

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

CONT 98

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CONOCO, INC.

3a. Address

P.O. BOX 2197 DU 3066 HOUSTON TX 77252

3b. Phone No. (include area code)

(281)293-1005

8. Well Name and No.

APACHE #2

9. API Well No.

30-039-20185

10. Field and Pool, or Exploratory Area

BASIN DAKOTA, WILD HORSE GALL

11. County or Parish, State

RIO ARriba

NEW MEXICO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

L 18 26N 3W

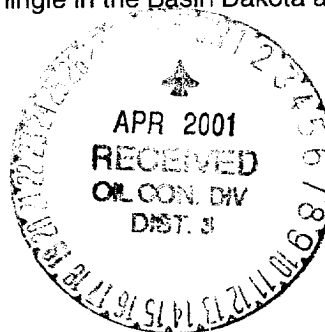
1650' FSL & 790' FWL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>DHC</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Conoco proposes to recompleate this well and downhole commingle in the Basin Dakota and Wild Horse Gallup using the attached procedure.



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

DEBORAH MARBERRY

Title

REGULATORY ANALYST

Signature

Date

04/06/2001

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

/s/ Brian W. Davis

Title

Lands and Mineral Resources

Date

APR 24 2001

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Down Hole Commingle Procedure  
Apache 2

Objective: To remove the dual tubing strings, clean out any fill over the Gallup perforations, install a single 2 1/16" tubing string through the existing permanent packer bore (with no seal assembly there is ample room to allow communication between the Gallup and Dakota formations).

Well Information:

Casing: 5 1/2" 14 lb/ft 1077'- 4952'  
5 1/2" 15.5 lb/ft 0'-1077' and 4952-6457'  
5 1/2" 17 lb/ft 6457'- 8126'  
14 lb Capacity - .0244 bbls/ft or 1.0249 gals/ft  
15.5 lb Capacity - .0238 bbls/ft or .9997 gals/ft  
17 lb Capacity - .02324 bbls/ft or .9764 gals/ft  
PBSD 8098'

Current Tubing: Gallup 1.66" O.D. set to 7342'  
Dakota 1.66" set to 7959'  
Baker Model D Packer at 7770'

Proposed Tubing: 2 1/16" to 7950'  
Capacity - .002979 bbls/ft or .1251 gals/ft

Perforations: Gallup 7328' - 42'  
Dakota 7806' - 14', 7818' - 23', 7942' - 48',  
7952' - 56', 7982' - 94'

Procedure:

1. Hold pre -job safety meetings.
2. Kill well with 1% KCl water if not already dead. Both zones should blow down, but if KCl water is necessary, use the minimum volume.
2. Rig up pulling unit.
3. Install BOP
4. Pull and lay down 1.66" Gallup tubing string
5. Pull and lay down 1.66" Dakota tubing string. If unable to get the seal assembly out of the Model D production packer, shut down, move rig off and prepare procedure for abandonment of the well.
6. If able to pull the 1.66" Dakota string and seal assembly, RIH with 2 1/16" tubing and bailer. Clean out to below Dakota perforations. Note: PBSD is at 8098., FOOH with bailer

7. RIH with 2 1/16" tubing to approx. 7950' with seating nipple for plunger lift installation.
8. Nipple down BOP and nipple up re-conditioned wellhead and plunger lift system for 2 1/16" tubing.
9. Connect to sales and swab well in.
10. Rig down pulling unit.

Pat Bergman  
February 23, 2001

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

## SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**1. Type of Well  
☐ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
CONOCO, INC.3a. Address  
P.O. BOX 2197 DU 3066 HOUSTON TX 772523b. Phone No. ( include area code )  
(281)293-10054. Location of Well ( Footage, Sec., T., R., M., or Survey Description )  
L 18 26N 3W <sup>5/2</sup>  
1650' FSL & 790' FWL

5. Lease Serial No.

CONT 98

6. If Indian, Allottee or Tribe Name

JICARILLA

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

APACHE #2

9. API Well No.

30-039-20185

10. Field and Pool, or Exploratory Area

BASIN DAKOTA, WILD HORSE GALLU

11. County or Parish, State

RIO ARriba

NEW MEXICO

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>DHC</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

In reference to Order #R-11363 Conoco proposes to downhole commingle this well in the Wildhorse Gallup and Basin Dakota.

Perforations are:

Wildhorse Gallup 7328'-7342'

Basin Dakota 7806'-7994'

Allocation will be by subtraction method.

Commingling in this well will not reduce the value of the remaining production.

The BLM has been sent notice of our intent.

Interests are the same in all zones.

14. I hereby certify that the foregoing is true and correct

Name ( Printed/Typed )

DEBORAH MARBERRY

Title

REGULATORY ANALYST

Signature

Date

04/03/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

( Instructions on reverse )

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-20185		<sup>2</sup> Pool Code 87360		<sup>3</sup> Pool Name WILDHORSE GALLUP	
<sup>4</sup> Property Code 16056		<sup>5</sup> Property Name APACHE			<sup>6</sup> Well Number 2
<sup>7</sup> OGRID No. 005073		<sup>8</sup> Operator Name CONOCO, INC.			<sup>9</sup> Elevation

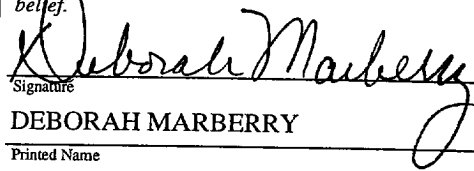
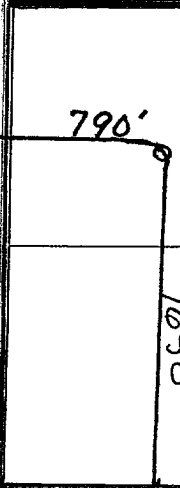
<sup>10</sup> Surface Location

UL or lot no. L	Section 18	Township 26N	Range 3W	Lot Idn	Feet from the 1650'	North/South line SOUTH	Feet from the 790'	East/West line WEST	County RIO ARRIBA
--------------------	---------------	-----------------	-------------	---------	------------------------	---------------------------	-----------------------	------------------------	----------------------

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No.									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup>				<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature DEBORAH MARBERRY Printed Name REGULATORY ANALYST Title 4/4/2001 Date
				<sup>18</sup> SURVEYOR CERTIFICATION <i>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 belief.</i>  Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-20185		<sup>2</sup> Pool Code 71599		<sup>3</sup> Pool Name BASIN DAKOTA	
<sup>4</sup> Property Code 16056		<sup>5</sup> Property Name APACHE			<sup>6</sup> Well Number 2
<sup>7</sup> OGRID No. 005073		<sup>8</sup> Operator Name CONOCO, INC.			<sup>9</sup> Elevation

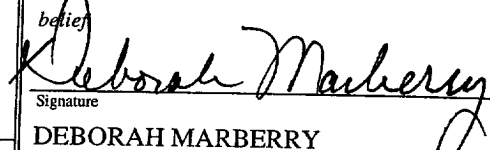
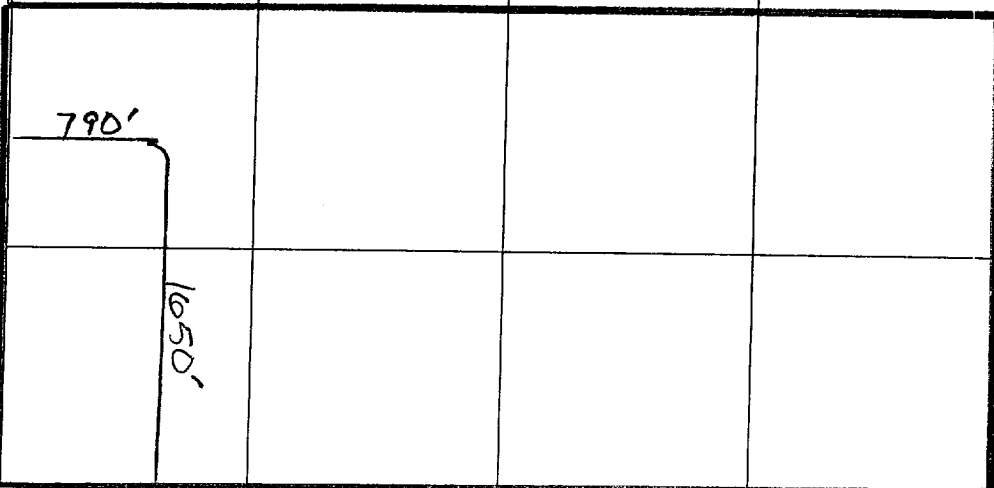
<sup>10</sup> Surface Location

UL or lot no. L	Section 18	Township 26N	Range 3W	Lot Idn	Feet from the 1650'	North/South line SOUTH	Feet from the 790'	East/West line WEST	County RIO ARRIBA
--------------------	---------------	-----------------	-------------	---------	------------------------	---------------------------	-----------------------	------------------------	----------------------

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No.									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup>				<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature DEBORAH MARBERRY Printed Name REGULATORY ANALYST Title 4/4/2001 Date	
				<sup>18</sup> SURVEYOR CERTIFICATION 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 belief.  Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number	

## Apache 2

### Rate Justification for Down Hole Commingling

The Apache 2 well was completed in the Gallup and Dakota formations using dual 1.66" tubing strings. The zones were isolated by a packer set between the zones. During a recent packer leakage test the zones were found to be in pressure communication. The well has been shut-in since the communication was found.

Approval is requested to down hole commingle the Gallup and Dakota zones in the subject well. Both zones produce some liquids. The Gallup zone has loaded up and is not capable of production with its current configuration and the Dakota is producing well below the minimum critical rate required to unload liquids from the well bore. Low rates have allowed liquids to accumulate in the wellbore, thereby preventing maximum production from this well. To optimize production it is recommended to pull the existing tubing strings from the well, and produce it using plunger lift in a single 2 1/16" tubing string. The 5 1/2" casing string is not large enough to accommodate two tubing strings large enough to isolate and plunger lift each zone. The expected production rate from the commingled well is 20 MCFD.

Production from the Dakota zones is established by ample production history. A production plot is attached showing best fit projections of future production for the Dakota. It is proposed that the subtraction method be used to allocate production between the Gallup and Dakota zones. Form 107A shows the Dakota volume to be subtracted.

Given the low producing rates from this well, if trouble is encountered during the workover, the well will be plugged.

*Subtraction*

