



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6176

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE Mar 25, 1981

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

Gentlemen:

I have examined the application dated Mar 19, 1981
for the Almora Jicmilla Cont. #147 #5E D-7-25N-5W
Operator Lease and Well No. Unit, 3

and my recommendations are as follows:

Approve

Yours truly,

Sam W. Chung



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-273-400

Gentlemen:

Commingling Application
Jicarilla Contract 147 No. 5E
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 5
APP-178-100 10/11
2001-11-18

Thank you for your attention to this matter.

Yours truly,

John J. ...
...
...

cc: 10/11

Atlanta

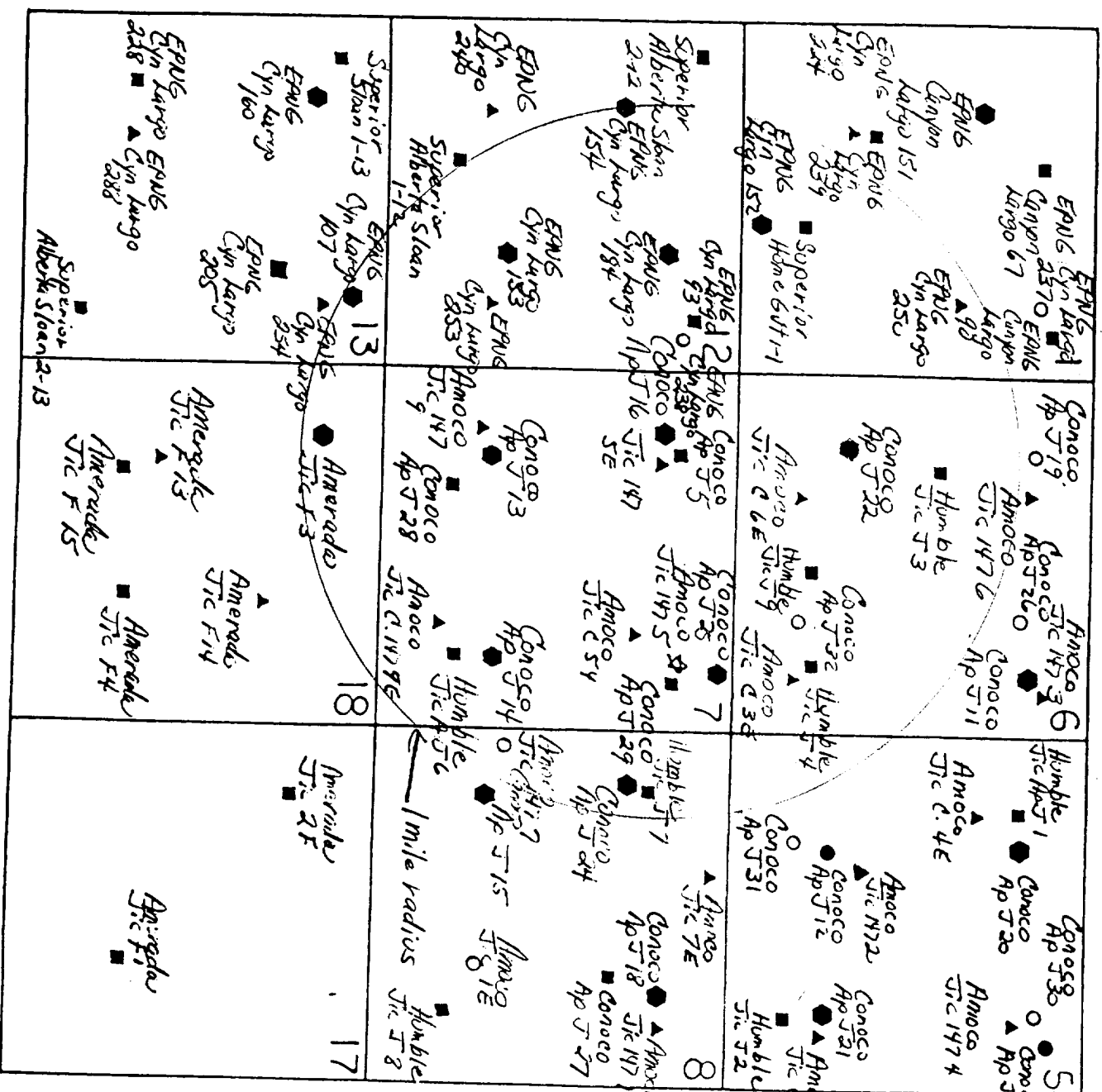
cc: 10/11 - Atlanta

cc:

R6W

R5W

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



T
25
N

147 #SE

PRESSURES

Measured Dakota pressure inside $2\frac{3}{8}"$ Hg = 2238 psi

Pressure on the annulus at the surface = 1000 psi

Shot a sonolog Fluid level = 1517'

(1517 feet) $(.4 \text{ PSI/ft})$ = 607 psi

Thus, the bottom hole pressure in the Gallup is 1607 psi

ALLOCATION FORMULA

Based on tests shown on the completion report

	<u>Oil</u>	<u>Gas</u>
Gallup	100%	1%
Dakota	0%	99%

GL 6705'
KB 6718'

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

GALLUP PERFORATIONS:
6214'-6450'
6640'-6850'

SLIDING SLEEVE 7070'
PACKER @ 7080'

DAKOTA PERFORATIONS:
7104'-7272'

2 3/8" TBG @ 7259'

TD 7390'
PBD 7320'

5 1/2" 15.5# K-55
CSA 7390' X 1246
C.F. CMT

Amoco Production Company

SCALE:

JICARILLA CONTRACT 147 #5E

DRG.
NO.

DATE 2-27-86

WELL COMPLETION AND WORKOVER DATA

WELL NAME: Jacquila Contract 147#5E
LOCATION: T25N R5W Sec 7 90' FNL X 90' FNL
Rio Arriba County, New Mexico

ELEVATION: _____ GL: 6705' KB: 6718'
TD: 7390' PBD: 7320'

CASING & CEMENT: 8 5/8" 24# K-55 CSA 319' X 420 C.F. cmt
5 1/2" 15.5# K-55 CSA 7390' X 1246 C.F. cmt
2 3/4" 4.7# J-55 CSA 7259'

COMPLETION DATE: 12-15-85 FIRST DELIVERY: _____

COMPLETION INTERVAL: 6214' - 6850' 6 1/4" 7104' - 7272' DK

PERFORATIONS: 6214' - 6450' 6640' - 6850'

SPECIAL EQUIPMENT: Packer @ 7080
Sliding Sleeve

INITIAL POTENTIAL: 120 MCFD 28 BOPD Strip
9928 MCFD DK

CORE INTERVAL: _____

DST RESULTS: _____

LOGS RUN: DIL-SP-GR-CIL-CDL - Long Spaced Sonic-Caliper

ORIGINAL COMPLETION:
7104' - 7272' Frac x 95,000 gal 20/10 gelled wt x
2% KCL, 1 gal surf / 1000 gal fluid wtd 145,000 lb
20-40 SW

6640' - 6850' Frac x 80,000 gal 20/10 gelled wt x 2% KCL, 1 gal surf / 1000 gal

6214' - 6450' Frac x 105,000 gal 20/10 gelled wt x 2% KCL, 1 gal surf / 1000 gal fluid x 150,000 lb 20-40 SW.

WORKOVERS AND EQUIPMENT CHANGES: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other 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 900' FNL x 960' FWL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO. _____ DATE ISSUED _____

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED

10-17-83

16. DATE T.D. REACHED

10-28-83

17. DATE COMPL. (Ready to prod.)

12-15-83

18. ELEVATIONS (DE, EEB, RT, GR, ETC.)*

6718' KB

19. ELEV. CASING HEAD

6703' GRAB

20. TOTAL DEPTH, MD & TVD

7390'

21. PLUG, BACK T.D., MD & TVD

7320'

22. IF MULTIPLE COMPL., HOW MANY*

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

O-TD

24. WAS DIRECTIONAL SURVEY MADE?

Yes

27. WAS WELL CORRECTED?

Yes

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

6430'-6850' Gallup

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL, SP, GR, CNL, CDL, Long Spaced Sonic, Caliper

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8.625"	24#, K-55	319'	12.25"	420 cu.ft. Class "B" w/2% CaCl ₂	
5.5"	15.5#, K-55	7390'	7-7/8"	939 cu.ft. Class B 50:50 POZ tailed in with 307 cu.ft. Class B Neat	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	7259'	

31. PERFORATION RECORD (Interval, size and number)

6214'-6450', 6640'-6850', 1 jspf, .38"
Total of 446 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6214'-6450	105,000 gal. 20# gelled wt. w/ 2% KCL, 1 gal. surf/1000 gal. fluid, & 150,000# 20-40 sand.
6640'-6850'	80,000 gal. 20# gelled wt. w/ 2% KCL, 1 gal. surf/1000 gal. fluid and 90,000# 20-40 sand

33.*

PRODUCTION

1 gal. Surf/1000 gal. fluid and 90,000# 20-40 sand

DATE FIRST PRODUCTION

1-5-84

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Flowing

WELL STATUS (Producing or shut-in)

Shut-In

DATE OF TEST

1-12-84

HOURS TESTED

7 hrs.

CHOKE SIZE

20/64

PROD'N. FOR TEST PERIOD

→

OIL—BBL.

8.2

GAS—MCF.

35

WATER—BBL.

1.7

GAS-OIL RATIO

4268

FLOW. TUBING PRESS.

105

CASING PRESSURE

340

CALCULATED 24-HOUR RATE

→

OIL—BBL.

28

GAS—MCF.

120

WATER—BBL.

5.8

OIL GRAVITY-API (CGR.)

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

Vented

TEST WITNESSED BY

Ted's Field Service

35. LIST OF ATTACHMENTS

ACCEPTED FOR RECORD

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 Dist. Adm. Supervisor

MAR 02 1984

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R155.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☒ DRY ☐ Other ☐
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other ☐

3. NAME OF OPERATOR

Ameco Production Company

4. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 900' FNL x 960' FWL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO. BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT ISSUED

RECEIVED
MAR 01 1984

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.

5E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SECTION, TOWNSHIP, OR BLOCK AND SURVEY OR AREA

NW/NW, Sec. 7 T25N R5W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

15. DATE EXPDED 10-17-33 16. DATE T.D. REACHED 10-28-83 17. DATE COMPL. (Ready to prod.) 12-15-83 18. ELEVATIONS (OF, RKB, RT, CB, ETC.) * 5718' KB 19. ELEV. CASINGHEAD 6705' GR

20. TOTAL DEPTH, MD & TVD 390' 21. PLUG BACK T.D., MD & TVD 7320' 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) * 7104'-7272'

25. TYPE ELECTRIC AND OTHER LOGS RUN 26. TYPE OF LOGS RUN OIL, SP, GR, CNL, CDL, Long Spaced Sonic, Caliper 27. WAS DIRECTIONAL SURVEY MADE Yes 28. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
6.625"	24# K-55	319'	12.25"	420 cu.ft. Class "B" w/2% CaCl ₂	
5.5"	15.5# K-55	7390'	7.875"	939 cu.ft. Class "B" 50/50 Poz. tailed in with 307 cu. ft. Class "B" Neat	

30. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

31. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	7259'	

32. PERFORATION RECORD (Interval, size and number)

7104'-7118', 7212'-7234', 7252'-7272' 1 1/2" spf. 1.38", total of 112 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7104'-7272'	95,000 gal 20# gelled wt with 2% KCL, 1 gal surf./1000 gal fluid; and 145,000# 20-40 sand

34. PRODUCTION

DATE FIRST PRODUCTION 1-10-84 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) shut-in

DATE OF TEST 2-20-84 HOURS TESTED 3 hrs CHOKER SIZE .75 PROD'N. FOR TEST PERIOD OIL—BBL. 1241 GAS—MCF. 9928 WATER—BBL. OIL GRAVITY-API (CORR.)

35. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) to be sold TEST WITNESSED BY J. J. Barnett

36. LIST OF ATTACHMENTS

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

SIGNED Original Signed By D.D. Lawson TITLE Dist. Adm. Supervisor DATE MAR 02 1984

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

OPERATOR

BY Sm

WF

RECEIVED
MAR 6 1984
FARMINGTON DISTRICT

DS	
DAS	
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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 35, 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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in oil or 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 23. 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; COMED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL, OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Basin Dakota	7090'	7390'	Sand, Shale			
Otero Gallup	6105'	6800'	Shale, Sand			
Mesaverde (Est)	4506'	5233'	Sand, Shale			
Chacra (Est)	3735'	3773'	Sand, Shale			
Pictured Cliffs (Est)	2866'	2922'	Sand, Shale			
Fruitland (Est)	2716'	2866'	Shale, sand			
Kirtland (Est)	2470'	2716'	Shale			
Ojo Alamo (Est)	2310'	2470'	Sand, Shale			