

DATE IN 1/9/98	SUSPENSE 1/29/98	ENGINEER DC	LOGGED BY M	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
- Engineering Bureau -

**ADMINISTRATIVE APPLICATION COVERSHEET**

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

Application Acronyms:

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

1796

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

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

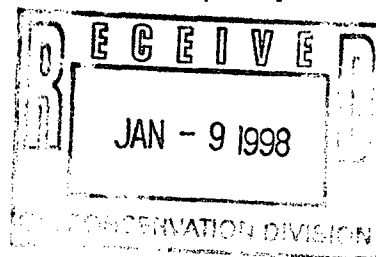
Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

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

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

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

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

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

[F] ☐ Waivers are Attached

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

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

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

Kay Maddox  
Print or Type Name

*Kay Maddox*  
Signature

Regulatory Agent  
Title

1/6/98  
Date

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-A  
New 3-12-96

DISTRICT II  
811 South First St. Artesia NM 88210 2835

OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

DISTRICT III  
1000 Rio Brazos Rd. Aztec, NM 87410 1693

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Conoco Inc.

10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500

Operator

Address

San Juan 28-7 Unit  
Lease

166

Well No

Section 16, T-27-N, R-7-W, K  
Unit Ltr Sec Twp Rge

Rio Arriba  
County

OGRID NO. 005073

Property Code 016608

API NO. 30-039-20523

Spacing Unit Lease Types: (check 1 or more)

Federal ☐ State ☒ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	5167-5437'		7354-7560'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	To Flow		Flowing
5. Bottomhole Pressure	a (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	457		717
Gas & Oil - Flowing: Measured Current	b (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1230		3007
6. Oil Gravity (°API) or Gas BT Content	1330		1185
7. Producing or Shut-In?	To be completed		Producing
Production Marginal? (yes or no)	Yes		Yes
• If Shut-In give date and oil/gas/water rates of last production	Date Rates	Date Rates	Date Rates
Note For new zones with no production history applicant shall be required to attach production estimates and supporting data			
• If Producing, date and oil/gas/water rates of recent test (within 60 days)	Date Rates Incremental Production by Subtraction	Date Rates	Date Rates Mid-Year Avg. Rates - See Table
8. Fixed Percentage Allocation Formula - % or each zone	oil: % Gas %	oil: % Gas %	oil: % Gas %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☒ No  
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No

11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each others ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10476-B

16. ATTACHMENTS

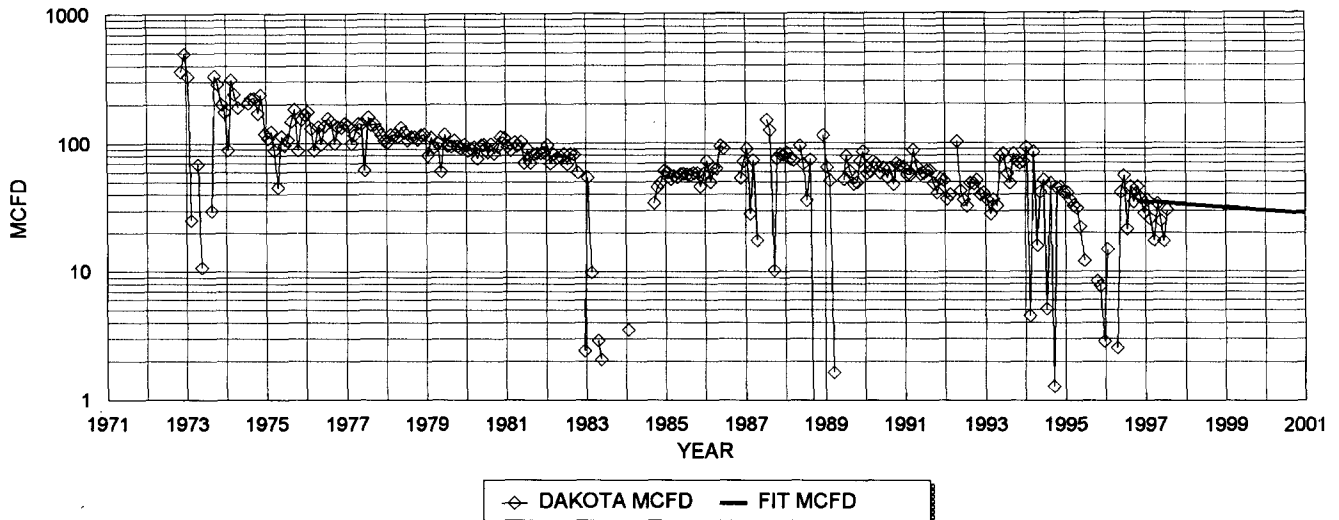
- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of all offset operators.
- \* Notification list of working, overriding and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Kay Maddox TITLE Regulatory Agent DATE January 6, 1998

TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. (915) 686-5798

**SAN JUAN 28-7 NO. 166 DAKOTA PRODUCTION  
SECTION 16K-27N-07W**



**DAKOTA HISTORICAL DATA: 1ST PROD: 11/72**

OIL CUM: 6.02 MBO  
 GAS CUM: 653.8 MMCF  
 CUM OIL YIELD: 0.0092 BBL/MCF  
 OIL YIELD: 0.0111 BBL/MCF, LAST 3 YRS  
 AVG. USED: 0.0102 BBL/MCF

**DAKOTA PROJECTED DATA**

1/1/98 Qi: 33 MCFD  
 DECLINE RATE: 5.0% (EXPONENTIAL)

**PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION**

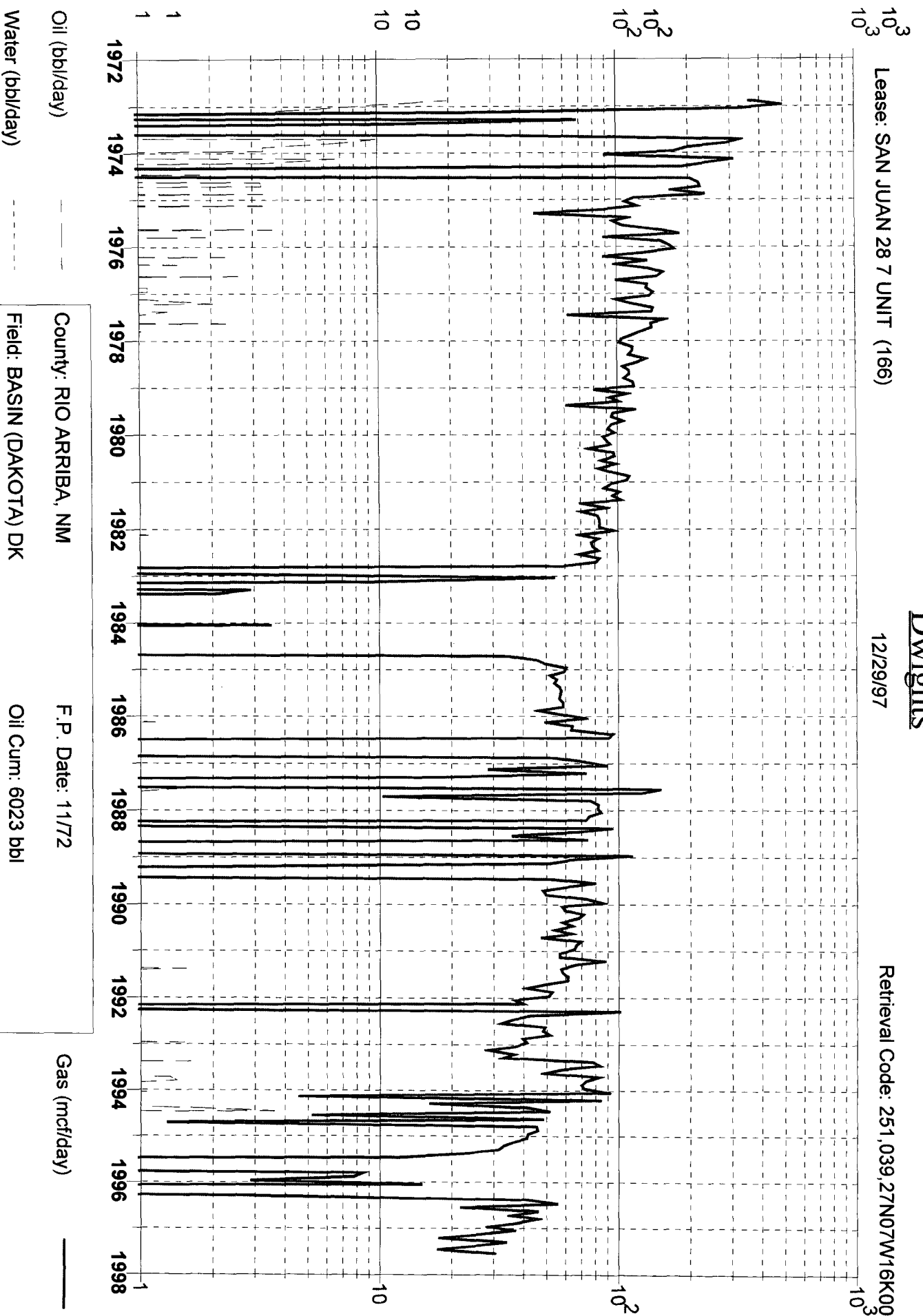
YEAR	MID-YEAR AVG. MCFD	MID-YEAR AVG. BOPD
1998	32.4	0.3
1999	30.8	0.3
2000	29.3	0.3
2001	27.8	0.3
2002	26.4	0.3
2003	25.1	0.3
2004	23.8	0.2
2005	22.6	0.2
2006	21.5	0.2
2007	20.4	0.2
2008	19.4	0.2
2009	18.4	0.2
2010	17.5	0.2
2011	16.6	0.2
2012	15.8	0.2
2013	15.0	0.2
2014	14.3	0.1
2015	13.6	0.1
2016	12.9	0.1
2017	12.2	0.1
2018	11.6	0.1
2019	11.0	0.1
2020	10.5	0.1
2021	10.0	0.1
2022	9.5	0.1
2023	9.0	0.1
2024	8.5	0.1
2025	8.1	0.1
2026	7.7	0.1
2027	7.3	0.1
2028	7.0	0.1
2029	6.6	0.1
2030	6.3	0.1
2031	6.0	0.1
2032	5.7	0.1

# Dwights

Lease: SAN JUAN 28 7 UNIT (166)

12/29/97

Retrieval Code: 251.039,27N07W16K00DK



Oil (bbl/day)

Water (bbl/day)

County: RIO ARRIBA, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: CONOCO INC

F.P. Date: 11/72

Oil Cum: 6023 bbl

Gas Cum: 653.8 mmcf

Location: 16K 27N 7W

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Revised February 21, 1994

instructions on back

District II  
PO Drawer DD, Artesia, NM 88211-0719

## OIL CONSERVATION DIVISION

Submit to Appropriate District Office

District III  
1000 Rio Brazos Rd. Aztec, NM 87410

PO Box 2088

State Lease - 4 Copies

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

Santa Fe, NM 87504-2088

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20523		2 Pool Code 72319		3 Pool Name Blanco Mesaverde	
4 Property Code 016608		5 Property Name San Juan 28-7 Unit			6 Well Number 166
7 OGRID No. 005073		8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500			9 Elevation 6594' GL

## 10 Surface Location

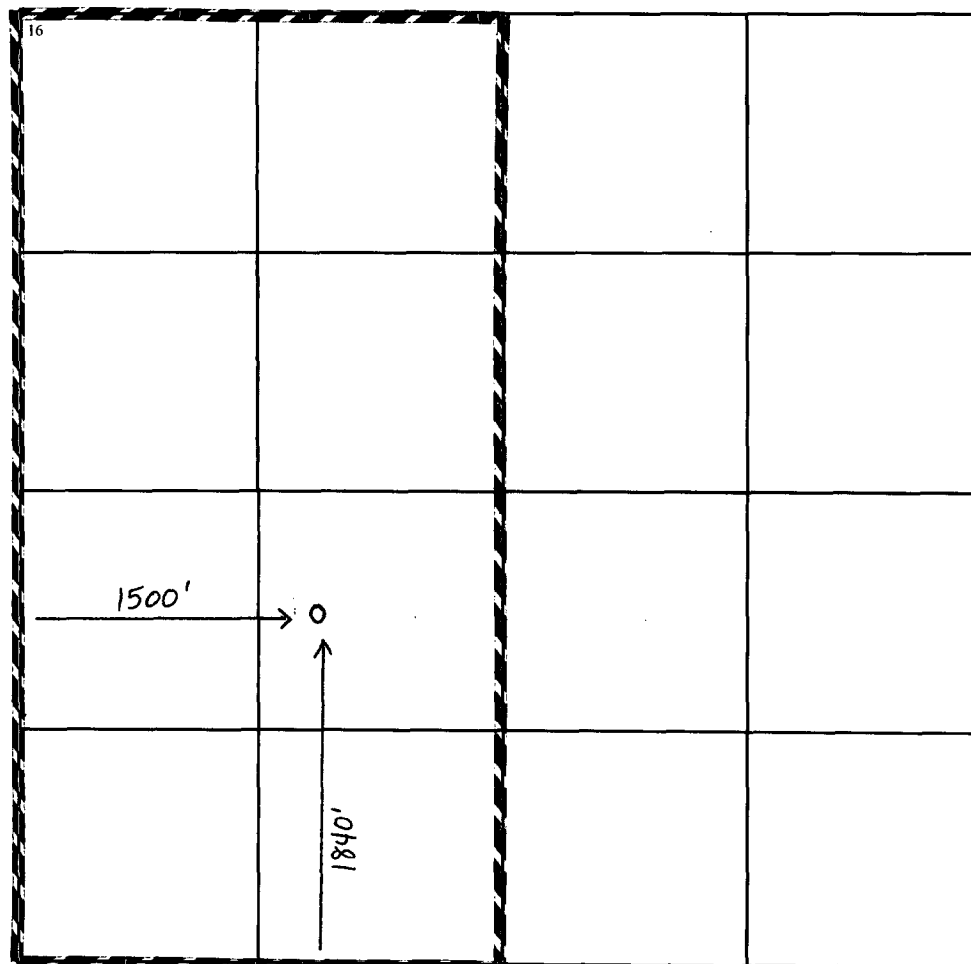
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	16	27N	7W		1840	South	1500	West	Rio Arriba

## 11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



## 17 OPERATOR CERTIFICATION

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

*Kay Maddox*  
Signature  
Kay Maddox

Printed Name

Regulatory Agent

Title

Date

*January 6, '98*

## 18 SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

N MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 1-112  
Supersedes O-128  
Effective 1-1-66

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

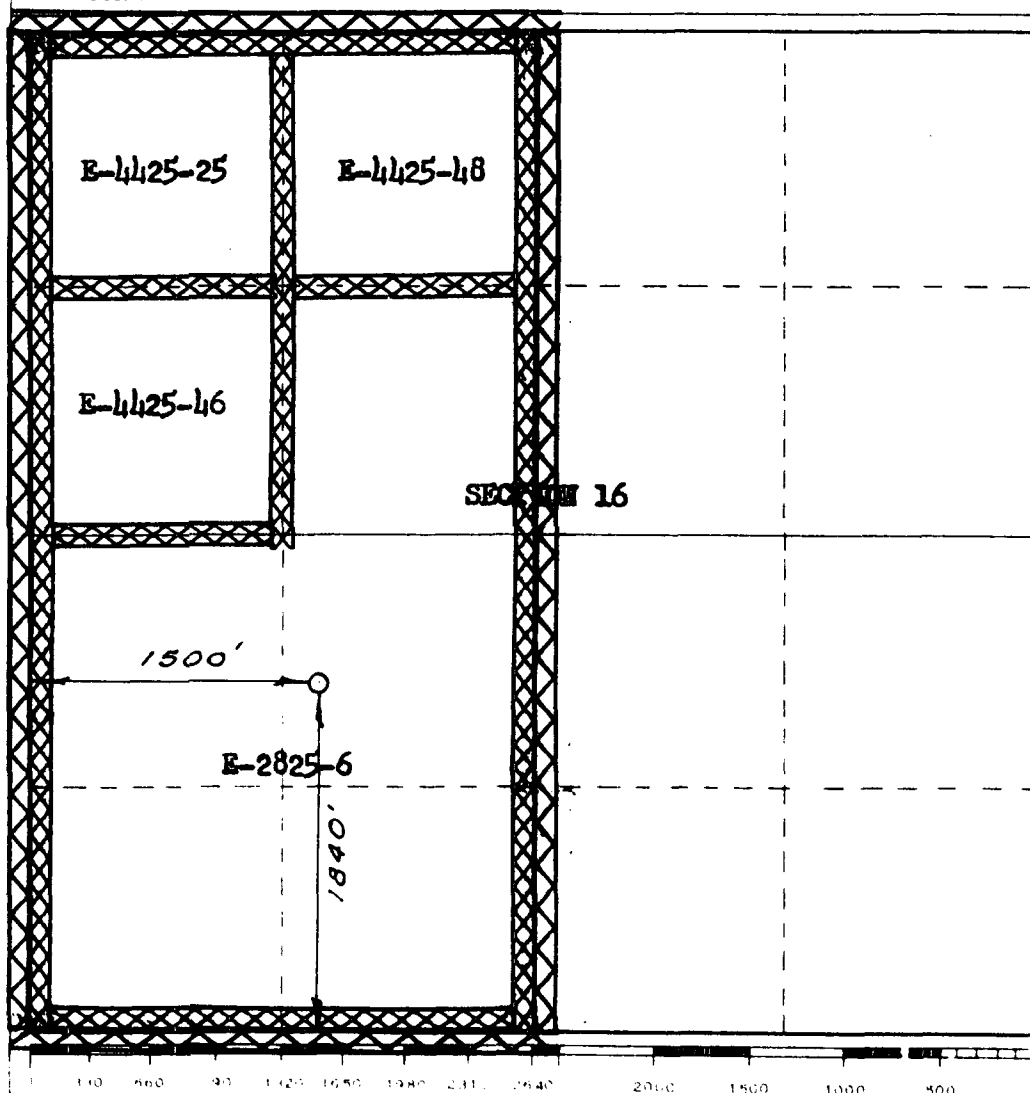
Owner <b>EL PASO NATURAL GAS COMPANY</b>			Lease <b>SAN JUAN 28-7 UNIT (E-2825-6)</b>		Well No. <b>166</b>
Tract Letter <b>K</b>	Section <b>16</b>	Township <b>27-N</b>	Range <b>7-W</b>	County <b>RIO ARriba</b>	
Actual Well Location at Well: <b>1840</b> feet from the <b>SOUTH</b> line and <b>1500</b> feet from the <b>WEST</b> line.					
Interval Elev. <b>6594</b>	Formation <b>DAKOTA</b>	Pool <b>BASIN DAKOTA</b>	Dedicated Acreage <b>320.00</b>		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the 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 \_\_\_\_\_

Position \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_

*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 of Survey \_\_\_\_\_

**APRIL 10, 1972**

Registered Professional Engineer  
and a State Surveyor

*[Signature]*  
\_\_\_\_\_  
Certified true.

**1760**



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**Mid-Continent Region**  
Exploration/Production

**Conoco Inc.**  
10 Desta Drive, Suite 100W  
Midland, TX 79705-4500  
(915) 686-5400

San Juan 28-7 Unit  
Downhole Commingle Application C-107-A

RE: Offset Operators

Conoco, Inc is the only offset operator.

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

OIL CONSERVATION DIVISION

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

P.O. Drawer DD, Artesia, NM 88210

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

WELL API NO.	30-039-20523
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	E 2825-6
7. Lease Name or Unit Agreement Name	San Juan 28-7 Unit
8. Well No.	#166
9. Pool name or Wildcat	Blanco Mesaverde, Basin Dakota

**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.)

1. Type of Well:  
Oil Well ☐ Gas Well ☒ OTHER

2. Name of Operator  
Conoco Inc.

3. Address of Operator  
10 Desta Dr. Ste 100W, Midland, Tx., 79705-4500

4. Well Location  
Unit Letter K 1840 Feet From The South Line and 1500 Feet From The West Line  
Section 16 Township 27N Range 7W NMPM Rio Arriba County

10. Elevauon (Show whether DF, RKB, RT, GR, etc.)  
6594'

11. 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"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <u>Downhole Commingle</u> <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER <input type="checkbox"/>

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

It is proposed to Downhole Commingle the Blanco Mesaverde & the Basin Dakota in this well

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

SIGNATURE Kay Maddox TITLE Regulatory Agent DATE January 6, 1998

TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. 686-5798

(this space for State Use)

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

CONITIONS OF APPROVAL, IF ANY: