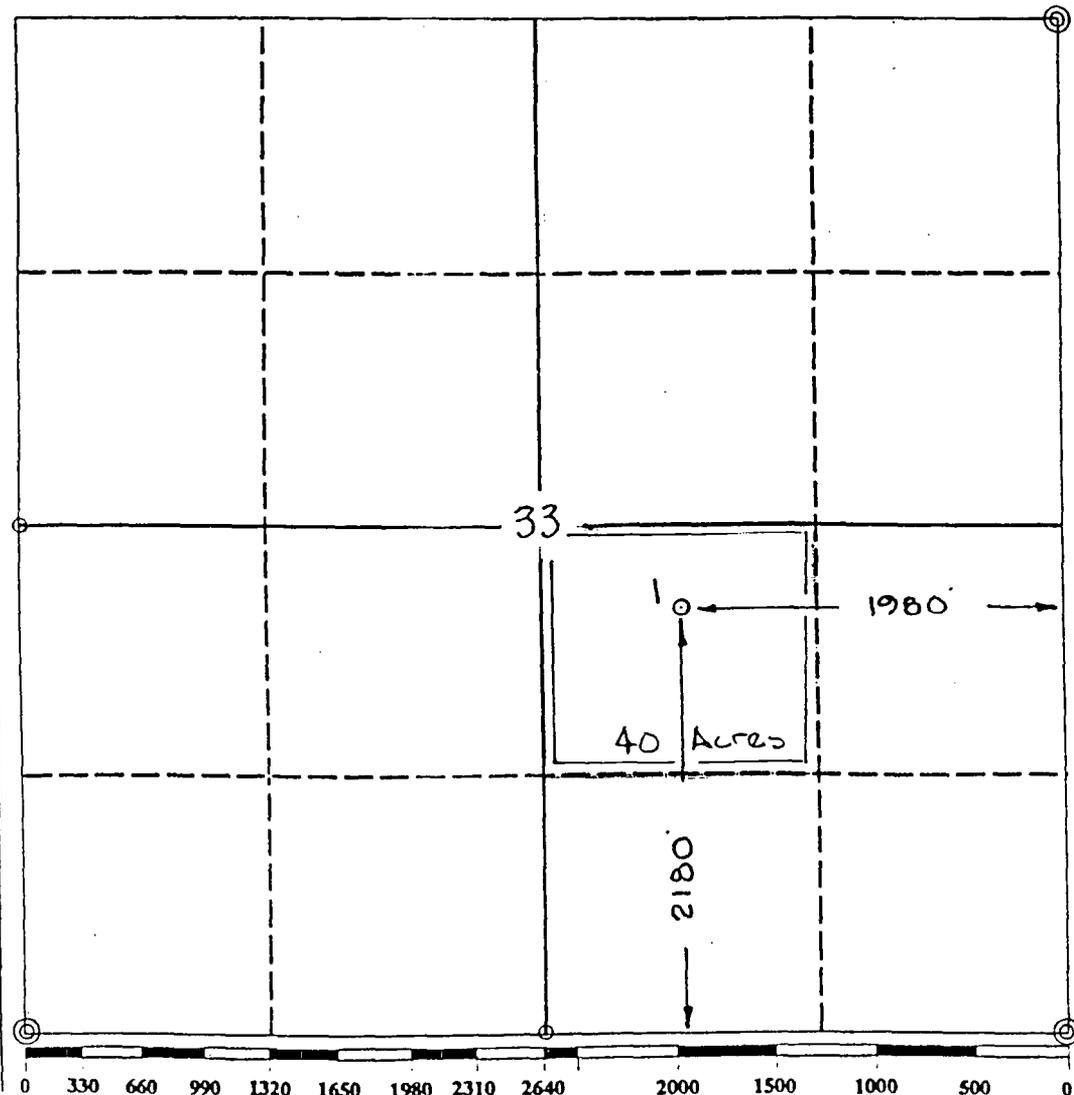
Operator <b>TEXACO EXPLORATION AND PRODUCTION INC.</b>			Lease <b>DOW "B" 33 FEDERAL</b>			Well No. <b>1</b>		
Unit Letter <b>J</b>	Section <b>33</b>	Township <b>17-South</b>	Range <b>31-East</b>		County <b>EDDY</b>			
Actual Footage Location of Well: <b>2180</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>East</b> line <small>NMPM</small>								
Ground level Elev. <b>3760</b>	Producing Formation <b>Bone Spring</b>		Pool <b>Widicat</b>			Dedicated Acreage: <b>40</b> Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
 

Yes     No    If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature  
*Royce D. Mariott*  
 Printed Name  
**Royce D. Mariott**  
 Position  
**Division Surveyor**  
 Company  
**Texaco Expl. & Prod. Inc.**  
 Date  
**June 17, 1992**

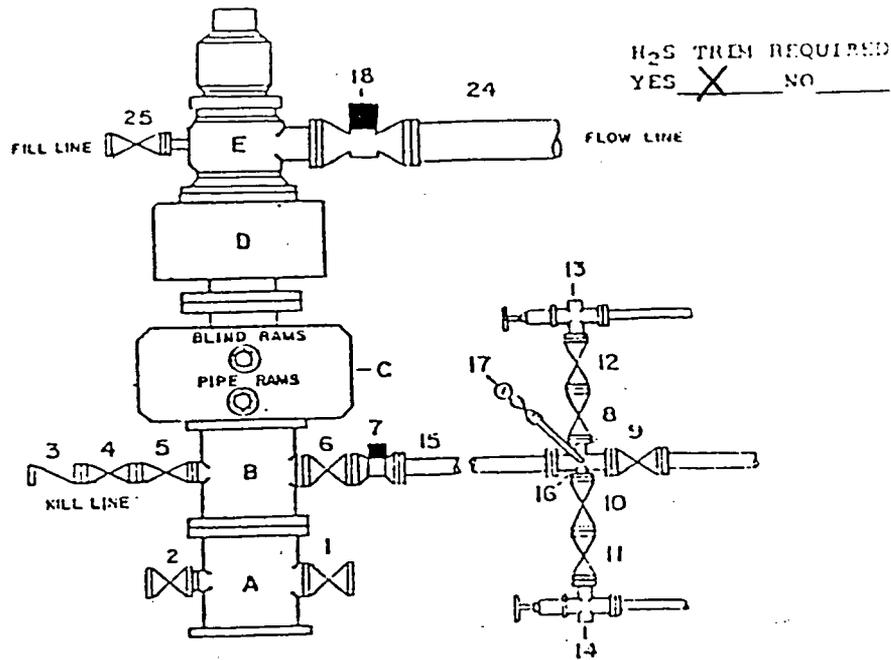
**SURVEYOR CERTIFICATION**

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  
**June 16, 1992**  
 Signature & Seal of Professional Surveyor  
*John S. Piper*  
 Certificate No.  
**7254 John S. Piper**  
 Sheet \_\_\_\_\_ of \_\_\_\_\_

○ = Found 1" Iron Pipe with GLO Brass Cap    ⊙ = Found 2 or 3" Iron Pipe with GLO Brass Cap

**DRILLING CONTROL**  
**CONDITION IV-B-5000 PSI WP**



DRILLING CONTROL

MATERIAL LIST - CONDITION IV - B

- A Texaco Wellhead
- B 5000# W.P. drilling spool with a minimum 2" flanged outlet for kill line and 3" minimum flanged outlet for choke line.
- C 5000# W.P. Dual ram type preventer, hydraulic operated with 1" steel, 5000# W.P. control lines.
- D 5000# W.P. Annular preventer, hydraulic operated with 1" steel, 3000# W.P. control lines.
- E Rotating Head with fill up outlet and extended Blosie line.
- 1,2,4,5, 2" minimum 5000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 3,10,11, 12
- 3 2" minimum 5000# W.P. back pressure valve.
- 6,9 1" minimum 5000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve.
- 7 1" minimum 5000# W.P. flanged hydraulic valve
- 15 1" minimum Schedule 160, Grade B, seamless line pipe
- 16 2" minimum x 3" 5000# W.P. flanged cross
- 13,14 2" minimum 5000# W.P. adjustable chokes with carbide trim.
- 17 Cameron Mud Gauge or equivalent (location in choke line optional).
- 18 6" minimum 1000# hydraulic flanged valve.
- 24 8" minimum steel flow line.
- 25 2" minimum 3000# W.P. flanged or threaded full opening steel gate valve, or Halliburton Lo Torc Plug valve.

	<p><b>TEXACO, INC.</b></p> <p>WELLS SERVICES</p> <p>WELLS SERVICES</p>	

**WRS COMPLETION REPORT**

REISSUES SEC 33 TWP 17S RGE 31E  
 PI# 30-T-0001 11/15/96 30-015-27068-0001 PAGE 1

NMEX EDDY \* 2180FSL 1980FEL SEC NW SE  
 STATE COUNTY FOOTAGE SPOT  
 OPERATOR TEXACO EXPL & PROD WSX WS  
 WELL NO. 1 LEASE NAME DOW 'B' 33 FEDERAL  
 3760GR UNNAMED  
 OPER ELEV FIELD/POOL/AREA  
 LEASE NO. API 30-015-27068-0001  
 LEASE NO. PERMIT OR WELL I.D. NO.  
 10/18/1995 10/09/1996 WO-UNIT VERT D&AW  
 SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS  
 3750 GRAYBURG NOT RPTD  
 PROJ. DEPTH PROJ. FORM CONTRACTOR  
 DTD 12050 OTD 12050 FM/TD MORROW  
 DRILLERS T.D. LOG T.D. PLUG BACK TO OLD T.D. FORM T.D.

LOCATION DESCRIPTION

7 MI SE LOCO HILLS, NM

WELL IDENTIFICATION/CHANGES

FINAL STATUS CHGD FROM TA

PRODUCTION TEST DATA

MORROW PERF 11614-11777  
 PERF 11614-11777  
 BRPG @ 7965 11614-11777  
 GRAYBURG PERF W/ 104/IT 3688- 3726  
 PERF 3688- 3726  
 ACID 3688- 3726 3000GALS  
 15% NEFE HCL  
 PLUG @ 1830 3688- 3726

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS 3000- 4000 GR 3000- 4000 CCL 3000- 4000 CBL

PLUGGING RECORD /INTERVAL PLUGGED CEMENT/

3777- 3937 25 SACKS 1830- 1950 65 SACKS  
 564- 703 160 SACKS 0- 100 15 SACKS  
 PERF 3885, UNABLE TO PUMP INTO PERFS  
 PERF 1950, 703 & SQZ

CONTINUED IC# 300157000896

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Form No 187

REISSUES SEC 33 TWP 17S RGE 31E  
PI# 30-T-0001 11/15/96 30-015-27068-0001 PAGE 2

TEXACO EXPL & PROD WSX WS  
1 DOW 'B' 33 FEDERAL

DRILLING PROGRESS DETAILS

TEXACO EXPL & PROD  
BOX 3109  
MIDLAND, TX 79702  
915-688-4100

OWWO: OLD INFO: FORMERLY TEXACO EXPL & PROD  
1 DOW 'B' 33 FEDERAL. ELEV 3760 GR, 3777 KB.  
SPUD 8/5/92. 11 3/4 @ 653 W/590 SX, 8 5/8 @  
5000 W/1770 SX, 5 1/2 @ 12050 W/2300 SX. OTD  
12050. PB 11900. COMP 10/4/92. IPCAOF 21882  
MCFGPD. PROD ZONE: MORROW 11614-11777.

10/15 LOC/1995/  
11/12 12050 TD  
11/12 COMP 10/9/96, D&A  
REISSUE TO CORRECT FINAL STATUS & ADD  
PLUG DETAILS  
REPLACEMENT FOR TICKET ISSUED 1/12/96

**WRS COMPLETION REPORT**

COMPLETIONS SEC 33 TWP 17S RGE 31E  
PI# 30-T-0009 01/12/96 30-015-27068-0001 PAGE 1

NMEX EDDY \* 2180FSL 1980FEL SEC NW SE  
STATE COUNTY FOOTAGE SPOT

TEXACO EXPL & PROD WSX WS  
OPERATOR WELL CLASS INIT FIN

1 DOW 'B' 33 FEDERAL  
WELL NO. LEASE NAME

3760GR UNNAMED  
OPER ELEV FIELD/POOL/AREA

API 30-015-27068-0001  
LEASE NO. PERMIT OR WELL I.D. NO.

10/18/1995 10/25/1995 WO-UNIT VERT TAW  
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS

3750 GRAYBURG NOT RPTD  
PROJ. DEPTH PROJ. FORM CONTRACTOR

DTD 12050 PB 7965 OTD 12050 FM/TD MORROW  
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

7 MI SE LOCO HILLS, NM

PRODUCTION TEST DATA

MORROW PERF 11614-11777  
PERF 11614-11777  
BRPG @ 7965 11614-11777

GRAYBURG PERF W/ 104/IT 3688- 3726  
PERF 3688- 3726  
ACID 3688- 3726 3000GALS  
15% NEFE HCL  
WELL SI PENDING EVAL

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS 3000- 4000 GR 3000- 4000 CCL 3000- 4000 CBL

DRILLING PROGRESS DETAILS

TEXACO EXPL & PROD  
BOX 3109  
MIDLAND, TX 79702  
915-688-4100  
OWWO: OLD INFO: FORMERLY TEXACO EXPL & PROD  
1 DOW 'B' 33 FEDERAL. ELEV 3760 GR, 3777 KB.  
SPUD 8/5/92. 11 3/4 @ 653 W/590 SX, 8 5/8 @

CONTINUED IC# 300157000896

COMPLETIONS SEC 33 TWP 17S RGE 31E  
PI# 30-T-0009 01/12/96 30-015-27068-0001 PAGE 2

TEXACO EXPL & PROD  
1 DOW 'B' 33 FEDERAL WSX WS

DRILLING PROGRESS DETAILS

5000 W/1770 SX, 5 1/2 @ 12050 W/2300 SX. OTD  
12050. PB 11900. COMP 10/4/92. IPCAOF 21882  
MCFGPD. PROD ZONE: MORROW 11614-11777.  
10/15 LOC/1995/  
01/10 12050 TD, PB 7965  
COMP 10/25/95, TEMP ABND  
FIRST REPORT & COMPLETION

**WRS COMPLETION REPORT**

REISSUES SEC 33 TWP 17S RGE 31E  
 PI# 30-T-0002 01/28/94 30-015-27068-0000 PAGE 1

NMEX EDDY \* 2180FSL 1980FEL SEC NW SE  
 STATE COUNTY FOOTAGE SPOT  
 OPERATOR TEXACO EXPL & PROD WD WDD  
 WELL NO. 1 DOW "B" 33 FEDERAL  
 3777KB 3760GR CEDAR LAKE E  
 OPER ELEV FIELD/POOL/AREA  
 LEASE NO. API 30-015-27068-0000  
 PERMIT OR WELL I.D. NO.  
 08/05/1992 10/04/1992 ROTARY VERT GAS  
 SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS  
 12100 MORROW ZIADRIL INC 7 RIG SUB 16  
 PROJ. DEPTH PROJ. FORM CONTRACTOR  
 DTD 12050 PB 11900 FM/TD MORROW  
 DRILLERS T.D. LOG T.D. PLUG BACK TO OLD T.D. FORM T.D.

LOCATION DESCRIPTION

7 MI SE LOCO HILLS, NM  
 3/4 MI W/11893 (MRRW) GAS PROD IN MESQUITE FLD

WELL IDENTIFICATION/CHANGES

FIELD CHGD FROM WILDCAT  
 FIELD CHGD FROM UNNAMED

CASING/LINER DATA

CSG 11 3/4 @ 653 W/ 590 SACKS  
 CSG 8 5/8 @ 5000 W/ 1770 SACKS  
 CSG 5 1/2 @ 12050 W/ 2300 SACKS

TUBING DATA

TBG 2 3/8 AT 11495

INITIAL POTENTIAL

IPF 21BCPD 8861 MCFD 1HRS  
 MORROW PERF W/ 168/IT 11614-11777 GROSS  
 PERF 11614-11618 11718-11722 11742-11758 11770-11777  
 SITP 2758  
 @11493FT BHT 189F  
 1151MCFD TP 2686 BHFP 2702  
 1770MCFD TP 2662 BHFP 2682  
 4960MCFD TP 2461 BHFP 2532  
 8861MCFD TP 1961 BHFP 2189

CONTINUED IC# 300157022192

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REISSUES SEC 33 TWP 17S RGE 31E  
PI# 30-T-0002 01/28/94 30-015-27068-0000 PAGE 2

TEXACO EXPL & PROD WD WDD  
1 DOW "B" 33 FEDERAL

INITIAL POTENTIAL

BH 2771 FPCAOF 21882MCFD  
GTY 52.5 GOR 36472  
GAS GTY .662  
FIELD /RESERVOIR  
/MORROW  
1ST PT TEST IN 30 MINS, CK - NO DETAILS  
2ND & 3RD PT TEST IN 60 MINS  
4TH PT TEST IN 75 MINS  
TREATMENT - NO DETAILS

DRILLING PROGRESS DETAILS

TEXACO EXPL & PROD  
BOX 3109  
MIDLAND, TX 79702  
915-688-4100  
LOC/1992/  
07/09 MIRT  
08/04 DRLG 5393  
08/18 DRLG 6953  
08/25 DRLG 8539  
09/01 DRLG 10753  
09/08 DRLG 11805  
09/15 12050 TD, TITE HOLE  
09/30 12050 TD, PB 11900, WOPT  
01/18 RIG REL 09/20/92  
02/01 12050 TD, PB 11900  
COMP 10/4/92, IPF 8861 MCFGPD, CAOF 21882,  
21 BCPD, GTY 52.5, GAS GTY  
.662, GLR 36472-1, SITP  
2758, BHSIP 2771  
PROD ZONE - MORROW 11614-11777  
TITE HOLE  
02/01 (MORROW DISCOVERY - DEEPER POOL)  
09/20 REISSUE TO CORRECT FIELD  
REPLACEMENT FOR CT ISSUED 2/5/93  
01/24 REISSUE TO CORRECT IP & ADD FOUR POINT  
TEST  
REPLACEMENT FOR CT ISSUED 9/24/93