



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-2-986.510.1

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

Commingling Application for the Jicarilla Contract 155 No. 20, Unit N,
Section 29, 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 6842' and a sliding sleeve set at 6832' to produce up 2-3/8" tubing landed at 6869'.

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 Mesaverde is 56 percent of the Basin Dakota.

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.

Page 2
January 10, 1984
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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.

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

1. Allocate 14 percent of the gas production to the Mesaverde horizon.
2. Allocate 86 percent of the gas production to the Dakota horizon.
3. Allocate 36 percent of the condensate production to the Mesaverde horizon.
4. Allocate 64 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

MJB/lf/tk
Attachments

AM9

Attachment 1
NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

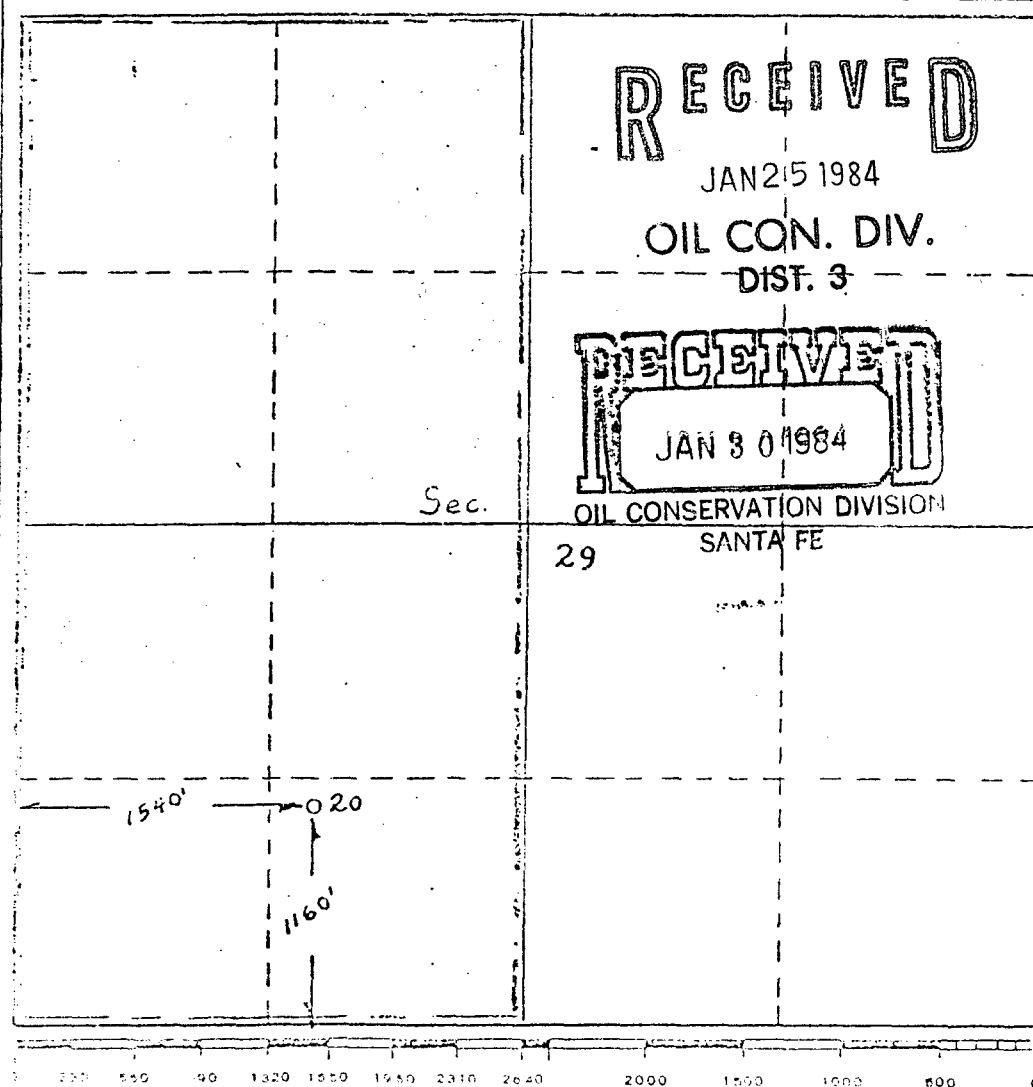
Operator Pan American Petroleum Corp.		Lease Jicarilla Contract 155		Well No. 20
Unit Letter N	Section 29	Township 26N	Range 5W	County Rio Arriba
Actual Footage Location of Well: 1160 feet from the South line and 1540 feet from the West line				
Ground Level Elev. 6433 (ungraded)	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage: W/2 320 Acres	

- 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 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 18, 1969

Registered Professional Engineer and/or Land Surveyor

Eric R. Kearns Jr.
Certificate No.

3950

RSU

<p>■ Jic A#4E Jic A#319</p> <p>■ Jic A#4 Jic A#3E</p> <p><i>Tenneco</i></p> <p>30</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><i>Amoco</i></p> <p>31</p> <p>■ Jic G.C. B#1E</p> <p>■ Jic Cont 155#29</p> <p>■ Jic G.C. B#1</p> <p>■ Jic Cont 155#22E</p> <p>■ Jic Cont 155#22</p> <p><i>Amoco</i></p>	<p>20</p> <p>■ Jic A#6E</p> <p>■ Jic A#5</p> <p>■ Jic A#6</p> <p>■ Jic A#5E</p> <p><i>Tenneco</i></p> <p>29</p> <p>■ Jic Cont 155#20E</p> <p>■ Jic Cont 155#19</p> <p>■ Jic Cont 155#20</p> <p>■ Jic Cont 155#19E</p> <p>■ Jic Cont 155#23</p> <p><i>Amoco</i></p> <p>32</p> <p>■ Jic Cont 155#29</p> <p>■ Jic G.C. C#1E</p> <p>■ Jic Cont 155#27</p> <p>■ Jic Cont 155#12E</p> <p>■ Jic Cont 155#12</p> <p>■ Jic Cont 155#23</p> <p><i>Amoco</i></p>	<p>21</p> <p>■ Jic B#5E</p> <p>■ Jic B#4</p> <p>■ Jic B#5</p> <p>■ Jic B#4E</p> <p><i>Tenneco</i></p> <p>28</p> <p>■ Jic Ap #11E</p> <p>■ Jic Ap #9E</p> <p>■ Jic Ap #12E</p> <p>■ Jic Ap #13</p> <p>■ Jic Ap #12E</p> <p><i>Marathon</i></p> <p>33</p>
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1
26
N

■ BASIN DAKOTA WELLS

△ GONZALES MESAVERDE WELLS

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DIST. 3

Attachment 3

Offset Operators Addresses

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

Marathon Oil Company
P.O. Box 120
Casper, Wyoming 82601

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DIST. 3

Attachment 4
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(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

FARM OR LEASE NAME

Jicarilla Contract 155

8. WELL NO.

20

10. FIELD AND POOL, OR WILDCAT
Basin Dakota11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SE/4 SW/4 Section 29,

T-26-N, R-5-W

12. COUNTY OR PARISH

13. STATE

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 WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico

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

1160' FSL & 1540' FWL, Unit "N", Section 29, T-26N, R-5W

4. PERMIT NO.

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

6436' GL, 6448' RDB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Dual Completion

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)18. 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 9-1-73 moved in a service unit to begin dual completion operations. Set a tubing choke at 6980' and killed the well with 75 barrels water. Set a retrievable packer at 7208' and swab tested perforations 7227-32' and 7240-50'. Acidized with 500 gallons 15% regular acid, pumping a total of 12 barrels acid into the formation at 1 BPM and 1900 psi. Swab test recovered water with no show gas. On 9-5-73 set a cement retainer at 7200' and squeezed perforations 7227-32' and 7240-50' with 100 sacks Class "C" cement with 2% CaCl. Reversed out 10' cement and cleaned out to 7200'. On 9-6-73 spotted 500 gallons 15% regular acid across the perforations. Set a Model "D" packer with expendable plug at 6900'. Perforated 4877-4882, 4960-4970, 4992-4997, 5003-5008, 5034-5039, 5051-5056, 5065-5070, 5100-5105 & 5124-48 with 1 SPF. Sand-water fraced with 40,320 gallons treated water and 20,000 pounds 10-20 sand and 20,000 pounds 8-12 sand. Dropped 25 balls midway thru frac. Breakdown pressure 1000. Maximum treating pressure 3100, minimum 3000 and average 3050 psi. AIR 54 BPM on first stage and decreased to 10 BPM on second stage. Blew well to unload, knocked plug out of packer at 6900' and blew Mesaverde and Dakota zones. Drilled packer and pushed to 7200' PBD. On 9-15-73 set a Model "D" packer at 6842'. Ran 1-1/4" tubing thru packer to bottom with 2-3/8" tubing landing in packer at 6842'.

OCT 30 1973

FARMINGTON

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

Original Signed by

SIGNED J. ARNOLD SNELL

TITLE Area Engineer

DATE October 26, 1973

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

OCT 29 1973

OTS-HSAS, Newmays
1- THT Hunter
1- Joe White, B. Lee
1- L. Green

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
FARMINGTON, N.M.

Attachment 4 cont
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
SUBMIT IN TRIPlicate
(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.

20

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., OR BLK. AND SUBSURFACE AREA

SE/4 Section 29

T-26-N, R-5-W

12. COUNTY OR PARISH 13. STATE

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 WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico

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

1160 FSL & 1540 FWL, Unit N, Section 29, T-26-N, R-5-W

14. PERMIT NO.

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

6436 GL 6448 RDE

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) ☐

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. A water shut off in the Dakota will also be done.

The proposed procedure for this work is as follows:

1. Pull tubing and set a permanent bridge plug at 7170' to isolate Lower Dakota perms. which are believed to be producing water.
2. Set a bridge plug at 5400' and run gamma ray neutron log.
3. Perf. and sand/water frac. productive zones in the Mesaverde interval 4860-5100.
4. Drill out bridge plug at 5400'.
5. Set a production packer at 6800' and land tubing in packer.
6. Complete as a Basin Dakota and Gonzales Mesa Mesaverde well producing Dakota gas up tubing and Mesaverde gas up casing.

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DIST. 3

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FARMINGTON	
AREA	
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95	96
97	98
99	100

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

SIGNED Original Signed by
J. ARNOLD SNEEL

TITLE Area Engineer

DATE 6-29-73

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

JUL 2 1973

JERRY W. LONG

DISTRICT ENGINEER

TITLE

DATE

JUL 2 1973

*See Instructions on Reverse Side

075-7565, Bureau
1-47 Hunter
1-500 Jones, Moore

U. S. GEOLOGICAL SURVEY
DISTRICT OFFICE

Attachment 4 con't
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TWO PARTS
(Other Instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐

2. NAME OF OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

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.)

At surface

1160' FSL & 1540' FWL, Unit "N"

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

3740' E.

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

80' SE.

21. ELEVATIONS (Show whether DP, RT, GR, etc.)

Report Later

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	450'	400 sx.
6-3/4"	4-1/2"	10.5#	7300'	1000- sx w/ stage tool below Mesaverde & Pictured Cliffs

Well to be drilled through Dakota and completion designed from open hole logs.

Copy of Location Plat attached.

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DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

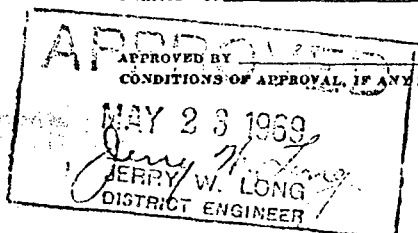
24. ORIGINAL SIGNED BY
G. W. Eaton, Jr.
SIGNED _____ TITLE Area Engineer
G. W. Eaton, Jr. DATE May 21, 1969
(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

TITLE _____

DATE _____



*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Attachment 5

Jicarilla Contract 155 No. 20 Well Completion Summary

- 10-27-69 - MIRUSU
- 10-28-69 - Clean out to PBD at 7293'
- 10-29-69 - Perforated 7227-7232' and 7240-7250' with 2' SPF. Frac with 25,620 gallons treated water and 20,000 pounds sand. Set CIBP at 7210'. Perforated 7066-72', 7078-86', 7110-15', 7156-58', 7162-70' with 2 SPF. Frac with 31,290 gallons treated water, 30,000 pounds sand. Set CIBP at 7030'. Perforated 6936-41', 6949-56', and 6964-68' with 2 SPF. Frac with 18,480 gallons treated water and 20,000 pounds sand.
- 10-30-69 - Drill out CIBP at 7030'. Drill out CIBP at 7210' and clean out to PBD of 7293'. TIH with 2-3/8" tubing and land at 7195'.
- 10-31-69 - Released rig.
- 09-02-73 - MIRUSU and TOH with 2-3/8" tubing.
- 09-04-73 - Cement squeeze intervals 7227-32 and 7240-50' with 25 sacks Class A cement.
- 09-06-73 - Perforate Mesaverde at 4877-82', 4960-70', 4992-97', 5003-08', 5034-39', 5051-56', 5065-70', 5100-05', and 5124-28'. Spot 500 gallons 15% acid across perfs. Air 4 BPM and treating pressure of 1000 psi. Frac with 40,320 gallons treated water and 40,000 pounds sand.
- 09-17-73 - TIH with 2-3/8" tubing and land in packer at 6842'. Release SU.

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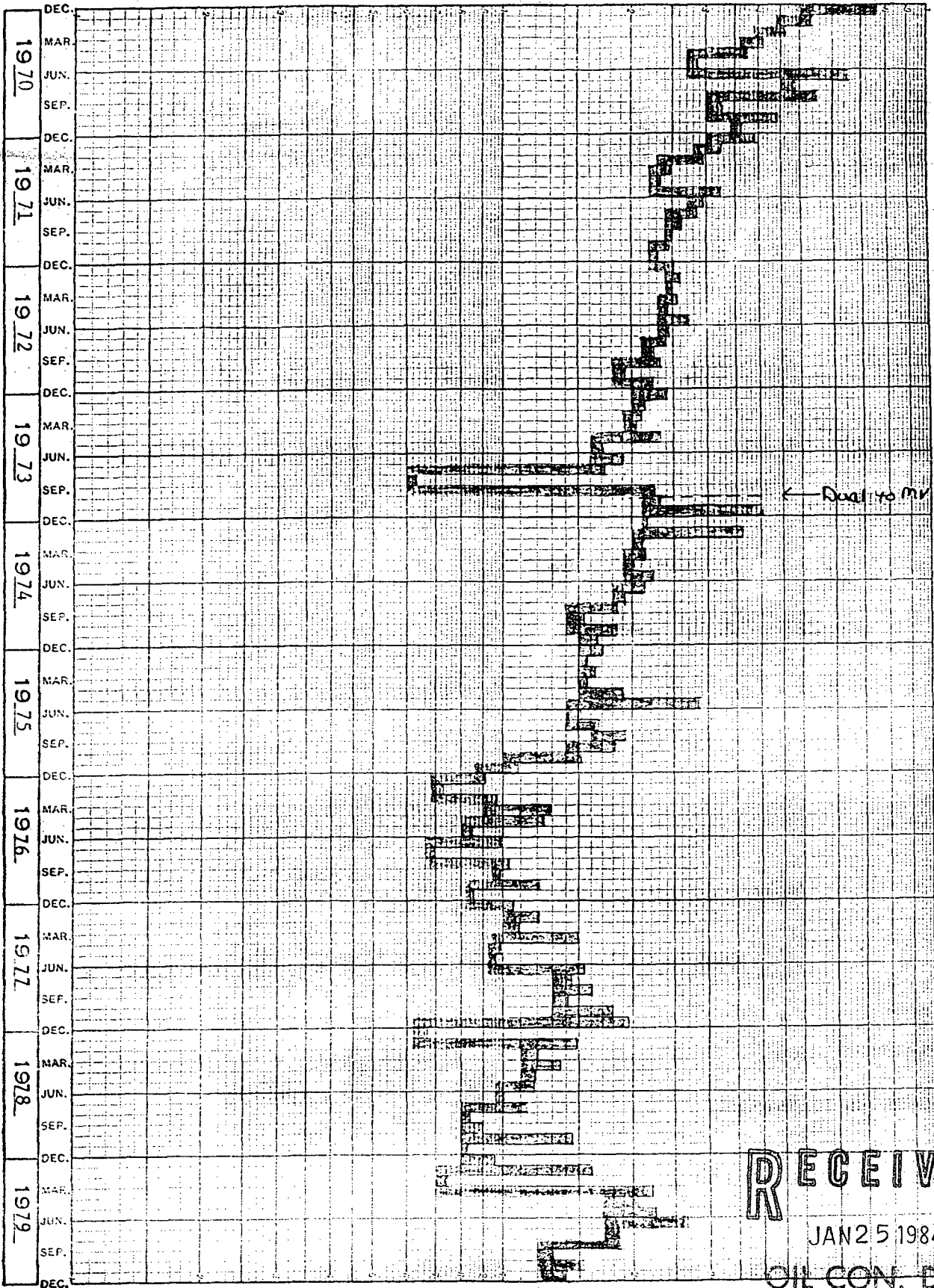
Attachment 6

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Basin Dakota
Jicarilla Contract 155 No. 20
(Commingled, Gonzales MV) DUAL



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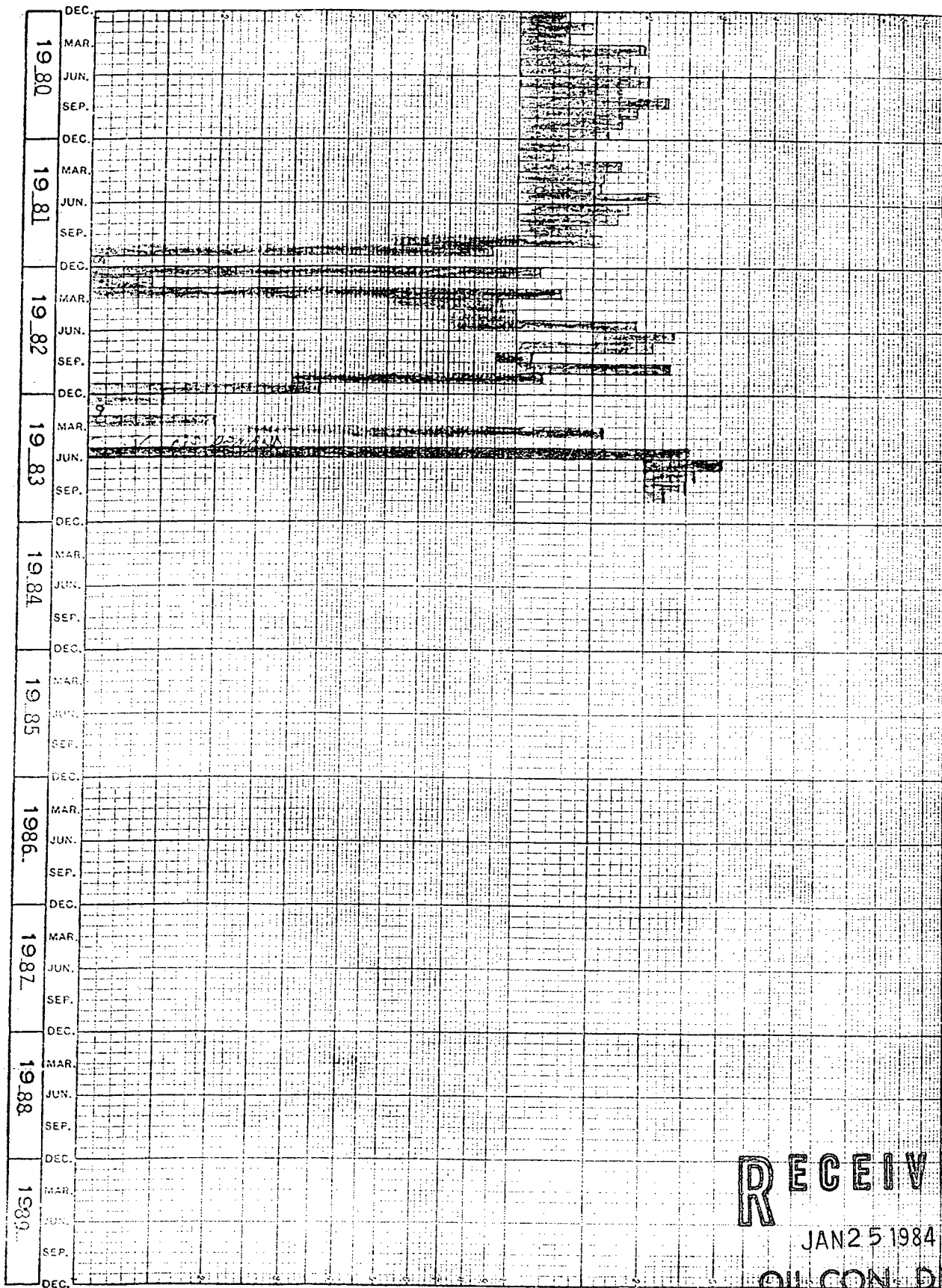
OIL CON. DIV

DIST. 3

MCFD

1000

JICARILLA CONTRACT 155 #20
N 29 26N 5W
BASIN DAKOTA



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DIST. 3

ATTACHMENT NO. 11K

Jicarilla Contract 155 No. 20
Gonzales Mesaverde
(Commingle Basin Dakota)

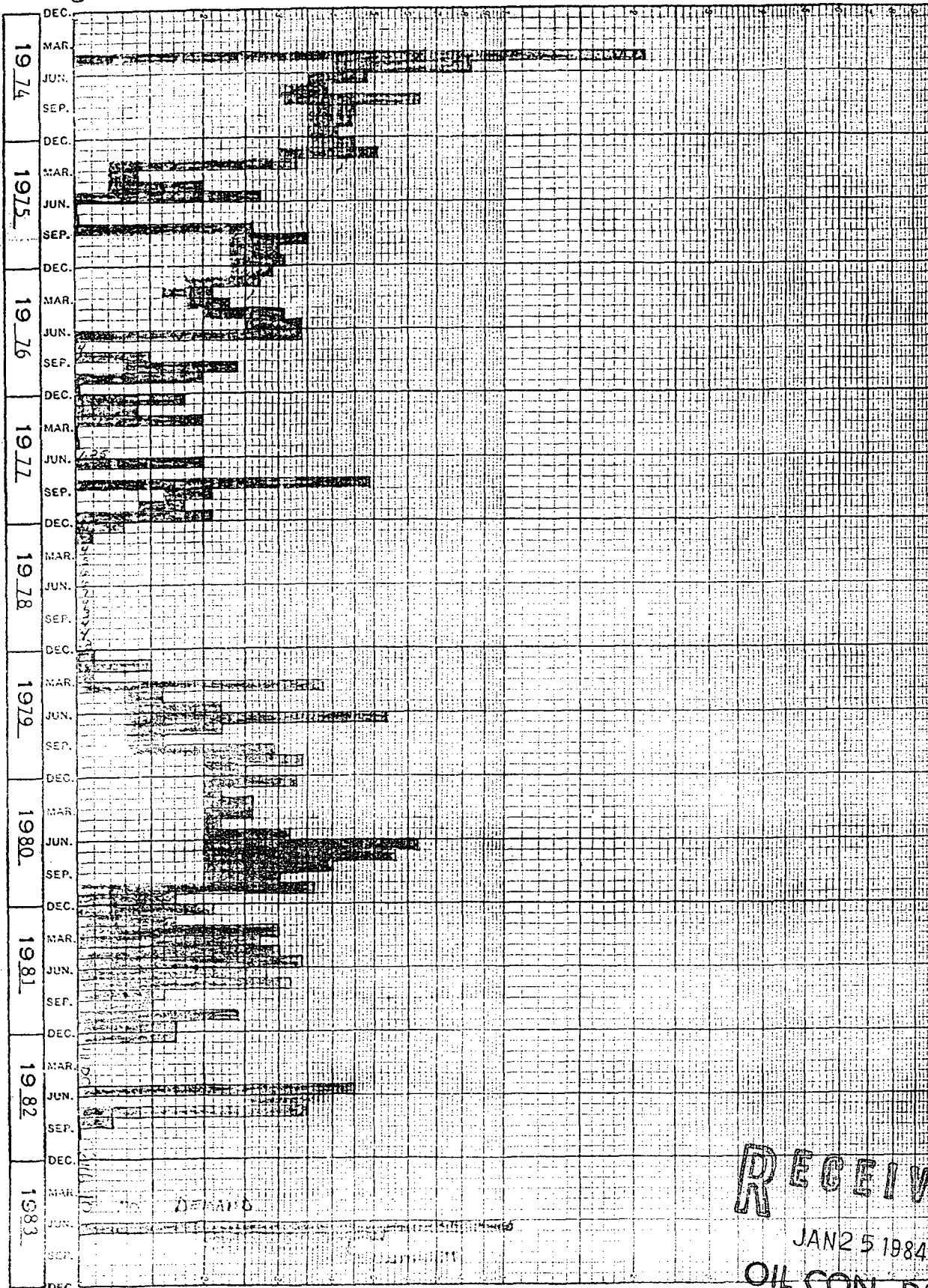
Attachment 7

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DIST. 3

GAS-OIL RATIO TESTS

Operator	Amoco Production Company		Pool		Basin Dakota		County		Rio Arriba						
Address	501 Airport Drive, Farmington, New Mexico 87401				Type of Test		Scheduled <input checked="" type="checkbox"/>		Special <input type="checkbox"/>						
LEASE NAME		WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	INCH. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST		GAS - OIL RATIO		
			U	S	T	R					WATER BBLs.	GRAV. OIL BBLs.	OIL BBLs.	GAS M.C.F.	GAS - OIL RATIO CU. FT./BBL
Jicarilla Contract 155 (Dak)		20	N	29	26N	5W	October	F		192	0		2	1784	892000

Attachment 8

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 that well can be assigned increased allowances 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.

Mail 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.

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DIST. 3

Shirley H. Spangler
District Engineer
1/23/84 (Date)

County

Rio Arriba

Spencer

ATIO

857

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DIST. 3

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

Dale H. Stenroos

Attachment 10

BOTTOM HOLE PRESSURE DATA

WELL NAME & NO. TIC 155-20FIELD PATDate of Test 6-10-83Well 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
		765	1163		
	6500	961	1463		

BHP 1463 Datum _____

Remarks _____

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DIST. 3

Attachment 11

Bottom Hole Pressure

Jicarilla Contract 155 No. 20 (MV)

The Mesaverde side of the Jicarilla Contract 155 No. 20 was shut-in for seven days. Well head pressure was 700 psi. Using the Redlick-Kwong method a bottom hole pressure of 823 psi at 5100 feet was obtained. The Mesaverde bottom hole pressure is 56 percent of the Dakota bottom hole pressure.

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DIST. 3

11:11:03 07/08/82

METER CODE 8662901-1-0200-08182-JIC CONT 155 #20 BK -0000

COMPONENT	MOLE	GPM	SP GR	BTU	UMOLE	SP HEAT
1025	0.00	0.000	0.0000	0.	0.60	0.000
102	0.36	0.000	0.0035	0.	0.36	0.005
101	79.21	0.000	0.4387	802.	79.00	1.036
102	11.27	0.000	0.1170	200.	11.24	0.134
1003	0.75	0.000	0.0114	0.	0.75	0.010
101	4.80	1.320	0.0731	121.	4.78	0.054
104	0.79	0.258	0.0159	26.	0.79	0.009
1004	1.29	0.406	0.0259	42.	1.29	0.014
105	0.46	0.168	0.0115	18.	0.47	0.005
105	0.33	0.120	0.0082	13.	0.34	0.004
109	0.74	0.323	0.0238	38.	0.75	0.008
	100.00	2.595	0.731	1265.	1243.	1.279

8662 501X 99.77

Sampled 6-26-82

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13:29:15 12/23/80

86-693

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DEC 26 1980

DOCUMENT

25 METER CODE 8669301-1-0200-01181-JIC. CONT 155 # 20 H-0000

MV

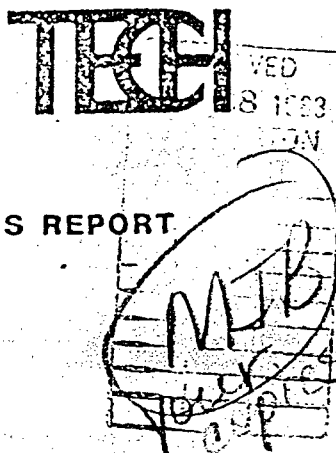
COMPONENT	NOLZ	GPH	SP GR	BTU	UNOLZ	SP HEAT
H2S	0.00	0.000	0.0000	0.	0.00	0.000
H2	0.67	0.000	0.0065	0.	0.68	0.009
C1	78.25	0.000	0.4334	792.	78.80	1.024
C2	10.86	0.000	0.1127	193.	10.94	0.129
C02	0.42	0.000	0.0064	0.	0.42	0.005
C3	6.28	1.728	0.0956	158.	6.33	0.071
IC4	1.01	0.330	0.0203	33.	1.02	0.011
NC4	1.54	0.485	0.0309	50.	1.56	0.017
ICS	0.36	0.132	0.0090	14.	0.36	0.004
MC5	0.27	0.098	0.0067	11.	0.27	0.003
C6+	0.34	0.149	0.0109	17.	0.34	0.004
	100.00	2.922	0.735	1273.	1251.	1.277

BASE NOLZ 100.74

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Attachment 14
TEEL, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311



OIL-FIELD WATER ANALYSIS REPORT

REPORTED TO: Amoco Production Company
501 Airport Drive
Farmington, NM 87401

DATE: November 22, 1983

FURNISHED BY: Morris Bell

COPIES TO:

LABORATORY No. 4-216-1

PAGE: 1/1

Company Amoco Production Company		Sample No.		Date Sampled 11-17-83	
Field Basin Dakota		Legal Description Unit N, Sec. 29, T26N, R5W		County or Parish Rio Arriba State NM	
Lease or Unit 155 Well 20		Depth 7250		Formation Dakota Water, B/D	
Jicarilla Contract					
Type of Water (Produced, Supply, etc.) Produced		Sampling Point Production Unit		Sampled By Terry Muniz	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	1700	74
Calcium, Ca	47	2.3
Magnesium, Mg	34	2.8
Barium, Ba		
Potassium	27	0.7

ANIONS

Chloride, Cl	2600	73
Sulfate, SO ₄	85	1.7
Carbonate, CO ₃	none	none
Bicarbonate, HCO ₃	168	2.7

Total Dissolved Solids 4672

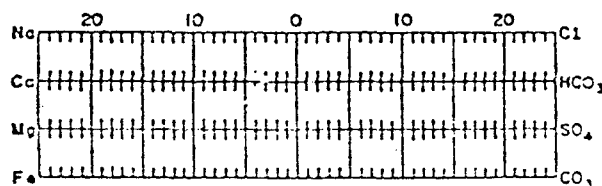
Iron, Fe (total)
Sulfide, as H₂S

OTHER PROPERTIES

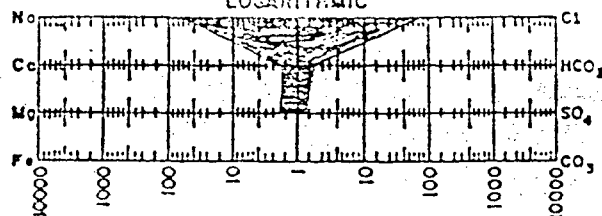
pH	7.84
Specific Gravity, 60/60 F.	1.0063
Resistivity (ohm-meters) 72 F.	1.25

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC



Date Received 11-18-83	Preserved	Date Analyzed 11-18-83	Analyzed By NO
------------------------	-----------	------------------------	----------------

REMARKS & RECOMMENDATIONS:

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DIST. 3

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TEEL, Inc.
By M. J. Bell 888

Attachment 15
Allocation of Production

Average Gas Production

Dakota 112 MCFD
Mesaverde 18 MCFD

Total 130 MCFD

Average Condensate Production

2.9 BOPD
1.6 BOPD

4.5 BOPD

Allocate 86% gas production and 64% condensate production to the Basin Dakota horizon.

Allocate 14% gas production and 36% condensate production to the Blanco Mesaverde horizon.

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Amoco Production Company

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

S. D. Blossom
District Superintendent

January 6, 1984

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

Bureau of Land Management
Caller Service 4104
Farmington, NM 87499

Marathon Oil Company
P. O. Box 120
Casper, WY 82601

File: DHS-8-986.510.1

Proposed Downhole Commingling of Jicarilla Contract 155 No. 20,
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. 20, Unit N, Section 29, 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
[Signature]

MJB/tk
Enclosures

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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

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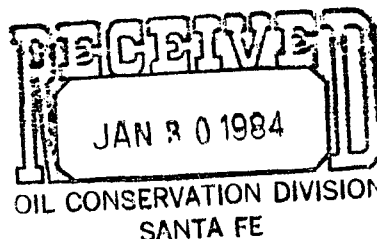
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

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

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE January 26, 1983

RE: Proposed MC _____
Proposed DHC ☒ _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____



Gentlemen:

I have examined the application dated January 25, 1983
for the Amow Lease Cont. 155 #20 N-29-26W-5N
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,
