



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

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

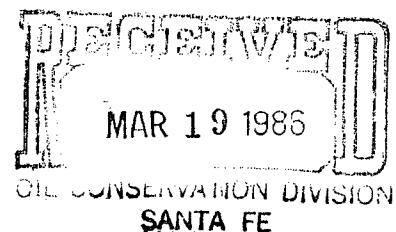
Commingling is requested for these reasons:

- 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



Page 2
File: DDL-274-400
March 17, 1986

Thank you for your earliest attention to this application.

Yours very truly,

R. J. Broussard BJS

CES/ct

Attachments

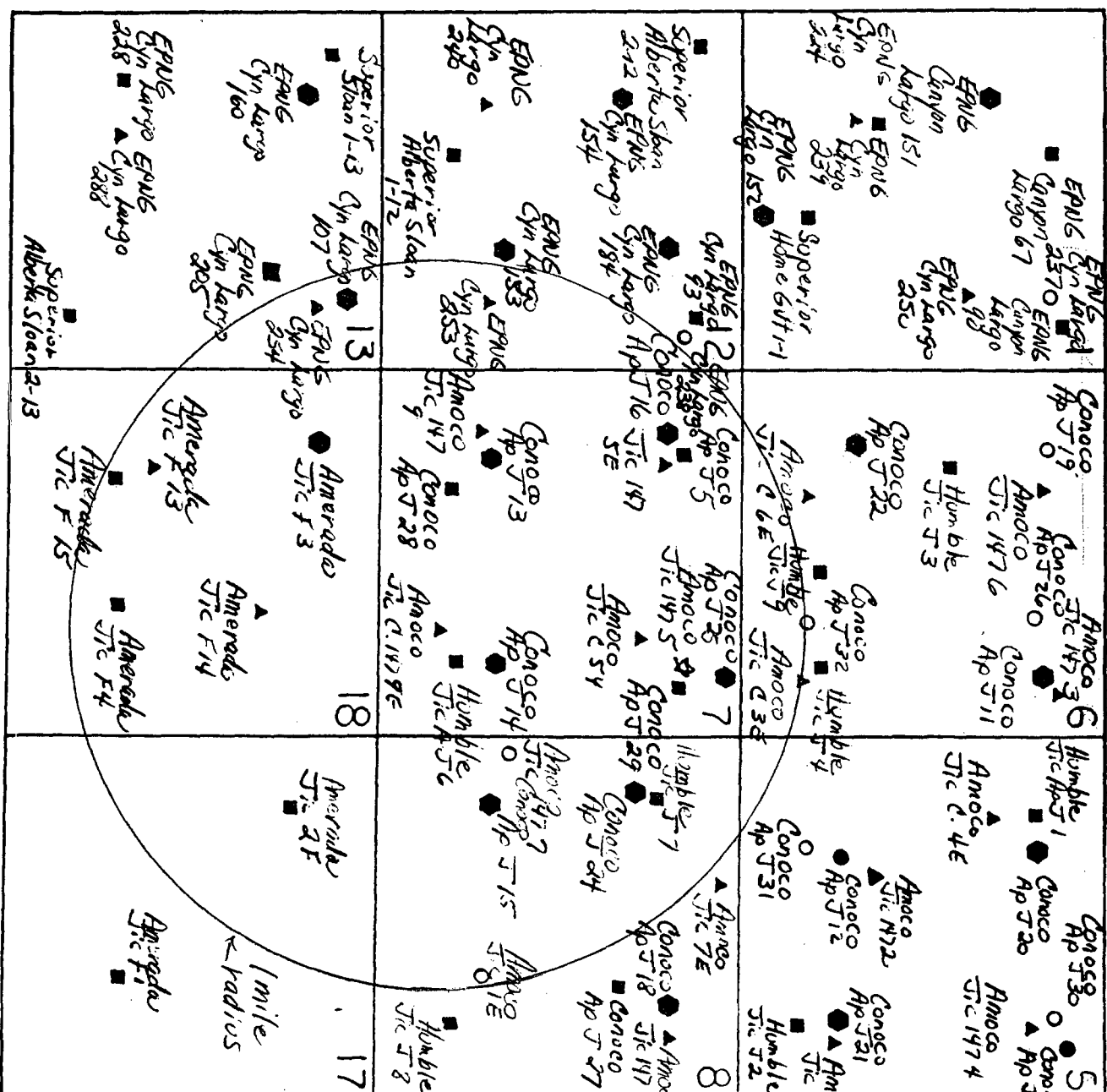
cc: NMOCD - Aztec, NM

AM6

R6W

R5W

- SO. BLANCO P.C.
- ▲ BASIN DAKOTA
- ◆ OTERO CHACRA
- BLANCO MESAVERTDE
- ✱ PXA
- OTERO BLANCO P.C.



T
25
N

147 #9E

PRESSURES

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

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

SCALE:

JICARILLA CONTRACT 147 #9E

DRG.
NO.

Form approved.
Budget Bureau No. 42-R355.6.

(See other instructions on reverse side)

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	☐
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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)

At surface 910' FSL x 1740' FEL

At top prod. interval reported below Same RECEIVED

At total depth Same FEB 6 1994

14. PERMIT NO. 8-6-1984 DATE ISSUED 8-6-1984
BUREAU OF LAND MANAGEMENT

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Return to Prod.)	18. ELEVATION (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-3-83	10-14-83	11-4-83	6677'KB	6664'GR

20. TOTAL DEPTH, MD & TVD 7360'	21. PLUG, BAGG I.D., MD & TVD 7230'	22. IF MULTIPLE COMPL., HOW MANY? 2	23. INTERVALS DRILLED BY →	ROTARY TOOLS 0 -TD	CABLE TOOLS
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24. PRODUCING INTERVAL(S), OF THIS COMPLETION---TOP, BOTTOM, NAME (MD AND TVD)*	25. WAS DIRECTIONAL
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7121'-7143', 7164'-7176' Dakota

26. TYPE ELECTRIC AND OTHER LOGS RUN	27. WAS WELL CORED
CDL, CNL, GR, SP, DIL	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 B w/2% Ca	C12.
5-1/2"	15.5#, K-55	7360'	7.875"	(1st) 1163 cu.ft. Class B 50:50 POZ tail	
				w/307 cu.ft. Class B Neat. (2nd) 1271 cu	
				Class B 65:35 POZ tailed with 118 cu.f	

29.	LINER RECORD	30.	TUBING RECORD	Class B Near
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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)	82	ACID SHOT FRACTURE CEMENT SQUEEZE ETC.
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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 2% KCL cont. 1 gal. surfactant gals. fluid, 2% KCL and 136, 20-40 sand.

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (<i>Flowing, gas lift, pumping—size and type of pump</i>)	WELL STATUS (<i>Producing or shut-in</i>)
12-24-83	Flowing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-25-83	24 hrs.	12/64	→	0	95	0	0

70 psig	0	→	0	95	0	
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34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		TEST WITNESSED BY
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To be sold. 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 FEB 08 1981
JAN 30, 1981

TITLE District Adm. Supervisor 5 FEB 1 1984 JAN 30, 1984

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

OPERATOR

RY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 147

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 147

9. WELL NO.

9E

10. FIELD AND POOL, OR WILDCAT

Undesignated Gallup

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

SW/SE, Sec. 7, T25N, R5W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

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. FARM BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

RECEIVED

FEB 6 1984

15. DATE SPDCDD 10-3-83 16. DATE T.D. REACHED 10-14-83 17. DATE COMPL. (Ready to prod.) 11-4-83 18. ELEVATIONS (DF, RER, 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

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)

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	50:50 POZ tailed
5-1/2"	15.5#, K-55	7360	7.875"	(1st) 1163 cu.ft. Class B	(2nd) 1271 cu.ft.
				307 cu.ft. Class B Neat.	118 cu.ft. Class
				Class B 65:35 POZ tailed	

29. LINER RECORD					30. TUBING 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)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6124'-6222', 6286'-6370', 1 jsp2f, .38" in diameter, total 93 holes.		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 11-8-83 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-18-83	10	12/64	→	0	58	0	0
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	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

SIGNED D.D. Lawson TITLE District Adm. Supervisor DATE FEB 08 1984

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

OPERATOR

BY Sm

INSTRUCTIONS

General: 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. 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 or 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 29: "Sacks 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, CORRELATE 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.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Basin Dakota	6998'	7345'	Sand, shale			
Gallup	6010'	6620'	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 5 BLM-Farmington
 1 - J.C. Burnside-Denver
 1 - Open 1 - A.P. Payne
 1 - Joe Duke

DATE 2-27-86

WELL COMPLETION AND WORKOVER DATA

WELL NAME: Juana 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' DK 6124'-6370'

PERFORATIONS: 7121'-7143' 7164'-7176'
6124'-6222' 6286'-6370'

SPECIAL EQUIPMENT: Packer @ 7080
Sliding Sleeve

INITIAL POTENTIAL: 95 MCFD BK
139 MCFD HLP

CORE INTERVAL: _____

DST RESULTS: _____

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

ORIGINAL COMPLETION: 7121'-7176' Frac x 101,000 gals 20/60
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 20/60 gelled wt
2% KCL containing 1 gal surfactant/1000
gal fluid and 145,000 lb 20-40 sw.

WORKOVERS AND EQUIPMENT CHANGES: _____