

DATE IN 7/24/97	SUSPENSE 8/13/97	ENGINEER DC	LOGGED BY RV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

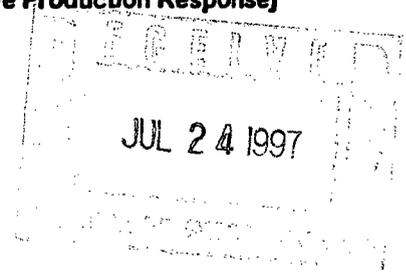
ADMINISTRATIVE APPLICATION COVERSHEET

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]

1654
(UC)
Measurement?



[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.

Ann. E. Ritchie
Print or Type Name

Signature

Regulatory Agent
Title

7-14-97
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

Federal

6E

E-6-T29N-R11W

San Juan

Lease

Well No

Unit Ltr Sec Twp Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 005073 Property Code 18022 API NO. 30 045 24059 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	Mesa Verde ⁷⁵⁶⁸⁰ 72319		Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	3668-3700'		6439-6594'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottom hole Pressure	a (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	268 psia		746 psia
Gas & Oil - Flowing: Measured Current	b (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1130 psia		1461 psia
6. Oil Gravity (*API) or Gas BTU Content	1381 BTU		1201 BTU
7. Producing or Shut-in?	producing		Producing
Production Marginal? (yes or no)	Yes		Yes
• If Shut-In give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data. • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date Rates	Date Rates:	Date Rates
	Date Rates 5-1-97 2 bopd, 1 bwpd, 290 mcf/d	Date Rates	Date Rates 5-1-97 1 bopd, 1 bwpd, 40 mcf/d
8. Fixed Percentage Allocation Formula -% for each zone	oil: 78 % Gas 85 %	oil: % Gas %	oil: 22 % Gas 15 %

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

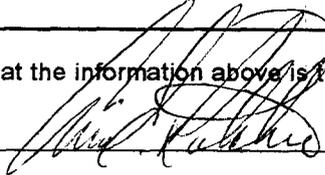
13. Will the value of production be decreased by commingling? Yes No (If Yes, attach explanation)

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). _____

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  TITLE Regulatory Agent DATE 7-17-97

TYPE OR PRINT NAME Ann E. Ritchie TELEPHONE NO. (915) 686-6548/684-6381

SOIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY 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.

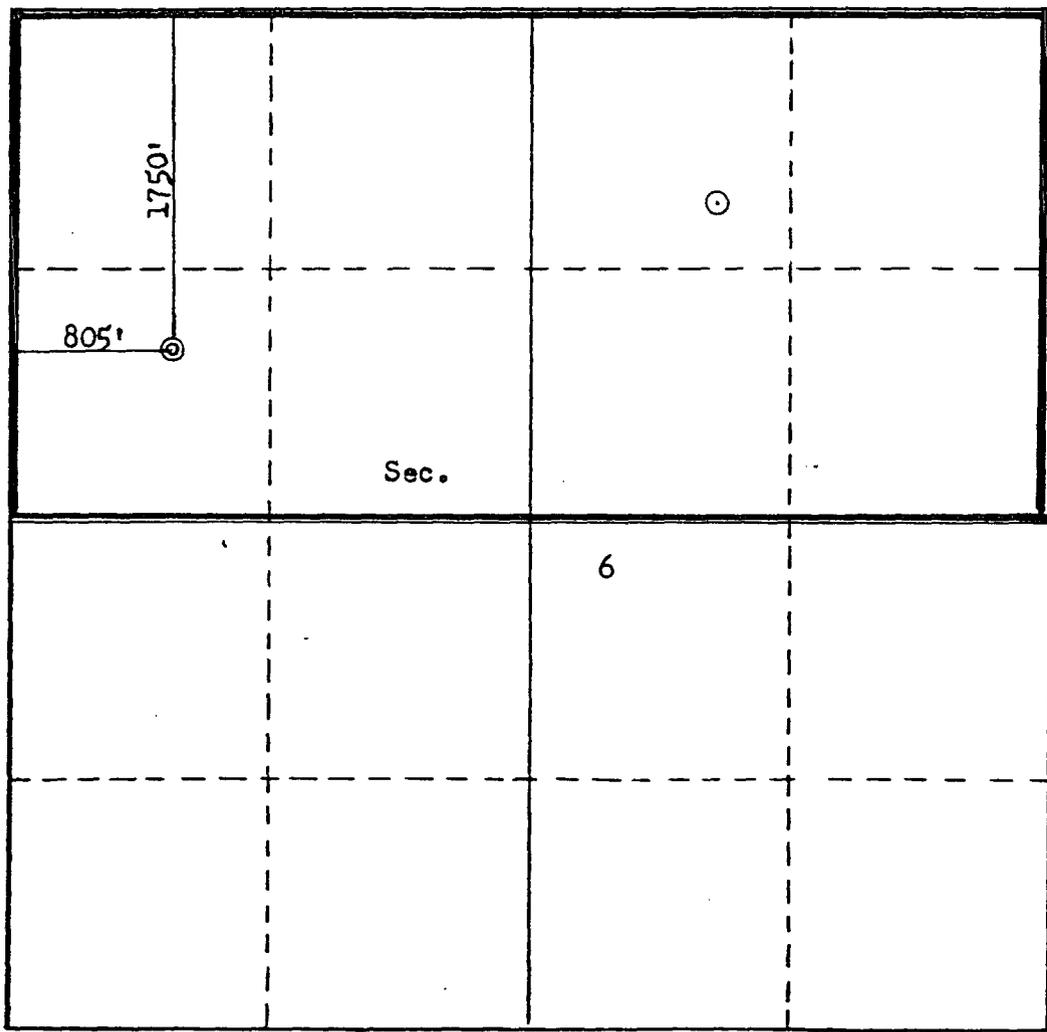
Operator MESA PETROLEUM COMPANY			Lease FEDERAL			Well No. 6-E		
Unit Letter E	Section 6	Township 29N	Range 11W	County San Juan				
Actual Footage Location of Well: 1750 feet from the North line and 805 feet from the West line								
Ground Level Elev. 5808		Producing Formation Dakota			Pool Basin Dakota		Dedicated Acreage: 320 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.

John Alexander
Name

JOHN ALEXANDER

Position

AGENT

Company

MESA PETROLEUM CO.

Date

November 14, 1979

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

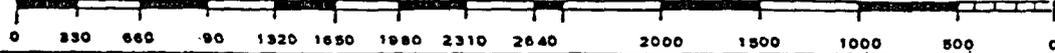
November 5, 1979

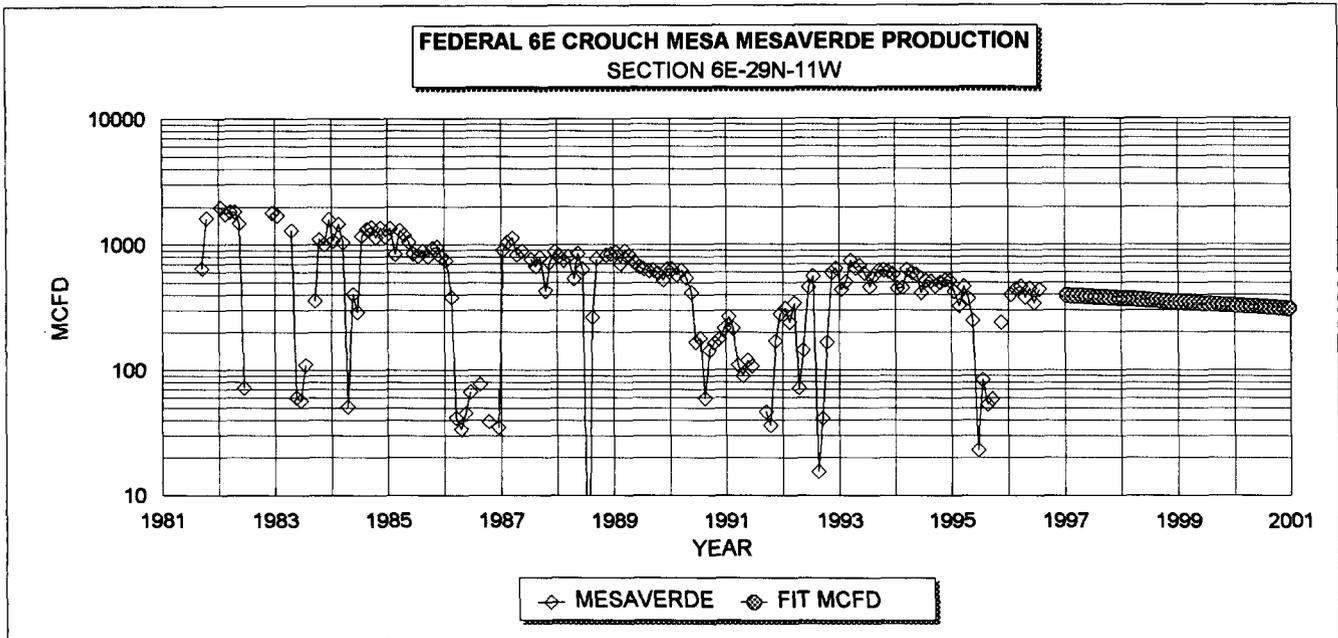
Registered Professional Engineer and/or Land Surveyor

Fred B. [Signature]
Fred B. [Signature]

Certificate No.

3950



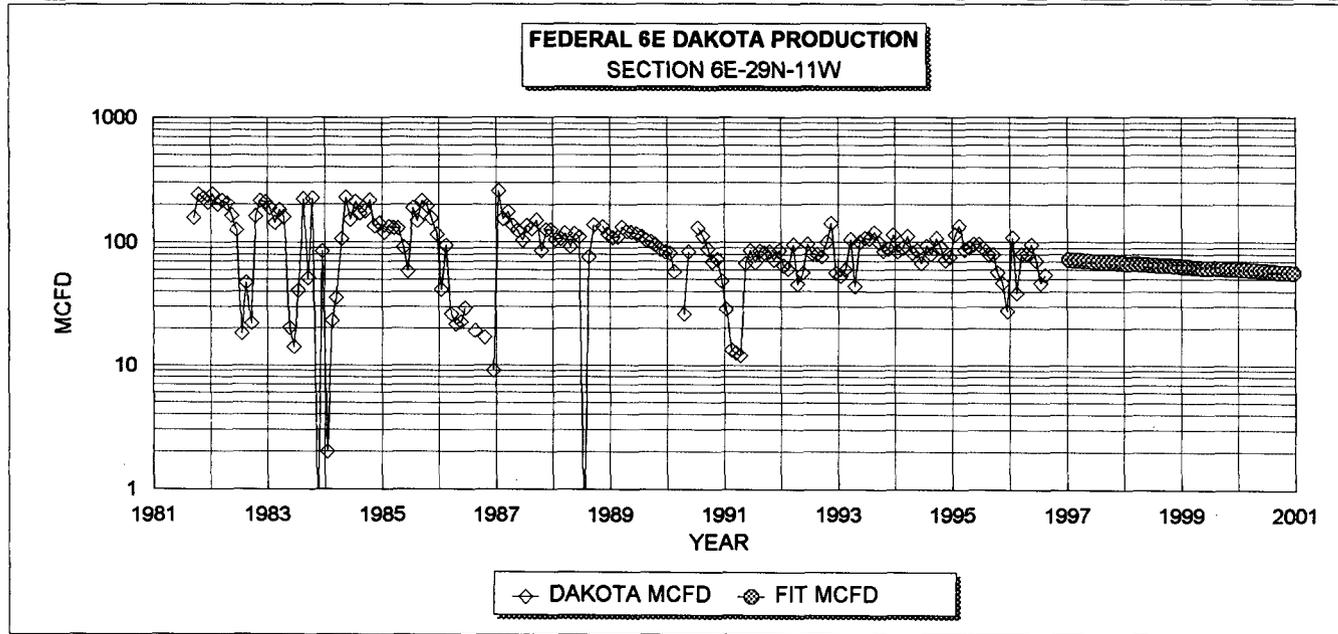


MESAVERDE HISTORICAL DATA: 1ST PROD: 09/81

OIL CUM:	10.55 MBO
GAS CUM:	2949.3 MMCF
OIL YIELD:	0.0036 BBL/MCF

MESAVERDE PROJECTED DATA

1/1/97 Qi:	394 MCFD
DECLINE RATE:	6.0% (EXPONENTIAL)



DAKOTA HISTORICAL DATA 1ST PROD: 09/81

OIL CUM:	2.9 MBO
GAS CUM:	539.8 MMCF
OIL YIELD:	0.0055 BBL/MCF

DAKOTA PROJECTED DATA

1/1/97 Qi:	72 MCFD
DECLINE RATE:	6.0% (EXPONENTIAL)

FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
MESAVERDE:	85%	78%
DAKOTA	15%	22%

GAS ALLOCATION BASED ON PROJECTED 1997 RATES
 OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS
 NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGYDATA

Conoco, Inc.
C-107-A
Offset Operator List

RE: Federal, Well #6E, San Juan County, New Mexico

1. Burlington Resources Oil & Gas Co.
P. O. Box 4289
Farmington, NM 87499
2. Amoco Production Co.
P. O. Box 800
Denver, CO 80201
3. Merrion Oil & Gas Corp.
610 Reilly Avenue
Farmington, NM 87401
4. Four Star Oil & Gas Co.
3300 N. Butler Avenue Ste 100
Farmington, NM 87401
5. Conoco, Inc.
10 Desta Dr., Suite 100W
Midland, Texas 79705-4500

Non-Identical Interest Owners:

1. Burlington Resources Oil & Gas Co.
P. O. Box 4289
Farmington, NM 87499
2. Mineral MGT Service
Onshore Federal #17555
P. O. Box 5810
Denver, CO 80217-5810

P 497 36A 614

US Postal Service
Receipt for Certified Mail

Mineral MGT Service
Onshore Federal #17555
P. O. Box 5810
Denver, CO 80217-5810

PS Form 3800, April 1995

Postage	\$.32
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 2.77
Postmark or Date	7-22-97

P 497 36B 613

US Postal Service
Receipt for Certified Mail

Four Star Oil & Gas Co.
3300 N. Butler Avenue Ste 100
Farmington, NM 87401

PS Form 3800, April 1995

Postage	\$.32
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 2.77
Postmark or Date	7-22-97

P 497 36B 612

US Postal Service
Receipt for Certified Mail

Merrion Oil & Gas Corp.
610 Reilly Avenue
Farmington, NM 87401

PS Form 3800, April 1995

Postage	\$.32
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 2.77
Postmark or Date	7-22-97

P 497 36A 622

US Postal Service
Receipt for Certified Mail

Caulkins Oil Co.
1600 Broadway Ste. 2100
Denver, CO 80202

PS Form 3800, April 1995

Postage	\$.55
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.00
Postmark or Date	7-22-97

P 497 36B 608

US Postal Service
Receipt for Certified Mail

Chateau Oil & Gas Inc.
2515 McKinney Ave Ste. 840
Dallas, TX 75201

PS Form 3800, April 1995

Postage	\$ 1.47
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.92
Postmark or Date	7-22-97

P 497 36B 609

US Postal Service
Receipt for Certified Mail

Amoco Production Company
P. O. Box 800
Denver, CO 80202

PS Form 3800, April 1995

Postage	\$ 1.24
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.69
Postmark or Date	7-22-97

P 497 36B 607

US Postal Service
Receipt for Certified Mail

Burlington Resources Oil & Gas Co.
P. O. Box 4289
Farmington, NM 87499

PS Form 3800, April 1995

Postage	\$ 1.70
Certified Fee	1.35
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 4.15
Postmark or Date	7-22-97