Southern
Rockies
Business
Unit

March 28, 1996

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P. O. Box 6429
Santa Fe, NM 87505

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APR - 8 1996
OIL CON. DIV.
DIST. 3

Application for Exception to Rule 303-C
Downhole Commingling
Dryden LS 1A Well
Unit I Section 28-T28N-R8W 30-045-26556
Blanco Mesaverde and Otero Chacra Pools
San Juan County, New Mexico

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well.

Should you have questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,

Pamela W. Staley

Enclosures

cc: Mark Rothenberg
Patty Haefele
Wellfile
Proration file

Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Road
Aztec, NM 87410

Duane Spencer
Bureau of Land Management
1235 La Plata Hwy.
Farmington, NM 87401

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 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS:
X Administrative __ Hearing

EXISTING WELLBORE
x YES __ NO

Amoco Production Company		P.O. Box 800 Denver, CO 80201	
Operator		Address	
Dryden LS	1A	I-28-28N-R8W	San Juan
Lease	Well No.	Unit Ltr. - Sec Twp - Rge	County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 000778 Property Code 000432 API NO. 3004526556 Federal x 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
2. Top and Bottom of Pay Section (Perforations)	3165' - 3176'		3880' - 4454'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current) 654 PSI (EST)	a.	a. 833 PSI
	b. (Original) 956 PSI (EST)	b.	b. 1278 PSI
6. Oil Gravity (° API) or Gas BTU Content	1162 BTU		1255 BTU / 49.9 DEG API
7. Producing or Shut-In?	NEW		PRODUCING
Production Marginal? (yes or no)	NO		YES
• If Shut-In, give data 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	Date: Rates:	Date Rates:	Date Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 1/96 Rates: 54 MCFD 0 BCPD 0 BWPD	Date: Rates:	Date: 1/96 Rates: 153 MCFD 0.84 BCPD 0 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 0 %: Gas 26 %	Oil: %: Gas %	Oil: 100 %: Gas 74 %

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DIST. 3

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? _X_ 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? _X_ Yes ___ No

11. Will cross-flow occur? ___ Yes _X_ 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 other? _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 Untied States Bureau of Land Management has been notified in writing of this application. _X_ Yes ___ No NM-012200

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 Pamela W. Staley TITLE REGULATORY AFFAIRS REP DATE 3/25/96

TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. (303) 830-5344

N MEXICO OIL CONSERVATION COMMI N

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	Lease	Well No.
TENNECO OIL COMPANY	DRYDEN LS	1A

Unit Letter	Section	Township	Range	County
I	28	28N	8W	San Juan

Actual Footage Location of Well: 2300 feet from the South line and 790 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5834	Chacra/Mesaverde	Undes. Chacra/Blanco Mesaverde	160/320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

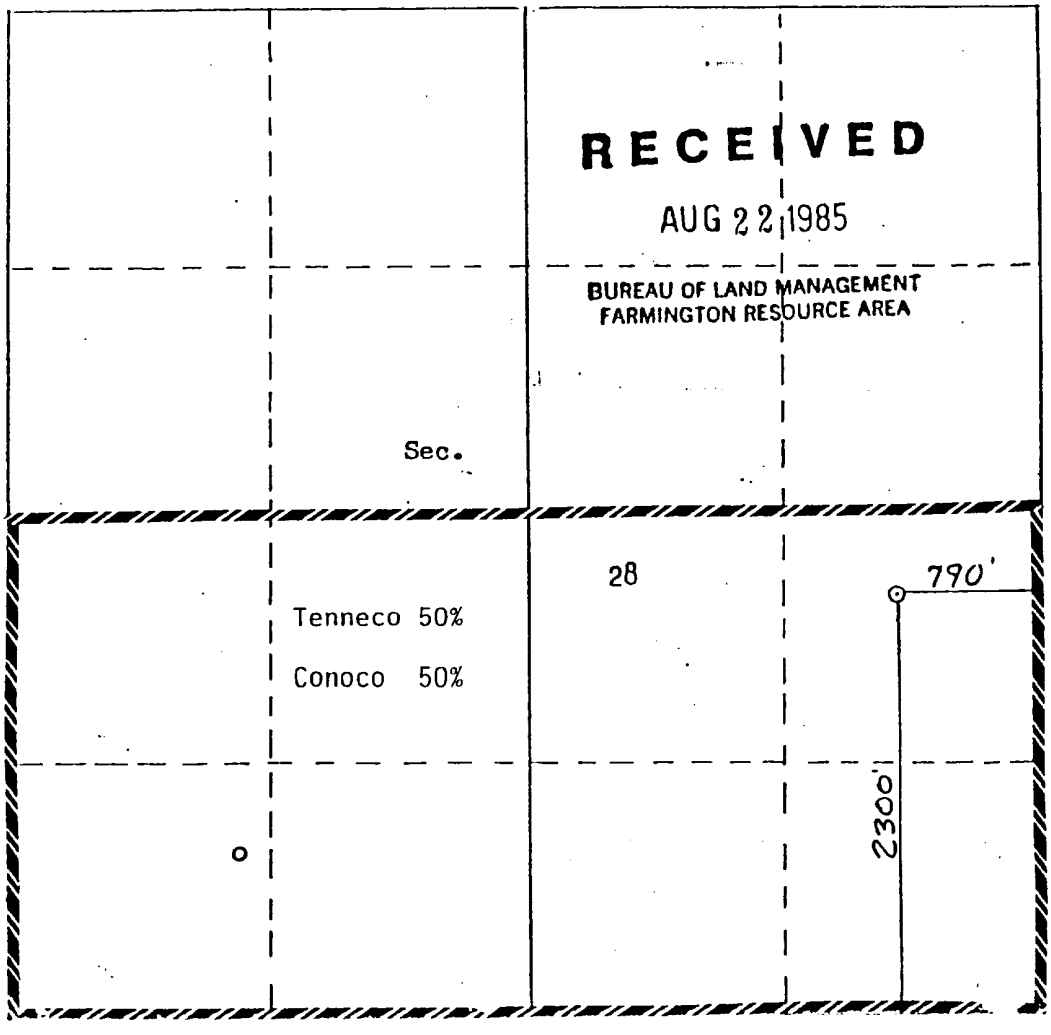
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

Scott McKinney

Name: Scott McKinney

Position: Sr. Regulatory Analyst

Company: Tenneco Oil Company

Date: June 18, 1985

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: 6-15-85

Registered Professional Engineer and Land Surveyor

Certificate No.

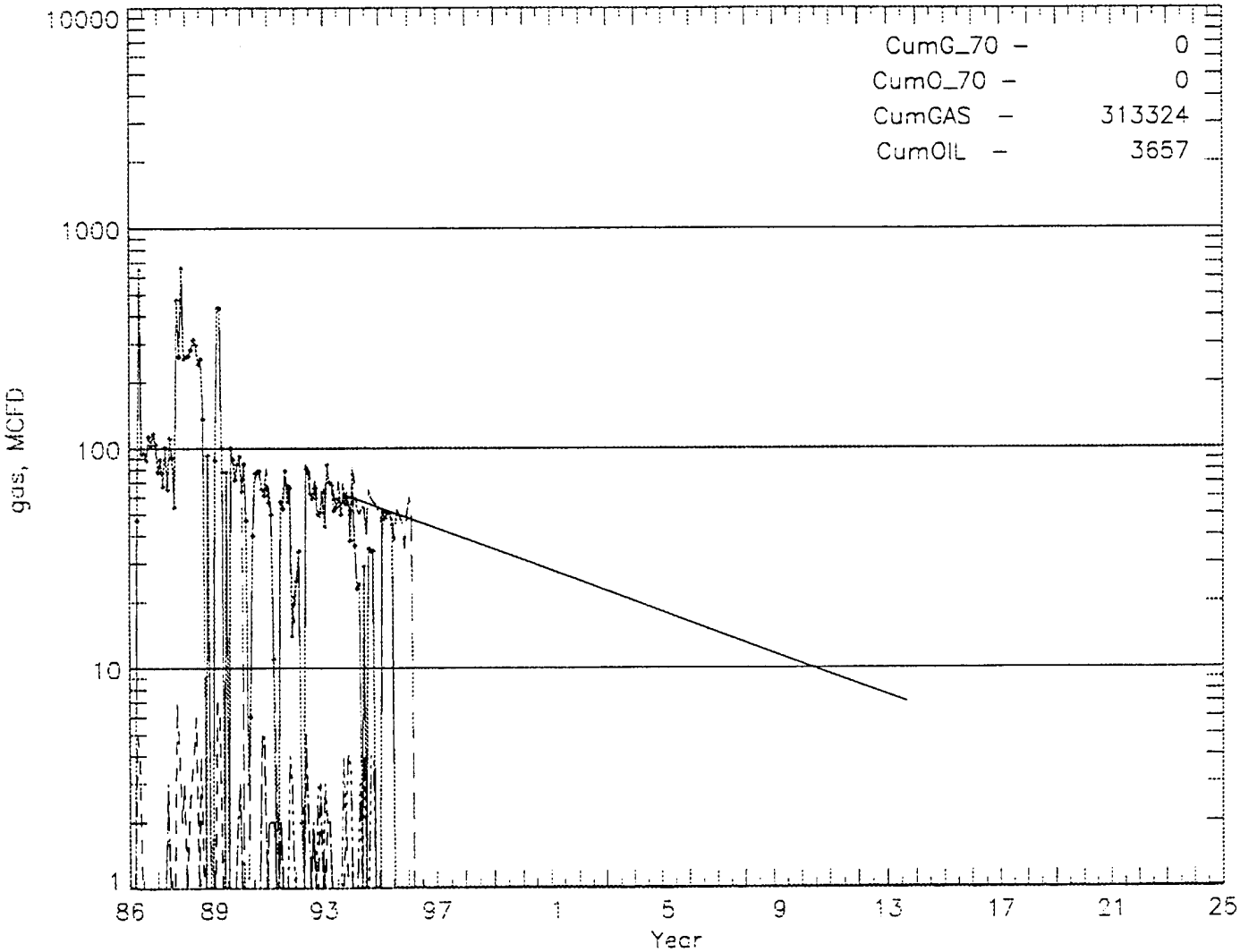
WILLIAM E. MAHNKE II
NEW MEXICO
#8466
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR

For: zcsw10
Engr: zljk06

DRYDEN LS 1A

Operator– AMOCO PRODUCTION CO

300452655600CK I282808–001ACK APC_WI – 1.0000000



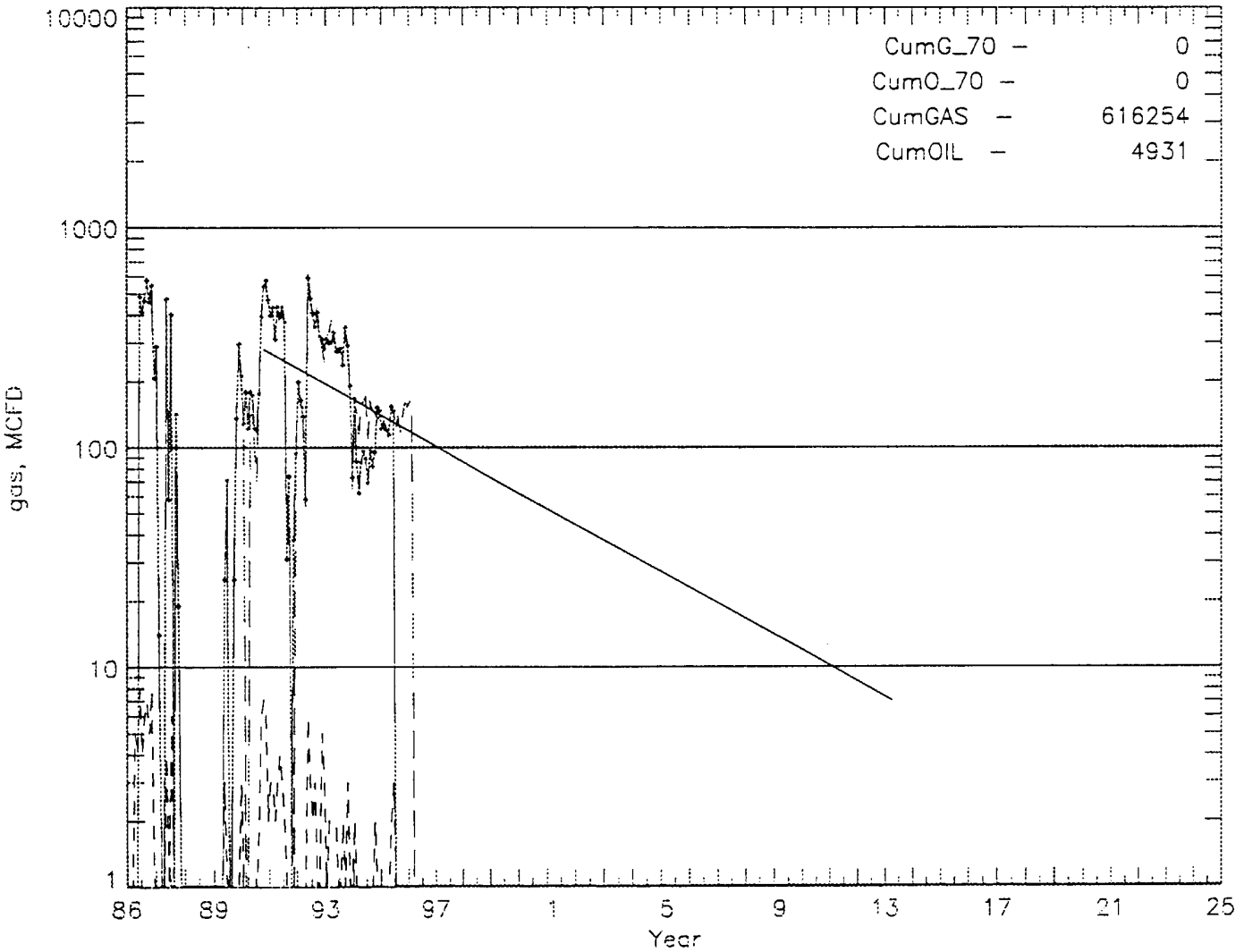
Last Op. Forecast by zljk06 in 06/1994

For: zcsw10
Engr: zrar06

DRYDEN LS 1A

Operator– AMOCO PRODUCTION CO

300452655600MV I282808–001AMV APC_WI – 1.0000000



Last Op. Forecast by zrar06 in 08/1995

LIST OF OFFSET OPERATORS

1 Meridian Oil, Inc.
P.O. Box 4289
Farmington, NM 87499

I-28-28-8

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

Location of Well: I282808 Page 1

OIL CONSERVATION DIVISION
NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator: AMOCO PRODUCTION COMPANY Lease/Well #:DRYDEN LS 001A
Meter #:95718 RTU: - - County:SAN JUAN

	NAME RESERVOIR OR POOL	TYPE PROD	METHOD PROD	MEDIUM PROD
UPR COMP	DRYDEN LS 001A OCH 95718	GAS	FLOW	TBG
LWR COMP	DRYDEN LS 001A BMV 95717	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour/Date Shut-In	Length of Time Shut-In	SI Press. PSIG	Stabilzed
UPR COMP	05/12/95	72 HRS	350	Y
LWR COMP	05/12/95	72 HRS	363	Y

FLOW TEST DATE NO.1

Commenced at (hour,date)* Zone Producing (Upr/Lwr)

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE Upper Csg TBG	PRESSURE Lower TBG	Prod Temp.	REMARKS
05/12/95 11 AM	Day 1	257 257	262		Both Zones SI
05/13/95 11 AM	Day 2	335 335	345		Both Zones SI
05/14/95 11 AM	Day 3	345 345	355		Both Zones SI
05/15/95 2:30 PM	Day 4	350 350	363	88°	Flow Lower Zone
05/16/95 3:06 PM	Day 5	360 360	247	83°	" " "
05/17/95 3:01 PM	Day 6	363 363	233	82°	" " "

Production rate during test
Oil: _____ BOPD based on _____ BBLs in _____ Hrs _____ Grav ___ GOR ___
Gas: _____ MFCPD:Tested theu (Orifice or Meter):METER

MID-TEST SHUT-IN PRESSURE DATA

	Hour,Date SI	Length of Time SI	SI Press. PSIG	Stabilized (yes/no)
UPR COMP				
LWR COMP				

(Continue on reverse side)

SO. LARGO -48 ICROB

FLOW TEST NO. 2

Commenced at (hour, date) * * Zone producing (Upper or Lower):

TIME (hour, date)	LAPSED TIME SINCE * *	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD: Tested thru (Orifice or Meter): _____

Remarks: _____

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

Approved Johnny Robinson 19__
New Mexico Oil Conservation Division
MAY 3 0 1995
DEPUTY OIL & GAS INSPECTOR

By _____

Title _____

Operator Amoco Production Company

By Sheri Bradshaw

Title Field Tech

Date 5/21/95

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.

3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.

4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

(4)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
1235 La Plata Highway
Farmington, New Mexico 87401

April 23, 1996

RECEIVED
APR 25 1996
OIL CON. DIV.
DIST. 3

IN REPLY REFER TO:
NM-012200
3162.3-2 (07327)

Pamela W. Staley
Amoco Production Company
P.O. Box 800 1670 Broadway
Denver, Colorado 80201

Dear Ms. Staley:

We have reviewed your application to commingle production downhole from the Blanco Mesaverde and the Otero Chacra Pools in the following well:

Dryden LS 1A I
2300' FSL, 790' FEL, Section 28, T-28N, R-8W
San Juan County, New Mexico

There are no Communitization agreements for production from this well. Chacra production has been on a well established decline rate since 1989. Mesaverde production has been erratic with periods of higher production followed by rapid declines. To accurately allocate commingled production, Chacra production must be extrapolated and remaining production allocated to the Mesaverde until both formations are declining at the same rate. When this occurs, allocation can be converted to percentages. Please notify this office when allocation factors are changed. Your Application to commingle is hereby approved using the above formula to allocate production.

Under provisions of 43 CFR 3165.3, you may request an Administrative Review of the order(s) described above. Such request, including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management, P. O. Box 27115, Santa Fe, New Mexico 87502-0115. Such request shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders or decisions are contained in 43 CFR 3165.4 and 43 CFR 4.400 ***et seq.***

If you have any questions regarding this correspondence, please contact Ray Hager at (505) 599-6366.

Sincerely,
/s/ Duane Spencer

Duane Spencer
Team Lead, Petroleum Management Team

bcc:
New Mexico Oil Conservation Division, Santa Fe
New Mexico Oil Conservation Division, Aztec
07327:RHager: 04/23/96 :x366:Dryden.ltr

DOM Reader
AIRS

Well File (NM-012200, Dryden LS #1A, 2300 FSL 790 FEL Sec 28, T-28N, R-8W) W/Application

District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
30-045-26556	82329	OTERO CHACRA (GAS) EXT

⁴ Property Code	⁵ Property Name	⁶ Well Number
000432	DRYDEN LS	1A

⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
000778	AMOCO PRODUCTION CO.	5834

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
I	28	28N	08W		2300	SOUTH	790	EAST	SJ

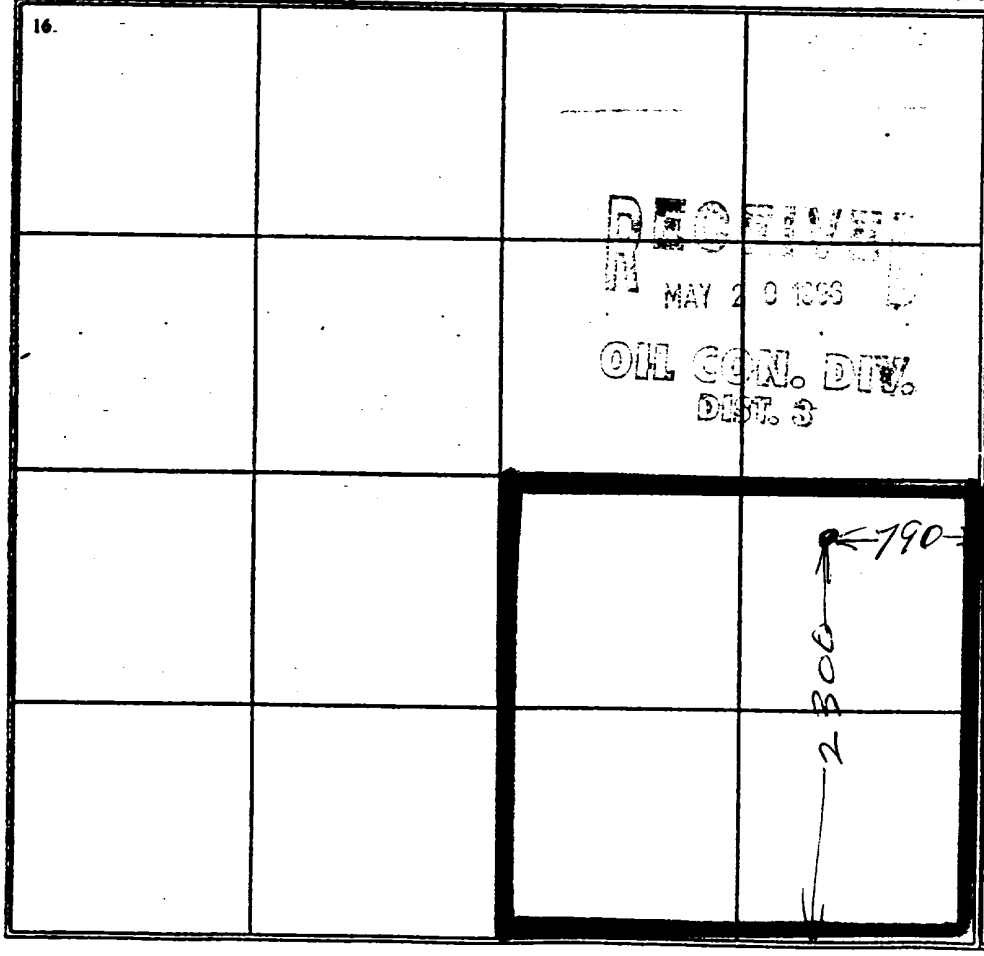
¹¹ Bottom Hole Location If Different From Surface

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	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

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.



¹⁷ OPERATOR CERTIFICATION

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

Signature: Patty Haefele

Printed Name: Patty Haefele

Title: Staff Assistant

Date: 5-16-96

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 Surveyer:

Certificate Number

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

ADMINISTRATIVE ORDER DHC-1271

Amoco Production Company
P.O. Box 800
Denver, Colorado 80201-0800

Attention: Ms. Pamela Staley

Dryden "LS" Well No. 1A
Unit I, Section 28, Township 28 North, Range 8 West, NMPM,
San Juan County, New Mexico.
Otero-Chacra (Gas - 82329) and
Blanco-Mesaverde (Prorated Gas - 72319) Pools

Dear Ms. Staley:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

Otero-Chacra Pool	Oil 0%	Gas 26%
Blanco-Mesaverde Pool	Oil 100%	Gas 74%

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 7th day of June, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY
Director

S E A L

WJL/DRC

cc: Oil Conservation Division - Aztec
Bureau of Land Management - Farmington

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

RECEIVED
BLM
96 AUG 26 AM 9:36
070 FARMINGTON, NM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.: NM-012200
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation:

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other
8. Well Name and No.: Dryden LS 1A
2. Name of Operator: Amoco Production Company — Attention: Pat Archuleta, Room 1205C
9. API Well No.: 3004526556
3. Address and Telephone No.: P.O. Box 800, Denver, Colorado 80201 — (303) 830-5217
10. Field and Pool, or Exploratory Area: Blanco Mesaverde/Otero Chacra
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 2300' FSL 790' FEL Sec. 28 T 28N R 8W Unit I
11. County or Parish, State: San Juan New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Bradenhead Repair	☐ Dispose Water

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

13. 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.)*

MIRUSU 7/25/96. TOH w/11/4" tbg. TIH set RBP at 2026'. Tested RBP with packer in hole to 1000#, held okay. Tested casing to 1000#, held okay. Ran CBL from surface to 2000'. TOC at 690'. Perfortaed at 650' w/2 jspf, .340 inch diameter, total 2 shots fired for bradenhead repair. Squeezed perf w/200 sxs class B cement. Did not circulate to surface. Birdged off. WOC. Perforated at 320' w/2 jspf, .340 inch diameter, total 2 shots fired. Squeezed perf with 25 sxs class B cement. WOC TIH tagged cement at 274". Drilled out first plug. Test squeeze, held okay. TIH tag bottom squeeze at 574'. Drilled out cement to 692'. Test squeeze, held okay. BH flow stopped. No pressusre on BH. TIH w/tbg and retainer head. Unload water out of casing with air pkg. Sting into RBP and TOH w/RBP. TIH w/ packer plucker. Latch onto packer at 3310'. Drill out packer. TIH w/prod tubbing to clean out fill to 4760'. Clean out fill w/air pkg to 4811'. Circulate hole clean. Reperf Mesaverde at 4528'-4548', 4602'-4608', 4613'-4618', 4622'-4626', w/ 2 jspf, .340 inch diameter, total 70 shots fired. TIH land production tubbing at 4555'. Flow back tubbing and casing to eliminate residual air in well.

RDMOSU 8/6/96

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SEP - 1 1996
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct.
Signed Pat Archuleta Title Clerk Date 08-23-1996

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

AUG 27 1996

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

FARMINGTON DISTRICT OFFICE
BY

* See Instruction on Reverse Side

AMOCO

80173

District I
P.O. Box 1980, Hobbs, NM 88241-1980
District II
P.O. Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR
DEC 03 1996

State of New Mexico
Energy, Minerals and Natural Resources Department

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

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Amoco Production Company **Telephone:** (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name: DRYDEN LS # 1A

Location: Unit or Qtr/Qtr Sec I Sec 28 T 28 N R 8 W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other BLOW

Land Type: BLM X, State ___, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 7', width 7', depth 7'
Reference: wellhead X, other ___
Footage from reference: 85
Direction from reference: 75 Degrees X East North ___ of ___ West South X

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	10
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0
	RANKING SCORE (TOTAL POINTS):	10

RECEIVED
NOV 30 1994
OIL CON. DIV.
DIST. 3

B0173

Date Remediation Started: _____ **Date Completed:** 11-23-94

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 8

Landfarmed X Insitu Bioremediation ___

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite X Offsite _____

General Description Of Remedial Action: Excavation

Ground Water Encountered: No X Yes ___ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 6'

Sample date 11-23-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 469

TPH 1540 ppm

RECEIVED
NOV 30 1994
OIL CON. DIV.
DIST. 3

Ground Water Sample: Yes ___ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11/28/94

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

RESULTS TO BOB McCOY 11-28-94 RCO

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: B0173 C.O.C. NO:

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: DRYDEN LS WELL #: 1A PIT: BLOW
QUAD/UNIT: I SEC: 28 TWP: 28N RNG: 8W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 2300' FSL, 790' FEL CONTRACTOR: MOSS

DATE STARTED: 11-23-94
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: RCO

EXCAVATION APPROX. 7 FT. x 7 FT. x 7 FT. DEEP. CUBIC YARDS: 8
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM
LAND USE: RANGE LEASE: NM-012200 FORMATION: CH/MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85 FEET S75°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

PIT EXCAVATED INTO BEDROCK. SOME STAIN VISIBLE ON SAND SOME BOTTOM. SOIL IS BROWN, MOIST, SILTY SAND. SLIGHT ODOR. - MIGRATION UNLIKELY.

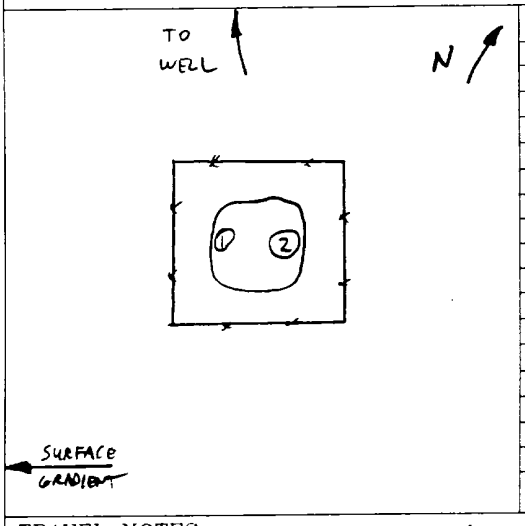
BEDROCK

FIELD 418.1 CALCULATIONS

	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
①	WB @ 6'	1291	10.0	20.0	-	770	1540

SCALE
0 5 10FT

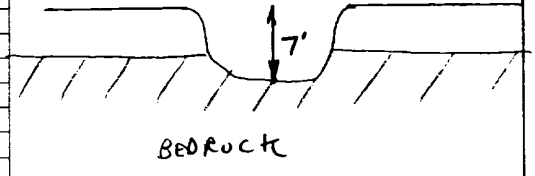
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 WB @ 6'	469
2 EB @ 6'	669
3	
4	
5	
LAB	SAMPLES

PIT PROFILE



TRAVEL NOTES: CALLOUT: 11-22-94 ONSITE: 11-23-94 1100

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	
Sample ID:	W Bottom @ 6'	Date Analyzed:	11-23-94
Project Location:	Dryden LS 1A	Date Reported:	11-23-94
Laboratory Number:	TPH-1291	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**1500**	**10**

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1,500	1,300	14

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Blow Pit - B0173

R. E. O'Neill
Analyst

Review