

## DISTRICT I

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

## DISTRICT II

811 South First St. Artesia NM 88210 2835

## DISTRICT III

1000 Rio Brazos Rd. Aztec, NM 87410 1693

State of New Mexico  
Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429Form C-107-A  
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

## APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.

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

Jackson

2E

Section 33, T-29-N, R-9-W, B

San Juan

Lease

Well No

Unit Ltr Sec 1wp Rge

County

OGRID NO. 005073

Property Code

??

API NO.

30-045-24931

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	Otero Chacra 82329	Blanco Mesaverde 72319	Basin Dakota 71599
2. TOP and Bottom of Pay Section (Perforations)	3256-3392'	4130-4916'	6666-6832'
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing	To Flow	Flowing
5. Bottomhole Pressure	a (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	563	475	715
Gas & Oil - Flowing: Measured Current	b(Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	868	1175	2423
6. Oil Gravity (°API) or Gas BT Content	1185	1335	1268
7. Producing or Shut-In?	Producing	To Be Completed	Producing
Production Marginal? (yes or no)	Yes	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 Est 1/98 57 MCFD, .05 BOPD, 0 BWPD	Date Rates Production by subtraction See Attached table	Date Rates Est 1/98 98 MCFD, 1.29 BOPD, 0 BWPD
8. Fixed Percentage Allocation Formula - % or each zone	% Gas %	% Gas %	% 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?

If not, have all working, overriding, and royalty interests been notified by certified mail?

Have all offset operators been given written notice of the proposed downhole commingling?

X Yes \_\_\_ No  
Yes X No  
X Yes \_\_\_ No

11. Will cross-flow occur? X 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. X Yes \_\_\_ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each others X Yes \_\_\_ No

13. Will the value of production be decreased by commingling? \_\_\_ Yes X 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. X Yes \_\_\_ No

15. NMOC Reference Cases for Rule 303(D) Exceptions:

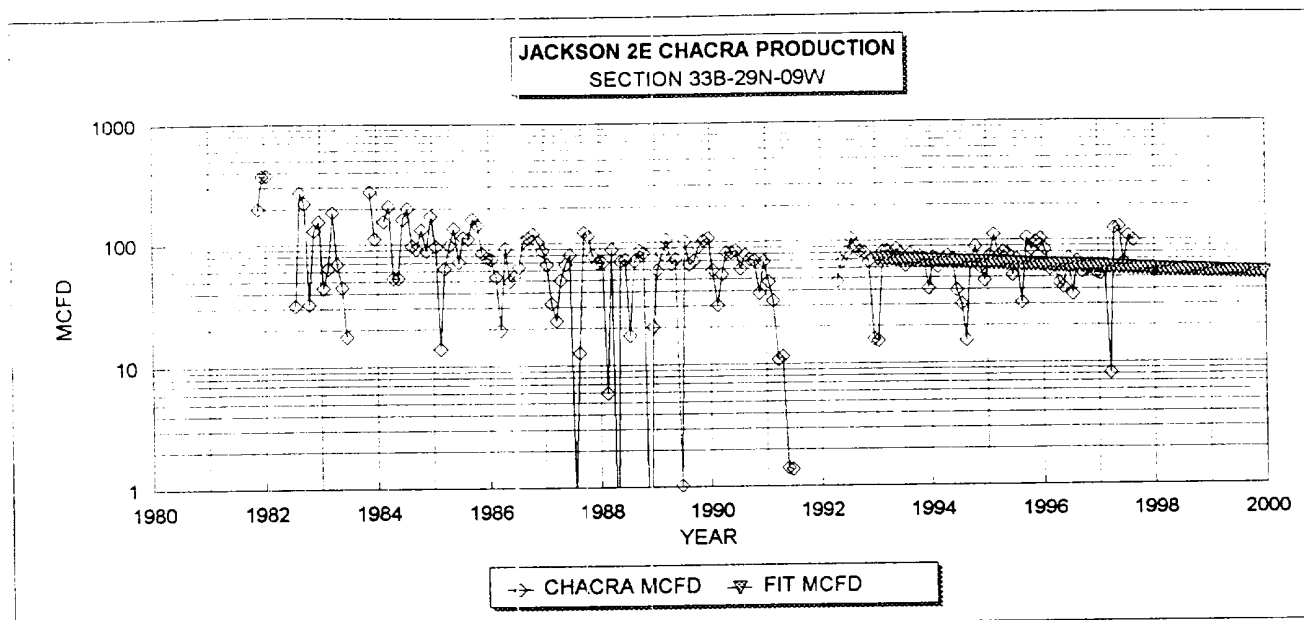
ORDER NO(S). DHC 1208 Chacra/DK

## 16. ATTACHMENTS

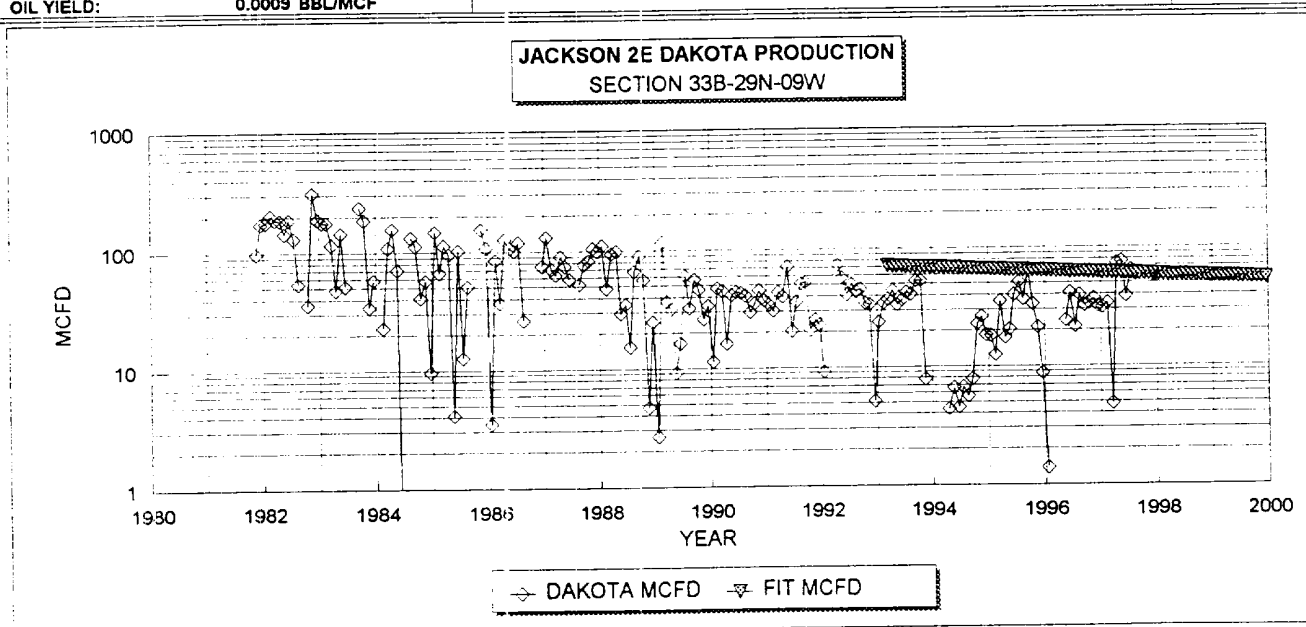
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation 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 February 13, 1998TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. (915) 686-5798



<b>CHACRA HISTORICAL DATA:</b>		<b>1ST PROD: 11/81</b>	<b>CHACRA PROJECTED DATA</b>	
OIL CUM:	0.37	MBO	1/1/98 Qi:	57 MCFD
GAS CUM:	414.6	MMCF	DECLINE RATE:	4.0% (EXPONENTIAL)
OIL YIELD:	0.0009	BBL/MCF		



<b>DAKOTA HISTORICAL DATA:</b>		<b>1ST PROD: 11/81</b>	<b>DAKOTA PROJECTED DATA</b>	
OIL CUM:	7.1	MBO	1/1/98 Qi:	58 MCFD
GAS CUM:	315.1	MMCF	DECLINE RATE:	4.0% (EXPONENTIAL)
OIL YIELD:	0.0224	BBL/MCF		

<b>FIXED COMMINGLE ALLOCATION FACTORS:</b>		
	<b>GAS</b>	<b>OIL</b>
CHACRA	50%	4%
DAKOTA	50%	96%

GAS ALLOCATION BASED ON PROJECTED 1998 RATES  
OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGYDATA

PREPARED BY: PMS

JACKSON 2E: CHACRA AND DAKOTA FORECAST FOR SUBTRACTION COMMINGLE WITH MESAVERDE  
33B-29N-09W

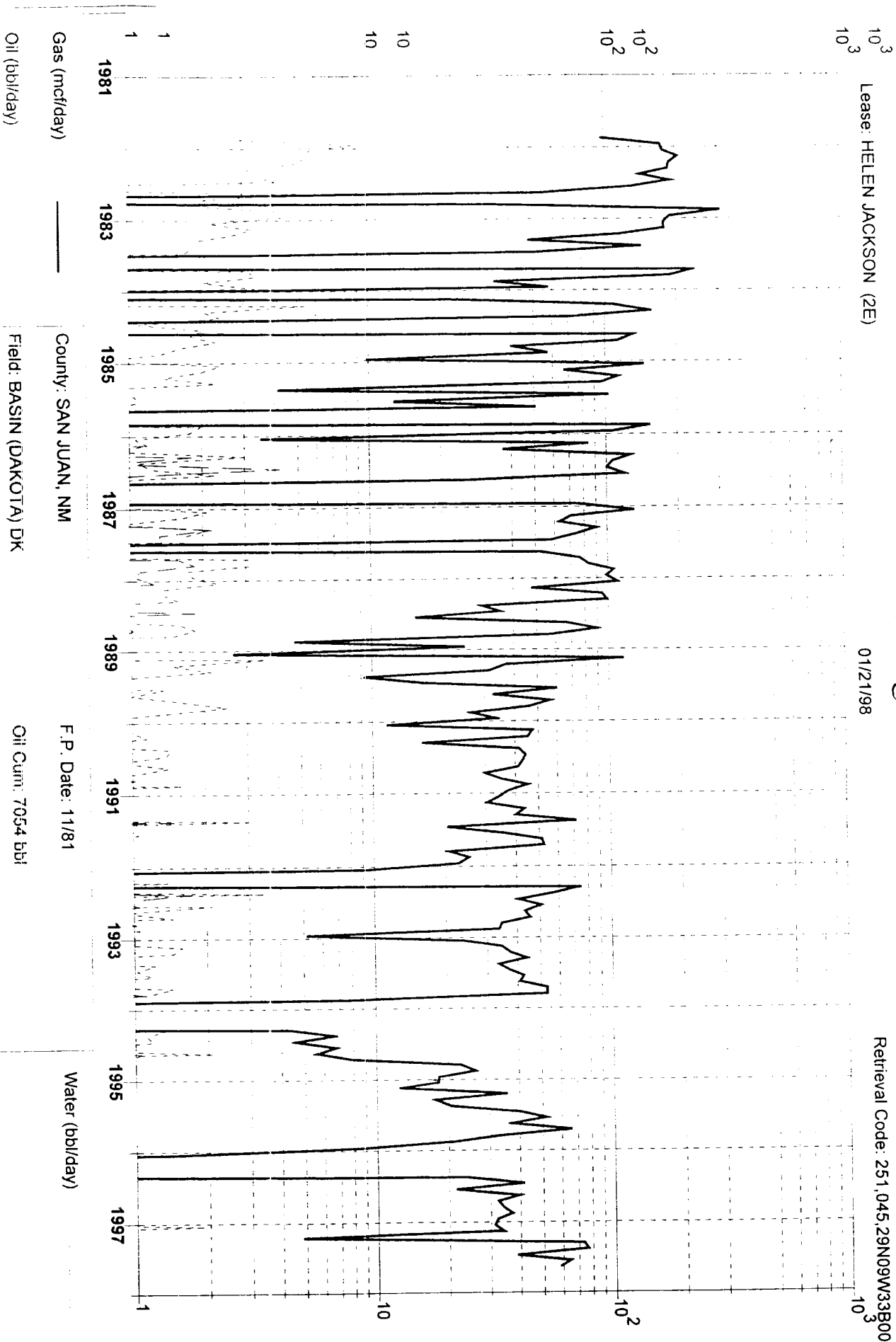
YEAR	CHACRA MCFD	DAKOTA MCFD	TOTAL MCFD	CHACRA OIL; BOPD	DAKOTA OIL; BOPD
1998	56	57	114	0.0	1.3
1999	55	56	111	0.0	1.3
2000	53	54	107	0.0	1.2
2001	51	52	103	0.0	1.2
2002	49	50	98	0.0	1.1
2003	47	48	95	0.0	1.1
2004	45	46	91	0.0	1.0
2005	43	44	87	0.0	1.0
2006	41	42	84	0.0	0.9
2007	40	40	80	0.0	0.9
2008	38	39	77	0.0	0.9
2009	37	37	74	0.0	0.8
2010	36	36	71	0.0	0.8
2011	34	34	68	0.0	0.8
2012	32	33	65	0.0	0.7
2013	31	32	63	0.0	0.7
2014	30	30	60	0.0	0.7
2015	29	29	58	0.0	0.7
2016	28	28	56	0.0	0.6
2017	26	27	53	0.0	0.6
2018	25	26	51	0.0	0.6
2019	24	25	49	0.0	0.6
2020	23	24	47	0.0	0.5
2021	22	23	45	0.0	0.5
2022	22	22	44	0.0	0.5
2023	21	21	42	0.0	0.5
2024	20	20	40	0.0	0.5
2025	19	19	39	0.0	0.4
2026	18	19	37	0.0	0.4
2027	18	18	35	0.0	0.4
2028	17	17	34	0.0	0.4
2029	16	16	33	0.0	0.4
2030	16	16	31	0.0	0.4
2031	15	15	30	0.0	0.3

# Dwights

Lease: HELEN JACKSON (2E)

01/21/98

Retrieval Code: 251,045,29N09W33B00DK



County: SAN JUAN, NM

F.P. Date: 11/81

Field: BASIN (DAKOTA) DK

Oil Cum: 7054 bbl

Reservoir: DAKOTA

Gas Cum: 315.1 mmcf

Operator: AMOCO PRODUCTION CO

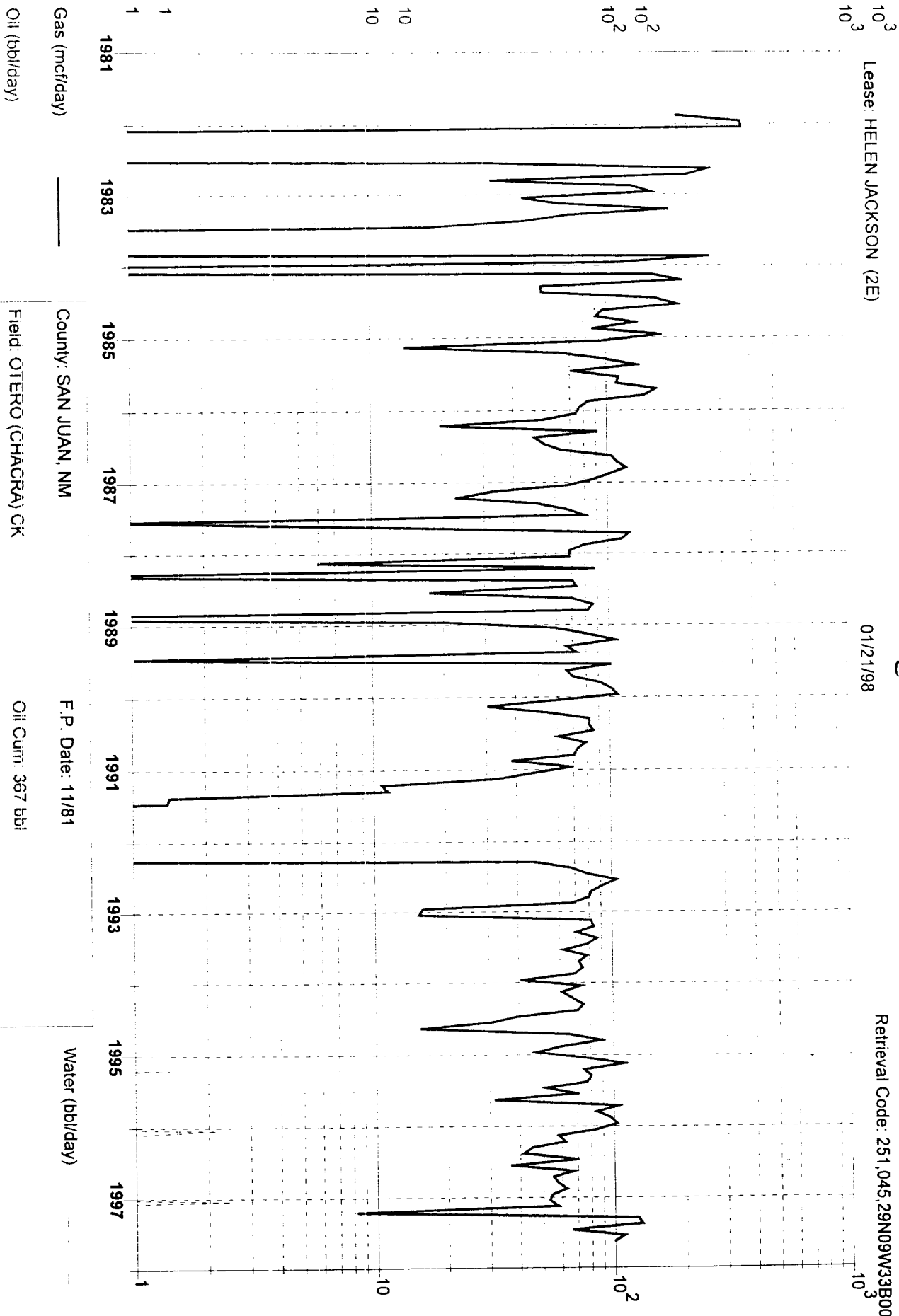
Location: 33B 29N 9W

# Dwights

Lease: HELEN JACKSON (2E)

01/21/98

Retrieval Code: 251,045,29N09W33B00CK



Gas (mcf/day)

Oil (bbl/day)

County: SAN JUAN, NM

Field: OTERO (CHACRA) CK

Reservoir: CHACRA

Operator: AMOCO PRODUCTION CO

F.P. Date: 11/81

Oil Cum: 367 bbl

Gas Cum: 414.6 mmcf

Location: 33B 29N 9W

Conoco, Inc.  
10 Desta Dr Ste 100W  
Midland, TX 79705

Re: Application to Downhole Commingle C-107A  
Jackson #2E, Section 33, T-29-N, R-9-W, B  
San Juan County, New Mexico

**Notification Of Offset Operators:**

Amoco  
PO Box 800  
Denver, CO 80201

Burlington Resources  
PO Box 4289  
Farmington, NM 87499

West Largo Corp.  
6638 W. Ottawa Ave STE 100  
Littleton, Co 80123

S&G Interests  
811 Dallas STE 1505  
Houston, TX 77002

D.J. Simmons  
PO Box 1469  
Farmington, NM 87499

Koch Exploration Co.  
PO Box 2256  
Wichita, KA 67201

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

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

District III  
1000 Rio Brazos Rd. Aztec, NM 87410

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION BLM

PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

RECEIVED  
FEB 19 PM 12:28

070 FARMINGTON, NM

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-24931	2 Pool Code 72319	3 Pool Name Blanco Mesaverde
4 Property Code	5 Property Name Jackson	6 Well Number #2E
7 OGRID No. 005073	8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	9 Elevation 5902'

#### 10 Surface Location

UL or lot no B	Section 33	Township 29N	Range 9W	Lot Idn	Feet from the 1010	North/South line North	Feet from the 1660	East/West line East	County San Juan
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#### 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
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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

16	<p>1010' 1660'</p>				<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
					Signature <i>Kay Maddox</i>	
					Printed Name Kay Maddox	
					Title Regulatory Agent	
				Date February 13, 1998		
				<b>18 SURVEYOR CERTIFICATION</b> 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		

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

Owner <b>Tenneco Oil Company</b>			Lease <b>Jackson</b>		Well No. <b>2E</b>
Well Letter <b>B</b>	Section <b>33</b>	Township <b>29N</b>	Range <b>9W</b>	County <b>BLM San Juan</b>	
Actual Footage Location of Well: 1010 feet from the <b>North</b> line and 1660 feet from the <b>East</b> line					
Land Level Elev. <b>5902'</b>	Producing Formation <b>Dakota/Chacra</b>		Pool <b>Dakota/hacra</b>	Dedicated Acreage <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

		<b>CERTIFICATION</b>	
		<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>[Signature]</i></p> <p>Name <b>Production Analyst</b></p> <p>Position <b>Tenneco Oil Company</b></p> <p>Company <b>8/3/81</b></p> <p>Date</p>	
<p><b>ACCEPTED FOR RECORD</b></p> <p><b>AUG 20 1981</b></p> <p><b>FARMINGTON DISTRICT</b></p> <p>BY <i>[Signature]</i></p>		<p>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.</p>	
		<p>Date Surveyed</p> <p>Registered Professional Engineer and/or Land Surveyor</p> <p>Certificate No.</p>	

0 330 660 990 1320 1650 1980 231 2640 2970 3300 3630

OPERATOR

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

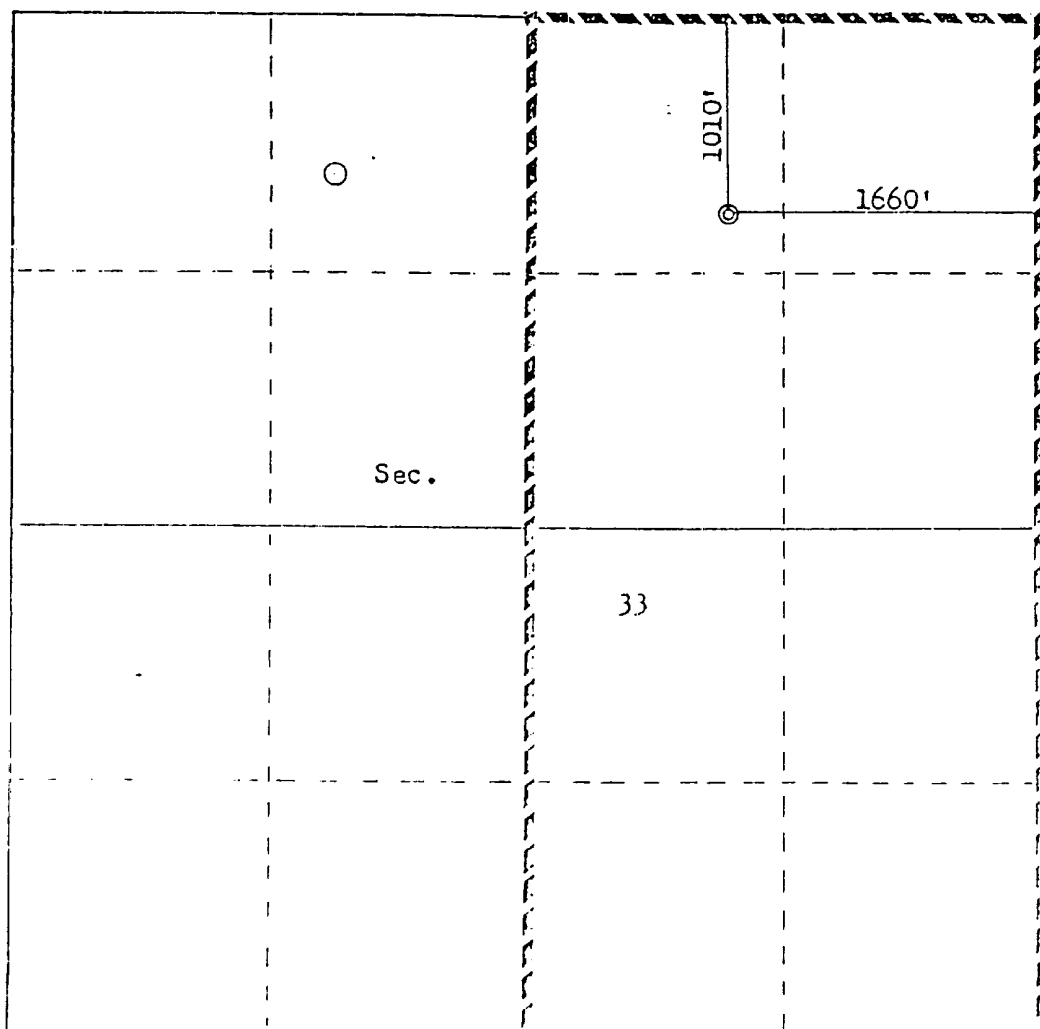
TENNECO OIL COMPANY			Lease JACKSON		RECEIVED BLM	Well No. 2E
Section 8	Range 33	Township 29N	Range 7W	County 90 FEB 10 1981		
1010 feet from the North		1660 feet from the East				
Producing Formation Dakota		Pool Basin Dakota		Dedicated Acres 57.9		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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" = 200'

#### CERTIFICATION

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

*R. A. Mishler*

Name

R. A. Mishler

Position

Sr. Production Analyst

Company

Tenneco Oil Company

Date

February 5, 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

February 5, 1981

Professional Engineering and Land Surveyor

*Fred E. Kerker*  
Fred E. Kerker

Certificate No. 1055

SAFER, N.M.