



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**BETTY RIVERA**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
Oil Conservation Division

30-045-25114

November 25, 2002

Office of the Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, DC 20426  
Attn: Marilyn Rand

**RE: Burlington Resources Oil & Gas Company**  
**Culpepper Martin No. 1E**  
**Culpepper Martin No. 1A**

Ms. Rand:

Enclosed are your copies of the approved NGPA applications for the above applicant.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Valdes".

Kathy Valdes

Enclosures

TF-02-013

[NM-5]  
Form C-132

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
2040 ~~Pacheco Street~~ 1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

APPLICATION FOR CATEGORY DETERMINATION

<b>FOR DIVISION USE ONLY:</b>		<b>FILING FEE(S) -</b> Effective October 1, 1986 a non-refundable filing fee of \$25.00 per category for each application is mandatory (Rule 2, Order No. R-5878-B-3)
APPROPRIATE FILING FEE ENCLOSED? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
DATE COMPLETE APPLICATION FILED <u>October 23, 2001</u>		
DATE DETERMINATION MADE <u>November 22, 2001</u>		
WAS APPLICATION CONTESTED? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
NAME(S) OF INTERVENOR(S), IF ANY: <u>no</u>		

1. Name of Operator: Burlington Resources Oil & Gas Company	6. County: San Juan
2. Address of Operator: 5051 Westheimer, Suite 1400 Houston, TX 77210-4236	7. API No: 30-045-25114
3. Location of Well: Unit Letter <u>P</u> located <u>1,110</u> feet from the <u>S</u> line and <u>830</u> feet from the <u>E</u> line of Sec. <u>31</u> Twp. <u>32N</u> Rng. <u>12W</u>	8. Indicate Type of Lease: State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
4. Farm or Lease Name: Culpepper Martin	9. State Oil & Gas Lease No.:
5. Well No: 1E	10. Unit Agreement Name:
	11. Field and Pool or Wildcat: Basin Dakota

Check the appropriate box for category sought and information submitted. Enter Required information on lines 1 and 2, below.

- Category sought NGPA Section No. 107 A1  occluded natural gas from coal seam  
A3  natural gas from a designated tight formation
- Filing Fee(s) amount enclosed: \$25.00
- All application must contain:
  - C-105 Well Completion or Recompletion Report
  - Affidavits of Mailing or Delivery

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

David K. Miller  
NAME OF APPLICANT (Type or Print)

David K. Miller  
SIGNATURE OF APPLICANT

TITLE: Manager, Royalty Compliance/Litigation

DATE: October 4, 2001

<b>FOR DIVISION USE ONLY</b>	
APPROVED: <input checked="" type="checkbox"/>	DISAPPROVED: <input type="checkbox"/>
The information contained herein includes all of the information required to be filed by the applicant under Subpart B of Part 274 of the FERC regulations.	
EXAMINER: <u>Maharaj</u>	

**BURLINGTON  
RESOURCES**

OIL CONSERVATION DIV.

01 OCT 23 PM 1:31

October 16, 2001

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

Re: Fee's for Well Determination Filings

Ladies and Gentlemen:

Burlington Resources is enclosing the following checks in payment of filing fees for NGPA Well Determination Filings previously received by the NMOCD.

#0000659968 Culpepper Martin #1E	San Juan Co., NM	API #30-045-25114
#0000659969 Kelly Knott #1A	San Juan Co., NM	API #30-045-25542

Thanks for holding the filings.

Sincerely,



James R. Gilcrease  
Royalty Compliance

**BURLINGTON RESOURCES**

801 CHERRY STREET SUITE 200  
FORT WORTH, TX 76102-6842

62-20/311

VENDOR NO  
67739200

CHECK DATE  
10/09/2001

CHECK NUMBER  
0000659969

**PAY...TWENTY FIVE DOLLARS 00 CENTS**

VALID FOR 60 DAYS

\$\*\*\*\*\*25.00

TO  
THE  
ORDER  
OF:

NEW MEXICO STATE  
OIL CONSERVATION DIVISION  
2040 SOUTH PACHECO STREET  
SANTA FE, NM 87505

*Daniel D Hawk*

CITIBANK, DELAWARE  
NEW CASTLE, DE 19720

⑈0000659969⑈ ⑆031100209⑆ 38822376⑈

DOCUMENT CONTAINS ANTI-COPY VOID PANTOGRAPH, MICRO PRINT BORDER, VERIFICATION BOX (TO RIGHT OF ARROW, HOLD BETWEEN THUMB AND FOREFINGER, OR BREATHE ON IT, COLOR WILL DISAPPEAR, THEN REAPPEAR), AND A SIMULATED WATERMARK ON THE BACK

**BURLINGTON RESOURCES**

801 CHERRY STREET SUITE 200  
FORT WORTH, TX 76102-6842

62-20/311

VENDOR NO  
67739200

CHECK DATE  
10/09/2001

CHECK NUMBER  
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**BURLINGTON RESOURCES**

801 CHERRY STREET SUITE 200  
FORT WORTH, TX 76102-6842

62-20/311

VENDOR NO  
67739200

CHECK DATE  
10/18/2001

CHECK NUMBER  
0000662033

**PAY...TWENTY FIVE DOLLARS 00 CENTS**

VALID FOR 60 DAYS

\$\*\*\*\*\*25.00

TO  
THE  
ORDER  
OF:

NEW MEXICO STATE  
OIL CONSERVATION DIVISION  
2040 SOUTH PACHECO STREET  
SANTA FE, NM 87505

*Daniel D Hawk*

CITIBANK, DELAWARE  
NEW CASTLE, DE 19720

ENERGY, MINERALS AND NATURAL RESOURCES DEPT.

01-52107

NO. 117305

Official Receipt

Received from: RC/OCD-SF - Kathy Valdes

Date: 11/1

Dollar Amount

75.00 ~~01~~

DR CR.	AMOUNT NUMBER	CENTER NUMBER	CREDIT AMOUNT	DEPOSIT NUMBER	WORK ORDER NO.
60	4290				
60	4291				
60	3450				
60	3451				
60	3410				
60	4210				
60	4240				
60	<b>1893</b>	<b>0711</b>			
60					
60					
60					

TOTAL

**75.00**

**NGPA Filing Fees**

By

**KV**



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
Oil Conservation Division

October 18, 2001

Burlington Resources  
P. O. Box 4239  
Houston, TX 77210-4239  
Attn: David K. Miller

Dear Mr. Miller:

We are in receipt of your NGPA applications for the following wells:

Baca Gas Com A No. 1  
Culpepper Martin No. 1E  
Kelly Knott No. 1A  
New Mexico B Com No. 1E

These applications will not be processed until we receive the NGPA filing fees in the amount of \$100.00. In the future, please do not submit applications to us unless they are accompanied with the appropriate filing fee, as they will be returned to you as incomplete.

Thank you for your cooperation.

Sincerely,

Michael E. Stogner  
Chief Hearing Officer/Engineer

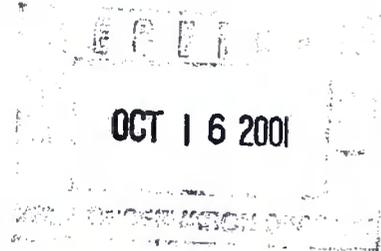
MES:kv

# BURLINGTON RESOURCES

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October 4, 2001

Mr. Michael Stogner  
State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
2040 Pacheco Street  
Santa Fe, NM 87505



Re: Application for Well Determination  
NGPA Section 107  
Culpepper Martin #1E  
San Juan Co., NM  
Basin Dakota Formation

Dear Mr. Stogner:

Burlington Resources Oil & Gas Company is enclosing, for review and approval by the New Mexico Oil Conservation Division, the original and two copies of an Application for Determination for the referenced well.

A copy of this letter, the FERC Form 121 and the OCD Form C-132 has been mailed to each working interest owner entitled to receive Notice of this Application.

Please indicate receipt of this filing by date stamping the attached extra copy of this letter and returning the copy for our records.

Sincerely,

David K. Miller  
Manager, Royalty Compliance/Litigation

enclosures

xc: NGPA File

WORKING INTEREST OWNER LISE

Culpepper Martin #1E  
San Juan Co., NM  
Dakota Formation

Orville C. Rogers  
3840 W. Bay Circle  
Dallas, TX 75214-2925

Carbaugh/Hardwick Co-Trustees  
Betty T. Johnston Marital Trust  
245 Commerce Green Blvd, Ste. 280  
Sugarland, TX 77478

V. A. Johnston Family Trust  
C/O K. Prewitt & M. A. Chesser Trustees  
P. O. Box 925  
Ralls, TX 79357

Bank of America NA Trustee  
Eula May Johnston Trustee  
P. O. Box 2546  
Fort Worth, TX 76113-2546





State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division

**Sundry Notices and Reports on Wells**

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator <b>BURLINGTON RESOURCES</b> OIL &amp; GAS COMPANY</p> <hr/> <p>3. Address &amp; Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1110' FSL, 830' FEL, Sec. 31, T-32-N, R-12-W, NMPM, San Juan County</p>	<p>API # (assigned by OCD) 30-045-25114</p> <p>5. Lease Number Fee</p> <p>6. State Oil&amp;Gas Lease #</p> <p>7. Lease Name/Unit Name Culpepper Martin</p> <p>8. Well No. 1E</p> <p>9. Pool Name or Wildcat Blanco MV/Basin DK</p> <p>10. Elevation:</p>
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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	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other - Commingle
	<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

**13. Describe Proposed or Completed Operations**

1-2-97 MIRU. TOOH w/135 jts 2 3/8" Mesaverde tbg. TOOH w/2 jts Dakota tbg. SDON.  
 1-3-97 TOOH w/90 jts Dakota tbg. TIH w/pkr plucker. Mill on pkr. TOOH w/pkr. SD for weekend.  
 1-6-97 TIH, tag fill @ 6957'. Blow well & CO to PBTD @ 7017'. SDON.  
 1-7-97 Circ hole clean. SDON.  
 1-8-97 TOOH. TIH w/220 jts 2 3/8" 4.7# J-55 EUE tbg, landed @ 6948'. Blow well & CO. ND BOP. NU WH. RD. Rig released.

Well will produce as a Mesaverde/Dakota commingle under DHC-1393.

**RECEIVED**  
FEB 10 1997

**OIL CON. DIV.**  
DIST. 3

SIGNATURE  Regulatory Administrator February 4, 1997

(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUSCH Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date FEB 10 1997

MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-12  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

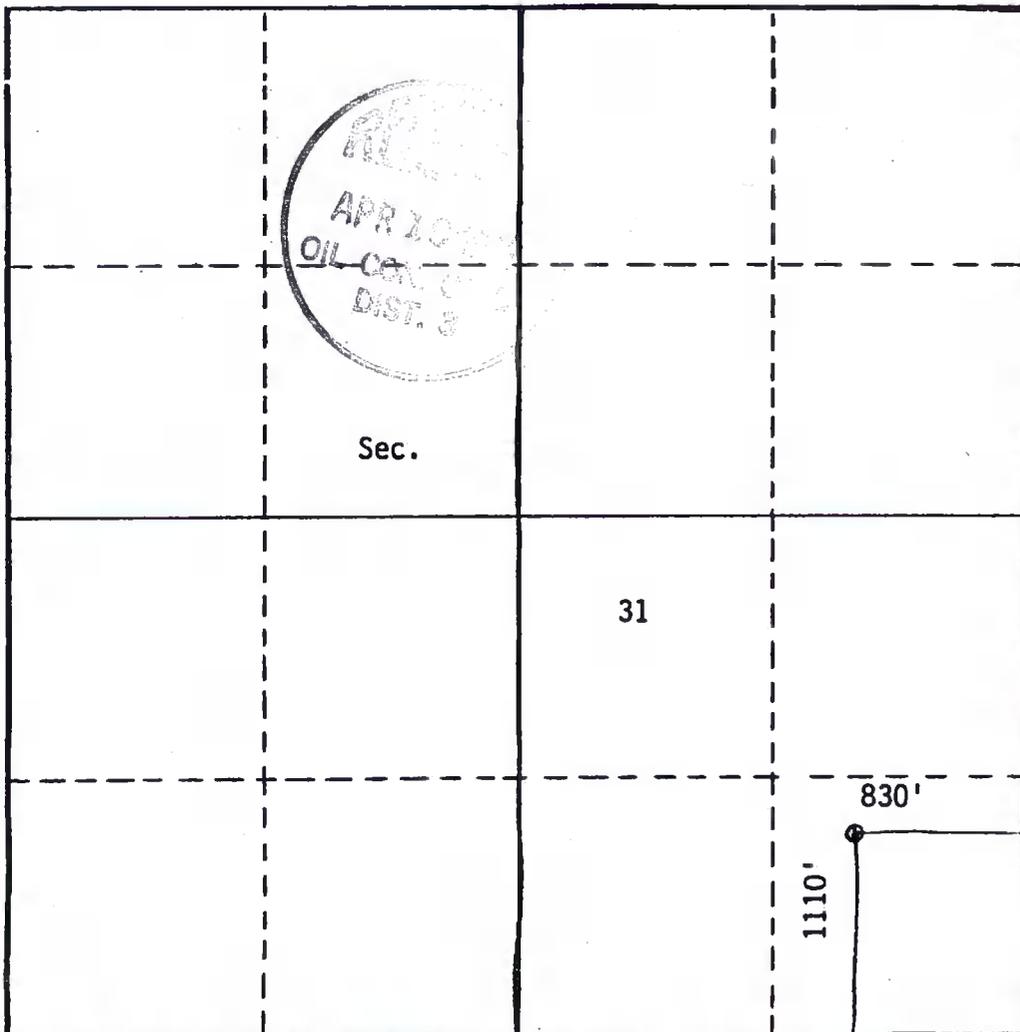
Operator <b>UNION TEXAS PETROLEUM CORPORATION</b>		Lease <b>Culpepper Martin</b>		Well No. <b>1E</b>
Unit Letter <b>P</b>	Section <b>31</b>	Township <b>32N</b>	Range <b>12W</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>830</b> feet from the <b>East</b> line and <b>1110</b> feet from the <b>South</b> line				
Ground Level Elev. <b>5841'</b>	Producing Formation <b>Mesaverde</b>	Pool	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 interests, has been approved by the Commission.



CERTIFICATION

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

Name: *[Signature]*  
 Position: **Area Operations Manager**  
 Company: **Union Texas Petroleum Corp.**

Date: **April 13, 1982**

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.

original submitted 7/6/1981

Date Surveyed: **June 16, 1981**

Registered Professional Engineer and/or Land Surveyor

**Fred B. Kerr, Jr.**

Certificate No. **3950**





## Stogner, Michael

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**From:** Gilcrease Jim [JGilcrease@br-inc.com]  
**Sent:** Thursday, February 07, 2002 10:22 AM  
**To:** mstogner@state.nm.us  
**Subject:** NMOCD Well Determination Approvals



NMOCD Follow up  
2-7-02.xls

Mike, attached is a revised list.

<<NMOCD Follow up 2-7-02.xls>>

WELL NAME	BR AIN NO.	FERC 121 DATE	API NO.	OPERATOR
Martin Federal Com #1E	1139402	12/12/2001	30-045-24324	Energen
Johnston A #16	1524501	12/18/2001	30-039-24739	BR
Baca Gas Com A #1	5377101	11/17/2001	30-045-26110	XTO
Mexico Federal N #1E	1210401	9/24/2001	30-045-08832	BR
Culpepper Martin #1E	1296401	10/4/2001	30-045-25114	BR
Kelly Knott #1A	1461201	10/1/2001	30-045-25542	BR
New Mexico B Com #1E	1312101	9/24/2001	30-045-2453	BR
Culpepper Martin #1A	1296201	9/26/2001	30-045-25112	BR
San Juan 29-5 Unit #218	653601	7/17/2001	30-039-24782	Phillips
Pierce A #4	5444901	9/24/2001	30-045-25432	BR
Gallegos Canyon Unit #323	2370501	8/29/2001	30-045-24615	Amoco
Gallegos Canyon Unit #323	2370502	8/29/2001	30-045-24615	Amoco
Gallegos Canyon Unit #506	5737002	8/29/2001	30-045-28067	Amoco
Pubco State Com #1A	458101	8/8/2001	30-045-27248	Great Western

## Stogner, Michael

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**From:** Gilcrease Jim [JGilcrease@br-inc.com]  
**Sent:** Thursday, February 07, 2002 10:06 AM  
**To:** mstogner@state.nm.us  
**Subject:** Well Determination Filings by NMOCD



NMOCD Follow up  
2-7-02.xls

Good morning Mike, Burlington Resources' records indicate that we have not received JA approval on the following wells submitted to the NMOCD for review. We understand that you have other responsibilities and have put well determination filings on hold. However, lack of JA and FERC of these well may cause Burlington and other companies loss of monies. Could you review the wells on the attached list in which Burlington holds or has held an interest.

Thanks for your consideration.

Jim Gilcrease  
Burlington Resources  
(713) 624-9092  
jgilcrease@br-inc.com

<<NMOCD Follow up 2-7-02.xls>>

WELL NAME	BR AIN NO.	FERC 121 DATE	API NO.	OPERATOR
Gallegos Canyon Unit #389	5588501	8/29/2001	30-045-28154	Amoco
Gallegos Canyon Unit #332	2372101	8/29/2001	30-045-25475	Amoco
Heaton Com LS #9A	2611902	8/29/2001	30-045-20903	Amoco
Martin Federal Com #1E	1139402	12/12/2001	30-045-24324	Energen
Johnston A #16	1524501	12/18/2001	30-039-24739	BR
Baca Gas Com A #1	5377101	11/17/2001	30-045-26110	XTO
Mexico Federal N #1E	1210401	9/24/2001	30-045-08832	BR
Culpepper Martin #1E	1296401	10/4/2001	30-045-25114	BR
Kelly Knott #1A	1461201	10/1/2001	30-045-25542	BR
New Mexico B Com #1E	1312101	9/24/2001	30-045-2453	BR
Culpepper Martin #1A	1296201	9/26/2001	30-045-25112	BR
San Juan 29-5 Unit #218	653601	7/17/2001	30-039-24782	Phillips
Pierce A #4	5444901	9/24/2001	30-045-25432	BR
Gallegos Canyon Unit #323	2370501	8/29/2001	30-045-24615	Amoco
Gallegos Canyon Unit #323	2370502	8/29/2001	30-045-24615	Amoco
Gallegos Canyon Unit #506	5737002	8/29/2001	30-045-28067	Amoco
Pubco State Com #1A	458101	8/8/2001	30-045-27248	Great Western

## Stogner, Michael

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**From:** Gilcrease Jim [JGilcrease@br-inc.com]  
**Sent:** Wednesday, July 24, 2002 10:09 AM  
**To:** mstogner@state.nm.us  
**Subject:** NGPA Well Determination Filing Review



NMOCD NGPA Filing  
List (Approv...

Mike, Burlington Resources submitted the Well Determination Filings referenced on the attached list for NMOCD review and approval several months ago and todate we do not show that action has been taken on them. Can you please check the status of these filings and let me know where they stand?

Jim Gilcrease  
Burlington Resources  
5051 Westheimer, Suite 1400  
Houston, TX 77056-5604  
713-624-9092  
jgilcrease@br-inc.com

<<NMOCD NGPA Filing List (Approval follow up).xls>>

### PENDING NGPA FILINGS - NEW MEXICO OIL CONSERVATION DIVISION

WELL NAME	API NO.	LOCATION	COUNTY	FORMATION	DATE MAILED TO NMOCD
Mangum # 1E	30-045-24673	Sec. 27, T-29N, R-11W	San Juan	Dakota	3/4/2002
Sategna #2E	30-045-24060	Sec. 21, T-29N, R-11W	San Juan	Dakota	3/4/2002
Johnston A #16	30-039-24739	Sec. 36, T-27N, R-6W	Rio Arriba	Fruitland Coal	12/18/2001
Mexico Federal N #1E	30-045-08332	Sec. 15, T-29N, R-11W	San Juan	Dakota	9/24/2001
Culpepper Martin #1E	30-045-25114	Sec. 31, T-32N, R-12W	San Juan	Dakota	10/4/2001
Kelly Knott #1A	30-045-25542	Sec. 8, T-30N, R-10W	San Juan	Mesa Verde	10/1/2001
New Mexico B Com #1E	30-045-24538	Sec. 16, T-29N, R-11W	San Juan	Dakota	10/1/2001
Culpepper Martin #1A	30-045-25112	Sec. 31, T-32N, R-12W	San Juan	Dakota	9/26/2001
Pierce A #4	30-045-25432	Sec. 13, T-30N, R-10W	San Juan	Mesa Verde	9/24/2001

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION COMMISSION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 7361  
Order No. R-6884

APPLICATION OF SOUTHLAND ROYALTY  
COMPANY FOR DESIGNATION OF A TIGHT  
FORMATION, SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 29, 1981, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 12th day of January, 1982, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

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

(2) That, pursuant to Section 107 of the Natural Gas Policy Act of 1978, and CFR Section 271.703, applicant Southland Royalty Company requested the designation as a "tight formation" of the Dakota formation underlying the following described lands:

SAN JUAN COUNTY, NEW MEXICO

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM  
Sections 1 through 36: All

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM  
Section 1: All  
Sections 12 and 13: All  
Sections 22 through 27: All  
Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM  
Sections 7 through 36: All

TOWNSHIP 32 NORTH, RANGE 11 WEST, NMPM  
Sections 7 through 27: All  
Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM  
Sections 7 through 33: All

TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM  
Sections 7 through 33: All

containing a total of 92,871 acres, more or less.

(3) That at the hearing, applicant requested dismissal of that portion of the application pertaining to Sections 25 through 27, inclusive, and Sections 32 and 33, all in Township 32 North, Range 12 West, NMPM, containing some 3,200 acres, more or less, leaving for consideration some 89,671 acres, more or less.

(4) That said request for dismissal should be approved, and no further consideration given herein to said lands.

(5) That while the application was for designation of the Dakota formation as a tight formation, the Dakota formation constitutes but a portion of the "Dakota Producing Interval," which, as defined by the Division, comprises the vertical limits of the Basin-Dakota Gas Pool, being from the base of the Greenhorn Limestone to a point 400 feet below the base of said formation and consisting of the Graneros formation, the Dakota formation, and the productive upper limit of the Morrison formation.

(6) That inasmuch as practically all so-called "Dakota" wells drilled in the subject area are, or potentially are, tested in and/or completed in the entire Dakota Producing Interval, and the well data presented at the hearing of this case involves the entire Dakota Producing Interval, the application should be broadened to cover all of said producing interval throughout the area.

(7) That the Dakota Producing Interval, hereinafter referred to as the "Dakota," consists of a near blanket sandstone (probably an almost continuous series of northwest trending barrier beach sandstones composed of fine-grained quartose sandstones and carbonaceous shales with occasional conglomerates and coals in the basal part).

(8) That from the logs available at the hearing, the top of the Dakota in the area ranges from a depth of 5234 feet to 7220 feet and averages some 6753 feet beneath the surface.

(9) That the only test data for flow rates prior to stimulation for wells within the area indicates that the Aztec Pierce Well No. 2 in Section 30, Township 31 North, Range 10 West, NMPM, had a stabilized production rate calculated at atmospheric pressure of 208.1 MCF of gas per day; that other wells in the immediate vicinity of the area but just outside had stabilized production rates calculated at atmospheric pressure prior to stimulation ranging from 21.7 MCF per/day to 224.1 MCF per day.

(10) That none of the stabilized production rates cited above exceeds the maximum stabilized production rate set forth in 18 C.F.R. Section 271.703(c)(2)(i)(B) of 251 MCF per day for wells at the average depth to the top of the formation for this area (6753 feet), and it is not expected that the average well in the area will exceed such rate.

(11) That in situ permeability calculations are available for only two wells in the general area, being the Southland Pierce Well No. 2 and the Southland Patterson "B" Com Well No. 1E; that the in situ permeabilities calculated for said wells are .0609 md and .0877 md, respectively, and average .0743 md.

(12) That the average in situ permeability for all wells in the area is not expected to exceed 0.1 md, the limit set forth in 18 C.F.R. Section 271.703(c)(2)(i)(A).

(13) That prior to stimulation, the average well in the area is expected to produce far less than the maximum five barrels of crude oil per day as set forth in 18 C.F.R. Section 271.703(c)(2)(i)(C).

(14) That 18 C.F.R. Section 271.703(c)(2)(i)(D) provides that "if the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency has information which in its judgment indicates that such formation or portion subject to infill drilling can be developed absent the incentive price established in paragraph (a) of this section then the jurisdictional agency shall not include such formation or portion thereof in its recommendation."

(15) That the Division, by its Order No. R-1670-V, dated May 22, 1979, and effective July 1, 1979, approved infill drilling for the Basin-Dakota Gas Pool in San Juan and Rio Arriba Counties, New Mexico, and said pool includes the Dakota Producing Interval in the area under consideration here.

(16) That Southland in this hearing indicated that under current Section 103 prices of the NGPA of 1978, reserves of

Case No. 7361  
Order No. R-6884

350,000 MCF of gas are necessary to provide it with the economics necessary to justify drilling a Dakota well at its current drilling costs, while 150,000 MCF of reserves will justify a well at Section 107(c)(5) prices (tight formations).

(17) That the economics as presented by Southland in this case are reasonable, and lands which indicate recoverable reserves of 350,000 MCF or more of gas should be dismissed from further consideration, while lands indicating recoverable reserves of less than 350,000 MCF of gas should be considered for recommendation as a tight formation.

(18) That the Division, in approving infill drilling for the Basin-Dakota Gas Pool, based its approval on the premise that the reservoir was of low permeability and that 320-acre wells were not draining more than the 160-acre tract upon which they were located.

(19) That the remaining reserves under the 160-acre tract upon which the unit well is not located should be similar to, if not equal to, the original reserves under the 160-acre tract upon which the unit well is located.

(20) That cumulative production figures and estimates of ultimate recoverable reserves were presented at the hearing for some of the developed tracts within the area, while cumulative production figures only are available for the remainder of the developed tracts.

(21) That to determine that under certain lands insufficient reserves are available to justify drilling absent the Section 107 incentive price, it is reasonable to make the following assumptions:

- A. No primary drilling, i.e., no drilling on 320-acre spacing, is prima facie evidence that the lands are edge lands to the reservoir and drilling has not occurred because of the probable marginal nature of the reserves.
- B. Primary drilling has occurred but the calculated total ultimate reserves or the cumulative production for long-connected wells indicates low ultimate recovery (less than 350,000 MCF of gas).

(22) That to determine that under certain lands sufficient reserves may reasonably be expected to be recovered to justify drilling without the Section 107 incentive price, it is reasonable to make the following assumptions:

- A. Calculated ultimate recoverable reserves are 350,000 MCF or more.
- B. Calculated ultimate recoverable reserves are not available, but cumulative recoveries indicate that 350,000 MCF of gas already has been recovered.

(23) That the assumptions in Findings Nos. (21) B. and (22) A. and B. above may reasonably be based on offsetting wells in a given area.

(24) That the evidence indicates that it is unreasonable to expect that wells drilled in the area described in Finding No. (2) above less the area described in Finding No. (3) above will yield an average of 350,000 MCF or more of gas, but that it is reasonable to expect that such wells will yield an average of 150,000 MCF of gas, and that the incentive Section 107 (c) (5) price is necessary to justify drilling in said area.

(25) That there are fresh water aquifers underlying the lands being considered, and these aquifers extend to a depth of approximately 1200 feet.

(26) That there is a vertical distance of some 5500 feet between the base of the lowermost of said aquifers and the top of the Dakota, and this distance, combined with the required casing and cementing program for wells in the area, will assure that development of the Dakota will not adversely affect the fresh water aquifers (during both hydraulic fracturing and waste disposal operations) that are or are expected to be used as a domestic or agricultural water supply.

(27) That the Dakota Producing Interval underlying the following lands meets all of the guidelines set forth in 18 C.F.R. Section 271.703(c) (2) (i), subsections (A), (B), (C), and (D), and should be recommended for designation as a tight formation:

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM  
Sections 1 through 36: All

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM  
Section 1: All  
Sections 12 and 13: All  
Sections 22 through 27: All  
Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM  
Sections 7 through 36: All

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TOWNSHIP 32 NORTH, RANGE 11 WEST, NMPM  
Sections 7 through 27: All  
Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM  
Sections 7 through 24: All  
Sections 28 through 31: All

TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM  
Sections 7 through 29: All  
Sections 32 through 36: All

containing some 89,671 acres, more or less, all in San Juan County, New Mexico.

IT IS THEREFORE ORDERED:

(1) That it be and hereby is recommended to the Federal Energy Regulatory Commission pursuant to Section 107 of the Natural Gas Policy Act of 1978, and 18 C.F.R. Section 271.703, that the Dakota Producing Interval, being from the base of the Greenhorn Limestone to a point 400 feet below the base of said formation and consisting of the Graneros formation, the Dakota formation and the productive upper portion of the Morrison formation, underlying the following described lands in San Juan County, New Mexico, be designated as a tight formation:

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM  
Sections 1 through 36: All

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM  
Section 1: All  
Sections 12 and 13: All  
Sections 22 through 27: All  
Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM  
Sections 7 through 36: All

TOWNSHIP 32 NORTH, RANGE 11 WEST, NMPM  
Sections 7 through 27: All  
Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM  
Sections 7 through 24: All  
Sections 28 through 31: All

TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM  
Sections 7 through 29: All  
Sections 32 through 36: All

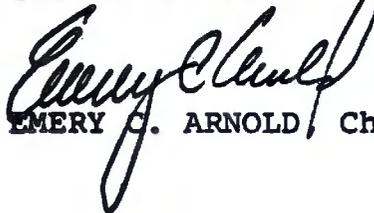
Case No. 7361  
Order No. R-6884

containing approximately 89,671 acres, more or less.

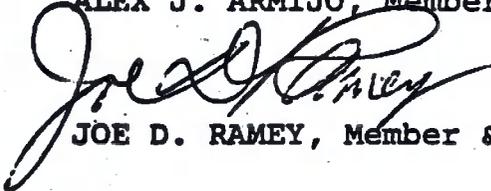
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
EMERY C. ARNOLD, Chairman

ALEX J. ARMIJO, Member

  
JOE D. RAMEY, Member & Secretary

S E A L



UNITED STATES OF AMERICA  
FEDERAL ENERGY REGULATORY COMMISSION

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UNITED STATES OF AMERICA  
FEDERAL ENERGY REGULATORY COMMISSION

18 C.F.R. Part 271

High-Cost Gas Produced from Tight Formations; Final Rule

Docket No. RM79-76-103 (New Mexico - 9)

ORDER NO. 262

AGENCY : Federal Energy Regulatory Commission

ACTION : Final rule

SUMMARY : The Federal Energy Regulatory Commission is authorized by section 107(c)(5) of the Natural Gas Policy Act of 1978 to designate certain types of natural gas as high-cost gas where the Commission determines that the gas is produced under conditions which present extraordinary risks or costs. Under section 107(c)(5), the Commission issued a final regulation designating natural gas produced from tight formations as high-cost gas which may receive an incentive price (18 C.F.R. § 271.703). This rule established procedures for jurisdictional agencies to submit to the Commission recommendations of areas for designation as tight formations. This final order adopts the recommendation of the State of New Mexico Energy and Minerals Department, Oil Conservation Division, that the Dakota Producing Interval be designated as a tight formation under § 271.703(d).

EFFECTIVE DATE : This rule is effective September 30, 1982.

FOR FURTHER INFORMATION CONTACT : Leslie Lawner, (202)357-8511 or Victor Zabel, (202) 357-8616.

DC-C-108

Before Commissioners: C. M. Butler III, Chairman;  
Georgiana Sheldon, J. David Hughes,  
A. G. Sousa and Oliver G. Richard III.

High-Cost Gas Produced ) Docket No. RM79-76-103  
from Tight Formations ) (New Mexico - 9)

ORDER NO. 262

FINAL RULE

(Issued September 30, 1982)

The Commission hereby amends § 271.703(d) of its regulations to include the Dakota Producing Interval in San Juan County, New Mexico, as a designated tight formation eligible for incentive pricing under §271.703. The amendment was proposed in a Notice of Proposed Rulemaking by the Director, Office of Pipeline and Producer Regulation, issued March 3, 1982 (47 Fed. Reg. 10241, March 10, 1982), <sup>1/</sup> based on a recommendation by the State of New Mexico Energy and Minerals Department, Oil Conservation Division (New Mexico) in accordance with § 271.703, that the Dakota Producing Interval be designated as a tight formation.

The Commission received two comments in response to the Notice of Proposed Rulemaking in this docket, one jointly filed by Southern California Gas Company and Pacific Lighting Gas Supply Company (SoCal) and one from Pacific Gas and Electric Company (PG&E).

Both commenters noted that New Mexico Order No. R-1670-V, issued May 22, 1979, authorized infill drilling in the Basin Dakota Gas Pool. The fact that the recommended area is subject

<sup>1/</sup> No party requested a hearing and no hearing was held.

Docket No. RM79-76-103

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to an infill drilling order, the commenters argue, indicates that certain areas within the recommended formation may be subject to exclusion from the tight formation designation under § 271.703(c)(2)(i)(D). Section 271.703(c)(2)(i)(D) provides that:

If the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency has information which in its judgment indicates that such formation or portion subject to infill drilling can be developed absent the incentive price established in paragraph (a) of this section then the jurisdictional agency shall not include such formation or portion thereof in its recommendation.

Section 271.703(b)(6) defines infill drilling as any drilling in a substantially developed formation or portion thereof, subject to well spacing or proration unit requirements which were amended by the jurisdictional agency after the formation or portion thereof was substantially developed, and which were adopted for the purpose of more effective and efficient drainage of the reservoirs in such formation. Therefore, if the recommended formation was substantially developed at the time that Order No. R-1670-V was issued, then such area should be excluded from the tight formation designation.

The recommended area was governed by special rules and regulations promulgated by New Mexico in Order No. R-1670-C, issued November 4, 1960. This order consolidated all Dakota Producing Interval production in San Juan and Rio Arriba Counties, created the Basin Dakota Gas Pool, and established 320 acre gas proration units. Order No. R-1670-V retained the 320 acre units, but allowed the drilling of an additional well on each unit. There are 304 drilling units contained in the

Docket No. RM79-76-103

- 3 -

recommended area. Prior to the issuance of Order No. R-1670-V, wells had been completed on 23 of these units, representing 7.6% of the available drilling sites. The Commission therefore finds that the recommended area does not fall within the infill drilling exclusion because the area was not substantially developed at the time the infill drilling order was issued.

SoCal also raised specific questions concerning the recommendation. <sup>2/</sup> In Exhibit No. 6, the applicant before New Mexico presented pressure data for calculation of the permeability of the Patterson "B" well; however, a shut-in bottom hole pressure from a well 9,600 feet south of this well was used for this calculation. SoCal questions the accuracy of permeability figures based on data from more than one well. The Commission recognizes that it is an accepted procedure when working with formations of low permeability characteristics to use data from other wells, since the bottom hole pressure will not vary appreciably across the area, and the amount of time needed for the pressure to build back up in a recently drilled well is too long for practical measurement.

<sup>2/</sup> SoCal notes that a transcript of the New Mexico proceeding was not in the Commission's files, and that this made it impossible for SoCal to correctly evaluate the data submitted in support of the recommendation. The Commission staff had requested a copy of the transcript from New Mexico, but did not receive it until after SoCal's comments were filed. There is no affirmative requirement that a jurisdictional agency submit a transcript with its recommendation. However, SoCal was informed of the receipt of the transcript, and had an opportunity to examine it. SoCal has not filed any additional comments since the transcript was received. Moreover, the Commission's review of the transcript indicates that it does not contain any type of data that was not included in the recommendation as initially received by the Commission.

With respect to Exhibit No. 7, SoCal questioned the validity of using a calculated "shut-in bottom hole pressure at boundary radius" (which measures wellhead pressure) in determining in situ permeability for the Southland Pierce No. 2 Well. The Commission finds that this is a standard petroleum engineering practice to calculate bottom hole pressure from a wellhead pressure by using a generally accepted formula.

SoCal further questioned Exhibit No. 13, which gives cumulative oil production data for several wells in the area, but which gives no rate of oil production, in light of § 271.703(c)(2)(1)(C), which provides that no well drilled in the tight formation is expected to produce, before stimulation, more than five barrels of crude oil per day. In response to an inquiry by Commission staff, a letter was submitted by the applicant to New Mexico, dated July 23, 1982, in which it clarified the evidence in this exhibit, by stating that (1) oil and condensate production is not distinguished by the producer when reporting to New Mexico, (2) the production listed in the exhibit is post-stimulation condensate production and (3) there is no actual oil production from the wells listed in the exhibit.

Finally, PG&E maintained that since El Paso Natural Gas Company, which has an extensive infill drilling program in the San Juan Basin, is able to price gas produced through this program on a cost-of-service basis, it is guaranteed full recovery of its costs and expenses, plus a reasonable rate of return. PG&E argues therefore that an incentive price is not necessary or justified. The Commission has already addressed this issue

in two prior tight formation orders, Order No. 235, Docket No. RM79-76-097 (New Mexico - 8), issued June 4, 1982, and Order No. 244, Docket No. RM79-76-109 (New Mexico - 12), issued August 4, 1982. The Commission stated, in Order No. 244:

The issue in this docket is whether the recommended . . . [f]ormation meets the standards prescribed in § 271.703(c). Moreover, there are or can be gas producers in the recommended formation other than El Paso, which do not receive cost-of-service pricing for gas produced therefrom. Finally, the tight formation incentive price is a ceiling price, and as such there is no guarantee that a producer, including a pipeline, will be able to charge and collect that price. <sup>3/</sup>

This rationale is equally applicable in this case.

Based upon the above discussion, the Commission finds that the evidence submitted by New Mexico supports the assertion that the Dakota Producing Interval meets the guidelines contained in § 271.703(c)(2)(1). The Commission adopts the New Mexico recommendation.

This amendment shall become effective immediately. The Commission has found that the public interest dictates that new natural gas supplies be developed on an expedited basis, and, therefore, incentive prices should be made available as soon as possible. The need to make incentive prices immediately available establishes good cause to waive the thirty-day publication period.

<sup>3/</sup> Mimeo at p. 2.

List of Subjects in 18 C.F.R. Part 271:

Natural gas, incentive price, Tight formations.

(Department of Energy Organization Act, 42 U.S.C. §§ 7101 et seq.; Natural Gas Policy Act of 1978, 15 U.S.C. §§ 3301 - 3432; Administrative Procedure Act, 5 U.S.C. § 553.)

In consideration of the foregoing, Part 271 of Subchapter H, Chapter I, Code of Federal Regulations, is amended as set forth below, effective September 30, 1982.

By the Commission.

( S E A L )

*Kenneth F. Plumb*  
Kenneth F. Plumb,  
Secretary.

Section 271.703(d) is revised by adding new subparagraph (110) to read as follows:

§ 271.703 Tight formations.

\* \* \* \* \*

(d) Designated tight formations.

\* \* \* \* \*

(110) The Dakota Producing Interval in New Mexico.

RM79-76-103 (New Mexico - 8).

(i) Delineation of formation. The Dakota Producing Interval is found within the Basin-Dakota Gas Pool in the northwestern portion of the San Juan Basin near the Hogback Monocline. It is found in San Juan County, in Township 31 North, Range 10 West, NMPM, Sections 1 through 36; Township 31 North Range 11 West, NMPM, Sections 1, 12, 13, 22 through 27 and 34, 35 and 36; Township 32 North, Range 10 West, NMPM, Sections 7 through 36; Township 32 North, Range 11 West, NMPM, Sections 7 through 27 and 34, 35 and 36; Township 32 North, Range 12 West, NMPM, Sections 7 through 24, 28 through 31; and Township 32 North, range 13 West, NMPM, Sections 7 through 29 and 32 through 36.

(ii) Depth. The Dakota Producing Interval begins at the base of the Greenhorn Limestone and consists of the Graneros Formation, the Dakota Formation and the productive upper limit of the Morrison Formation. The average depth to the top of the Dakota Producing Interval is 6,753 feet. The gross thickness of the interval averages 400 feet.

(B) *Depth.* The Wattenberg J Sand Formation ranges in depth from 7,600 feet to 8,400 feet. The average depth is 8,000 feet.

(ii) *The J Sand Formation.*—(A) *Delineation of formation.* This formation underlies all or portions of Townships 1 and 2 South, Ranges 69 and 70 West; Townships 1 and 2 North, Range 70 West; Townships 3 and 4 North, Ranges 69 and 70 West; Township 5 North, Range 63 West; and Township 6 North, Ranges 63 through 69 West, 6th P. M.

(B) *Depth.* The J Sand Formation ranges from a depth of 7,600 feet to 8,400 feet. The average depth is approximately 8,000 feet.

(FR Doc. 82-27433 Filed 10-5-82; 8:45 am)

BILLING CODE 6717-01-M

### 18 CFR Part 271

[Docket No. RM79-76-103 (New Mexico—9); Order No. 262]

### High-Cost Gas Produced From Tight Formations; New Mexico; Final Rule

**AGENCY:** Federal Energy Regulatory Commission, DOE.

**ACTION:** Final rule.

**SUMMARY:** The Federal Energy Regulatory Commission is authorized by section 107(c)(5) of the Natural Gas Policy Act of 1978 to designate certain types of natural gas as high-cost gas where the Commission determines that the gas is produced under conditions which present extraordinary risks or costs. Under section 107(c)(5), the Commission issued a final regulation designating natural gas produced from tight formations as high-cost gas which may receive an incentive price (18 CFR 271.703). This rule established procedures for jurisdictional agencies to submit to the Commission recommendations of areas for designation as tight formations. This final order adopts the recommendation of the State of New Mexico Energy and Minerals Department, Oil Conservation Division, that the Dakota Producing Interval be designated as a tight formation under § 271.703(d).

**EFFECTIVE DATE:** This rule is effective September 30, 1982.

**FOR FURTHER INFORMATION CONTACT:** Leslie Lawner, (202) 357-8511 or Victor Zabel, (202) 357-8816.

**SUPPLEMENTARY INFORMATION:**

The Commission hereby amends § 271.703(d) of its regulations to include the Dakota Producing Interval in San Juan County, New Mexico, as a

designated tight formation eligible for incentive pricing under § 271.703. The amendment was proposed in a Notice of Proposed Rulemaking by the Director, Office of Pipeline and Producer Regulation, issued March 3, 1982 (47 FR 10241, March 10, 1982),<sup>1</sup> based on a recommendation by the State of New Mexico Energy and Minerals Department, Oil Conservation Division (New Mexico) in accordance with § 271.703, that the Dakota Producing Interval be designated as a tight formation.

The Commission received two comments in response to the Notice of Proposed Rulemaking in this docket, one jointly filed by Southern California Gas Company and Pacific Lighting Gas Supply Company (SoCal) and one from Pacific Gas and Electric Company (PG&E).

Both commenters noted that New Mexico Order No. R-1670-V, issued May 22, 1979, authorized infill drilling in the Basin Dakota Gas Pool. The fact that the recommended area is subject to an infill drilling order, the commenters argue, indicates that certain areas within the recommended formation may be subject to exclusion from the tight formation designation under § 271.703(c)(2)(i)(D). Section 271.703(c)(2)(i)(D) provides that:

If the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency has information which in its judgment indicates that such formation or portion subject to infill drilling can be developed absent the incentive price established in paragraph (a) of this section then the jurisdictional agency shall not include such formation or portion thereof in its recommendation.

Section 271.703(b)(6) defines infill drilling as any drilling in a substantially developed formation or portion thereof, subject to well spacing or proration unit requirements which were amended by the jurisdictional agency after the formation or portion thereof was substantially developed, and which were adopted for the purpose of more effective and efficient drainage of the reservoirs in such formation. Therefore, if the recommended formation was substantially developed at the time that Order No. R-1670-V was issued, then such area should be excluded from the tight formation designation.

The recommended area was governed by special rules and regulations promulgated by New Mexico in Order No. R-1670-C, issued November 4, 1960. This order consolidated all Dakota

<sup>1</sup> No party requested a hearing and no hearing was held.

Producing Interval production in San Juan and Rio Arriba Counties, created the Basin Dakota Gas Pool, and established 320 acre gas proration units. Order No. R-1670-V retained the 320 acre units, but allowed the drilling of an additional well on each unit. There are 304 drilling units contained in the recommended area. Prior to the issuance of Order No. R-1670-V, wells had been completed on 23 of these units, representing 7.6% of the available drilling sites. The Commission therefore finds that the recommended area does not fall within the infill drilling exclusion because the area was not substantially developed at the time the infill drilling order was issued.

SoCal also raised specific questions concerning the recommendation.<sup>2</sup> In Exhibit No. 6, the applicant before New Mexico presented pressure data for calculation of the permeability of the Patterson "B" well; however, a shut-in bottom hole pressure from a well 9,600 feet south of this well was used for this calculation. SoCal questions the accuracy of permeability figures based on data from more than one well. The Commission recognizes that it is an accepted procedure when working with formations of low permeability characteristics to use data from other wells, since the bottom hole pressure will not vary appreciably across the area, and the amount of time needed for the pressure to build back up in a recently drilled well is too long for practical measurement.

With respect to Exhibit No. 7, SoCal questioned the validity of using a calculated "shut-in bottom hole pressure at draining radius" (which measures wellhead pressure) in determining *in situ* permeability for the Southland Pierce No. 2 Well. The Commission finds that this is a standard petroleum engineering practice to calculate bottom hole pressure from a wellhead pressure by using a generally accepted formula.

SoCal further questioned Exhibit No. 13, which gives cumulative oil

<sup>2</sup> SoCal notes that a transcript of the New Mexico proceeding was not in the Commission's files, and that this made it impossible for SoCal to correctly evaluate the data submitted in support of the recommendation. The Commission staff had requested a copy of the transcript from New Mexico, but did not receive it until after SoCal's comments were filed. There is no affirmative requirement that a jurisdictional agency submit a transcript with its recommendation. However, SoCal was informed of the receipt of the transcript, and had an opportunity to examine it. SoCal has not filed any additional comments since the transcript was received. Moreover, the Commission's review of the transcript indicates that it does not contain any type of data that was not included in the recommendation as initially received by the Commission.

production data for several wells in the area, but which gives no rate of oil production, in light of

§ 271.703(c)(2)(i)(C), which provides that no well drilled in the tight formation is expected to produce, before stimulation, more than five barrels of crude oil per day. In response to an inquiry by Commission staff, a letter was submitted by the applicant to New Mexico, dated July 23, 1982, in which it clarified the evidence in this exhibit, by stating that (1) oil and condensate production is not distinguished by the producer when reporting to New Mexico, (2) the production listed in the exhibit is post-stimulation condensate production, and (3) there is no actual oil production from the wells listed in the exhibit.

Finally, PG&E maintained that since El Paso Natural Gas Company, which has an extensive infill drilling program in the San Juan Basin, is able to price gas produced through this program on a cost-of-service basis, it is guaranteed full recovery of its costs and expenses, plus a reasonable rate of return. PG&E argues therefore that an incentive price is not necessary or justified. The Commission has already addressed this issue in two prior tight formation orders. Order No. 235, Docket No. RM79-76-097 (New Mexico-8), issued June 4, 1982, and Order No. 244, Docket No. RM79-76-109 (New Mexico-12), issued August 4, 1982. The Commission stated in Order No. 244:

The issue in this docket is whether the recommended . . . (f) formation meets the standards prescribed in § 271.703(c). Moreover, there are or can be gas producers in the recommended formation other than El Paso, which do not receive cost-of-service pricing for gas produced therefrom. Finally, the tight formation incentive price is a ceiling price, and as such there is no guarantee that a producer, including a pipeline, will be able to charge and collect that price.

This rationale is equally applicable in this case.

Based upon the above discussion, the Commission finds that the evidence submitted by New Mexico supports the assertion that the Dakota Producing Interval meets the guidelines contained in § 271.703(c)(2)(i). The Commission adopts the New Mexico recommendation.

This amendment shall become effective immediately. The Commission has found that the public interest dictates that new natural gas supplies be developed on an expedited basis, and, therefore, incentive prices should be made available as soon as possible. The need to make incentive prices

immediately available establishes good cause to waive the thirty-day publication period.

#### List of Subjects in 18 CFR Part 271

Natural gas, incentive price, Tight formations.

(Department of Energy Organization Act, 42 U.S.C. 7101 et seq.; Natural Gas Policy Act of 1978, 15 U.S.C. 3301-3432; Administrative Procedure Act, 5 U.S.C. 553)

In consideration of the foregoing, Part 271 of Subchapter H, Chapter I, Code of Federal Regulations, is amended as set forth below, effective September 30, 1982.

By the Commission:

Kenneth F. Frank, Assistant Secretary,  
September 30, 1982.

#### PART 271 [AMENDED]

Section 271.703 is amended by adding new paragraph (d)(110) to read as follows:

#### § 271.703: Tight formations.

(d) Designated tight formations. (110) The Dakota Producing Interval in New Mexico. RM79-76-103 (New Mexico-9). (i) Delineation of formation: The Dakota Producing Interval is found within the Basin-Dakota Gas Pool in the northwestern portion of the San Juan Basin near the Hogback Monocline. It is found in San Juan County, in Township 31 North, Range 10 West, NMPM, Sections 1 through 38; Township 31 North, Range 11 West, NMPM, Sections 1, 14, 13, 22 through 27 and 34, 35 and 38; Township 32 North, Range 10 West, NMPM, Sections 7 through 38; Township 32 North, Range 11 West, NMPM, Sections 7 through 27 and 34, 35 and 38; Township 32 North, Range 12 West, NMPM, Sections 7 through 24, 28 through 31; and Township 32 North, Range 13 West, NMPM, Sections 7 through 29 and 32 through 36.

(ii) Depth. The Dakota Producing Interval begins at the base of the Greenhorn Limestone and consists of the Graneros Formation, the Dakota Formation and the productive upper limit of the Morrison Formation. The average depth to the top of the Dakota Producing Interval is 6,753 feet. The gross thickness of the interval averages 400 feet.

[FR Doc. 82-27049 Filed 10-6-82; 44115]

#### 18 CFR Part 271

[Docket No. RM79-76-090 (Texas-16); Order No. 283]

#### High-Cost Gas Produced From Tight Formations; Texas; Final Rule

AGENCY: Federal Energy Regulatory Commission, DOE.

ACTION: Final rule.

**SUMMARY:** The Federal Energy Regulatory Commission is authorized by section 107(c)(5) of the Natural Gas Policy Act of 1978 to designate certain types of natural gas as high-cost gas where the Commission determines that the gas is produced under conditions which present extraordinary risks or costs. Under section 107(c)(5), the Commission issued a final regulation designating natural gas produced from tight formations as high-cost gas which may receive an incentive price (18 CFR 271.703). This rule established procedures for jurisdictional agencies to submit to the Commission recommendations of areas for designation as tight formations. This final order adopts the recommendation of the Railroad Commission of Texas that the Olmos Formation be designated as a tight formation under § 271.703(d).

**EFFECTIVE DATE:** This rule is effective September 30, 1982.

**FOR FURTHER INFORMATION CONTACT:** Leslie Lawner, (202) 357-8511 or Walter Lawson, (202) 357-8556.

#### SUPPLEMENTARY INFORMATION:

The Commission hereby amends § 271.703(d) of its regulations to include the Olmos Formation in parts of Webb and Dimmit Counties, Texas as a designated tight formation eligible for incentive pricing under § 271.703. The amendment was proposed in a Notice of Proposed Rulemaking by the Director, Office of Pipeline and Producer Regulation, issued December 7, 1981 (46 FR 60467, December 10, 1981) based on a recommendation by the Railroad Commission of Texas (Texas) in accordance with § 271.703, that the Olmos Formation be designated as a tight formation.

Evidence submitted by Texas<sup>2</sup> supports the assertion that the Olmos

<sup>1</sup> Comments were invited on the proposed rule and two comments supporting the recommendation were received. No party requested a hearing and no hearing was held.

<sup>2</sup> The calculations for permeability and flow rates submitted by Texas are based on median values, rather than average values. However, using supplemental data supplied by Texas in response to a request from the Commission, the Commission has determined that the arithmetic average values for permeability and flow rates for the subject formation also satisfy the Commission's guidelines in § 271.703(c)(2).

(ii) *Depth.* The producing interval of the Dakota-Lakota Formation is approximately 175 to 185 feet thick, and begins at the base of the Skull Creek Formation and extends to the top of the Morrison Formation. The average depth to the top of the Dakota-Lakota Formation is 9,100 feet.

(109) *Codell Formation in Colorado.* RM79-76-122 (Colorado—25).

(i) *Delineation of formation.* The Codell Formation underlies portions of Adams, Boulder, Jefferson, Larimer and Weld Counties, Colorado, and is located on the western flank of the Denver-Julesberg Basin a few miles north of Denver, Colorado. The Codell Formation is found in the following areas: Township 1 South, Ranges 64 through 70 West; Township 2 South, Ranges 69 and 70 West; Township 1 North, Ranges 64 through 70 West; Township 2 North, Ranges 64 through 69 West, all sections, Range 70 West, Sections 1 through 5, and 8 through 36; Township 3 North, Ranges 64 through 69 West, all sections, Range 70 West, Sections 1, 12, 13, 21 through 28, and 33 through 36; Township 4 North, Ranges 64 through 69 West; Township 5 North, Ranges 64 through 68 West, all sections, Range 69 West, Sections 1 through 4, 9 through 16, 20 through 29, and 31 through 36, Township 6 North, Ranges 64 through 68, all sections, Range 69 West, Sections 1 through 4, 9 through 16, 21 through 28, and 33 through 36.

(ii) *Depth.* The Codell Formation ranges in depth from 3,000 to 8,000 feet, and is generally found at a depth of 7,000 feet, and averages 15 feet in thickness.

(110) *The Dakota Producing Interval in New Mexico.* RM79-76-103 (New Mexico—9). (i) *Delineation of formation.* The Dakota Producing Interval is found within the Basin-Dakota Gas Pool in the northwestern portion of the San Juan Basin near the Hogback Monocline. It is found in San Juan County, in Township 31 North, Range 10 West, NMPM, Sections 1 through 36; Township 31 North Range 11 West, NMPM, Sections, 1, 12, 13, 22 through 27 and 34, 35 and 36; Township 32 North, Range 10 West, NMPM, Sections 7 through 36; Township 32 North, Range 11 West, NMPM, Sections 7 through 27 and 34, 35 and 36; Township 32 North, Range 12 West, NMPM, Sections 7 through 24, 28 through 31; and Township 32 North, Range 13 WEST, NMPM, Sections 7 through 29 and 32 through 36.

(ii) *Depth.* The Dakota Producing Interval begins at the base of the Greenhorn Limestone and consists of the Graneros Formation, the Dakota Formation and the productive upper limit of the Morrison Formation. The average depth to the top of the Dakota Producing Interval is 6,753 feet. The gross thickness of the interval averages 400 feet.

(111) *The Olmos Formation in Texas.* RM79-76 (Texas—16)—(i) *Dimmit and Webb Counties—(A) Delineation of formation.* The Olmos Formation is located in the northwest portion of Webb County and the southern portion of Dimmit County in Texas. The Formation includes all of that portion of Dimmit County extending approximately 14 miles north of the boundary of Webb County, and all of that portion of northwest Webb County west of a north-south line extending south from a point approximately 1.5 miles east of the southwest corner of La Salle County, and north of an east-



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87506  
(505) 827-7131

**ADMINISTRATIVE ORDER DHC-1393**

Burlington Resources Oil & Gas Company  
P.O. Box 4289  
Farmington, New Mexico 87499-4289

Attention: Ms. Peggy Bradfield

*Culpepper Martin Well No. 1E (API No. 30-045-25114)  
Unit P, Section 31, Township 32 North, Range 12 West, NMPM,  
San Juan County, New Mexico.  
Blanco Mesaverde (Gas - 72319) and  
Basin Dakota (Prorated Gas - 71599) Pools*

Dear Ms. Bradfield:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the subject well to commingle production from multiple pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the subject zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

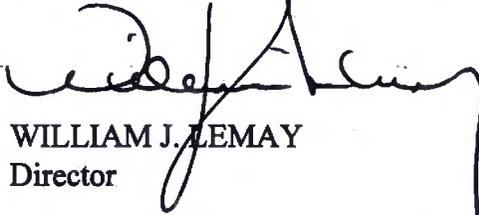
In accordance with the provisions of Rule 303.C., the supervisor of the Aztec District Office of the Oil Conservation Division shall determine the proper allocation of production from the subject well following its completion.

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 28th day of October, 1996.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY  
Director

SEAL

WJL/BES

cc: Oil Conservation Division - Aztec  
Bureau of Land Management - Farmington

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
P.O. 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

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

Form C-104  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
5 Copies

AMMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator Name and Address Burlington Resources Oil & Gas PO Box 4289 Farmington, NM 87499		<sup>2</sup> OGRID Number 14538
		<sup>3</sup> Reason for Filing Code CO - 7/11/96
<sup>4</sup> API Number 30-045-25114	<sup>5</sup> Pool Name BLANCO MESAVERDE (PRORATED GAS)	<sup>6</sup> Pool Code 72319
<sup>7</sup> Property Code 006935	<sup>8</sup> Property Name CULPEPPER MARTIN	<sup>9</sup> Well Number #1E

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

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
P	31	032N	012W		1110	S	830	E	SAN JUAN

<sup>11</sup> Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
25244	WILLIAMS FIELD SERVICES CO P.O. BOX 58900 SALT LAKE CITY, UT 84158-0900		G	P-31-T032N-R012W
9018	Giant Industries 5764 US Hwy 64 Farmington, NM 87401	1532710	O	P-31-T032N-R012W

IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> TD	<sup>28</sup> PBSD	<sup>29</sup> Perforations
<sup>30</sup> Hole Size	<sup>31</sup> Casing & Tubing Size	<sup>32</sup> Depth Set	<sup>33</sup> Sacks Cement	

VI. Well Test Data

<sup>34</sup> Date New Oil	<sup>35</sup> Gas Delivery Date	<sup>36</sup> Test Date	<sup>37</sup> Test Length	<sup>38</sup> Tbg. Pressure	<sup>39</sup> Csg. Pressure
<sup>40</sup> Choke Size	<sup>41</sup> Oil	<sup>42</sup> Water	<sup>43</sup> Gas	<sup>44</sup> AOF	<sup>45</sup> Test Method

<sup>46</sup> I hereby certify that the rules 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: *Dolores Diaz*

OIL CONSERVATION DIVISION

Approved by: Frank T. Chavez

Printed Name:  
Dolores Diaz

Title: District Supervisor

Title:  
Production Associate

Approved Date: July 11, 1996

Date:  
7/11/96

Phone  
(505) 326-9700

<sup>47</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

14538 Meridian Oil Production

Previous Operator Signature

Printed Name

Title

Date

Signature: *Dolores Diaz*

Dolores Diaz

Production Associate

7/11/96

District I  
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals, & Natural Resources Department

Form C-104  
Revised February 21, 1994

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

OIL CONSERVATION DIVISION

Instructions on back  
Submit to Appropriate District Office

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

PO Box 2088

5 Copies

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

Santa Fe, NM 87504-2088

AMMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator Name and Address Burlington Resources Oil & Gas PO Box 4289 Farmington, NM 87499		<sup>2</sup> OGRID Number 14538
		<sup>3</sup> Reason for Filing Code CO - 7/11/96
<sup>4</sup> API Number 30-045-25114	<sup>5</sup> Pool Name BASIN DAKOTA (PRORATED GAS)	<sup>6</sup> Pool Code 71599
<sup>7</sup> Property Code 006935	<sup>8</sup> Property Name CULPEPPER MARTIN	<sup>9</sup> Well Number #1E

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UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
P	31	032N	012W		1110	S	830	E	SAN JUAN

<sup>11</sup> Bottom Hole Location

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<sup>46</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Dolores Diaz</i> Printed Name: Dolores Diaz Title: Production Associate Date: 7/11/96 Phone: (505) 326-9700	OIL CONSERVATION DIVISION	
	Approved by: Frank T. Chavez	
	Title: District Supervisor	
	Approved Date: July 11, 1996	

<sup>47</sup> If this is a change of operator fill in the OGRID number and name of the previous operator			
14538 Meridian Oil Production	Previous Operator Signature	Printed Name	Title
	Signature: <i>Dolores Diaz</i>	Dolores Diaz	Production Associate
			Date: 7/11/96

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator <b>BURLINGTON RESOURCES</b> OIL &amp; GAS COMPANY</p> <hr/> <p>3. Address &amp; Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1110' FSL, 830' FEL, Sec. 31, T-32-N, R-12-W, NMPM, San Juan County</p>	<p>API # (assigned by OCD) 30-045-25114</p> <p>5. Lease Number Fee</p> <p>6. State Oil&amp;Gas Lease #</p> <p>7. Lease Name/Unit Name Culpepper Martin</p> <p>8. Well No. 1E</p> <p>9. Pool Name or Wildcat Blanco MV/Basin DK</p> <p>10. Elevation:</p>
---	--

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	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other - Commingle

13. Describe Proposed or Completed Operations

1-2-97 MIRU. TOOH w/135 jts 2 3/8" Mesaverde tbg. TOOH w/2 jts Dakota tbg. SDON.  
 1-3-97 TOOH w/90 jts Dakota tbg. TIH w/pkr plucker. Mill on pkr. TOOH w/pkr. SD for weekend.  
 1-6-97 TIH, tag fill @ 6957'. Blow well & CO to PBD @ 7017'. SDON.  
 1-7-97 Circ hole clean. SDON.  
 1-8-97 TOOH. TIH w/220 jts 2 3/8" 4.7# J-55 EUE tbg, landed @ 6948'. Blow well & CO. ND BOP. NU WH. RD. Rig released.

Well will produce as a Mesaverde/Dakota commingle under DHC-1393.

**RECEIVED**  
FEB 10 1997  
**OIL CON. DIV.**  
DIST. 3

SIGNATURE *[Signature]* Regulatory Administrator February 4, 1997

(This space for State Use)

2-10-97

Approved by *[Signature]* Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date FEB 10 1997

State of New Mexico  
 Energy, Minerals and Natural Resources Department  
 Oil Conservation Division

OIL CONSERVATION DIVISION  
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Sundry Notices and Reports on Wells

NOV 0 52

- |  |  |
|--|--|
| <p>1. Type of Well<br/>GAS</p> <hr/> <p>2. Name of Operator<br/><b>BURLINGTON RESOURCES</b><br/>OIL &amp; GAS COMPANY</p> <hr/> <p>3. Address &amp; Phone No. of Operator<br/>PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M<br/>1110' FSL, 830' FEL, Sec.31, T-32-N, R-12-W, NMPM, San Juan County</p> | <p>API # (assigned by OCD)<br/>30-045-25114</p> <p>5. Lease Number<br/>Fee</p> <p>6. State Oil&amp;Gas Lease #</p> <p>7. Lease Name/Unit Name<br/>Culpepper Martin</p> <p>8. Well No.<br/>1E</p> <p>9. Pool Name or Wildcat<br/>Blanco MV/Basin DK</p> <p>10. Elevation:</p> |
|--|--|

Type of Submission	Type of Action	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Commingle	

13. Describe Proposed or Completed Operations

It is intended to commingle the subject well according to the attached procedure and wellbore diagram. Down hole commingle order DHC-1393 has been obtained from the New Mexico Oil Conservation Division.

**RECEIVED**  
 NOV - 1 1996  
 OIL CON. DIV.  
 DIST. 3

SIGNATURE *John Brannick* (MEL4) Regulatory Administrator October 31, 1996

(This space for State Use)

Approved by *Ernie Branch* Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date NOV 05 1996

## Culpepper Martin SRC #1E

Mesaverde / Dakota  
Unit P Section 31, T32N, R12W  
Lat. 36.938049 Long. -108.129868 by TDG  
Commingle Workover Procedure 9/30/96

1. Hold safety meeting. Comply with all MOI, BLM and NMOCD rules and regulations. Dig flowback pit or set flowback tank. Install 1x400 bbl rig tank and fill w/ 2% KCL water.
2. Obtain and record all wellhead pressures. NU relief line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP.
3. TOOH w/ 2-3/8" Mesaverde tubing set at 4273'. TOOH w/ 2-3/8" Dakota tubing set at 6920' and Baker Model "F" seal assembly and lay down. Inspect tubing and report any scale build up. (An acid wash may be necessary and will be pumped in step 6.)
4. PU Baker CJ milling tool on 2-3/8" tubing and TIH. Mill on Baker Model "F" packer with air/mist. Recover packer and TOOH.
5. PU 4-3/4" bit and 5-1/2", 17# casing scraper on 2-3/8" workstring and clean out to PBTB of 7017'. Obtain pitot gauge and record on morning report.
6. If tubing did not have excessive scale in Step 3, skip to Step 7. RU acid truck and pump 300 gallons of inhibited 15% HCL down tubing followed by air/mist. Allow acid to spend for 15 minutes then displace from hole.
7. PU above the Mesaverde perforations @ 4559' and flow the well naturally, making short trips for clean up when necessary. Obtain pitot gauge from MV and DK after clean up. TOOH w/ bit and scraper.
8. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, a seating nipple (one joint off of bottom), then the remaining 2-3/8" production tubing. CO to PBTB. Land tubing near bottom perforation (6998').
9. ND BOP, NU single tubing hanger wellhead. Pump off expendable check. Obtain final pitot up the tubing. If well will not flow on it's own, make swab run to seating nipple. If a swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Approval:

\_\_\_\_\_  
Drilling Superintendent

Approval:

\_\_\_\_\_  
Northwest Basin Team Leader

**Contacts:**

Engineers:

Mary Ellen Lutey  
Office - (599-4052)  
Home - (325-9387)  
Pager - (324-2671)

Lori Lantz  
Office - (599-4024)  
Home - (324-0692)

MEL:mel

q:\area\ar45\1996proj\culpm1e\pro.doc

Pertinent Data Sheet

**CULPEPPER MARTIN #1 E**

Dual Mesaverde/Dakota Well

**Location:** Unit P SE/4 SE/4, Section 31, T32N, R12W, 830' FEL, 1110' FSL,  
Lat. 36.938049, Long. -108.129868 by TDG  
San Juan County, NM

**Field:** Blanco Mesaverde  
Basin Dakota

**Elevation:** 5875' GL  
**KB:** N/A

**TD:** 7065'  
**PBTD:** 7017'

**Spud Date:** 09-19-81

**Completed:** 03-21-82

**DP No:** MV: 12965S  
DK: 12964S

**Prop. No:** 071381700

**Casing/Liner Record:**

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cement</u>
13 1/2"	10 3/4"	40.5# K-55	318'	275 sxs	surface
9 7/8"	7 5/8"	26.4# K-55	4456'	800 sxs	surface
	5 1/2"	15.5# K-55	4299'-7062'	300 sxs	liner top

**Tubing Record:** 2 3/8" 4.7# EUE set @ 4273' and 6920'  
Baker Model "F" packer set @ 4898  
Plunger lift system installed

**Formation Tops:**

Ojo Alamo:	692'
Kirtland:	n/a
Fruitland:	n/a
Pictured Cliffs:	2195'
Lewis:	2328'
Cliffhouse:	3778'
Menefee:	4043'
Point Lookout:	4545'
Mancos:	4829'
Greenhorn:	6629'
Graneros Shale:	6717'
Graneros Sand:	6776'
Dakota:	6845'

**Logging Record:** GR/DIL GR/CDL; CNL CBL-VDL

**Perf/Stim History:**

<u>Mesaverde</u>	<u>Dakota</u>
4559'-4563'	6777'-6780'
4571'-4599'	6784'-6786'
4606'-4611'	6789'-6795'
4618'-4624'	6856'-6858'
4651'-4666'	6866'-6868'
4682,4706,4781,4803	6873'-6886'
4819'-4823'	6893'-6901'
Total 63 shots	6917'-6920'
	6928'-6935'
	6966'-6968'
	6972'-6998'
	Total 53 shots

Fracture stimulated with 124, 500 gal water and 118,000# sand.

Fracture stimulated with 135,000 gal gelled water, 68.5 tons CO2, and 170,000# sand.

# Culpepper Martin #1E

## Current 09-26-96

BLANCO MESAVERDE/BASIN DAKOTA  
UNIT P, SEC 31, T32N, R12W, SAN JUAN COUNTY, NM

SPUD: 09-19-81  
COMPLETED: 03-21-82

CONTAINS PLUNGER LIFT

OJO ALAMO @ 692'

PICTURED CLIFFS @ 2195'

LEWIS @ 2328'

CLIFFHOUSE @ 3778'

MENEFEE @ 4043'

POINT LOOKOUT @ 4545'

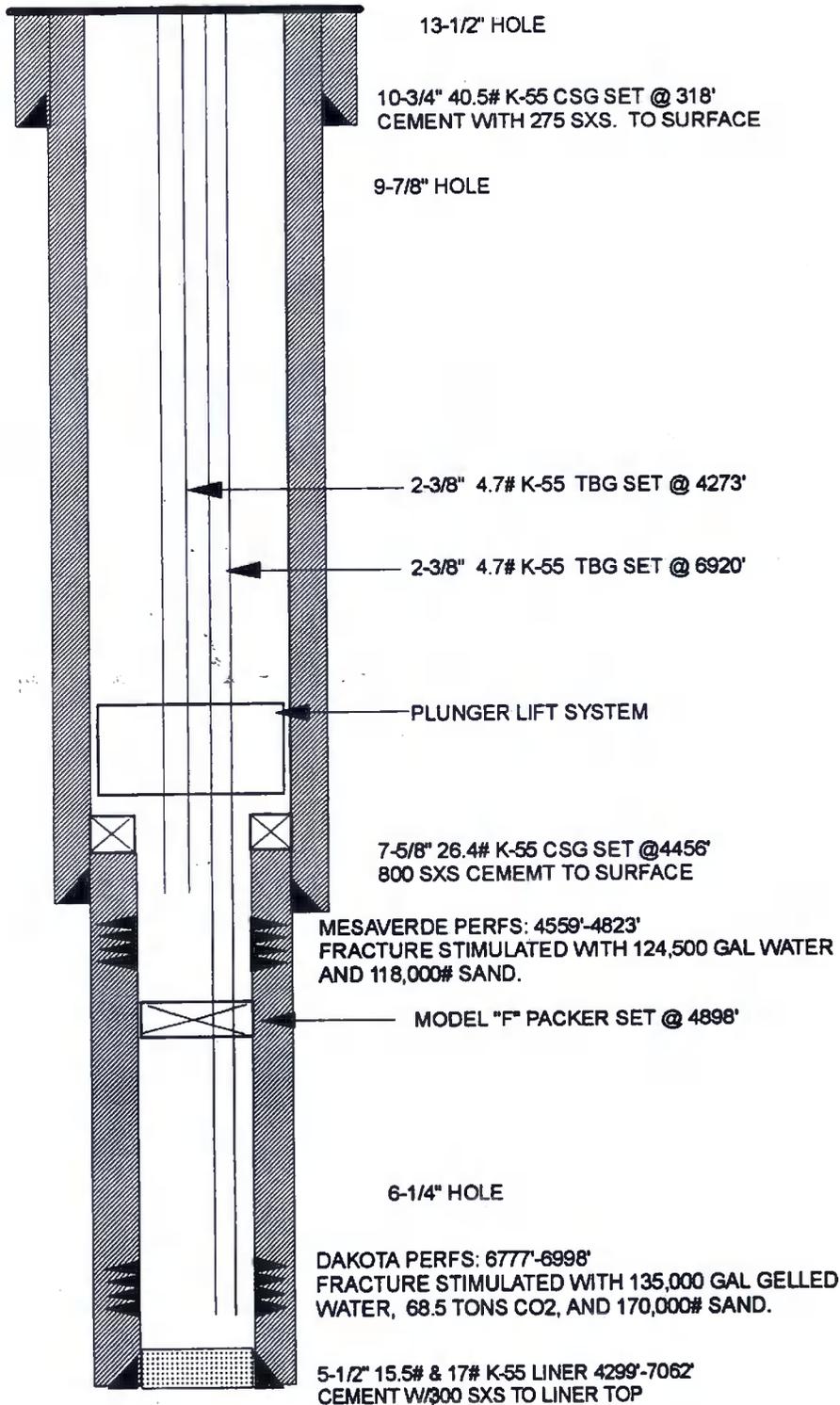
MANCOS @ 4829'

BASE GREENHORN @ 6629'

GRANEROS SH @ 6717'

GRANEROS SS @ 6776'

DAKOTA @ 6845'



TD: 7065'  
PBTD: 7017'

Submit 5 Copies  
Appropriate District Office  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Revised 1-1-89  
See Instructions  
at Bottom of Page

OIL CONSERVATION DIVISION

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

'91 OCT 2 AM 9 21

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

**I.**

Operator Meridian Oil Inc.	Well API No. 30-045-00000
Address P. O. Box 4289, Farmington, NM 87499	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
Effective 9/17/91	
If change of operator give name and address of previous operator UNION TEXAS PETROLEUM: P.O. BOX 2120, HOUSTON, TX 77252	

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name Culpepper Martin	Well No. 1E	Pool Name, including Formation Basin Dakota	Kind of Lease State, Federal or Fee	Lease No. Fee
Location Unit Letter <u>P</u> : <u>1110</u> Feet From The <u>south</u> Line and <u>830</u> Feet From The <u>east</u> Line Section <u>31</u> Township <u>32N</u> Range <u>12W</u> , <u>NMPM</u> , San Juan County				

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

Name of Authorized Transporter of Oil <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 4289; Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 26400, ALBUQUERQUE, NM 87125
If well produces oil or liquids, give location of tanks.	Unit   Sec.   Twp.   Rgs.   Is gas actually connected?   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	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations							Depth Casing Shoe	
<b>TUBING, CASING AND CEMENTING RECORD</b>								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

**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	<b>RECEIVED</b> MCF SEP 23 1991
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	

**GAS WELL**

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	<b>OIL CON. DIV.</b> DIST. 3
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	

**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.

*Leslie Kahwaj*  
Signature  
Leslie Kahwaj Production Analyst  
Printed Name  
9/20/91 505-326-9700  
Date Telephone No.

OIL CONSERVATION DIVISION

SEP 23 1991

Date Approved \_\_\_\_\_  
By *Brian J. Shaw*  
SUPERVISOR DISTRICT #3  
Title \_\_\_\_\_

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

- Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- All sections of this form must be filled out for allowable on new and recompleted wells.
- Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

Submit 5 Copies  
Appropriate District Office  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
Form C-104  
Revised 1-1-89  
See Instructions  
at Bottom of Page  
91 OCT 2 AM 9 21

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

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

I.

Operator Meridian OIL Inc.	Well API No. 30-045-00000
Address P. O. Box 4289, Farmington, NM 87499	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
Effective 9/17/91	
If change of operator give name and address of previous operator UNION TEXAS PETROLEUM: P.O. BOX 2120, HOUSTON, TX 77252	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Culpepper Martin	Well No. 1E	Pool Name, Including Formation Blanco Mesaverde	Kind of Lease State, Federal or Fee	Lease No. Fee
Location Unit Letter <u>P</u> : <u>1110</u> Feet From The <u>south</u> Line and <u>830</u> Feet From The <u>east</u> Line Section <u>31</u> Township <u>32N</u> Range <u>12W</u> , <u>NMPM</u> , San Juan County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Meridian Oil Inc.	P.O. Box 4289; Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
SUN TERRA GAS GATHERING CO.	P.O. BOX 26400, ALBUQUERQUE, NM 87125
If well produces oil or liquids, give location of tanks.	Unit   Sec.   Twp.   Rge.   Is gas actually connected?   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	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations				Depth Casing Shoe				
<b>TUBING, CASING AND CEMENTING RECORD</b>								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

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	
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	

**RECEIVED**  
MCF  
SEP 23 1991

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

**OIL CON. DIV**  
DIST

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.

Lestie Kahwajy  
Signature  
Lestie Kahwajy Production Analyst  
Printed Name  
(/20/91) 505-326-9700  
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved SEP 23 1991  
By [Signature]  
SUPERVISOR DISTRICT #3  
Title \_\_\_\_\_

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.

Submit 5 Copies  
Appropriate District Office  
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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

Form C-104  
Revised 1-1-89  
See Instructions  
at Bottom of Page

OCT 12 PM 1 18

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

I. Operator Union Texas Petroleum Corporation Well API No. \_\_\_\_\_  
Address P.O. Box 2120 Houston, Texas 77252-2120

Reason(s) for Filing (Check proper box) \_\_\_\_\_ Other (Please explain) \_\_\_\_\_  
New Well \_\_\_\_\_  
Recompletion \_\_\_\_\_  
Change in Operator \_\_\_\_\_  
Change in Transporter of:  
Oil  Dry Gas   
Casinghead Gas  Condensate

II. DESCRIPTION OF WELL AND LEASE  
Lease Name Culpepper Martin Well No. #1E Pool Name, including Formation BLANCO Mesaverde Kind of Lease \_\_\_\_\_ Lease No. \_\_\_\_\_  
Location Unit Letter P : 1110 Feet From The S Line and 330 Feet From The E Line  
Section 31 Township 32N Range 12W NMPM. JAN JUAN County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS  
Name of Authorized Transporter of Oil  or Condensate  Address (Give address to which approved copy of this form is to be sent) Meridian Oil Inc. P.O. Box 4289, Farmington, NM 87499  
Name of Authorized Transporter of Casinghead Gas  or Dry Gas  Address (Give address to which approved copy of this form is to be sent) Sunterra Gas Gathering Co. P.O. Box 26400, Albuquerque, NM 87125

IV. COMPLETION DATA  
If well produces oil or liquids, give location of tanks. \_\_\_\_\_  
If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

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 \_\_\_\_\_ Length of Test \_\_\_\_\_ Bbls. Condensate/MMCF \_\_\_\_\_ Gravity of Condensate \_\_\_\_\_  
Testing Method (pilot, back pr.) \_\_\_\_\_ Tubing Pressure (Shut-in) \_\_\_\_\_ Casing Pressure (Shut-in) \_\_\_\_\_ Choke Size \_\_\_\_\_

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.  
Annette C. Bisby  
Signature Annette C. Bisby Env. & Reg. Sec'rtry  
Printed Name \_\_\_\_\_ Title \_\_\_\_\_  
8-7-89 (713) 968-4012  
Date \_\_\_\_\_ Telephone No. \_\_\_\_\_

OIL CONSERVATION DIVISION  
Date Approved AUG 28 1989  
By [Signature]  
SUPERVISION DISTRICT # 3  
Title \_\_\_\_\_

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) See Form C-104 for instructions on how to file this form.

Submit 5 Copies  
 Appropriate District Office  
 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

State of New Mexico  
 Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
 P.O. Box 2088  
 Santa Fe, New Mexico 87504-2088

Form C-104  
 Revised 1-1-89  
 See Instructions  
 at Bottom of Page

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 89 OCT 12 PM 1 18

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

I. Operator Union Texas Petroleum Corporation Well API No. \_\_\_\_\_

Address P.O. Box 2120 Houston, Texas 77252-2120

Reason(s) for Filing (Check proper box) \_\_\_\_\_ Other (Please explain) \_\_\_\_\_

New Well  Change in Transporter of:  
 Recompletion  Oil  Dry Gas   
 Change in Operator  Casinghead Gas  Condensate

If change of operator give name and address of previous operator \_\_\_\_\_

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name Culpepper Martin Well No. #1E Pool Name, including Formation Basin (Dakota) Kind of Lease \_\_\_\_\_ Lease No. \_\_\_\_\_  
 State, Federal or Fee \_\_\_\_\_ Fee \_\_\_\_\_

Location Unit Letter P 1110 Feet From The S Line and 830 Feet From The E Line  
 Section 31 Township 22N Range 12W NMPM, SAN JUAN County

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

Name of Authorized Transporter of Oil  or Condensate  Address (Give address to which approved copy of this form is to be sent)  
Meridian Oil Inc. P.O. Box 4289, Farmington, NM 87499

Name of Authorized Transporter of Casinghead Gas  or Dry Gas  Address (Give address to which approved copy of this form is to be sent)  
Sunterra Gas Gathering Co. P.O. Box 26400, Albuquerque, NM 87125

If well produces oil or liquids, give location of tanks. Unit \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rgs. \_\_\_\_\_ Is gas actually connected? \_\_\_\_\_ 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	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Perforations	Depth Casing Shoe							
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					

**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 \_\_\_\_\_ Length of Test \_\_\_\_\_ Bbls. Condensate/MMCF \_\_\_\_\_ Gravity of Condensate \_\_\_\_\_  
 Testing Method (pilot, back pr.) \_\_\_\_\_ Tubing Pressure (Shut-in) \_\_\_\_\_ Casing Pressure (Shut-in) \_\_\_\_\_ Choke Size \_\_\_\_\_

**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.  
Annette C. Bisby  
 Signature \_\_\_\_\_ Env. & Reg. Sec'rtry  
 Printed Name \_\_\_\_\_ Title \_\_\_\_\_  
 8-7-89 (713) 968-4012  
 Date \_\_\_\_\_ Telephone No. \_\_\_\_\_

**OIL CONSERVATION DIVISION**  
 Date Approved AUG 28 1989  
 By [Signature]  
 SUPERVISOR DISTRICT # 3  
 Title \_\_\_\_\_

**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 well in multiple completed wells.

101200

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 JUN 29 1987  
 OIL CONSERVATION DIVISION

**STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT**

Form C-104  
Revised 10-01-78  
Format 08-01-83  
Page 1

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**OIL CONSERVATION DIVISION**  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

**RECEIVED**

JUN 18 1987

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

**OIL CON. DIV./  
DIST. 3**

**I.**

Operator  
Union Texas Petroleum Corporation

Address  
375 US Highway 64, Farmington, NM 87401

Reason(s) for filing (Check proper box)      Other (Please explain)

<input type="checkbox"/> New Well	Change in Transporter of:	<input checked="" type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input type="checkbox"/> Condensate
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	

If change of ownership give name and address of previous owner \_\_\_\_\_

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name Culpepper Martin	Well No. 1E	Pool Name, including Formation Basin Dakota	Kind of Lease State, Federal or Fee	Lease No. Fee
Location Unit Letter <u>P</u> ; <u>1110</u> Feet From The <u>South</u> Line and <u>830</u> Feet From The <u>East</u> Line of Section <u>31</u> Township <u>32N</u> Range <u>12W</u> , NMPM, <u>San Juan</u> Count				

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

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Conoco, Inc. Surface Trans.	P. O. Box 1429, Bloomfield, NM 87413
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Sunterra Gas Gathering Company	P. O. Box 1809, Bloomfield, NM 87413
(If well produces oil or liquids, give location of tanks.)	Is gas actually connected? when
Unit    Sec.    Twp.    Rge. P    31    32N    12W	

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

**NOTE: Complete Parts IV and V on reverse side if necessary.**

**VI. 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 is true and complete to the best of my knowledge and belief.

Robert C. Frank  
(Signature)  
Permit Coordinator

June 16, 1987  
(Date)

**OIL CONSERVATION DIVISION**

APPROVED Frank J. Gandy JUN 18 1987

BY \_\_\_\_\_

TITLE SUPERVISOR DISTRICT 3

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the device tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for all able on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter or other such change of condition.  
Separate Forms C-104 must be filed for each pool in multi-completed wells.

**IV. COMPLETION DATA**

<b>Designate Type of Completion - (X)</b>		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth			
Perforations						Depth Casing Shoe			

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**V. TEST DATA AND REQUEST FOR ALLOWABLE** (Test must be after recovery of total volume of load oil and must be equal to or exceed top oil able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	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	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

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ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-104  
Revised 10-01-78  
Format 08-01-83  
Page 1

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JUN 18 1987  
OIL CON. DIV.  
DIST. 3

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator  
Union Texas Petroleum Corporation

Address  
375 US Highway 64, Farmington, NM 87401

Reason(s) for filing (Check proper box) Other (Please explain)

<input type="checkbox"/> New Well	Change in Transporter of:	<input checked="" type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input type="checkbox"/> Condensate
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> casinghead Gas	

If change of ownership give name and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name Culpepper Martin	Well No. 1E	Pool Name, including Formation Blanco Mesaverde	Kind of Lease State, Federal or Fee	Lease No. Fee
Location Unit Letter <u>P</u> ; <u>1110</u> Feet From The <u>South</u> Line and <u>830</u> Feet From The <u>East</u> Line of Section <u>31</u> Township <u>32N</u> Range <u>12W</u> , NMPM, <u>San Juan</u> Count				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Conoco, Inc. Surface Trans.	P. O. Box 1429, Bloomfield, NM 87413
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Sunterra Gas Gathering Company	P. O. Box 1809, Bloomfield, NM 87413
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit <u>P</u> Sec. <u>31</u> Twp. <u>32N</u> Rge. <u>12W</u>	

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

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. 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 is true and complete to the best of my knowledge and belief.

Robert C. Frank  
(Signature)  
Permit Coordinator  
(Title)  
June 16, 1987  
(Date)

OIL CONSERVATION DIVISION

APPROVED JUN 18 1987 19  
BY Frank J. Gandy  
SUPERVISOR DISTRICT 30  
TITLE \_\_\_\_\_

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the device tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for all wells on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter or other such change of condition.  
Separate Forms C-104 must be filed for each pool in multicompleted wells.

**IV. COMPLETION DATA**

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resrv.	Diff. Res
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth			
Perforations						Depth Casing Shoe			

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**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 all able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	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	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

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OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Union Texas Petroleum Corporation

P. O. Box 1290, Farmington, New Mexico 87499

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APR 26 1985  
OIL CON. DIV.  
DIST. 3

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> casinghead Gas	<input checked="" type="checkbox"/> Condensate	
<input type="checkbox"/> Change in Ownership			

Other (Please explain)

Change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Well Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
Culpepper Martin	1-E	Basin Dakota	State, Federal or Fee	Fee

Unit Letter P : 1110 Feet From The South Line and 830 Feet From The East

Line of Section 31 Township 32N Range 12W , NMPM, San Juan County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil  or Condensate  Address (Give address to which approved copy of this form is to be sent):

Conoco, Inc. Surface Transportation P. O. Box 1429, Bloomfield, N.M. 87413

Name of Authorized Transporter of Casinghead Gas  or Dry Gas  Address (Give address to which approved copy of this form is to be sent):

Southern Union Gathering Company P. O. Box 26400, Albuquerque, N.M. 87125

Well produces oil or liquids, or location of tanks.	Unit	Sec.	Twp.	Range	Is gas actually connected?	When
	<u>P</u>	<u>31</u>	<u>32N</u>	<u>12W</u>	<u>Yes</u>	

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

NOTE: Complete Parts IV and V on reverse side if necessary.

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 is true and complete to the best of my knowledge and belief.

RECEIVED  
MAY 14 1985  
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SANTA FE

Kenneth E. Roddy  
Kenneth E. Roddy (Signature)  
Area Production Superintendent

(Title)

4/26/85

(Date)

OIL CONSERVATION DIVISION

APPROVED APR 26 1985, 19

BY Charles E. Johnson

TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

**V. COMPLETION DATA**

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resrv.	Diff. Re
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth			
Perforations						Depth Casing Shoe			

**TUBING, CASING, AND CEMENTING RECORD**

MOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**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 all able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	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

**GS WELL**

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Setting Method (pilot, back pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Choke Size

OIL CONSERVATION DIVISION  
 P. O. BOX 2088  
 SANTA FE, NEW MEXICO 87501

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REQUEST FOR ALLOWABLE  
 AND  
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Union Texas Petroleum Corporation  
 P. O. Box 1290, Farmington, New Mexico 87499

**RECEIVED**  
 APR 26 1985  
 OIL CON. DIV.  
 DIST. 3

Reason(s) for filing (Check proper box) Other (Please explain)

New Well  Change in Transporter of:  Oil  Dry Gas  
 Recompletion   Casinghead Gas  Condensate  
 Change in Ownership

Change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Well Name Culpepper Martin	Well No. 1-E	Pool Name, including Formation Blanco Mesaverde	Kind of Lease State, Federal or Fee	Lease No. Fee
Unit Letter P	1110	Feet From The South	Line and 830	Feet From The East
Line of Section 31	Township 32N	Range 12W	N.M.P.M. San Juan	County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Conoco, Inc. Surface Transportation	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1429, Bloomfield, N.M. 87413
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Southern Union Gathering Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 26400, Albuquerque, N.M. 87125
Well produces oil or liquids, location of tanks. Unit: P, Sec: 31, Twp: 32N, Rge: 12W	Is gas actually connected? Yes

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

NOTE: Complete Parts IV and V on reverse side if necessary.

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 is true and complete to the best of my knowledge and belief.

*Kenneth E. Roddy*  
 Kenneth E. Roddy (Signature)  
 Area Production Superintendent  
 (Title)  
 4/26/85  
 (Date)

**RECEIVED**  
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 SANTA FE

OIL CONSERVATION DIVISION  
 APR 26 1985  
 APPROVED \_\_\_\_\_ 19\_\_\_\_  
 BY *Charles Johnson*  
 DEPUTY OIL & GAS INSPECTOR, DIST. #3  
 TITLE \_\_\_\_\_

This form is to be filed in compliance with RULE 1104.  
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
 All sections of this form must be filled out completely for allowable on new and recompleted wells.  
 Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.  
 Separate Forms C-104 must be filed for each pool in multiply completed wells.

**V. COMPLETION DATA**

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resrv.	Diff. Re
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth			
Perforations						Depth Casing Shoe			

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**TEST DATA AND REQUEST FOR ALLOWABLE** (Test must be after recovery of total volume of load oil and must be equal to or exceed top all able for this depth or be for full 24 hours)

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

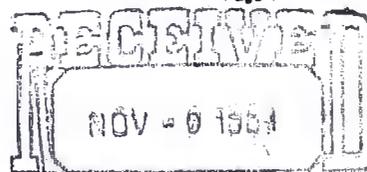
**IS WELL**

Initial Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Casing Method (plug, back pr.)	Tubing Pressure (Start-End)	Casing Pressure (Start-End)	Choke Size

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OIL CONSERVATION DIVISION  
 P. O. BOX 2088  
 SANTA FE, NEW MEXICO 87501

Form C-104  
 Revised 10-01-78  
 Format 06-01-83  
 Page 1



REQUEST FOR ALLOWABLE  
 AND  
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS CONSERVATION DIVISION  
 SANTA FE

owner  
 Union Texas Petroleum Corporation

address  
 P. O. Box 1290, Farmington, New Mexico 87499

reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Recombination	<input type="checkbox"/> Casinghead Gas	<input checked="" type="checkbox"/> Condensate	
<input type="checkbox"/> Change in Ownership			

Other (Please explain)



change of ownership give name and address of previous owner

OIL CON. DIV.  
 DIST. 3

DESCRIPTION OF WELL AND LEASE

Well Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Culpepper Martin	1-E	Basin Dakota	State, Federal or Fee	Fee

Location  
 Unit Letter P ; 1110 Feet From The South Line and 830 Feet From The East Corner  
 Line of Section 31 Township 32N Range 12W , NMPM, San Juan County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Gary Energy Corporation	P. O. Box 489, Bloomfield, N.M. 87413
name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Southern Union Gathering Company	P. O. Box 26400, Albuquerque, N.M. 87125

well produces oil or liquids, or location of tanks. Unit P Sec. 31 Twp. 32N Rge. 12W Is gas actually connected? Yes When \_\_\_\_\_

if its production is commingled with that from any other lease or pool, give commingling order number \_\_\_\_\_

NOTE: Complete Parts IV and V on reverse side if necessary.

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 is true and complete to the best of my knowledge and belief.

Kenneth E. Roddy  
 Kenneth E. Roddy (Signature)  
 Area Production Superintendent  
 (Title)  
9/28/84  
 (Date)

OIL CONSERVATION DIVISION

APPROVED Frank [Signature] NOV 01 1984  
 BY \_\_\_\_\_  
 TITLE SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.  
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
 All sections of this form must be filled out completely for allowable on new and recompleted wells.  
 Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.  
 Separate Forms C-104 must be filed for each pool in multiply completed wells.

**IV. COMPLETION DATA**

<b>Designate Type of Completion - (X)</b>		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resrv.	Diff. Resrv.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth			
Perforations						Depth Casing Shoe			
<b>TUBING, CASING, AND CEMENTING RECORD</b>									
<b>HOLE SIZE</b>	<b>CASING &amp; TUBING SIZE</b>			<b>DEPTH SET</b>			<b>SACKS CEMENT</b>		

**V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL** (Test must be after recovery of total volume of lead oil and must be equal to or exceed top allowable for this depth or be for full 36 hours)

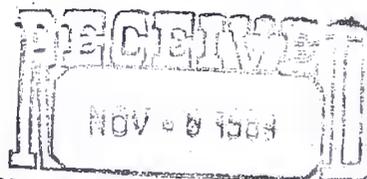
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)		
Length of Test	Tubing Pressure	Casing Pressure	Choke Size	
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF	

**GAS WELL**

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pump, beach pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Choke Size

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P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501



REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS OIL CONSERVATION DIVISION  
SANTA FE

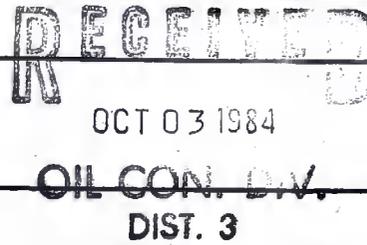
Operator: Union Texas Petroleum Corporation

Address: P. O. Box 1290, Farmington, New Mexico 87499

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	<input type="checkbox"/> Oil	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Coninghead Gas	<input checked="" type="checkbox"/> Condensate	
<input type="checkbox"/> Change in Ownership			

Other (Please explain)



Range of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Well Name Culpepper Martin	Well No. 1-E	Pool Name, including Formation Blanco Mesaverde	Kind of Lease State, Federal or Fee	Lease No. Fee
Unit Letter P	: 1110	Feet From The South	Line and 830	Feet From The East
Line of Section 31	Township 32N	Range 12W	NMPM, San Juan	County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Gary Energy Corporation	P. O. Box 489, Bloomfield, N.M. 87413
Name of Authorized Transporter of Coninghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Southern Union Gathering Company	P. O. Box 26400, Albuquerque, N.M. 87125
Well produces oil or liquids, or location of tanks	Unit Sec. Twp. Rge. Is gas actually connected? When
	P 31 32N 12W Yes

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

NOTE: Complete Parts IV and V on reverse side if necessary.

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 is true and complete to the best of my knowledge and belief.

Kenneth E. Roddy  
Kenneth E. Roddy (Signature)  
Area Production Superintendent  
(Title)

9/28/84  
(Date)

OIL CONSERVATION DIVISION

APPROVED Frank J. Dargatzis NOV 01 1984  
BY \_\_\_\_\_  
TITLE SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
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Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.  
Separate Forms C-104 must be filed for each pool in multiply completed wells.

**IV. COMPLETION DATA**

<b>Designate Type of Completion - (X)</b>				Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.					
Elevation (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth					
Perforations									Depth Casing Shoe		

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**V. TEST DATA AND REQUEST FOR ALLOWABLE (Tests 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)**

**OIL WELL**

Date First New Oil Run To Tanks	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	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, beach pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Choke Size

like

OIL CONSERVATION COMMISSION

1000 Rio Brazos Road

AZTEC, NEW MEXICO 87410



NOTICE OF GAS CONNECTION

DATE January 20, 1983

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR THE PURCHASE OF GAS FROM THE Union Texas Petroleum Corporation OPERATOR

Culpepper Martin LEASE 1-E WELL UNIT (P)31-32N-12W S - T - R

Blanco Mesaverde POOL Southern Union Gathering Company NAME OF PURCHASER

WAS MADE ON 1-18-83 DATE , FIRST DELIVERY 1-18-83 DATE

2373 INITIAL POTENTIAL

P  
045  
PLA

Southern Union Gathering Company PURCHASER

James R. Large  
REPRESENTATIVE  
James R. Large  
Dispatch Manager  
TITLE

- /sw
- cc: OPERATOR
- New Mexico Oil Conservation Commission - Aztec
- Minerals Management Service - Oil & Gas
- Mr. E. R. Corliss, Engineering
- Mr. R. J. McCrary, Prorations
- Mr. Robert Utay, Gas Accting.
- Mr. Mike Lambert, Gas Supply
- Ms. Nylene Dickson, Econ. Analyses
- Mr. Don McKay, Gas Supply
- Mr. Perry McFarland, Kutz
- File



✓

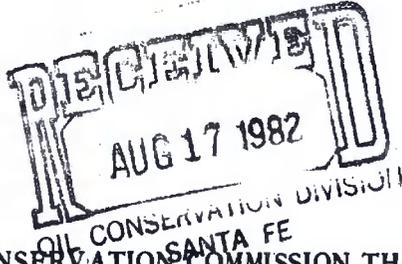
OIL CONSERVATION COMMISSION

1000 Rio Brazos Road

AZTEC, NEW MEXICO 87410



NOTICE OF GAS CONNECTION



DATE August 5, 1982

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR THE PURCHASE OF GAS FROM THE Union Texas Petroleum Corp.

OPERATOR

Culpepper Martin

1-E

(P)31-32N-12W

LEASE

WELL UNIT

S - T - R

Basin Dakota

Southern Union Gathering Company

POOL

NAME OF PURCHASER

WAS MADE ON 8-5-82

, FIRST DELIVERY 8-5-82

DATE

DATE

1929

INITIAL POTENTIAL

P  
045  
PLA

Southern Union Gathering Company  
PURCHASER

*James R. Large*

REPRESENTATIVE

James R. Large

Dispatch Manager

TITLE

/sw

cc: OPERATOR

New Mexico Oil Conservation Commission - Aztec

Minerals Management Service - Oil & Gas

Mr. E. R. Corliss, Engineering

Mr. R. J. McCrary, Prorations

Mr. Robert Utay, Gas Accting.

Mr. Mike Lambert, Gas Supply

Ms. Nylene Dickson, Economic Analyses

Mr. Richard Thomas, Gas Supply

Mr. Perry McFarland, Kutz

File

FORM 20-43 11-76

All distances must be from the outer boundaries of the Section.

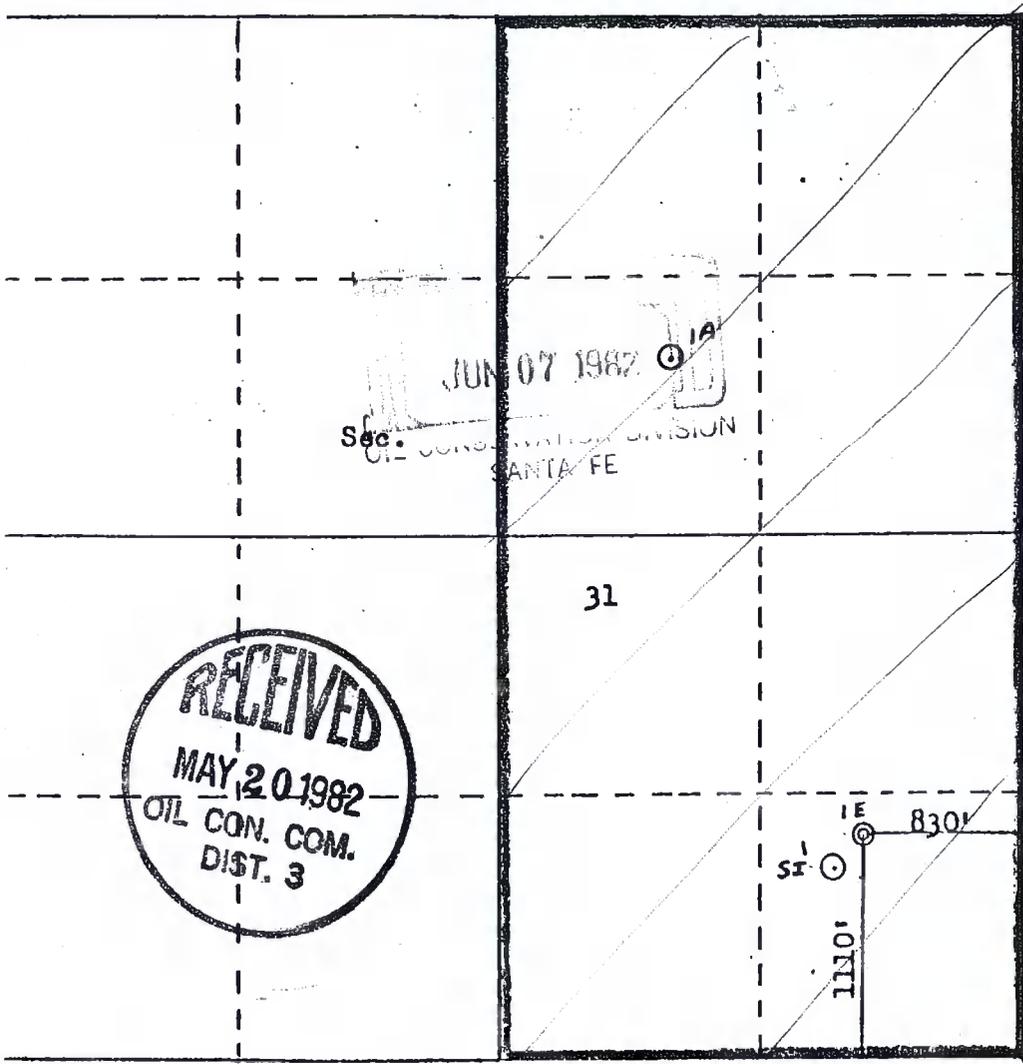
Operator <b>UNION TEXAS PETROLEUM COMPANY</b>			Lease <b>CULPEPPER-MARTIN</b>		Well No. <b>1E</b>
Well Letter <b>P</b>	Section <b>31</b>	Township <b>32N</b>	Range <b>12W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1110</b> feet from the <b>South</b> line and <b>830</b> feet from the <b>East</b> line					
Ground Level Elev: <b>5841</b>	Producing Formation <b>Dakota, Mesaverde</b>		Pool <b>Basin Dakota, Blanco Mesaverde</b>		Dedicated Acreage <b>E 320</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION

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

Name Thomas C. Bell  
 Position District Petroleum Engineer  
 Company Union Texas Petroleum Corp.  
 Date July 6, 1981

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, 1981  
 Registered Professional Engineer and Land Surveyor  
Fred B. Kerr Jr.  
 Certificate No. 3950  
 B. KERR, JR.

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LAND OFFICE	
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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

MAY 26 1982

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT..." (FORM C-101) FOR SUCH PROPOSALS.)

5a. Indicate Type of Lease

State  Fee

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name

Culpepper Martin

9. Well No.

1E

10. Field and Pool, or Wildcat

Blanc MV & Bsn Dakota

OIL WELL  GAS WELL  OTHER

1. Name of Operator

Union Texas Petroleum Corporation

2. Address of Operator

1860 Lincoln Street, Suite 1010, Denver, Colorado 80295

3. Location of Well

UNIT LETTER P 830 FEET FROM THE East LINE AND 1110 FEET FROM

THE South LINE, SECTION 31 TOWNSHIP 32N RANGE 12W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)

5841' GL

12. County

San Juan

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

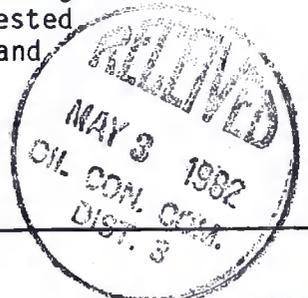
NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	

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

This well was spudded 9/19/1981. A 13-1/2" hole was drilled with water to 318'. New 10-3/4", 40.5#, K-55 casing was set at 318' and cemented with 275 sacks. After waiting on cement for 12 hours, this casing was tested to 500# and held ok. A 9-7/8" hole was drilled with water and mud to 4462'. New 7-5/8", 26.4#, K-55 casing was set at 4456' and cemented with 800 sacks. After waiting on cement for 12 hours, the casing was tested to 1000# and held ok. A 6-3/4" hole was drilled with natural gas to 7065'. A new 5-1/2", 15.5#, K-55 liner was set at 7062' with the top at 4299' and cemented with 300 sacks. Prior to drilling out for completion, the 5-1/2" liner and the 7-5/8" casing was tested to 3500# and held ok. Completion will be made in the Mesaverde and Dakota.



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

SIGNED Thomas C. Belha TITLE Division Petroleum Engineer DATE April 27, 1982

APPROVED BY Frank J. Chung TITLE SUPERVISOR DISTRICT 3 DATE MAY 3 1982

CONDITIONS OF APPROVAL, IF ANY:

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 4-5-82	
Company Union Texas Petroleum Corp.		Connection Southern Union Gathering Company	
Pool Basin		Formation Dakota	
Completion Date 3-20-1982		Total Depth 7065	
Plug Back TD 7017		Elevation 5875 G.L.	
Farm or Lease Name Culpepper Martin		Well No. 1E	
Coq. Size 7 5/8"    Wt. 26.4    6.969    Set At 4456		Perforations: From 6777    To 6998	
5.500    17. & 15.5"    4.950    4299/7062		Perforations: From    To	
Thq. Size    Wt.    d    Set At		Perforations: From    To	
2.375    4.7    1.995    6926		Unit    Sec.    Twp.    Rye. P    31    32    12	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas-Gas Dual		Packer Set At 4898	
Producing Thru Tubing		Baro. Press. - P <sub>a</sub> 12 psia est.	
Reservoir Temp. *F		Mean Annual Temp. *F	
L    H    Cq    % CO <sub>2</sub> % N <sub>2</sub> % H <sub>2</sub> S		Prover    Meter Run    Taps	
		.650	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	
SI	16 days						1240			
1.	2 inch		.750	148			148	60°		
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Fl.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12,3650		160	1.000	.9608	1.015	1929
2.							
3.							
4.							
5.							

NO.	P <sub>r</sub>	Temp. *R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P <sub>c</sub> 1252	P <sub>c</sub> <sup>2</sup> 1567504	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.28837$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.20928$	
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		592	350835	1216,669
2				
3				
4				
5				

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2333$

Absolute Open Flow 2333 Mcfd @ 15.025    Angle of Slope  $\theta$  \_\_\_\_\_    Slope, n .75

Remarks: Drv gas with show of condensate

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Mr. Don Wells
----------------------	------------------------------	-------------------------------	------------------------------

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease  
State  Fee

5. State Oil & Gas Lease No.

7. Unit Agreement Name

8. Farm or Lease Name  
Culpepper Martin

9. Well No.  
1E

10. Field and Pool, or Wildcat  
Basin Dakota

12. County  
San Juan

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

OIL WELL  GAS WELL  OTHER

Name of Operator  
UNION TEXAS PETROLEUM CORPORATION

Address of Operator  
1860 Lincoln Street, Suite 1010, Denver, Colorado 80295

Location of Well  
UNIT LETTER P 830 FEET FROM THE East LINE AND 1110 FEET FROM  
THE South LINE, SECTION 31 TOWNSHIP 32N RANGE 12W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)  
5841' GL

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
WELL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	
		OTHER _____ <input type="checkbox"/>	

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

Request permission to dual complete this well in Basin Dakota and Blanco Mesaverde. This request is made because the Culpepper Martin #1 is unable to produce due to mechanical problems. Verbal approval to dual complete was obtained prior to commencing operations.

RECEIVED  
MAY 18 1982

RECEIVED  
APR 19 1982  
OIL CON. COM.  
DIST. 3

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

SIGNED: [Signature] TITLE: Area Operations Manager DATE: April 13, 1982

APPROVED BY: [Signature] TITLE: SUPERVISOR DISTRICT #3 DATE: APR 19 1982

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease  
 State  Fee

5. State Oil & Gas Lease No.

TYPE OF WELL  
 OIL WELL  GAS WELL  DRY

TYPE OF COMPLETION  
 NEW WELL  WORK OVER  DEEPEN

PLUG BACK  DIFF. RESVR.



7. Unit Agreement Name

8. Farm or Lease Name  
 Culpepper Martin

Name of Operator  
 UNION TEXAS PETROLEUM CORPORATION

Address of Operator  
 860 Lincoln Street, Suite 1010, Denver, Colorado 80295

Location of Well

9. Well No.  
 1E

10. Field and Pool or Wildcat  
 Basin Dakota & Blanco Mesaverde

LETTER P LOCATED 1110 FEET FROM THE South LINE AND 830 FEET FROM East

LINE OF SEC. 31 TWP. 32N RGE. 12W NMPM

12. County  
 San Juan

Date Spudded 4/19/1981	16. Date T.D. Reached 10/01/1981	17. Date Compl. (Ready to Prod.) 3/21/1981	18. Elevations (DF, RKB, RT, GR, etc.) 5875' GL	19. Elev. Casinghead
Total Depth 7065'	21. Plug Back T.D. 7017'	22. If Multiple Compl., How Many 2	23. Intervals Drilled By Rotary Tools Surface-TD	Cable Tools

Producing Interval(s), of this completion - Top, Bottom, Name  
 4559' - 4823' Mesaverde  
 6777' - 6998' Dakota

25. Was Directional Survey Made  
 No

Type Electric and Other Logs Run  
 MR/DIL GR/CDL, CNL CBL-VDL

27. Was Well Cored  
 No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4"	40.5#	318'	13 1/2"	275	None
7 5/8"	26.4#	4456'	9 7/8"	800	None

LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5.5	4299'	7062'	300		2 3/8"	4273	---
					2 3/8"	6920	4898

Perforation Record (Interval, size and number)  
 Mesaverde: 4559-63, 4571-99, 4606-11, 4618-24, 4651-66, 4682, 4706, 4781, 4803, 4819-23; 63 shots  
 Dakota: 6777-80, 84-86, 89-95, 6856-58, 66-68, 73-86, 93-6901, 17-20, 28-35, 66-68, 72-98; 53 shots

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4559-4823	Frac w/124,500 gal slick wtr & 118,000# sand
6777-6998	Frac w/135,000 gas gelled wtr, 68.5 ton CO <sub>2</sub> , 170,000# sand

PRODUCTION

First Production: waiting on pipeline Production Method: Flowing Well Status: waiting on pipeline

4/29/1982 MV	Hours Tested 3	Choke Size 3/4"	Prod'n. For Test Period	Oil - Bbl. 0	Gas - MCF 297	Water - Bbl. 0	Gas - Oil Ratio ---
4/05/1982 DK	3	3/4"		0	241	0	---
4/08/1982	Casing Pressure 486	Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF 2373	Water - Bbl. 0	Oil Gravity - API (Corr.) ---	---
4/08/1982	---		0	1929	0	---	---

Disposition of Gas (Sold, used for fuel, vented, etc.)  
Flared

Test Witnessed By  
 Joe Elledge

List of Attachments  
 Forms C-107, C-104, C-122C, Packer Leakage Test, Deviation Survey

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

SIGNED Donald B. Stull TITLE Division Operations Manager DATE April 13, 1982

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____ 2195	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____ 3778	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____ 4043	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____ 4545	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____ 4829	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____ 5938	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____ 6717	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____ 6845	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 4559 _____ to 4823 _____ gas	No. 4, from _____ to _____
No. 2, from 6777 _____ to 6998 _____ gas	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

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

No. 1, from _____ to _____ feet	_____
No. 2, from _____ to _____ feet	_____
No. 3, from _____ to _____ feet	_____
No. 4, from _____ to _____ feet	_____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
2195	2328		Pictured Cliffs				
2328	3778		Lewis				
3778	4043		Cliffhouse				
4043	4545		Menefee				
4545	4829		Point Lookout				
4829	5938		Mancos				
6629	6717		Greenhorn				
6717	6776		Graneros Shale				
6776	6845		Graneros Sand				
6845	7065	(TD)	Dakota				

OIL CONSERVATION DIVISION  
P. O. BOX 2000  
SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

By or Special Receiver	
DISTRIBUTION	
SANTA FE	
F.I.P.	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	<input type="checkbox"/> OIL <input type="checkbox"/> GAS
OPERATOR	
PRODUCTION OFFICE	



Operator  
**UNION TEXAS PETROLEUM CORPORATION**

Address  
1860 Lincoln Street, Suite 1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box) Other (Please explain)

New Well  Change in Transporter of:

Recompletion  Oil  Dry Gas

Change in Ownership  Casinghead Gas  Condensate

If change of ownership give name and address of previous owner \_\_\_\_\_

MAY 26 1982

**DESCRIPTION OF WELL AND LEASE**

Lease Name <b>Culpepper Martin</b>	Well No. <b>1E</b>	Pool Name, including Formation <b>Basin Dakota</b>	Kind of Lease State, Federal or Fee <b>Fee</b>	Lease No.
Location				
Unit Letter <b>P</b>	<b>1110</b> Feet From The <b>South</b>	Line and <b>830</b>	Feet From The <b>East</b>	
Line of Section <b>31</b>	Township <b>32N</b>	Range <b>12W</b>	<b>NMPM, San Juan</b>	County

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

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>Plateau Inc.</b>	<b>POB 159, Sullivan Road, Littlefield, NM 87413</b>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>Southern Union Gathering Company</b>	<b>POB 3308, Albuquerque, NM 87190</b>
If well produces oil or liquids, give location of tanks.	Unit <b>P</b> Sec. <b>31</b> Twp. <b>32N</b> Rge. <b>12W</b> Is gas actually connected? <b>No</b> When

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

**COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded <b>9/19/1981</b>	Date Compl. Ready to Prod. <b>3/21/1981</b>	Total Depth <b>7065'</b>	P.B.T.D. <b>7017'</b>					
Elevations (DF, RKB, RT, GR, etc.) <b>5875 GL</b>	Name of Producing Formation <b>Dakota</b>	Top Oil/Gas Pay <b>6777'</b>	Tubing Depth <b>6920'</b>					
Perforations <b>6777-80, 84-86, 89-95, 6856-58, 66-68, 73-86, 93-6901, 17-20, 28-35, 66-68, 72-98'</b>			Depth Casing Shoe <b>7062'</b>					

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
13 1/2"	10 3/4" csg	318'	275
9 7/8"	7 5/8" csg	4456'	800
6 3/4"	5 1/2" liner	4299- 7062'	300
---	2 3/8" tbg	6920	---

**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 Tanks	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	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
<b>1929'</b>	<b>3 hr</b>	---	---
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
<b>back pressure</b>	<b>1240#</b>	---	<b>3/4"</b>

**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.

*Donald B. [Signature]*  
(Signature)

Division Operations Manager  
(Title)

April 13, 1982  
(Date)

OIL CONSERVATION DIVISION  
5-4-82  
APPROVED **MAY 4 1982**  
BY *[Signature]*  
TITLE **SUPERVISOR DISTRICT # 30**

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepener well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner well name or number, or transporter, or other such change of condition. Separate Form C-104 must be filed for each pool in multiple.

APPLICATION FOR MULTIPLE COMPLETION

Operator		County		Date
UNION TEXAS PETROLEUM CORPORATION		San Juan		April 13, 1982
Address		Lease		Well No.
1860 Lincoln Street, Suite 1010, Denver, CO 80295		Culpepper Martin		#1E
Location of Well	Unit	Section	Township	Range
	P	31	32N	12W

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Blanco Mesaverde		Basin Dakota
b. Top and Bottom of Pay Section (Perforations)	4559' - 4823'		6777' - 6998'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
e. Daily Production	Initial Potential		Initial Potential
<input checked="" type="checkbox"/> Actual	BOPD - 0		BOPD - 0
<input type="checkbox"/> Estimated	MCFPD - 2373		MCFPD - 1929
Oil Bbls.	BWPD - 0		BWPD - 0
Gas MCF			
Water Bbls.			



2. The following must be attached:

- a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- c. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

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

Signed [Signature] Title Division Operations Mgr. Date April 13, 1982

(This space for State Use)  
Approved By [Signature] Title SUPERVISOR DISTRICT #3 Date APR 19 1982

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 4-5-82	
Company Union Texas Petroleum Corp.		Connection Gas Co. of New Mexico	
Pool Basin		Formation Dakota	
Completion Date 3-20-1982	Total Depth 7065	Plug Back TD 7017	Elevation 5875 G.L.
Farm or Lease Name Culpepper Martin		Well No. 1E	
Coq. Size 7 5/8 in. 26.4	6.969	Set At 4456	Perforations: From 6777 To 6998
5.500	17. & 15.5	4.950	4299/7062
Thq. Size 2.375	Wi. 4.7	d 1.995	Set At 6926
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas-Gas Dual		Packer Set At 4898	County San Juan
Producing Thru Tubing	Reservoir Temp. °F p	Mean Annual Temp. °F	Baro. Press. - P <sub>g</sub> 12 psia est.
State New Mexico		Prover Meter Run Taps	
L	H	C <sub>g</sub> .650	% CO <sub>2</sub> % N <sub>2</sub> % H <sub>2</sub> S

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	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	
51	16 days						1240				3 hrs
1.	2 inch		.750	148			148	60°			
2.											
3.											
4.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Factor F <sub>l</sub>	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	12,3650		160	1.000	.9608	1.015	1929
2.							
3.							
4.							
5.							

NO.	R	Temp. °R	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.			A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.			Specific Gravity Separator Gas _____ XXXXXXXXXX
3.			Specific Gravity Flowing Fluid _____ XXXXX
4.			Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.			Critical Temperature _____ R _____ R

NO.	P <sub>1</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>	P <sub>2</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.28837$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.20928$
1		592	350835	1216,669		
2						
3						
4						
5						

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2333$

Absolute Open Flow	2333	Mcfd @ 15.025	Angle of Slope $\theta$	Slope, n .75
--------------------	------	---------------	-------------------------	--------------

Remarks: Dry gas with show of condensate

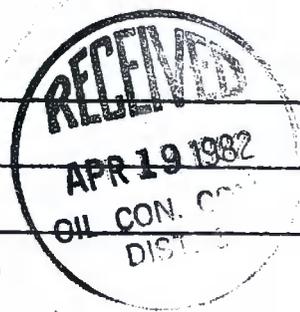
  

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Mr. Don Wells
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*1079 (Plat) 1*  
OIL CONSERVATION DIVISION  
P. O. BOX 20111  
SANTA FE, NEW MEXICO 87501

NO. OF COPIES OF THIS FORM	
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FILE	
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LAND OFFICE	
TRANSPORTER	
OIL	
NATURAL GAS	
OPERATOR	
PRODUCTION OFFICE	

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS



Operator  
**UNION TEXAS PETROLEUM CORPORATION**

Address  
1860 Lincoln Street, Suite 1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box)

New Well	<input checked="" type="checkbox"/>	Change in Transporter of:		Other (Please explain)	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>	Dry Gas	<input type="checkbox"/>
Change in Ownership	<input type="checkbox"/>	Casinghead Gas	<input type="checkbox"/>	Condensate	<input type="checkbox"/>

If change of ownership give name and address of previous owner \_\_\_\_\_

**DESCRIPTION OF WELL AND LEASE**

Lease Name <b>Culpepper Martin</b>	Well No. <b>1E</b>	Pool Name, including Formation <b>Blanco Mesaverde</b>	Kind of Lease State, Federal or Fee	Fee	Lease No.
Location Unit Letter <b>P</b> ; <b>1110</b> Feet From The <b>South</b> Line and <b>830</b> Feet From The <b>East</b> Line of Section <b>31</b> Township <b>32N</b> Range <b>12W</b> , NMPM, <b>San Juan</b> County					

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

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>Plateau, Inc.</b>	POB 159, Sullivan Road, Littlefield, NM 87413
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>Southern Union Gathering Company</b>	POB 3308, Albuquerque, NM 87190
If well produces oil or liquids, give location of tanks.	Unit <b>P</b> Sec. <b>31</b> Twp. <b>32N</b> Rge. <b>12W</b> Is gas actually connected? <b>No</b> When

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

**COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded <b>9/19/1981</b>	Date Compl. Ready to Prod. <b>3/21/1981</b>	Total Depth <b>7065'</b>	P.B.T.D. <b>7017'</b>					
Elevations (DF, RKB, RT, GR, etc.) <b>5875' GL</b>	Name of Producing Formation <b>Mesaverde</b>	Top Oil/Gas Pay <b>4559'</b>	Tubing Depth <b>4273'</b>					
Perforations <b>4559-63, 4571-99, 4606-11, 4618-24, 4651-66, 4682, 4706, 4781, 4803, 4819-23</b>	Depth Casing Shoe <b>7062'</b>							

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
13 1/2"	10 3/4" csg	318'	275
9 7/8"	7 5/8" csg	4456'	800
6 3/4"	5 1/2" liner	<i>4299</i> --- 7062'	300
---	2 3/8" tbg	4273'	---

**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 Tanks	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 <b>2373'</b>	Length of Test <b>3 hrs</b>	Bbls. Condensate/MMCF <b>---</b>	Gravity of Condensate <b>---</b>
Testing Method (piston, back pr.) <b>back pressure</b>	Tubing Pressure (Shut-in) <b>649#</b>	Casing Pressure (Shut-in) <b>682#</b>	Choke Size <b>3/4"</b>

**CERTIFICATE OF COMPLIANCE**

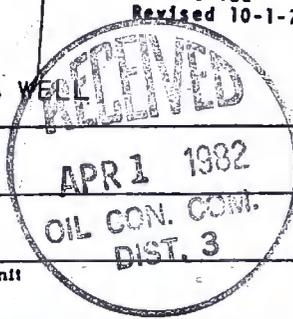
I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

*Donald B. Kelly*  
(Signature)  
Division Operations Manager  
(Title)  
April 13, 1982  
(Date)

OIL CONSERVATION DIVISION  
*#19-82* **APR 19 1982**  
APPROVED \_\_\_\_\_, 19\_\_\_\_  
BY *3rd J. Clay*  
TITLE **SUPERVISOR DISTRICT # 3**

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition. Separate Form C-104 must be filled for each pool in multiply

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special			Test Date 3-29-82		
Company Union Texas Petroleum Corp.			Connection Gas Company of New Mexico		
Pool Blanco			Formation Mesaverde		
Completion Date 3-20-1982		Total Depth 7065	Plug Back TD 7017	Elevation 5875 G.L.	Farm or Lease Name Culpepper Martin
Csg. Size 5/8	Wt. 26.4	d. 6.969	Set At 4456	Perforations: From 4557	To 4923
5.500	17 & 15.5	4.950	4299/7062	Well No. 1E	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 4272	Perforations: From	To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas-Gas Dual			Packer Set At 4898		County San Juan
Producing Thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P <sub>a</sub> 12 psia-est	State New Mexico
L	H	G <sub>g</sub> .650	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S
					Prover
					Meter Run
					Taps

NO.	FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
	Prover Line Size	X	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	9 days						649		682		
1.	2 inch		.750	184			184	60°	466		3 hours
2.											
3.											
4.											
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 F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	12.3650		196	1.000	.9608	1.019	2373
2.							
3.							
4.							
5.							

NO.	R <sub>f</sub>	Temp. °R	T <sub>f</sub>	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons <td>Deg.</td>	Deg.
2.					Specific Gravity Separator Gas <td>X X X X X X X X</td>	X X X X X X X X
3.					Specific Gravity Flowing Fluid <td>X X X X X</td>	X X X X X
4.					Critical Pressure <td>P.S.I.A. P.S.I.A.</td>	P.S.I.A. P.S.I.A.
5.					Critical Temperature <td>R R</td>	R R

NO.	P <sub>t</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) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.90256$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.61995$
1		478	228484	253152		
2						
3						
4						
5						

Absolute Open Flow 3844 Mcfd @ 15.025    Angle of Slope  $\theta$  \_\_\_\_\_    Slope, n .75

Remarks: Dry gas with show of condensate.

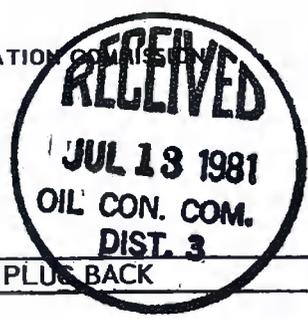
Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Mr. Don Wells
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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION DIVISION

30-045-2511#  
Form C-101  
Revised 1-1-65

APPROVAL VALID  
FOR 90 DAYS UNLESS  
DRILLING COMMENCED,



EXPIRES 1-13-82

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUS BACK

a. Type of Work  
 b. Type of Well  
 OIL WELL  GAS WELL  OTHER   
 SINGLE ZONE  MULTIPLE ZONE   
 Name of Operator  
 Union Texas Petroleum Corporation  
 Address of Operator  
 1860 Lincoln Street, Suite 1010, Denver, Colorado 80295  
 Location of Well  
 UNIT LETTER P LOCATED 830' FEET FROM THE East LINE  
1110' FEET FROM THE South LINE OF SEC. 31 TWP. 32N RGE. 12W NMPM

5A. Indicate Type of Lease  
 STATE  FEE   
 5. State Oil & Gas Lease No.  
 7. Unit Agreement Name  
 8. Farm or Lease Name  
 Culpepper-Martin  
 9. Well No.  
 1-F  
 10. Field and Pool, or Wildcat  
 Basin Dakota  
 12. County  
 San Juan  
 19. Proposed Depth  
 7200'  
 19A. Formation  
 Dakota  
 20. Rotary or C.T.  
 Rotary  
 21. Elevations (Show whether DF, RT, etc.)  
 5841' GL  
 21A. Kind & Status Plug. Bond  
 21B. Drilling Contractor  
 Not yet contracted  
 22. Approx. Date Work will start  
 9/15/81

PROPOSED CASING AND CEMENT PROGRAM

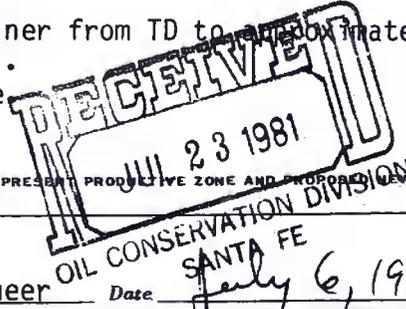
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
13-1/2"	10-3/4"	40.5#	500' 300	300 sx	Surf
9-7/8"	7-5/8"	26.4#	4000'	860 sx	Surf
6-3/4"	5-1/2" liner	15.5#	7200' (est TOL 3800')	250 sx	3,800' (TOL)

1. Drill 13-1/2" hole to 500' with water.
2. Set 10-3/4", 40.5#, J-55 casing at 500' & cement with sufficient cement to circulate to surface (approximately 300 sx).
3. Install BOP's and inspect daily.
4. Drill 9-7/8" hole to approximately 4000' with water, mudding up when necessary. Log back to surface casing.
5. Set 7-5/8", 26.4#, J-55 casing at 4000' and cement with sufficient cement to circulate to surface. (approximately 860 sx).
6. Drill 6-3/4" hole through the Dakota to approximately 7200' with natural gas. Log back to intermediate casing.
7. If found commercially productive, set 5-1/2", 15.5#, J-55 liner from TD to approximately 3800' and cement back to top of liner (approximately 250 sx).
8. Based on log analysis, perforate and complete in Dakota zone
9. Install production equipment & clean up well site.

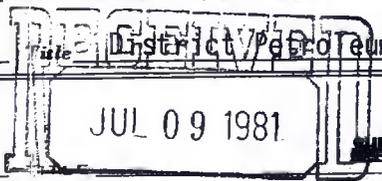
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUS BACK, GIVE DATA ON PRESENT PRODUCTION ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Thomas C. Belsha District Petroleum Engineer Date July 6, 1981



(This space for State Use)  
 Approved by Frank J. Conroy



SUPERVISOR DISTRICT # 3

DATE JUL 13 1981

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION  
SANTA FE

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
OIL AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

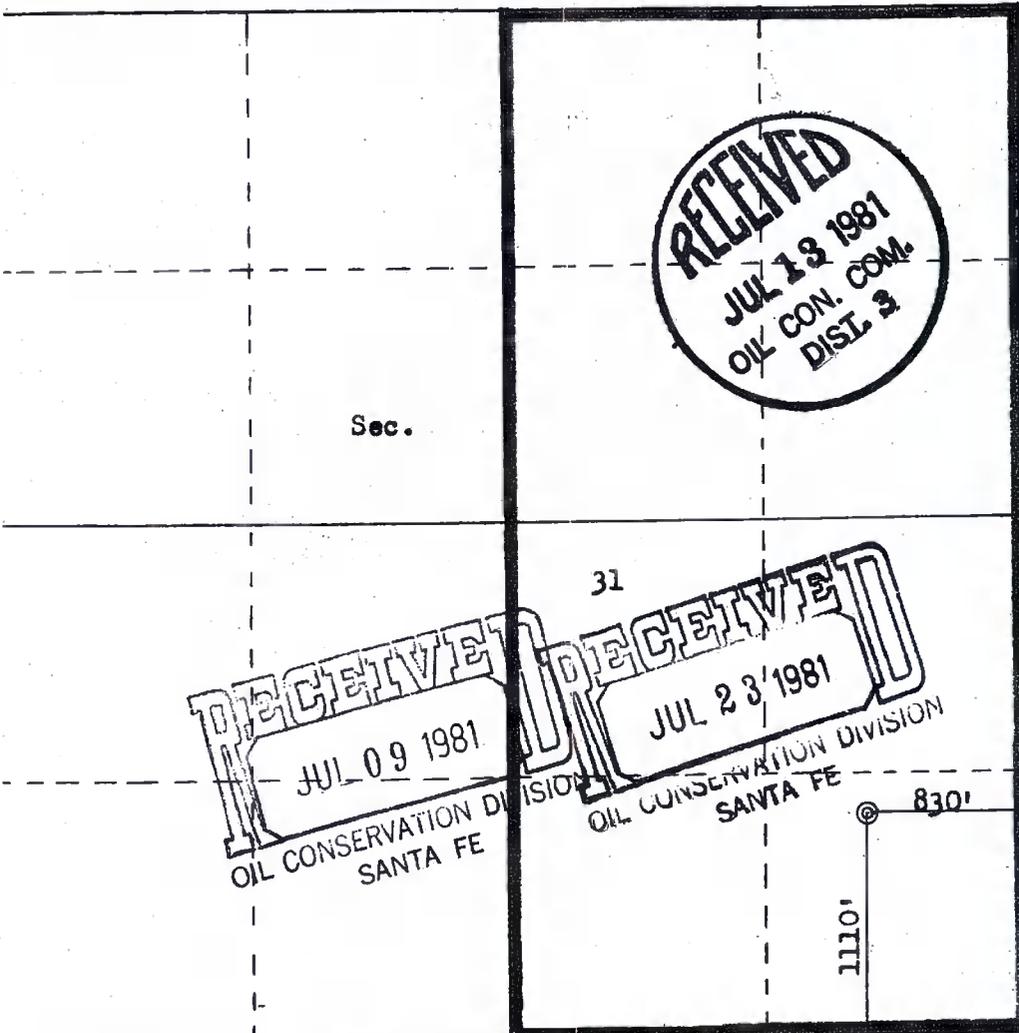
Operator <b>UNION TEXAS PETROLEUM COMPANY</b>		Lease <b>CULPEPPER-MARTIN</b>		Well No. <b>1E</b>
Unit Letter <b>P</b>	Section <b>31</b>	Township <b>32N</b>	Range <b>12W</b>	County <b>San Juan</b>
Actual Footage Location of Wells: <b>1110</b> feet from the <b>South</b> line and <b>830</b> feet from the <b>East</b> line				
Ground Level Elev. <b>5841</b>	Producing Formation <b>Dakota</b>	Pool	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION

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

Name: *Thomas C. Bellin*  
 Position: District Petroleum Engineer  
 Company: Union Texas Petroleum Corp.  
 Date: July 6, 1981

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.

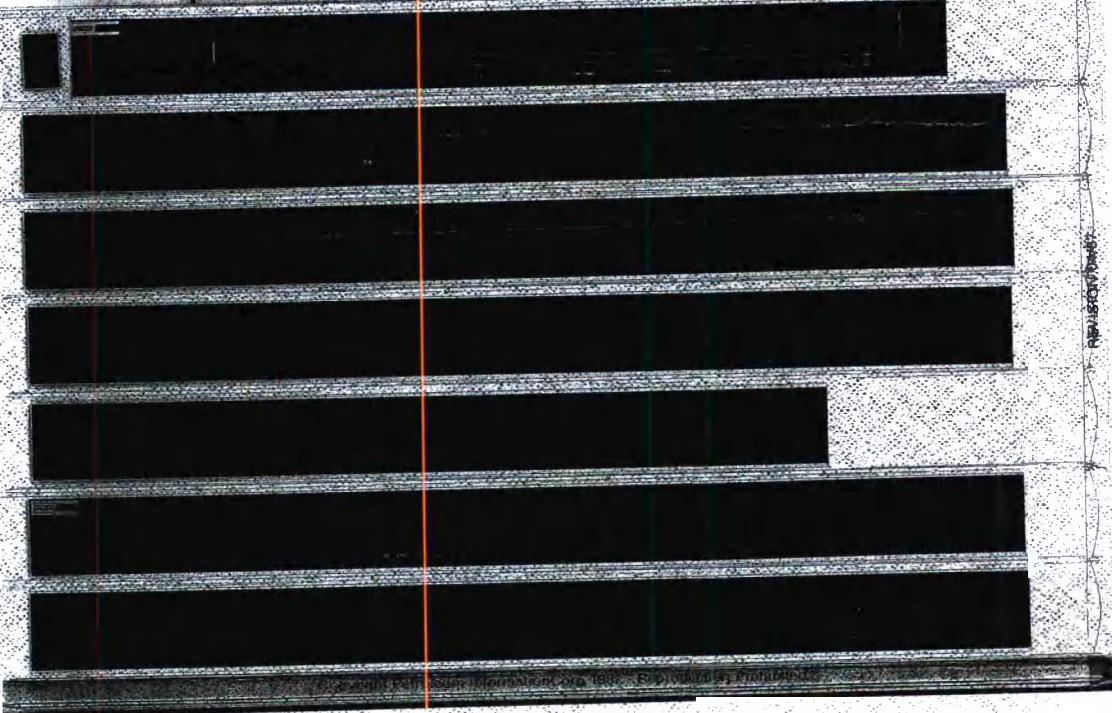
Date Surveyed: *June 16, 1981*  
 Registered Professional Engineer and Land Surveyor  
*Fred B. Kerr, Jr.*  
 Certificate No. **3950**  
 B. KERR, JR.

Petroleum Information  
Corporation  
GEO-FICHE™

32N-12W-31- 16 (SE SE)  
NEW MEXICO NM

WELL: CULPEPPER-MARTIN 11E  
OPER: UNION TEXAS PET  
CNTY: SAN JUAN

API: 30-045-25 14  
ISSUE: A07/86  
CARD: 1+

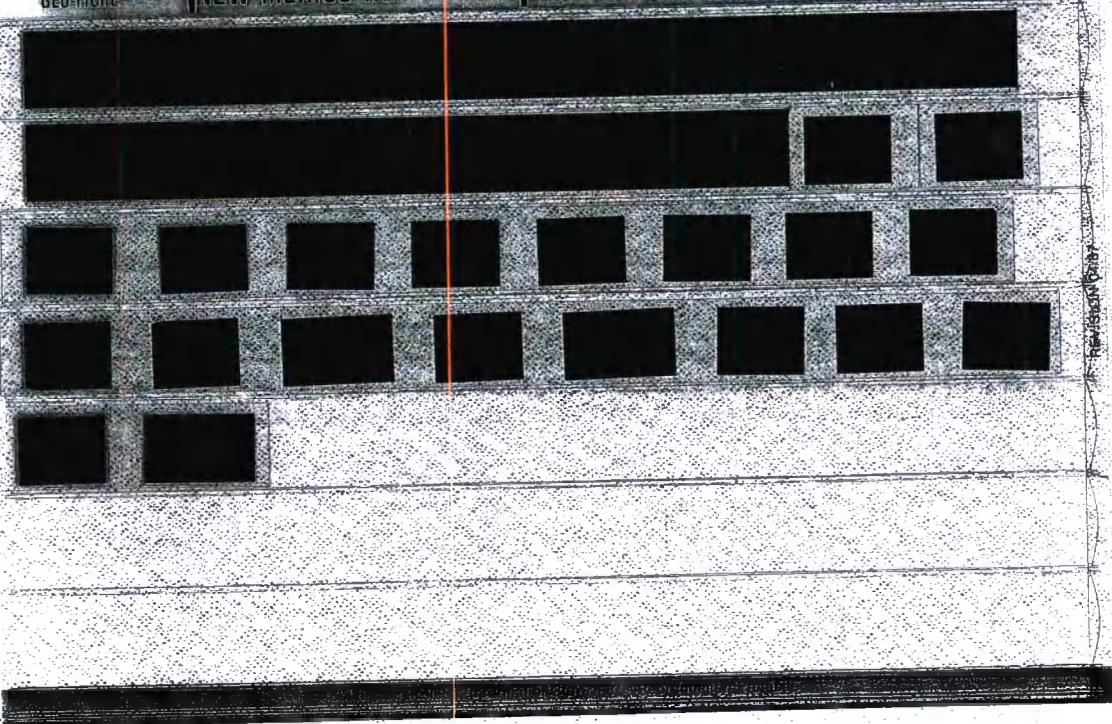


Petroleum Information  
Corporation  
GEO-FICHE™

32N-12W-31- 16 (SE SE)  
NEW MEXICO NM

WELL: CULPEPPER-MARTIN 1E  
OPER: UNION TEXAS PET  
CNTY: SAN JUAN

API: 30-045-25114  
ISSUE: A07/86  
CARD: 2



CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

11/22/02 08:31:56  
OGOMES -TPEG  
PAGE NO: 1

Sec : 31 Twp : 32N Rng : 12W Section Type : NORMAL

1 37.51	C 40.00	B 40.00	A 40.00
Fee owned	Fee owned	Fee owned	Fee owned
2 37.54	F 40.00	G 40.00	H 40.00
Fee owned	Fee owned	Fee owned	Fee owned
	A	A A	

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

11/22/02 08:32:00  
OGOMES -TPEG  
PAGE NO: 2

Sec : 31 Twp : 32N Rng : 12W Section Type : NORMAL

3 37.56  Fee owned	K 40.00  Fee owned	J 40.00  Fee owned	I 40.00  Fee owned
4 37.59  Fee owned  A	N 40.00  Fee owned  A	O 40.00  Fee owned	P 40.00  Fee owned  A

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

CMD : ONGARD 11/22/02 08:32:23  
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPEG

API Well No : 30 45 25114 Eff Date : 07-01-1982 WC Status : A  
Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 6935 CULPEPPER MARTIN

Well No : 001E  
GL Elevation: 5841

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: P	31	32N	12W	FTG 1110 F S	FTG 830 F E	P

Lot Identifier:

Dedicated Acre: 320.00

Lease Type : P

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : ONGARD 11/22/02 08:32:29  
OG6ACRE C102-DEDICATE ACREAGE OGOMES -TPEG  
Page No : 1

API Well No : 30 45 25114 Eff Date : 04-30-1991  
Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
Prop Idn : 6935 CULPEPPER MARTIN Well No : 001E  
Spacing Unit : 32345 OCD Order : Simultaneous Dedication:  
Sect/Twp/Rng : 31 32N 12W Acreage : 320.00 Revised C102? (Y/N) :  
Dedicated Land:

S	Base	U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	A		31	32N	12W	40.00	N	FE		
	B		31	32N	12W	40.00	N	FE		
	G		31	32N	12W	40.00	N	FE		
	H		31	32N	12W	40.00	N	FE		
	I		31	32N	12W	40.00	N	FE		
	J		31	32N	12W	40.00	N	FE		
	O		31	32N	12W	40.00	N	FE		
	P		31	32N	12W	40.00	N	FE		

E0005: Enter data to modify or PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD : ONGARD 11/22/02 08:33:20  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
Page No: 1

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

---

API Well No	Property Name	Prodn. MM/YY	Days Prod	Production Gas	Production Oil	Water	Well Stat
30 45 25114	CULPEPPER MARTIN	01 00	31	2490	60		F
30 45 25114	CULPEPPER MARTIN	02 00	29	2223			F
30 45 25114	CULPEPPER MARTIN	03 00	31	2021			F
30 45 25114	CULPEPPER MARTIN	04 00	30	2889	1		F
30 45 25114	CULPEPPER MARTIN	05 00	31	3651	45		F
30 45 25114	CULPEPPER MARTIN	06 00	30	2657	23		F
30 45 25114	CULPEPPER MARTIN	07 00	31	3887	35		F

---

Reporting Period Total (Gas, Oil) :

---

M0025: Enter PF keys to scroll

PF01 HELP      PF02              PF03 EXIT      PF04 GoTo      PF05              PF06 CONFIRM  
PF07 BKWD      PF08 FWD          PF09              PF10 NXTPOOL PF11 NXTOGD      PF12

CMD : ONGARD 11/22/02 08:33:24  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
Page No: 2

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 45 25114	CULPEPPER MARTIN	08 00 31	3134 5 10	F
30 45 25114	CULPEPPER MARTIN	09 00 30	3833 38	F
30 45 25114	CULPEPPER MARTIN	10 00 31	3976 29	F
30 45 25114	CULPEPPER MARTIN	11 00 30	3665 18	F
30 45 25114	CULPEPPER MARTIN	12 00 31	3038 39	F
30 45 25114	CULPEPPER MARTIN	01 01 31	2995 28	F
30 45 25114	CULPEPPER MARTIN	02 01 28	2440 25	F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12



CMD : ONGARD 11/22/02 08:33:26  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
Page No: 4

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 45 25114	CULPEPPER MARTIN	10 01 31	2735 19	F
30 45 25114	CULPEPPER MARTIN	11 01 30	2701 11	F
30 45 25114	CULPEPPER MARTIN	12 01 31	2578 13	F
30 45 25114	CULPEPPER MARTIN	01 02 31	1710 4	F
30 45 25114	CULPEPPER MARTIN	02 02 28	165	F
30 45 25114	CULPEPPER MARTIN	03 02 31	2851 23	F
30 45 25114	CULPEPPER MARTIN	04 02 30	2340 12	F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/22/02 08:33:27  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
Page No: 5

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 45 25114	CULPEPPER MARTIN	05 02 31	2390 12	F
30 45 25114	CULPEPPER MARTIN	06 02 30	2256 10 1	F
30 45 25114	CULPEPPER MARTIN	07 02 31	2713 14	F
30 45 25114	CULPEPPER MARTIN	08 02 31	2714 10	F

Reporting Period Total (Gas, Oil) : 87339 620 11

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/22/02 08:32:38  
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPEG

API Well No : 30 45 25114 Eff Date : 01-01-1983 WC Status : A  
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
OGRID Idn : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Prop Idn : 6935 CULPEPPER MARTIN

Well No : 001E  
GL Elevation: 5841

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: P	31	32N	12W	FTG 1110 F S	FTG 830 F E	P

Lot Identifier:  
Dedicated Acre: 320.00  
Lease Type : P  
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06  
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD : ONGARD 11/22/02 08:32:44  
OG6ACRE C102-DEDICATE ACREAGE OGOMES -TPEG  
Page No : 1

API Well No : 30 45 25114 Eff Date : 04-30-1991  
Pool Idn : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
Prop Idn : 6935 CULPEPPER MARTIN Well No : 001E  
Spacing Unit : 35172 OCD Order : Simultaneous Dedication:  
Sect/Twp/Rng : 31 32N 12W Acreage : 320.00 Revised C102? (Y/N) :  
Dedicated Land:

S	Base	U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	A		31	32N	12W	40.00	N	FE		
	B		31	32N	12W	40.00	N	FE		
	G		31	32N	12W	40.00	N	FE		
	H		31	32N	12W	40.00	N	FE		
	I		31	32N	12W	40.00	N	FE		
	J		31	32N	12W	40.00	N	FE		
	O		31	32N	12W	40.00	N	FE		
	P		31	32N	12W	40.00	N	FE		

E0005: Enter data to modify or PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD : ONGARD 11/22/02 08:32:58  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
Page No: 1

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Pool Identifier : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

API Well No	Property Name	Prod. MM/YY	Days Prod	Production Gas	Production Oil	Water	Well Stat
30 45 25114	CULPEPPER MARTIN	01 00	31	2037	22		F
30 45 25114	CULPEPPER MARTIN	02 00	29	1819			F
30 45 25114	CULPEPPER MARTIN	03 00	31	1654			F
30 45 25114	CULPEPPER MARTIN	04 00	30	2364			F
30 45 25114	CULPEPPER MARTIN	05 00	31	2988	17		F
30 45 25114	CULPEPPER MARTIN	06 00	30	2174	9		F
30 45 25114	CULPEPPER MARTIN	07 00	31	3180	13		F

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/22/02 08:33:03  
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
 Page No: 2

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
 Pool Identifier : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
 API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 45 25114	CULPEPPER MARTIN	08 00 31	2564 2 4	F
30 45 25114	CULPEPPER MARTIN	09 00 30	3135 15	F
30 45 25114	CULPEPPER MARTIN	10 00 31	3253 11	F
30 45 25114	CULPEPPER MARTIN	11 00 30	2998 7	F
30 45 25114	CULPEPPER MARTIN	12 00 31	2485 14	F
30 45 25114	CULPEPPER MARTIN	01 01 31	2450 10	F
30 45 25114	CULPEPPER MARTIN	02 01 28	1996 9	F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/22/02 08:33:04  
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
 Page No: 3

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
 Pool Identifier : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
 API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 45 25114	CULPEPPER MARTIN	03 01 31	352	F
30 45 25114	CULPEPPER MARTIN	04 01 30	3118 12	F
30 45 25114	CULPEPPER MARTIN	05 01 31	2981 9	F
30 45 25114	CULPEPPER MARTIN	06 01 30	2367 9	F
30 45 25114	CULPEPPER MARTIN	07 01 31	2446 8	F
30 45 25114	CULPEPPER MARTIN	08 01 31	2462 8	F
30 45 25114	CULPEPPER MARTIN	09 01 30	2055 8	F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
 PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/22/02 08:33:07  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
Page No: 4

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Pool Identifier : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

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API Well No	Property Name	Prodn. Days	Production Volumes	Well
		MM/YY Prod	Gas Oil Water	Stat
30 45 25114	CULPEPPER MARTIN	10 01 31	2237 7	F
30 45 25114	CULPEPPER MARTIN	11 01 30	2210 4	F
30 45 25114	CULPEPPER MARTIN	12 01 31	2110 5	F
30 45 25114	CULPEPPER MARTIN	01 02 31	1399 1	F
30 45 25114	CULPEPPER MARTIN	02 02 28	135	F
30 45 25114	CULPEPPER MARTIN	03 02 31	2332 9	F
30 45 25114	CULPEPPER MARTIN	04 02 30	1915 5	F

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Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 11/22/02 08:33:09  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEG  
Page No: 5

OGRID Identifier : 14538 BURLINGTON RESOURCES OIL & GAS CO  
Pool Identifier : 72319 BLANCO-MESAVERDE (PRORATED GAS)  
API Well No : 30 45 25114 Report Period - From : 01 2000 To : 10 2002

API Well No	Property Name	Prodn. MM/YY	Days Prod	Production Gas	Production Oil	Water	Well Stat
30 45 25114	CULPEPPER MARTIN	05 02	31	1956	5		F
30 45 25114	CULPEPPER MARTIN	06 02	30	1846	4		F
30 45 25114	CULPEPPER MARTIN	07 02	31	2219	5		F
30 45 25114	CULPEPPER MARTIN	08 02	31	2220	4		F

Reporting Period Total (Gas, Oil) : 71457 232 4

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12