



**Amoco Production Company**

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401  
505-325-8841

S. D. Blossom  
District Superintendent

January 10, 1984

New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, NM 87410

File: DHS-10-986.510.1

Commingling Application for the Jicarilla Contract 155 No. 22, Unit I,  
Section 31, T26N, R5W, Rio Arriba County, New Mexico

Amoco Production Company requests approval to downhole commingle production from the Basin Dakota and the Blanco Mesaverde pools in the subject well. The commingling will utilize a production packer set between the two zones at 7040' and a sliding sleeve set at 7030' to produce up 2-3/8" tubing landed at 7286'.

The commingling of Dakota and Mesaverde pools is necessary to more efficiently produce the Mesaverde. The gas production of the Mesaverde is not sufficient to lift Mesaverde liquids up the tubing-casing annulus. By producing the Mesaverde up the tubing, the liquids from the Mesaverde will be efficiently produced. The proposed commingling will not adversely affect either zone for the following reasons:

1. Neither zone will be damaged by the small amount of formation water which is produced. The Dakota formation has averaged 0 BWPM during 1983. The Mesaverde has averaged 0 BWPM during 1983.
2. Neither zone has a history of sensitivity to liquid hydrocarbons and should not be damaged by condensate production.
3. Both zones have common ownership, so the allocation of royalty or working interest payments will not be a problem.
4. The bottom hole pressure of the Basin Dakota is 97 percent of the Mesaverde.

In compliance with NMOCD Rule 303C, please find two copies of each of the following:

1. "Well Location and Dedication Plat" (NMOCD Form C-102).
2. Well location map showing location of all outside operated wells.
3. List of names and addresses of operators for all outside operated wells.

RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

Page 2  
January 10, 1984  
File: DHS-10-986.510.1

4. A complete well completion history (USGS Form 9-331, "Sundry Notices and Reports on Wells).
5. A complete engineering completion summary on both zones.
6. Production decline curve for the Basin Dakota.
7. Production decline curve for the Blanco Mesaverde.
8. NMOCD Form C-116 showing latest Dakota production.
9. NMOCD Form C-116 showing latest Mesaverde production.
10. Seven-day bottom hole pressure on the Dakota.
11. Calculated bottom hole pressure on the Mesaverde.
12. Gas analysis from the Dakota.
13. Gas analysis from the Mesaverde.
14. Water analysis from the Dakota.
15. Formula for the allocation of production for each commingled zone.
16. A copy of the letter sent to all offset operators and the Bureau of Land Management notifying them of our intent to commingle.

To allocate production to the individual Mesaverde and Dakota horizons we recommend the following:

1. Allocate 18 percent of the gas production to the Mesaverde horizon.
2. Allocate 82 percent of the gas production to the Dakota horizon.
3. Allocate 24 percent of the condensate production to the Mesaverde horizon.
4. Allocate 76 percent of the condensate production to the Dakota horizon.

Please approve this commingling application as soon as possible so we can produce the Mesaverde up the tubing.

Yours very truly,

*J. D. Blossom*  
*JMB*

MJB/lf/tk  
Attachments

AMQ

RECEIVED

JAN 25 1984

CLERK  
BUTLER

## Attachment 1

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLATForm C-102  
Supersedes C-128  
Effective 1-1-65

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

Operator Pan American Petroleum Corp.		Lease Jicarilla Contract 155		Well No. 22	
Unit Letter I	Section 31	Township 26N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1600 feet from the South line and 1100 feet from the East line					
Ground Level Elev. 6652 (ungraded)	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: S/2 319.3 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.

39.75	RECEIVED JAN 25 1984 OIL CON. DIV. DIST. 3	RECEIVED MAY 26 1969 OIL CON. COM. DIST. 3
39.65		
39.55	RECEIVED JAN 30 1984 OIL CONSERVATION DIVISION SANTA FE	1100'
39.45		
		1600'

## CERTIFICATION

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

Name G. W. Eaton, Jr.  
Position Area Engineer  
Company PAN AMERICAN PETROLEUM CORP.  
Date May 21, 1969

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 May 17, 1969  
Registered Professional Engineer and/or Land Surveyor

Fred B. Keady, Jr.  
Certificate

25	30	29
<p>Sanchez #4 Cavikins</p> <p>Reanes Com #1 Tenneco</p> <p>Reanes Com #15 Tenneco</p> <p>Sanchez #4E Cavikins</p> <p>Romero Com #1 Tenneco</p> <p>Thatcher A Com #1 EPNG</p> <p>36</p>	<p>Jic Cont 155 #16</p> <p>Jic Cont 155 #16E</p> <p>Jic Cont 155 #13E</p> <p>Jic Cont 155 #13</p> <p>Jic Cont 155 #25</p> <p>Amoco</p> <p>31</p>	<p>Jic Cont 155 #20E</p> <p>Jic Cont 155 #19</p> <p>Jic Cont 155 #19E</p> <p>Jic Cont 155 #20</p> <p>Amoco</p> <p>32</p>
<p>Canyon Largo Unit A/P #237</p> <p>Canyon Largo #250</p> <p>Canyon Largo #235</p> <p>EPNG</p>	<p>Jic Cont 147 #6</p> <p>Jic Cont 147 #3</p> <p>Jic Cont 147 #6E</p> <p>Jic Cont 147 #3E</p> <p>Amoco</p> <p>6</p>	<p>Jic Cont 147 #4E</p> <p>Jic Cont 147 #4</p> <p>Jic Cont 147 #2</p> <p>Jic Cont 147 #2E</p> <p>Amoco</p> <p>5</p>

■ BASIN DAKOTA WELLS

▲ GONZALES MESAVERDE WELLS

RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

Attachment 3

Tenneco Oil Company  
P.O. Box 3249  
Englewood, Colorado 80155

El Paso Natural Gas Company  
P.O. Box 990  
Farmington, New Mexico 87499

RECEIVED  
JAN 25 1984  
OIL CON. DIV.  
DIST. 3

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIP  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1424.  
5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 155

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 155

9. WELL NO.

22

10. FIELD AND POOL, OR WILDCAT

Basin Dakota - *Basin Dakota*11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

NE/4 SE/4 Section 31,

T-26-N, R-5-W

12. COUNTY OR PARISH

Rio Arriba

New Mexico

## 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—" for such proposals.)1. OIL ☐ GAS ☒  
WELL WELL OTHER

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1600' FSL &amp; 1100' FEL, Section 31, T-26-N, R-5-W

14. PERMIT NO.

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

6652' GL. 6666' RDB

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

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

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

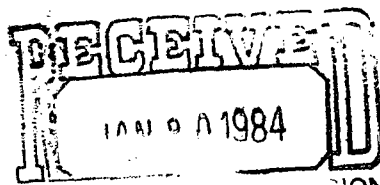
REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

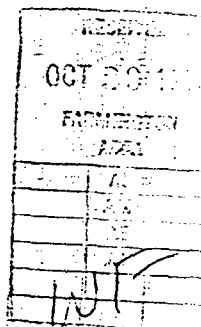
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.)\*

On 9-17-73 moved in a service unit to dually complete the subject well. Set a Model "NC" bridge plug at 7050' and loaded hole with 0.8% KCl water. Spotted 500 gallons 15% HCl. Perforated intervals 5116-5139, 5165-5171, 5187-5194, 5202-5207, 5216-20, 5231-5237 & 5270-5276 with 1 SPP. Sand-water fraced 9-19-73 with 40,000 gallons treated water, 20,000 pounds 10-20 sand and 20,000 pounds 8-12 sand. Dropped 25 balls midway thru frac and injection rate went from 60 BPM at 2200 psi to 30 BPM at 2900 psi. Maximum pressure 2900 and average 2650 psi. AIR 45 BPM. Cleaned out well to bridge plug at 7050'. Drilled and pushed bridge plug to 7400' PBD. On 9-22-73 set a Model "D" packer at 7040'. Landed 2-3/8" tubing in packer with 1-1/4" tubing landing at 7286'.



RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 318. I hereby certify that the foregoing is true and correct  
Original Signed bySIGNED ARNOLD SNELLTITLE Area EngineerDATE October 26, 1973

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

OCT 29 1973

015-11565, New Mexico  
1- AT Hunter  
1- Joe Smith, New Mexico  
1- Ryan

\*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY  
DURANGO, CO.

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Attachment 4 con't  
SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

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" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 155

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 155

9. WELL NO.

22

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC. T., R., N., OR BLK. AND SURVEY OR AREA

SE/4, Section 21,

T-26-N, R-5-W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1600 FSL & 1100 FKL, Section 21, T-26-N, R-5-W

14. PERMIT NO.

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

6652' GL 6666 EDR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).\*

Amoco intends to dually complete this existing Dakota well with the Mesaverde.  
The procedure which we intend to use is as follows:

1. Pull tubing and set a bridge plug above Dakota perf.
2. Run gamma ray neutron log.
3. Perf. and sand/water frac. productive Mesaverde Zones from 5115-5295.
4. Drill bridge plug and clean out to bottom.
5. Set a production packer over the Dakota and set tubing in packer.
6. Complete as a Basin Dakota and Gonzales Mesa Mesaverde well with Dakota gas produced up tubing and Mesaverde gas up casing.

RECEIVED  
JAN 30 1984  
OIL CONSERVATION DIVISION  
SANTA FE

RECEIVED  
JAN 25 1984  
OIL CON. DIV.  
DIST. 3

RECEIVED  
JUL 3 1973  
FARMINGTON  
AREA  
AS  
AS  
/ AS DIT  
AA  
Zu  
PCP  
W/T

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

SIGNED Original Signed by  
J. ARNOLD SHELL

TITLE Area Engineer

DATE June 29, 1973

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:  
JUL 2 1973  
Jerry W. Long  
JERRY W. LONG  
DISTRICT ENGINEER

TITLE

\*See Instructions on Reverse Side

RECEIVED  
JUL 2 1973  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, N.M.

Attachment 5  
Well Completion History

- 11-02-69 - MIRUSU. Drill out DV tool at 5381' and clean out to PBD at 7400'.
- 11-03-69 - Perforate 7220-30', 7260-62', and 7303-08' with 2 JSPF. Frac interval with 30,410 gallons treated water and 30,000 pounds sand. Set CIBP at 7200' and pressure test. Perforated 7090-7110' with 2 JSPF. Fraced interval with 20,000 pounds sand.
- 11-04-69 - Drill out CIBP and clean out to PBD. Land 2-3/8" tubing at 7220'.
- 11-05-69 - Released rig.
- 9-17-73 - MIRUSU and TOH with 2-3/8" tubing.
- 9-18-73 - Perforate 5276-70', 5237-31', 5220-16', 5207-02', 5194-87', 5171-65', and 5139-16' with 1 JSPF. Frac with 42,000 gallons treated water and 40,000 pounds sand.
- 9-21-73 - TIH with 2-3/8" tubing landing seal assembly in packer at 7040'.
- 9-22-73 - Release rig.

RECEIVED  
JAN 25 1984  
OIL CON. DIV.  
DIST. 3

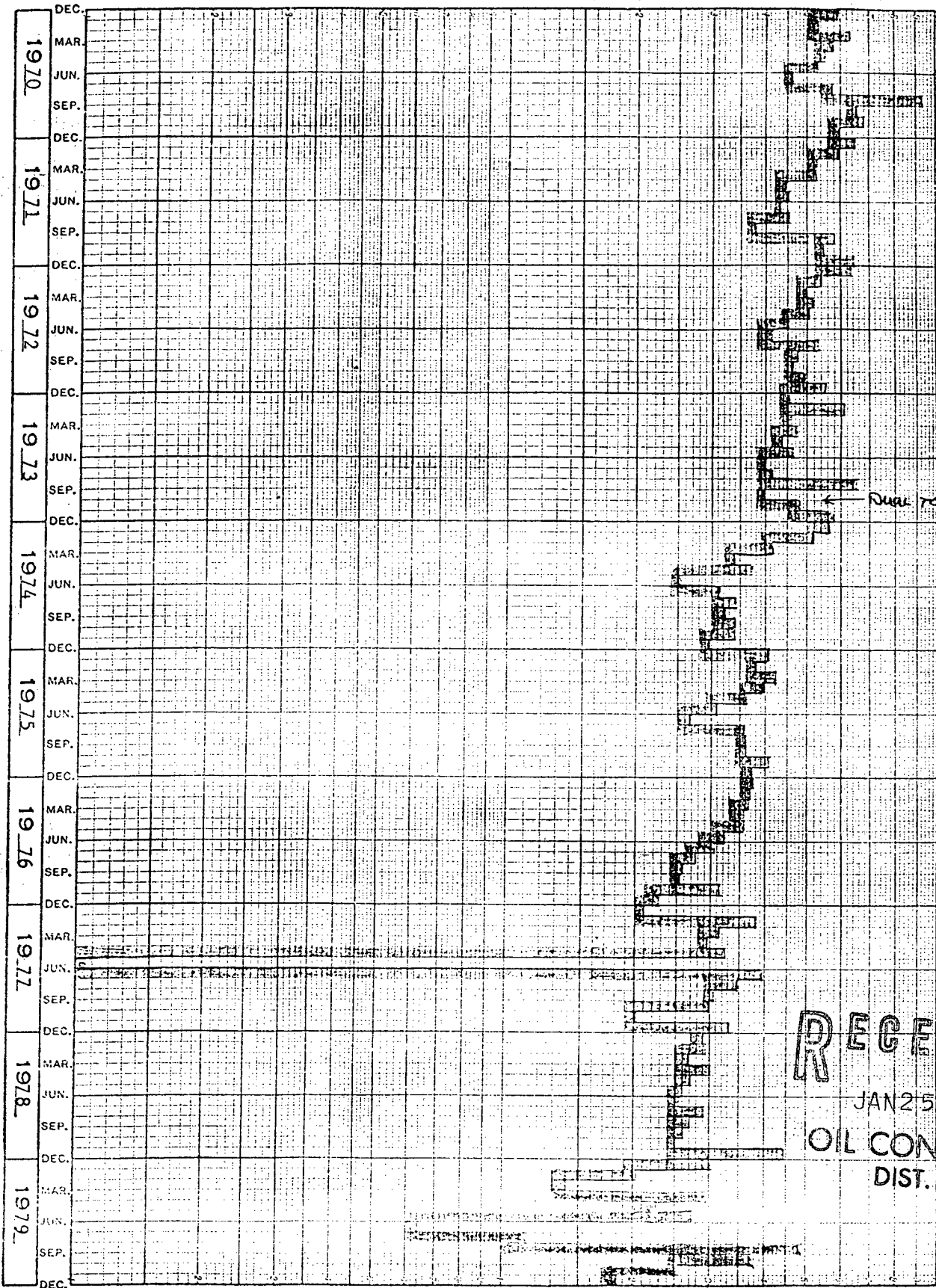


1,000

100

10

Basin Dakota  
Jicarilla Contract 155 No. 22  
(Commingled, Gonzales MV)

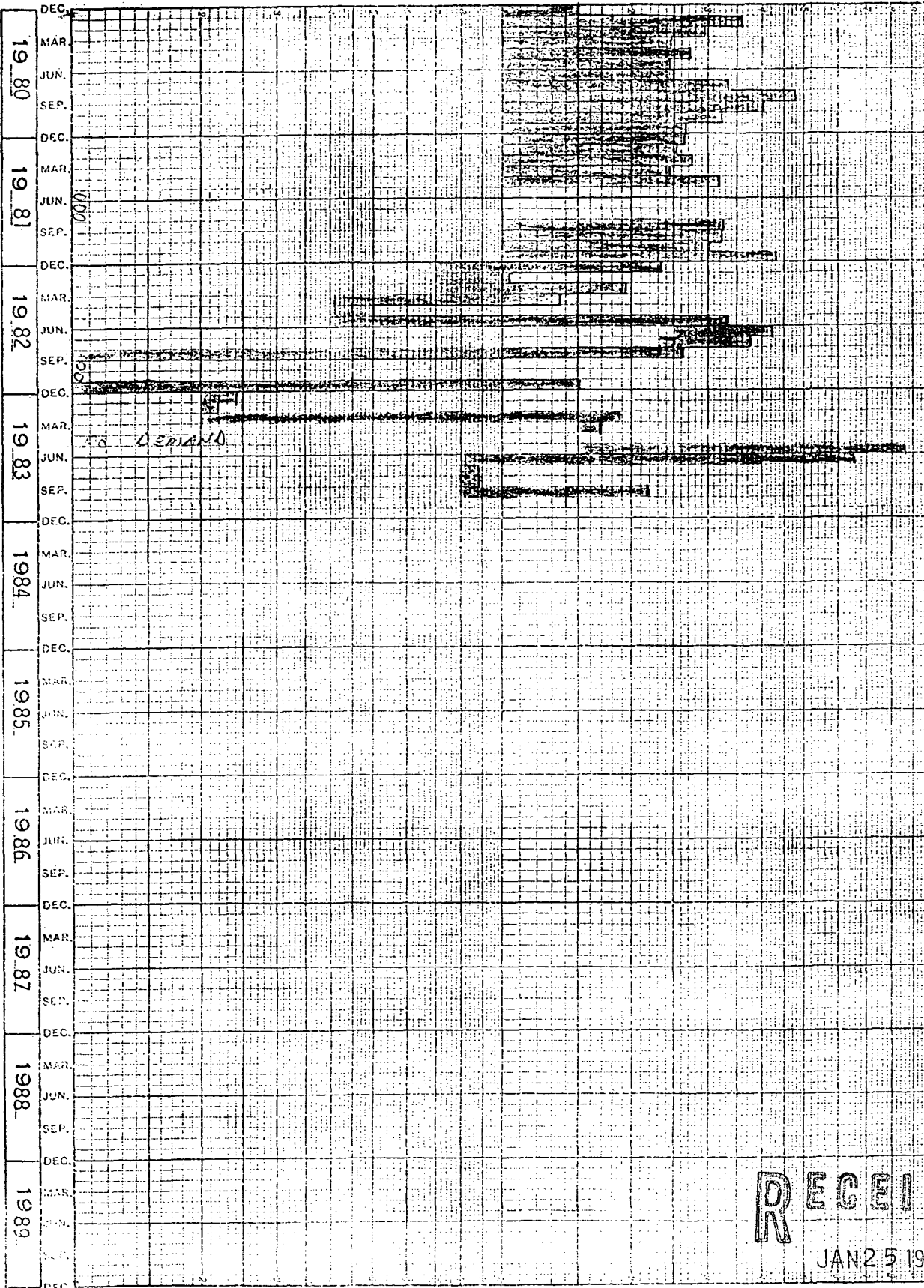


RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

JICARILLA CONTRACT 155 #22  
I 31 26N 5W  
BASIN DAKOTA



RECEIVED

JAN 25 1984

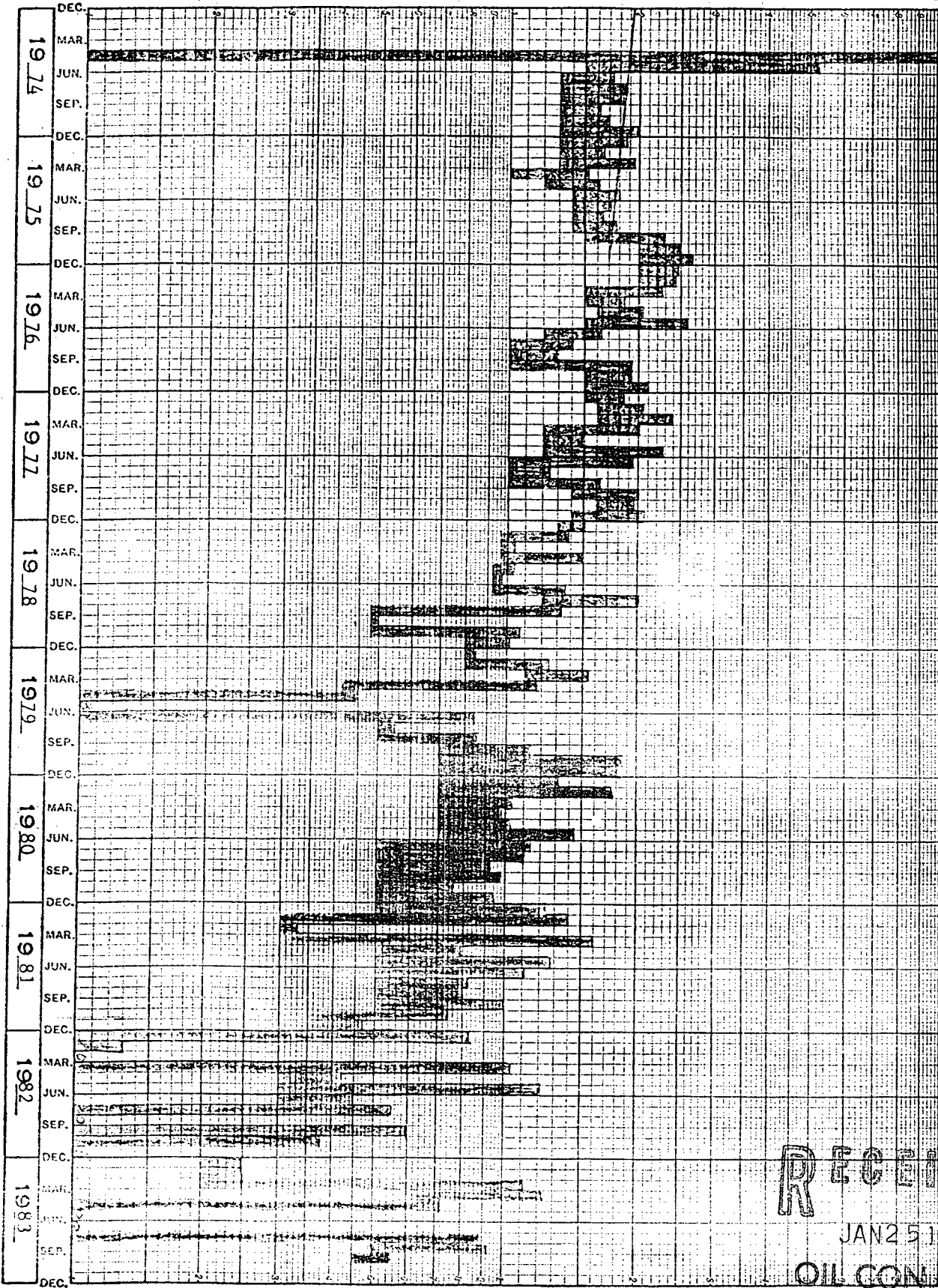
OIL CON. DIV.  
DIST. 3

NCFD

1,000

Jicarilla Contract 155 No. 22  
Gonzales Mesaverde  
(Commingle - Basin Dakota)

ATTACHMENT NO. 111.



RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

Form C-116  
Revised 10-1-78

2022

County  
Rio Arriba

45678

( )  
7  
9  
10

[ ]

Attachment 8

Kept casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 33) and appropriate pool rules.

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

RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

GAS-OIL RATIO TESTS

Operator		Pool		County	
Amoco Production Company		Blanco Mesaverde		Rio Arriba	
Address		501 Airport Drive, Farmington, New Mexico 87401		TEST - (X)	
LEASE NAME		WELL NO.		LOCATION	
		U		S	
		T		R	
Jicarilla Contract 155 (MV)		22		I 31 26N 5W	
		DATE OF TEST		October Production	
		CHOKE SIZE		PRESS.	
		DAILY ALLOW-ABLE		LENGTH OF TEST	
		360		0	
		WATER BBL.		OIL BBL.	
		17		820	
		GAS CON.		GAS RATIO	
		48235			

RECEIVED  
JAN 25 1984  
OIL CON. DIV.  
DIST. 3

No well will be assigned an allowable greater than the amount of oil produced on the official test.  
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order the well can be assigned increased allowable when authorized by the Division.  
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific Gravity base will be 0.60.  
Report casing pressure in lieu of tubing pressure for any well producing through casing.  
Well, original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 301 and appropriate pool rules.

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

*Dele H. Stephens*  
District Engineer

*1/23/84*  
Date

## BOTTOM HOLE PRESSURE DATA

WELL NAME & NO. 71C 15522  
 FIELD DAR

Date of Test 6-6-83

Well Completion Data

Total Depth \_\_\_\_\_  
 Plugged Back Depth \_\_\_\_\_  
 Production Casing \_\_\_\_\_ " CSA \_\_\_\_\_ Ft.  
 Tubing \_\_\_\_\_ " Landed At \_\_\_\_\_ Ft.  
 Seating Nipple Depth \_\_\_\_\_  
 Perforations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Mid-Point Perforations \_\_\_\_\_  
 Elevation \_\_\_\_\_ GL; \_\_\_\_\_ DF; \_\_\_\_\_ RDB  
 Datum (Sub-Sea) \_\_\_\_\_

Pressure Data

Shut-in Tubing Pressure \_\_\_\_\_ PSIG  
 Shut-in Casing Pressure \_\_\_\_\_ PSIG

Bottom Hole Pressure Data

Type Instrument Used \_\_\_\_\_  
 Pressure Range of Element \_\_\_\_\_  
 Date Element Calibrated \_\_\_\_\_

Time	Depth Stopped Surface	Extension	Pressure	Gradient	Temperature
		1698	1061		
	BHP	840	1278		

BHP 7 Datum \_\_\_\_\_

Remarks \_\_\_\_\_

RECEIVED

JAN 25 1984

OIL CON. DIV.  
 DIST. 3

Attachment 11

Bottom Hole Pressure

Jicarilla Contract 155 No. 22 (MV)

The Mesaverde side of the Jicarilla Contract 155 No. 20 was shut-in for seven days. Well head pressure was 1120 psi. Using the Redlick-Kwong method a bottom hole pressure of 1322 psi at 5200 feet was obtained. The Dakota bottom hole pressure is 97 percent of the Mesaverde bottom hole pressure.

RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

## Attachment 12

COMPONENT	HOLX	GPH	SP GR	RTU	UNOLX	SP HEAT
H2S	0.00	0.000	0.0000	0.	0.00	0.000
N2	0.46	0.000	0.0044	0.	0.47	0.006
C1	77.18	0.000	0.4275	781.	77.85	1.010
C2	12.19	0.000	0.1266	216.	12.30	0.145
C02	0.84	0.000	0.0128	0.	0.85	0.011
C3	5.47	1.505	0.0833	138.	5.52	0.062
IC4	0.81	0.265	0.0163	26.	0.82	0.009
HC4	1.42	0.447	0.0285	46.	1.44	0.016
IC5	0.44	0.161	0.0110	18.	0.44	0.005
HC5	0.34	0.123	0.0085	14.	0.35	0.004
C6+	0.85	0.371	0.0273	44.	0.86	0.009
BASE HOLX	100.00	2.872	0.749	1288.	1266.	1.277

RECEIVED  
JAN 25 1984  
OIL CON. DIV.  
DIST. 3

RECEIVED  
MAY 27 1984  
MEMPHIS

Sample 5-15-01



06/11/82

EL PASO NATURAL GAS COMPANY  
 MEASUREMENT DEPARTMENT  
 POST OFFICE BOX 1492  
 EL PASO, TEXAS 79999

## CHROMATOGRAPHIC GAS ANALYSIS REPORTS

AMOCO PRODUCTION CO.  
 ATTN: R. A. CONNER  
 501 AIRPORT DRIVE  
 FARMINGTON, N. M. 87401

ANAL DATE 06 08 82

METER STATION NAME  
 JICARILLA CONT 155 #22 MV

METER STA 86694  
 OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOS.	SCALE	H2S GRAINS	LOCATIO
00	06 08 82	06 08 82	06			5 N 0

	NORMAL MOL%	GPM
C O 2	.54	.000
H 2 S	.00	.000
N2	.43	.000
METHANE	79.40	.000
ETHANE	10.89	2.911
PROPANE	5.55	1.527
ISO-BUTANE	.89	.291
NORM-BUTANE	1.32	.416
ISO-PENTANE	.39	.143
NORM-PENTANE	.28	.101
HEXANE PLUS	.31	.135

TOTALS

100.00

5.524

SPECIFIC GRAVITY

.723

MIXTURE HEATING VALUE

(BTU/CF AT 14.73 PSIA, 60 DEGREES, DRY) 1,256

RATIO OF SPECIFIC HEATS

1.279

RECEIVED  
 JAN 25 1984  
 OIL CON. DIV.  
 DIST. 3

TECH, Inc.

333 East Main  
Farmington  
New Mexico  
87401

506/327-3311

TECH



## OIL-FIELD WATER ANALYSIS REPORT

DATE: December 7, 1983

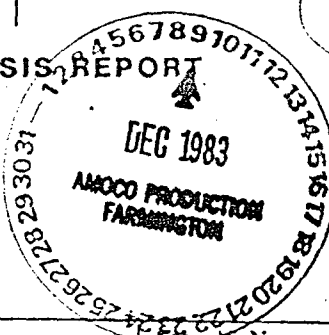
FURNISHED BY: Morris Bell

COPIES TO:

PAGE: 1/1

REPORTED TO: Amoco Production Co.  
501 Airport Drive  
Farmington, NM 87401  
Attn: Morris Bell

LABORATORY No. 4-229



Company Amoco Production Company		Sample No.		Date Sampled 11-17-83	
Field Basin Dakota	Legal Description Unit 1, Sec. 31, T26N RSW	County or Parish Rio Arriba		State NM	
Lease or Unit Jicarilla Contract 155	Well 22	Depth	Formation Dakota	Water, B/D	
Type of Water (Produced, Supply, etc.) Produced	Sampling Point Production Unit		Sampled By Jerry Muniz		

## DISSOLVED SOLIDS

## CATIONS

	mg/l	me/l
Sodium, Na (calc.)	25	1.1
Calcium, Ca	4	0.2
Magnesium, Mg	0.2	-
Barium, Ba		
Potassium	0.8	-

## ANIONS

Chloride, Cl	28	0.7
Sulfate, SO <sub>4</sub>	<5	-
Carbonate, CO <sub>3</sub>	none	-
Bicarbonate, HCO <sub>3</sub>	13.7	0.2

Total Dissolved Solids

376

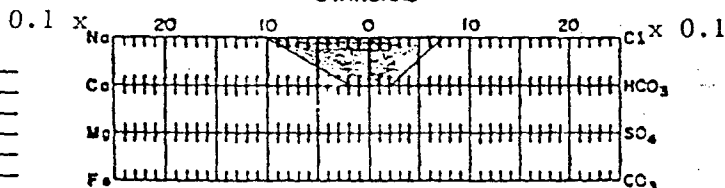
Iron, Fe (total)  
Sulfide, as H<sub>2</sub>S

## OTHER PROPERTIES

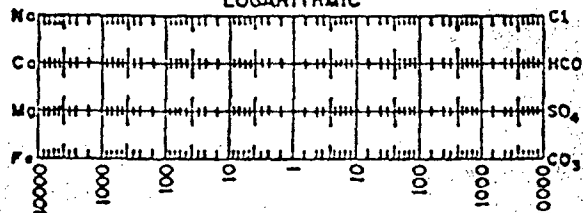
pH	7.19
Specific Gravity, 60/60 F.	1.001
Resistivity (ohm-meters) 65° F.	65

## WATER PATTERNS — me/l

## STANDARD



## LOGARITHMIC



Date Received *	Preserved	Date Analyzed 12/5/83-12/6/83	Analyzed By Stan Lueck
-----------------	-----------	----------------------------------	---------------------------

## REMARKS &amp; RECOMMENDATIONS:

\*Reanalysis of sample 4-216 (2) received on 11/18/83.

RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

TECH, Inc.

By

Stan Lueck

Attachment 15  
Allocation of Production

Average Gas Production

Dakota	202 MCFD
Mesaverde	<u>45 MCFD</u>
Total	247 MCFD

Average Condensate Production

1.9	BOPD
<u>0.6</u>	<u>BOPD</u>
2.5	BOPD

Allocate 82% gas production and 76% condensate production to the Basin Dakota horizon.

Allocate 18% gas production and 24% condensate production to the Blanco Mesaverde horizon.

**RECEIVED**

JAN 25 1984

OIL CON. DIV.  
DIST. 3



Amoco Production Company

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401  
505-325-8841

S. D. Blossom  
District Superintendent

January 12, 1984

Tenneco Oil Company  
P.O. Box 3249  
Englewood, CO 80155

Bureau of Land Management  
Caller Service 4104  
Farmington, NM 87499

El Paso Natural Gas Company  
P.O. Box 990  
Farmington, NM 87499

File: DHS-8-986.510.1

Proposed Downhole Commingling of Jicarilla Contract 155 No. 22,  
Rio Arriba County, New Mexico

This is to advise you that the Farmington District Office of Amoco Production Company is requesting approval from the New Mexico Oil Conservation Division to downhole commingle production from the following well:

Jicarilla Contract 155 No. 22, Unit I, Section 31, T26N, R5W

This well has been completed in the Basin Dakota and Blanco Mesaverde pools.

Enclosed is a wellbore diagram and a map showing the location of offset wells.

If you, as an offset operator, have no objections to the commingling of production from the Basin Dakota and Blanco Mesaverde pools of the subject well, please sign the waiver below and send to:

New Mexico Oil Conservation Division  
Box 2088  
Sante Fe, NM 87501

We would appreciate your sending one executed copy to the undersigned.

Very truly yours,

*S. D. Blossom*  
*MS*

MJB/tk  
Enclosures

RECEIVED

JAN 25 1984

OIL CON. DIV.  
DIST. 3

Page 2  
January 6, 1984  
File: DHS-8-986.510.1

Waiver

We hereby waive any objections to Amoco Production Company's application for commingling as set forth above.

\_\_\_\_\_  
Company

\_\_\_\_\_  
By

\_\_\_\_\_  
Date

AM13

RECEIVED

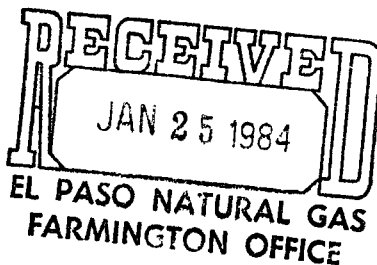
JAN 25 1984

OIL CON. DIV.  
DIST. 3



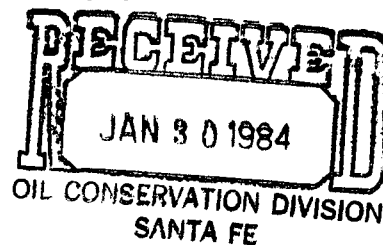
S. D. Blossom  
District Superintendent

January 12, 1984



**Amoco Production Company**

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401  
505-325-8841



Tenneco Oil Company  
P.O. Box 3249  
Englewood, CO 80155

Bureau of Land Management  
Caller Service 4104  
Farmington, NM 87499

El Paso Natural Gas Company ✓  
P. O. Box 990  
Farmington, NM 87499

File: DHS-8-986.510.1

Proposed Downhole Commingling of Jicarilla Contract 155 No. 22,  
Rio Arriba County, New Mexico

This is to advise you that the Farmington District Office of Amoco Production Company is requesting approval from the New Mexico Oil Conservation Division to downhole commingle production from the following well:

Jicarilla Contract 155 No. 22, Unit I, Section 31, T26N, R5W

This well has been completed in the Basin Dakota and Blanco Mesaverde pools.

Enclosed is a wellbore diagram and a map showing the location of offset wells.

If you, as an offset operator, have no objections to the commingling of production from the Basin Dakota and Blanco Mesaverde pools of the subject well, please sign the waiver below and send to:

New Mexico Oil Conservation Division  
Box 2088  
Sante Fe, NM 87501

We would appreciate your sending one executed copy to the undersigned.

Very truly yours,

*S. D. Blossom*  
MJB/tk  
Enclosures

Page 2  
January 6, 1984  
File: DHS-8-986.510.1

Waiver

We hereby waive any objections to Amoco Production Company's application for commingling as set forth above.

El Paso Exploration Company  
Company  
Donald R. Reed 1-26-84  
By Date

AM13



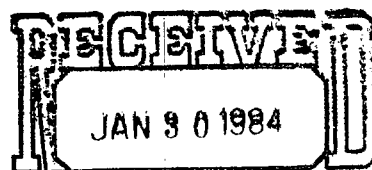
STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 1-26-84

RE: Proposed MC \_\_\_\_\_  
Proposed DHC ☒ \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_



OIL CONSERVATION DIVISION  
SANTA FE

Gentlemen:

I have examined the application dated Jan. 25, 1984

for the Amoco

Operator

Lease Cont 155 #22

Lease and Well No.

I-31-26 N-Sw

Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Ernest D. Day