



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 2
File: DDL-273-400
March 17, 1986

Thank you for your earliest attention to this application.

Yours very truly,

R. J. Brown

CES/ct

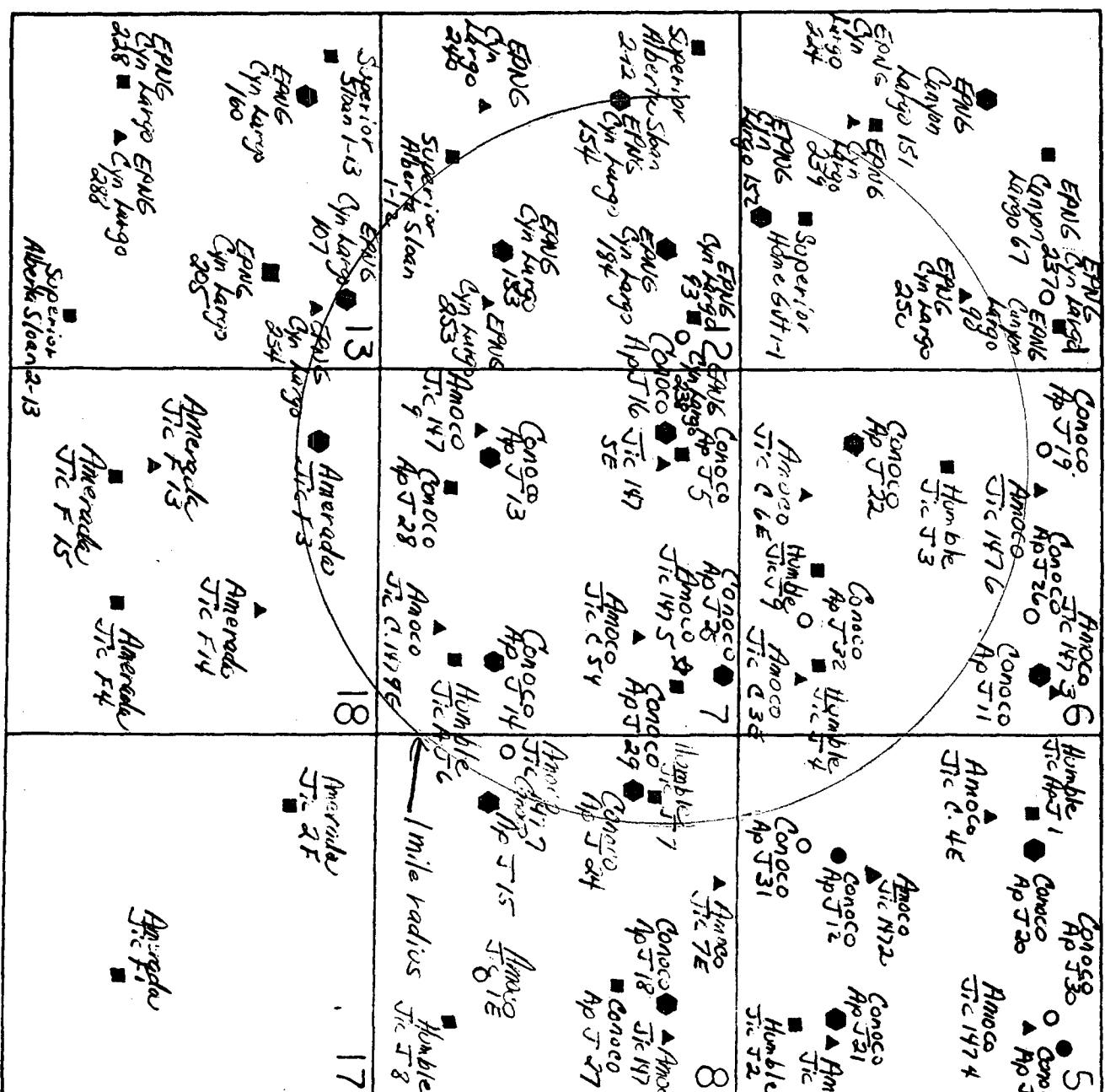
Attachments

cc: NMOCD - Aztec, NM

AM6

R6W

R5W



T 25 N

Conoco
EPN6
Superior
Amoco
Humble

147 #5E

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 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'

DAKOTA PERFORATIONS:
7104'-7272'

SLIDING SLEEVE 7070'
PACKER @ 7080'

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

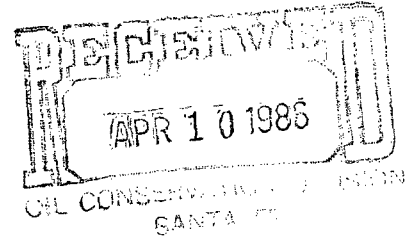
DRG.
NO.



Amoco Production Company

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

R. J. Broussard
District Manager
March 3, 1986



Conoco
Briercroft Savings Bldg.
200 North Loraine
Midland, TX 79702

Also: AMERANDA Hess
EPNG
EXXON
SUPERIOR oil

File: DBB-83-400

DHC-607

Gentlemen:

Commingling Application
Jicarilla Contract 147 No. 5E and No. 9E
Section 7, T24N, R5W
Rio Arriba County, New Mexico

Amoco Production Company has applied for approval to commingle the Dakota and Gallup horizons in the subject wells. If you have any objections, you have 20 days to notify the New Mexico Oil Conservation Division. If you do not respond within 20 days, your approval will be assumed.

Yours very truly,

R. J. Broussard BJS

EDA/ct

AM18

DATE 2-27-86

WELL COMPLETION AND WORKOVER DATA

WELL NAME: Jacquilla Contract 14775E
LOCATION: T25N R5W Sec 7 900' ENL X 960' FWL
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 3/8" 4.7# J-55 CSA 7259'

COMPLETION DATE: 12-15-83 FIRST DELIVERY: _____

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

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

SPECIAL EQUIPMENT: Packw @ 7080
Sliding Sleeve

INITIAL POTENTIAL: 120 MCFD 28 BOPD MLP
9928 MCFD DK

CORE INTERVAL: _____

DST RESULTS: _____

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

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

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

6214' - 6450' Frac x 105,000 gal 20 lb 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 in-
structions 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

13. STATE

Rio Arriba

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 (DF, HKB, RT, GR, ETC.)*

6718' KB

19. ELEV. Casinghead

6705' GRAB 6 1984

20. TOTAL DEPTH, MD & TVD

7380'

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

7320'

22. IF MULTIPLE COMPL.,
HOW MANY*

2

23. INTERVALS
DRILLED BY

ROTARY TOOLS

O-TD

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	WP
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)

30. TUBING RECORD

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

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	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-12-84	7 hrs.	20/64	→	8.2	35	1.7	4268
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CGR.)	
105	340	→	28	120	5.8		

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

Vented

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 Dist. Adm. Supervisor

ACCEPTED FOR RECORD

MAR 02 1984

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

OPERATOR

BY

Sm

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 *

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

Amoco 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 RESOURCE AREA

RECEIVED
MAR 01 1984

6. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 147

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache

8. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME

Jicarilla Contract 147

10. WELL NO.

5E

11. FIELD AND POOL, OR WILDCAT

Basin Dakota

12. SEC. T. R. OR BLOCK AND SURVEY OR AREA

NW/NW, Sec. 7 T25N R5W

13. COUNTY OR PARISH

Rio Arriba

14. STATE

NM

15. DATE SPUNDED 10-17-83 16. DATE T.D. REACHED 10-28-83 17. DATE COMPL. (Ready to prod.) 12-15-83 18. ELEVATIONS (OP, RKB, RT, CB, ETC.) * 6718' KB 19. ELEV. CASINGHEAD 6705' GR

20. TOTAL LEATH, MD & TVD 389' 21. PLUG, BACK T.D., MD & TVD 7320' 22. IF MULTIPLE COMPL. HOW MANY * 2 23. INTERVALS DRILLED BY ROTARY TOOLS 24. TD 25. WAS DIRECTIONAL SURVEY MADE Yes

26. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) * 7104'-7272'

27. TYPE ELECTRIC AND OTHER LOGS RUN

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

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

31. PERFORATION RECORD (Interval, size and number)

7104'-7118', 7212'-7234', 7252'-7272'

1 1/2" spf. 138", total of 112 holes

32. 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

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
1-19-84		Flowing				shut-in FARM	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-20-84	3 hrs	.75	→		1241		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
85 psig	—	→		9928			

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

to be sold

TEST WITNESSED BY

J. J. Barnett

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.

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

(over)

WF

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 18: 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 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; CORED 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		

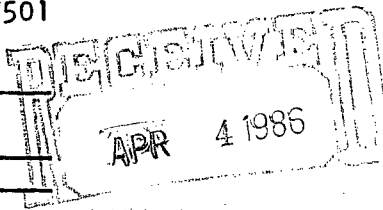


STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

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

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE March 25, 1986



607

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 Amow

Operator

Jacinto Cont. #147 #SE

Lease and Well No.

D-7-25N-SW

Unit, S-T-B

and my recommendations are as follows:

Approve

Yours truly,

Frank D. Gray