



Amoco Production Company

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

W. J. Holcomb
District Manager

December 14, 1984

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

File: DDL-1253-400.1

Dear Sirs:

Commingling Application for the Rosa Unit 102
Section I30, T31N, R5W, Rio Arriba County, NM

Amoco Production Company requests approval to commingle production from the Flora Vista Gallup and Basin Dakota horizons in the subject well. Commingling is necessary due to producing rates from the Gallup that are too low to economically dual complete the well. There will be no crossflow between the two zones as neither zone is sensitive to produced liquids, and there will be no loss of value of production. Finally, the working interest and royalty of both zones are the same, and the bottom hole pressure of the Gallup is more than 50 percent of the bottom hole pressure of the Dakota. We therefore request approval of our commingling application.

As required by Rule 303C, we have attached two copies of the following:

1. Acreage Plat
2. Form C-107
3. Form 3160-4 Well Completion Report
4. Bottom hole pressures
5. Recommended allocation formula
6. Copy of notification to offset operators

This well is a new completion, and thus no production decline curves are supplied. Neither zone makes any condensate and there is no fluid compatibility problem. In conclusion, production from the Gallup is too low to warrant dual completion with the Dakota. Therefore, please approve our application to commingle at your earliest convenience.

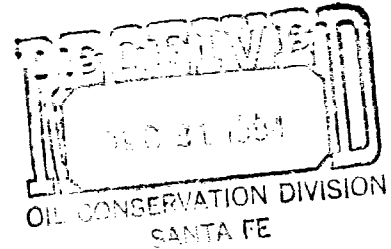
Yours very truly,

MEM/ct

cc: NMOCDD - Aztec, NM (2)

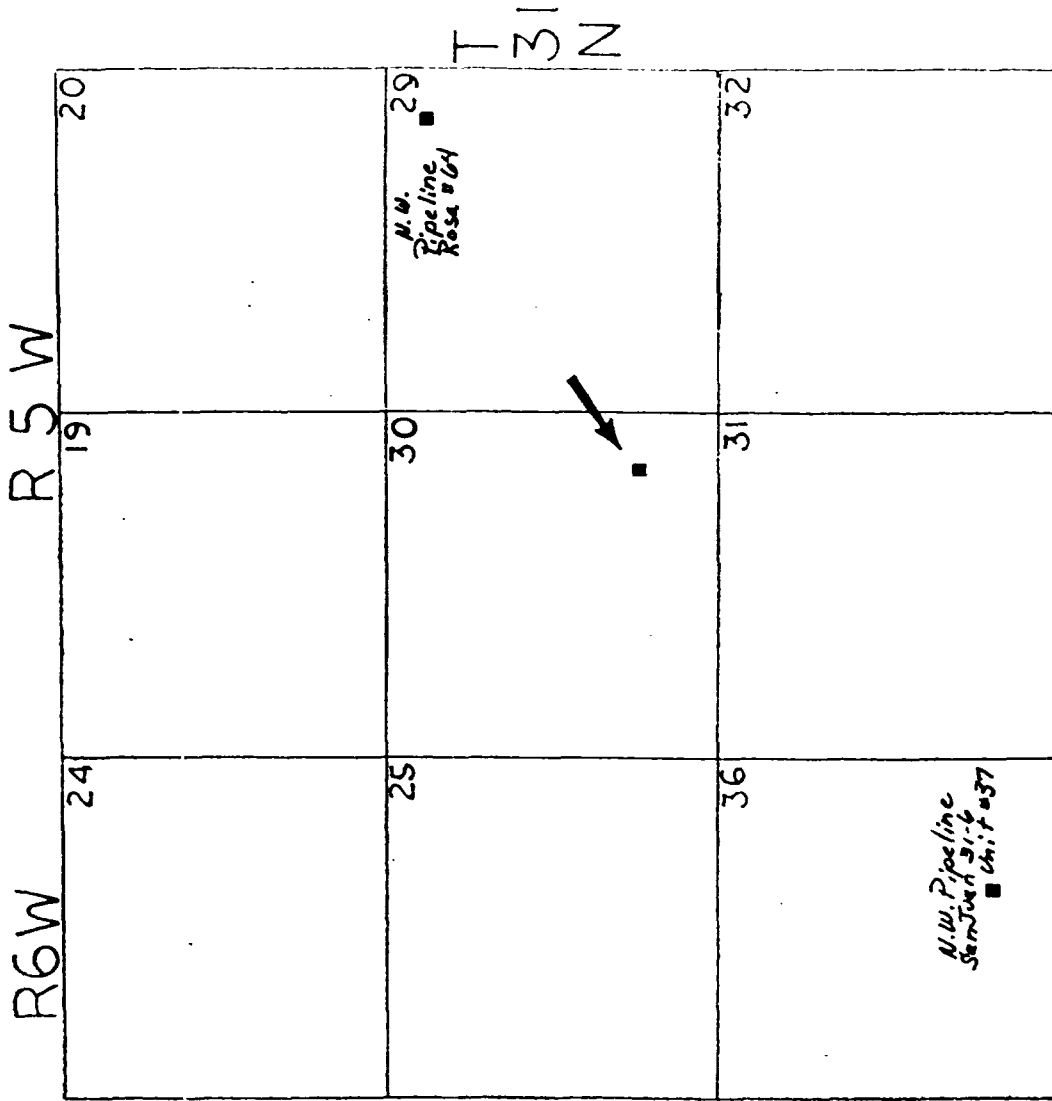
NWPL - Farmington, NM

AM7



Case 8518

Case 8518



■ BASIN DAKOTA WELLS

NO UNDES GALLUP WELLS

STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2048
SANTA FE, NEW MEXICO 87501

Case 8518

Form C-107
Revised 10-1-7

All distances must be from the outer boundaries of the Section.

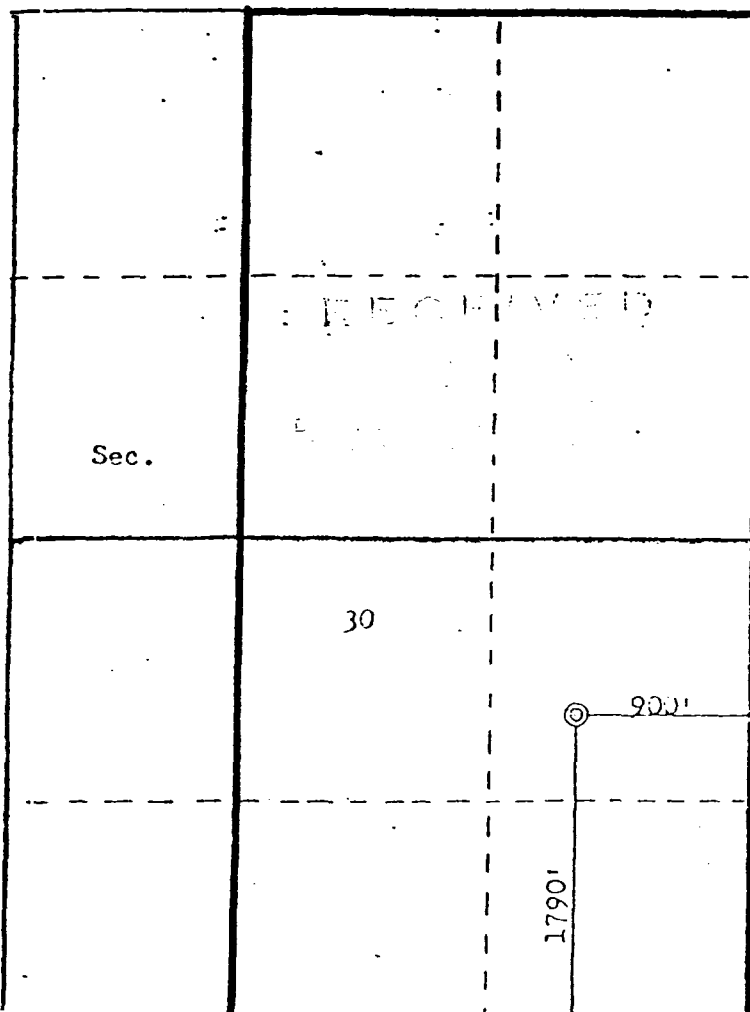
Operator: AMOCO PRODUCTION COMPANY			Lease: Rosa Unit		Well No. 102
Unit Letter I	Section 30	Township 31N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1790 feet from the South line and 900 feet from the East line					
Ground Level Elev: 6415	Producing Formation Dakota-Gallup		Pool Basin Dakota-Undes. Gallup		Dedicated Acreage: 320/160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name

Darrell D. Lawson

Position

District Administrative

Company Supervisor

Amoco Production Co.

Date

December 20, 1983

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

October 4, 1983

Registered Professional Engineer and Land Surveyor

[Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF-078764

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Rosa Unit

8. FARM OR LEASE NAME

9. WELL NO.

102

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

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

NE/SE Sec. 30, T31N, R5W

12. COUNTY OR
PARISH

Rio Arriba

13. STATE

N M

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 Co.

3. ADDRESS OF OPERATOR

501 Airport Dr., Farmington, N M 87401

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

At surface 1790' FSL X 900' FEL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.)

12-15-83

1-2-84

8-22-84

18. ELEVATIONS (OF RKB, RT, GR, ETC.)*

6428' KB

19. ELEV. CASINGHEAD

6415' GR

20. TOTAL DEPTH, MD & TVD

8166'

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

8140'

22. IF MULTIPLE COMPL.,
HOW MANY*

2

23. INTERVALS
DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

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

7948'-8110' Dakota

25. WAS DIRECTIONAL
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

SP-GR-DIL-FDC-CNL

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
13-3/8"	48#, H-40	415'	17-1/2"	564 cu.ft. Class B, 2% CaCl ₂	
4-1/2"	11.6#, N-80	8166'	7-7/8"	Stage 1: 1278 cu.ft. Pozzolanic 50:50 poz & tailed in w/177 cu.ft. Class B (cont. on back)	

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"	8100'	7367'
		(sliding sleeve)

31. PERFORATION RECORD (Interval, size and number)

7972'-7948' 8018'-7996', 8110'-8100',
1 jspf, .41", total of 56 holes.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7948'-8110'	39,984 gal pad, 101,598 gal. crosslinker gel cont. 1 gal/1000 surf., 2% KCL & 263,050# 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)
10-2-84	Flowing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-3-84	3	.50"			328		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
480 psig	N/A			2627			

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

TEST WITNESSED BY

J. Barnett

35. LIST OF ATTACHMENTS

None

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

Original Signed By

SIGNED B. D. Shaw

TITLE Adm. Supervisor

DATE 10-18-84

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

28. Stage 2: 3486 cu.ft. Pozzolanitic 65:35 poz & tailed in w/117 cu.ft. Class B

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.	GEOLOGIC MARKERS		
				NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2540					
Fruitland	2875					
Pic. Cliffs	3280					
Lewis	3562					
Mesaverde	5146					
Gallup	6602					
Mancos	7386					
Grn. Hrn.	7766					
Graneros	7818					
G. Dakota	7946					
M. Dakota	7994					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

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, N M 87401

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

At surface 1790' FSL X 900' FEL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

12-15-83

16. DATE T.D. REACHED

1-2-84

17. DATE COMPL. (Ready to prod.)

8-22-84

18. ELEVATIONS (DF, R&B, RT, GR, ETC.)*

6428' GR

19. ELEV. CASINGHEAD

6415' GR

20. TOTAL DEPTH, MD & TVD

8166'

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

8140'

22. IF MULTIPLE COMPL., HOW MANY*

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

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

7190' - 7358' Gallup

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

SP-GR-DIL-FDC-CNL

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
13-3/8"	48#, H-40	415'	17-1/2"	564 cu.ft. Class B, 2% CaCl ₂	
4-1/2"	11.6#, N-80	8166'	7-7/8"	Stage 1: 1278 cu.ft. Pozzolanic 50:50 poz and tailed in w/177 cu.ft. Class B (cont. on back)	

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"	8100'	7367'
(sliding sleeve)		

31. PERFORATION RECORD (Interval, size and number)

7358'-7190', 1 jsp2f, .41", total of 84 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7190'-7358'	11,004 gal pad, 59,556 gal. gel cont. 1 gal/1000 surf., 2% KCL & 104,000# 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)	
10-3-84		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-4-84	3	.50"	→		177		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
260 psig	525 psig	→		1412			

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

To be sold

TEST WITNESSED BY

J. Barnett

35. LIST OF ATTACHMENTS

None

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

Original Signed By

SIGNED B. D. Shaw

TITLE Adm. Supervisor

DATE 10-18-84

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

28. Stage 2: 3486 cu.ft. Pozzolanitic 65:35 poz & tailed in w/177 cu.ft. Class B

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	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2540					
Fruitland	2875					
Pic. Cliffs	3280					
Lewis	3563					
Mesaverde	5146					
Gallup	6602					
Mancos	7386					
Grn. Hrn.	7766					
Graneros	7818					
G. Dakota	7946					
M. Dakota	7994					

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company AMOCO PRODUCTION CO. Lease ROSA UNIT Well 102 DAK
County RIO ARRIBA State NEW MEXICO Date 10-1-84
Shut-In 7 DAYS Zero Point G.L. Tbg. Pressure 2500
Casing Pressure 3000 Tbg. Depth _____ Casing Perf. _____
Max. Temp. 262°F Fluid Level 7000'

<u>DEPTH</u>	<u>PSIG</u>	<u>GRADIENT</u>
0	2474	----
1000	2553	.079
2000	2616	.063
3000	2680	.064
4000	2734	.054
5000	2791	.057
6000	2843	.052
7000	2928	.085
7950	3324	.417
8050	3368	.440

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company AMOCO PRODUCTION CO Lease ROSA UNIT Well 102 GALLUP
County RIO ARriba State NEW MEXICO Date 10-26-84
Shut-In 7 DAYS Zero Point G.L. Tbg. Pressure _____
Casing Pressure _____ Tbg. Depth _____ Casing Perf. _____
Max. Temp. 246^oF Fluid Level 6600'

<u>DEPTH</u>	<u>PSIG</u>	<u>GRADIENT</u>
0	2798	----
1000	2876	.078
2000	2949	.073
3000	3015	.066
4000	3082	.067
5000	3143	.061
6000	3204	.061
7000	3392	.188
7350	3544	.434

Recommended Allocation Formula

Amoco Production Company recommends the following percentages be used to allocate hydrocarbons to the Gallup and Dakota horizons in the Rosa Unit 102:

	<u>Gas</u>
Gallup	65%
Dakota	35%

Note: The gas allocation percentages were calculated using initial potential test results.

MEM

December 18, 1984

El Paso Natural Gas Company
P. O. Box 990
Farmington, NM 87499

File: DDL-1277-400.1

Dear Sirs:

Commingling Application
Rosa Unit 102
Section I30, T31N, R5W
Rio Arriba County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota horizons in the subject well. 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.

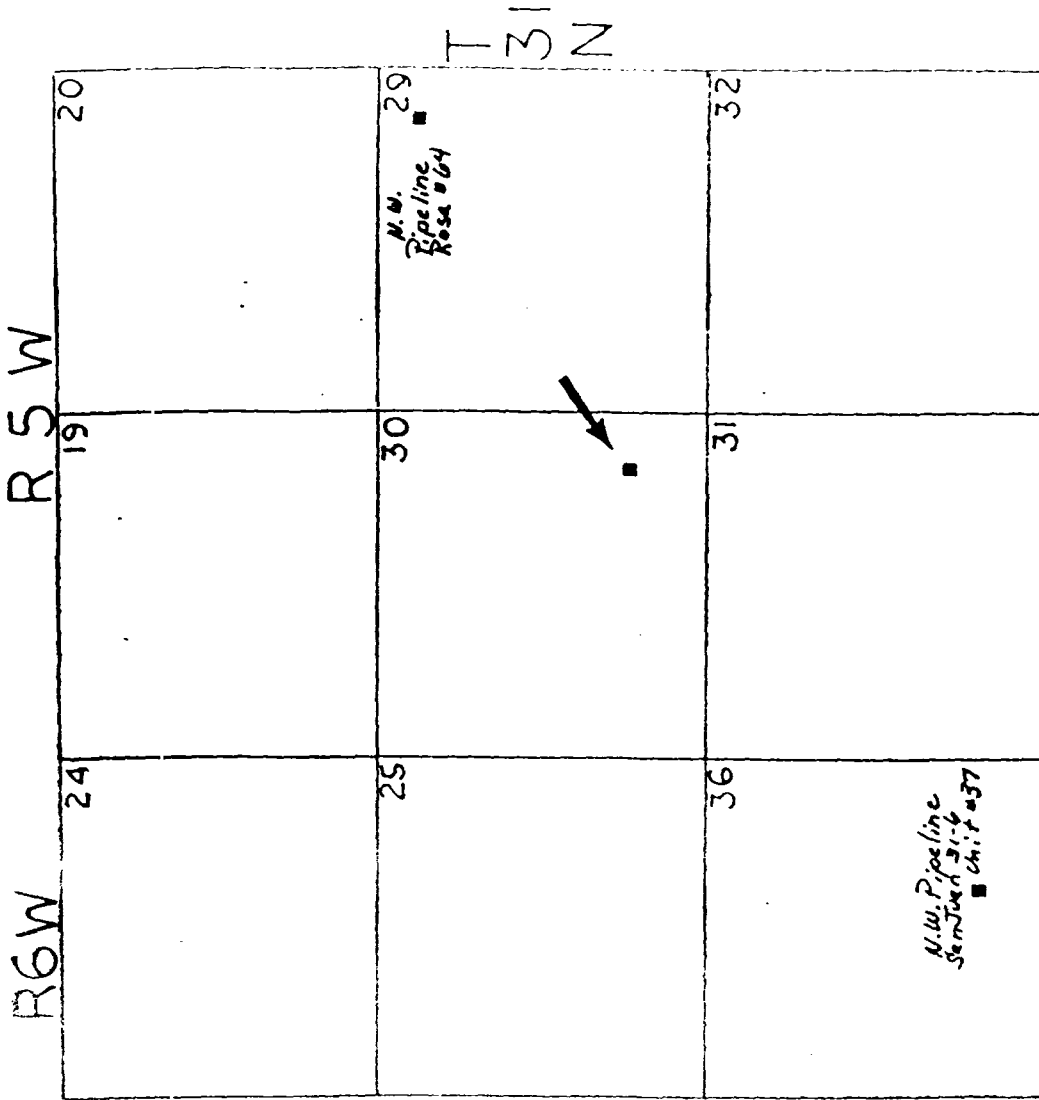
Yours very truly,

Original Signed
W. J. Holcomb
by DDL

MEM/ct

AM7

ROSA UNIT # 102



■ BASIN DAKOTA WELLS

NO UNDES GALLUP WELLS

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
OIL AND MINERALS DEPARTMENT

P. O. BOX 2068

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-

All distances must be from the outer boundaries of the Section.

Operator: AMOCO PRODUCTION COMPANY			Lease: Rosa Unit		Well No. 102
Unit Letter I	Section 30	Township 31N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1790 feet from the South line and 900 feet from the East line					
Ground Level Elev: 6415	Producing Formation Dakota-Gallup		Pool Basin Dakota-Undes. Gallup		Dedicated Acreage: 320/160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Sec.		
	30	
		1790'

CERTIFICATION

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

Name

Darrell D. Lawson

Position

District Administrative

Company Supervisor

Amoco Production Co.

Date

December 20, 1983

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

October 4, 1983Registered Professional Engineer
and Land Surveyor

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

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 ☐ PLUG ☐ PLUG BACK ☐ DIFF. CENVR ☐ Other _____

2. NAME OF OPERATOR

Amoco Production Co.

3. ADDRESS OF OPERATOR

501 Airport Dr., Farmington, N M 87401

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

At surface 1790' FSL X 900' FEL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

SF-078764

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Rosa Unit

8. LEASE OR TRACT NAME

9. WELL NO.

102

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

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

NE/SE Sec. 30, T31N, R5W

12. COUNTY OR PARISH

13. STATE

Rio Arriba

N M

15. DATE SPUDDED

12-15-83

16. DATE T.D. REACHED

1-2-84

17. DATE COMPL. (Ready to prod.)

8-22-84

18. ELEVATION (OF RKB, RT, GR, ETC.)*

6428' KB

19. ELEV. CASINGHEAD

6415' GR

20. TOTAL DEPTH, MD & TVD

8166'

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

8140'

22. IF MULTIPLE COMPL., HOW MANY*

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

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

7948'-8110' Dakota

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

SP-GR-DIL-FDC-CNL

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
13-3/8"	48#, H-40	415'	17-1/2"	564 cu.ft. Class B, 2% CaCl ₂	
4-1/2"	11.6#, N-80	8166'	7-7/8"	Stage 1: 1278 cu.ft. Pozzolanitic 50:50 poz & tailed in w/177 cu.ft. Class B (cont. on back)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	8100'	7367'
							(sliding sleeve)

31. FORMATION RECORD (Interval, core and number)

7972'-7948' 8018'-7996', 8110'-8100',
1 jspl, .41", total of 56 holes.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7948'-8110'	39,984 gal pad, 101,598 gal. crosslinker gel cont. 1 gal/1000 surf., 2% KCL & 263,050# 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)	
10-2-84		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF	WATER—BBL.	GAS-OIL RATIO
10-3-84	3	.50"	→		328		
FLOW, SURF. PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF	WATER—BBL.	OIL GRAVITY-API (CORR.)	
480 psig	N/A	→		2627			

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

TEST WITNESSED BY

J. Barnett

35. LIST OF ATTACHMENTS

None

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

Original Signed By

SIGNED

B. D. Shaw

TITLE

Adm. Supervisor

DATE

10-18-84

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

1. Stage 2: 3486 cu.ft. Pozzolanic 65:35 poz & tailed in w/117 cu.ft. Class B

17. 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, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2540					
Fruitland	2875					
Pic. Cliffs	3280					
Lewis	3562					
Mesaverde	5146					
Gallup	6602					
Mancos	7386					
Grn. Hrn.	7766					
Graneros	7818					
G. Dakota	7946					
M. Dakota	7994					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

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. CENSOR ☐ Other _____

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, N M 87401

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

At surface 1790' FSL X 900' FEL

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

12-15-83

16. DATE T.D. REACHED

1-2-84

17. DATE COMPL. (Ready to prod.)

8-22-84

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

6428' GR

19. ELEV. CASINGHEAD

6415' GR

20. TOTAL DEPTH, MD & TVD

8166'

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

8140'

22. IF MULTIPLE COMPL. HOW MANY*

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

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

7190' - 7358' Gallup

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

SP-GR-DIL-FDC-CNL

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
13-3/8"	48#, H-40	415'	17-1/2"	564 cu.ft. Class B, 2% Cacl ₂	
4-1/2"	11.6#, N-80	8166'	7-7/8"	Stage 1: 1278 cu.ft. Pozzolanic 50:50 poz and tailed in w/177 cu.ft. Class B (cont. on back)	

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"	8100'	7367'

(sliding sleeve)

31. PERFORATION RECORD (Interval, size and number)

7358'-7190', 1 jsp2f, .41", total of
84 bores

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7190'-7358'	11,004 gal pad, 59,556 gal. gel cont. 1 gal/1000 surf., 2% KCL & 104,000# 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)	
10-3-84		Flowing				Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL	GAS—MCF	WATER—BBL	GAS-OIL RATIO
10-4-84	3	.50"	→		177		
FLOW—TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL	GAS—MCF	WATER—BBL	OIL GRAVITY-API (CORR.)	
260 psig	525 psig	→		1412			

34. PRODUCTION OF GAS (Sale used for fuel, vented, etc.)

To be sold

TEST WITNESSED BY

J. Barnett

35. LIST OF ATTACHMENTS

None

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

Original Signed By

B. D. Shaw

TITLE Adm. Supervisor

DATE 10-18-84

Stage 2: 3466 cu.ft. Pozzolanic 65:35 poz & tailed in w/177 cu.ft. Class B

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
Alamo	2540					
Wittland	2875					
(c. Cliffs	3250					
Wid	3563					
Esaverde	5146					
Illup	6602					
ncos	7386					
n. Hrn.	7766					
aneros	7818					
Dakota	7946					
Dakota	7994					

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company AMOCO PRODUCTION CO. Lease ROSA UNIT Well 102 DAK
County RIO ARriba State NEW MEXICO Date 10-1-84
Shut-In 7 DAYS Zero Point G.L. Tbg. Pressure 2500
Casing Pressure 3000 Tbg. Depth _____ Casing Perf. _____
Max. Temp. 262°F Fluid Level 7000'

<u>DEPTH</u>	<u>PSIG</u>	<u>GRADIENT</u>
0	2474	----
1000	2553	.079
2000	2616	.063
3000	2680	.064
4000	2734	.054
5000	2791	.057
6000	2843	.052
7000	2928	.085
7950	3324	.417
8050	3368	.440

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company AMOCO PRODUCTION CO Lease ROSA UNIT Well 102 GALLUP
County RIO ARriba State NEW MEXICO Date 10-26-84
Shut-In 7 DAYS Zero Point G.L. Tbg. Pressure _____
Casing Pressure _____ Tbg. Depth _____ Casing Perf. _____
Max. Temp. 246^oF Fluid Level 6600'

<u>DEPTH</u>	<u>PSIG</u>	<u>GRADIENT</u>
0	2798	----
1000	2876	.078
2000	2949	.073
3000	3015	.066
4000	3082	.067
5000	3143	.061
6000	3204	.061
7000	3392	.188
7350	3544	.434

Recommended Allocation Formula

Amoco Production Company recommends the following percentages be used to allocate hydrocarbons to the Gallup and Dakota horizons in the Rosa Unit 102:

	<u>Gas</u>
Gallup	65%
Dakota	35%

Note: The gas allocation percentages were calculated using initial potential test results.

MEM

December 18, 1984

El Paso Natural Gas Company
P. O. Box 990
Farmington, NM 87499

File: DDL-1277-400.1

Dear Sirs:

Commingling Application
Rosa Unit 102
Section 130, T31N, R5W
Rio Arriba County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota horizons in the subject well. 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,

Original Signed
W. J. Holcomb
by DDL

MEM/ct

AM7