



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

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

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE March 25, 1986

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

Gentlemen:

I have examined the application dated March 19, 1986
for the Amor Jicarilla Cont. 147 49E 0-7-25N-5W
Operator Lease and Well No. Unit, _____

and my recommendations are as follows:

Approve

Yours truly,

John D. Gray



Amoco Production Company

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

R. J. Broussard
District Manager

March 17, 1986

New Mexico Oil Conservation Division
Attn: David Catanach
P. O. Box 2088
Santa Fe, NM 87501

File: DDL-274-400

Gentlemen:

Commingling Application
Jicarilla Contract 147 No. 9E
Section 7, T25N, R5W
Rio Arriba County, New Mexico

RECEIVED

MAR 19 1986

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

Amoco Production Company requests approval to commingle production from the Basin Dakota and Undesignated Gallup horizons in the subject well.

Commingling is requested for these reasons:

- 1) Connection costs will be reduced significantly because of less surface equipment required.
- 2) If Commingled, the Dakota will help produce the small amounts of oil remaining in the Gallup Formation.

The working interest and royalty of both zones are the same and bottom hole pressure of the Gallup is within 50 percent of the bottom hole pressure of the Dakota. Formation fluids are compatible.

In view of Rule 303C, we have attached 2 copies of the following:

1. Acreage Plat indicating ownership of offset leases
2. Well Completion Reports
3. Bottom hole pressures
4. Recommended allocation formula
5. Copy of notification to offset operations
6. Form C-116

Amoco Production Company

Amoco Production Company
P.O. Box 1000
Chicago, Illinois 60601
Telephone (312) 462-1000



Amoco Production Company
P.O. Box 1000
Chicago, Illinois 60601

Form 100-100-100

Amoco Production Company
P.O. Box 1000
Chicago, Illinois 60601
Telephone (312) 462-1000

Form 100-100-100

Amoco Production Company

Amoco Production Company
P.O. Box 1000
Chicago, Illinois 60601
Telephone (312) 462-1000

Amoco Production Company requests approval of an Amoco Production Company
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File: DDL-274-400
March 17, 1986

Thank you for your earliest attention to this application.

Yours very truly,

Original Signed
R. J. Broussard
By BDB

CES/ct

Attachments

cc: NMOCD - Aztec, NM

AM6

Page 2
Ref: 101-200-000
March 17, 1991

Thank you for your interest in our application.

Yours very truly,

John Doe
John Doe
John Doe

CC: [redacted]

Attachment

cc: 101-200-000 - [redacted]

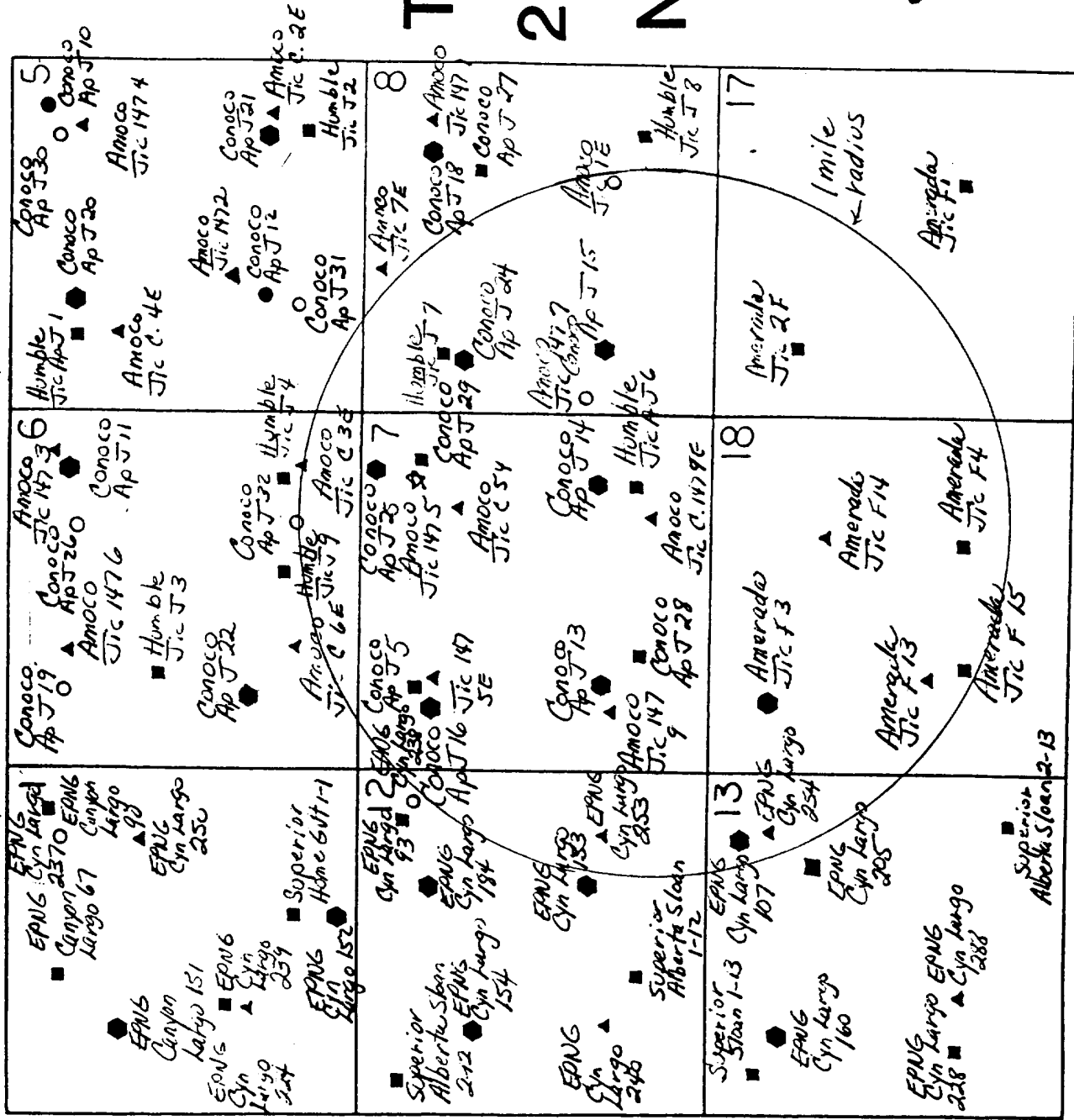
cc:

R6W

R5W

T 25 N

RECEIVED
MAR 19 1986
OIL CON. DIV.
DIST. 3



■ SO. BLANCO P.C.

▲ BASIN DAKOTA

● OTERO CHACRA

○ BLANCO MESAVERDE

★ PXA

● OTERO BLANCO P.C.

147 #9E

PRESSURES

Measured bottomhole Dakota pressure inside $2\frac{3}{8}"$ Hg = 2590 psi

Pressure on the annulus at the surface = 950 psi

Shot a sonolog Fluid level = 1072 feet

$$(1072 \text{ feet})(.4 \text{ psi/ft}) = 429 \text{ psi}$$

Thus, the bottomhole pressure in the Gallup is 1379 psi.

ALLOCATION FORMULA

The Oil is based on the fact that the Gallup is known to produce oil.
~~Based on tests shown on the completion report~~ while the gas
is based on completion reports.

	<u>Oil</u>	<u>Gas</u>
Gallup	100%	.5944
Dakota	0	.4056

GL 6664'
KB 6677'

8 5/8" 24# K-55 CSA
310' X 420 C.F. CMT

GALLUP PERFORATIONS:
6124'-6222'
6286'-6370'

2 3/8" TBG @ 7180'

SLIDING SLEEVE 7070'
PACKER @ 7080'
DAKOTA PERFORATIONS:
7121'-7143'
7164'-7176'

TD 7360'
PBD 7230'

5 1/2" 15.5# K-55
CSA 7360' X 2859
C.F. CMT

Amoco Production Company

JICARILLA CONTRACT 147 #9E

SCALE:

DRG.
NO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____				5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 147							
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache							
2. NAME OF OPERATOR Amoco Production Company				7. UNIT AGREEMENT NAME							
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico				8. FARM OR LEASE NAME Jicarilla Contract 147							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 910' FSL x 1740' FEL At top prod. interval reported below Same At total depth Same				9. WELL NO. 9E							
14. PERMIT NO. FEB 6 1984 BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA				10. FIELD AND POOL, OR WILDCAT Basin Dakota							
15. DATE SPELDED 10-3-83				16. DATE T.D. REACHED 10-14-83		17. DATE COMPLETION (Report to State) 11-4-83		18. ELEVATIONS (DF, RKB, RT, GR, ETC.) * 6677' KB		19. ELEV. CASINGHEAD 6664' GR	
20. TOTAL DEPTH, MD & TVD 7360'		21. PLUG, BACK T.D., MD & TVD 7230'		22. IF MULTIPLE COMPL., HOW MANY? 2		23. INTERVALS DRILLED BY ROTARY TOOLS 0 - TD		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7121'-7143', 7164'-7176' Dakota		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN CDL, CNL, GR, SP, DIL								27. WAS WELL CORED No			
28. CASING RECORD (Report all strings set in well)											
CASINO SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
8-5/8"		24#, K-55		310'		12.25"		420 cu.ft. Class B w/2% CaCl ₂ .			
5-1/2"		15.5#, K-55		7360'		7.875"		(1st) 1163 cu.ft. Class B 50:50 POZ tailed in w/307 cu.ft. Class B Neat. (2nd) 1271 cu.ft. Class B 65:35 POZ tailed with 118 cu.ft. Class B Neat.			
29. LINER RECORD											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)			
30. TUBING RECORD											
SIZE		DEPTH SET (MD)		PACKER SET (MD)							
2-3/8"		7180'									
31. PERFORATION RECORD (Interval, size and number) 7121'-7143', 7164'-7176', 2 jspf, .38" in diameter, total of 68 holes.											
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.											
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED							
7121'-7176'				101,000 gals. 20# gelled water w/ 2% KCL cont. 1 gal. surfactant/100 gals. fluid, 2% KCL and 136,000# 20-40 sand.							
33. PRODUCTION											
DATE FIRST PRODUCTION 12-24-83		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing						WELL STATUS (Producing or shut-in) Shut-in			
DATE OF TEST 12-25-83		HOURS TESTED 24 hrs.		CHOKER SIZE 12/64		PROD'N. FOR TEST PERIOD →		OIL—BBL. 0		GAS—MCF. 95	
FLOW. TUBING PRESS. 70 psig		CASING PRESSURE 0		CALCULATED 24-HOUR RATE →		OIL—BBL. 0		GAS—MCF. 95		WATER—BBL. 0	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold.											
35. LIST OF ATTACHMENTS											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
Original Signed By SIGNED D.D. Lawson TITLE District Adm. Supervisor											
ACCEPTED FOR RECORD FEB 13 1984											

* (See Instructions and Spaces for Additional Data on Reverse Side)

OPERATOR

BY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ 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)

At surface

910' FSL x 1740' FEL

At top prod. interval reported below Same

At total depth

Same

14. BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

13. DATE SPEC'D 10-3-83 16. DATE T.D. REACHED 10-14-83 17. DATE COMPL. (Ready to prod.) 11-4-83 18. ELEVATIONS (DF, RES, RT, OR, ETC.)* 6677' KB 19. ELEV. CASINGHEAD 6664' GR

20. TOTAL DEPTH, MD & TVD 7360' 21. PLUG, BACK T.D., MD & TVD 7230' 22. IF MULTIPLE COMPL., HOW MANY* 2 23. INTERVALS DRILLED BY 0-TD 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6124'-6222', 6286'-6370' Gallup

26. TYPE ELECTRIC AND OTHER LOGS RUN

CDL, CNL, GR, SP, DIL

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#, K-55	310'	12.25"	420 cu.ft. Class Bw/2% Ca	12'
5-1/2"	15.5#, K-55	7360	7.875"	(1st) 1163 cu.ft. Class B	50:50 POZ tailed
				307 cu.ft. Class B Neat.	(2nd) 1271 cu.ft.
				Class B 65:35 POZ tailed	118 cu.ft. Class

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	7180'	

31. PERFORATION RECORD (Interval, size and number)

6124'-6222', 6286'-6370', 1 jsp2f, .38" in diameter, total 93 holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6124'-6370'	105,000 gals. 20# gelled water w/ 2% KCL cont. 1gal. surfactant/100 gal. fluid and 145,000# 20-40 san

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11-8-83		Flowing				Shut-In	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL	GAS—MCF.	WATER—BSL	GAS-OIL RATIO
12-18-83	10	12/64	→	0	58	0	0
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL	GAS—MCF.	WATER—BSL	OIL GRAVITY-API (CORR.)	
45 psig	200 psig	→	0	139.2	0		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold.

TEST WITNESSED BY
Ted's Field Service

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Original Signed By

SIGNED D.D. Lawson

TITLE District Adm. Supervisor

DATE Feb 6 1984

*(See Instructions and Spaces for Additional Data on Reverse Side)

OPERATOR

BY

INSTRUCTIONS

Interval: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

Item 1: If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State Federal office for specific instructions.

Item 15: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion) so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 25: "Seals Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING: DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Basin Dakota	6998'	7345'	Sand, shale				
Gallup	6010'	5620'	Shale, Sand				
Mesaverde	4405'	5150'	Sand, Shale				
Chacra	3630'	3760'	Sand, shale				
Pictured Cliffs	2750'	2830'	Sand, shale				
Fruitland	2600'	2750'	Shale				
Kirtland	2335'	2600'	Shale				
Ojo Alamo	2200'	2335'	Sand, shale				

0 to BLM-Farmington
 1 - J.C. Burnside-Denver
 1 - Open 1 - a. P. Payne
 1 - Joe Zinke

DATE 2-27-86

WELL COMPLETION AND WORKOVER DATA

WELL NAME: Juignilla Contract 147#9C
LOCATION: 910' FSL X 1740' FEL, SEC 7 T25N R5W
Rio Arriba County, New Mexico

ELEVATION: _____ GL: 6664' KB: 6677'
TD: 7360' PBD: 7230'

CASING & CEMENT: 8 5/8" 24# K-55 CSA 310' X 420 C.F. Cmt
5 1/2" 15.5# K-55 CSA 7360' X 2859 C.F. Cmt
2 3/8" 7180'

COMPLETION DATE: 11-4-83 FIRST DELIVERY: _____

COMPLETION INTERVAL: 7121'-7176' DL 6124'-6370'

PERFORATIONS: 7121'-7143' 7164'-7176'
6124'-6220' 6284'-6370'

SPECIAL EQUIPMENT: Packer @ 7080
Sliding Sleeve

INITIAL POTENTIAL: 95 MCFD BK
139 MCFD LHP

CORE INTERVAL: _____

DST RESULTS: _____

LOGS RUN: CPL - CNL - GR - SP - DIL

ORIGINAL COMPLETION: 7121'-7176' Frac X 101,000 gals 20/6
gelled wt 2% KCL containing 1 gal surfactant/1000
gal fluid 2% KCL and 136,000 lb 20-40 sw.

6124'-6370' Frac X 105,000 gals 20/6 gelled wt
2% KCL containing 1 gal surfactant/1000
gal fluid and 145,000 lb 20-40 sw.

WORKOVERS AND EQUIPMENT CHANGES: _____