

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

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

Form C-107-A  
Revised August 1999

APPROVAL PROCESS:

Administrative ☐ Hearing ☐

EXISTING WELLBORE

☒ YES ☐ NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

Conoco Inc.

P.O. Box 2197 Houston, TX 77252-2197

Operator

Address

SAN JUAN 28-7

241

L4- SEC 9, T-28N, R7W

RIO ARRIBA

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

OGRID NO. 005073

Property Code 016608

API NO. 30-039-21081

Spacing Unit Lease Types: (check 1 or more)  
Federal ☒ State ☐ (and/or) Fee ☐

1. Pool Name and Pool Code	Blanco Mesa Verde 72319	Basin Dakota 71599
2. Top and Bottom of Pay Section (Perforations)	5030 - 5704 PROPOSED	7646 - 7844
3. Type of production (Oil or Gas)	GAS	GAS
4. Method of Production (Flowing or Artificial Lift)	EXPECTED TO FLOW	FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: Estimated Current All Gas Zones: Measured Current Estimated Or Measured Original	a. (Current) 450 b. (Original) 1250	a. 740 b. 3150
6. Oil Gravity (EAPI) or Gas BTU Content	1250	1120
7. Producing or Shut-In?	TO BE COMPLETED	FLOWING
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates: Date: Rates: EXPECTED RATE: 350 - 450 mcf/d	Date: Rates: Date: Rates: CURRENT RATE: 90 mcf/d
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: %	Oil: % Gas: %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☒ No

11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☐ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions:  
ORDER NO (S) R-10476-B

16. ATTACHMENTS:

- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of working, overriding, and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Deborah Moore TITLE Regulatory Analyst DATE 12/29/99

TYPE OR PRINT NAME Deborah Moore TELEPHONE NO (281) 293-1005

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

Form C-102  
Revised March 17, 1999

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 30-039-21081	<sup>2</sup> Pool Code 71599 / 72319	<sup>3</sup> Pool Name Basin Dakota / Blanco Mesaverde
<sup>4</sup> Property Code 016608	<sup>5</sup> Property Name San Juan 28-7	<sup>6</sup> Well Number 241
<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. L4	Section 9	Township 28N	Range 7W	Lot Idn	Feet from the 1690'	North/South line South	Feet from the 810'	East/West line West	County Rio Arriba
---------------------	--------------	-----------------	-------------	---------	------------------------	---------------------------	-----------------------	------------------------	----------------------

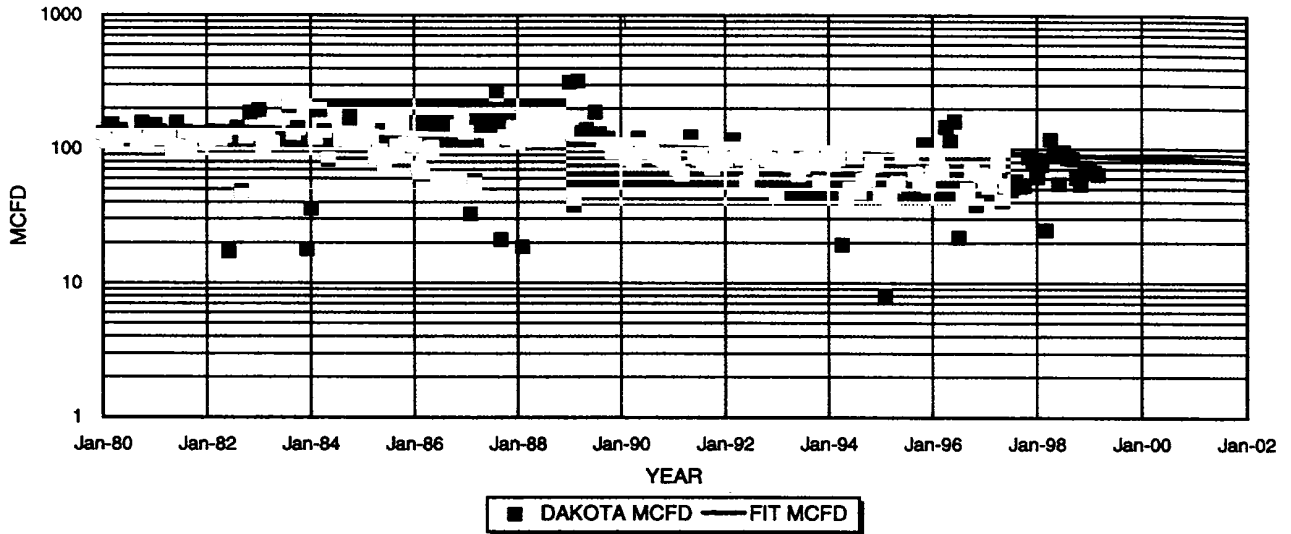
<sup>11</sup> Bottom Hole Location If Different From Surface

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 160/80	<sup>13</sup> Joint or Infill I	<sup>14</sup> Consolidation Code U	<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 <u>Deborah Moore</u> Printed Name Deborah Moore Title Regulatory Analyst Date <u>12/29/99</u>			
					<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 Surveyer:  Certificate Number			

**SJ 28-7 #241 DAKOTA PRODUCTION  
SECTION 9L-28N-07W, RIO ARriba COUNTY, NEW MEXICO**

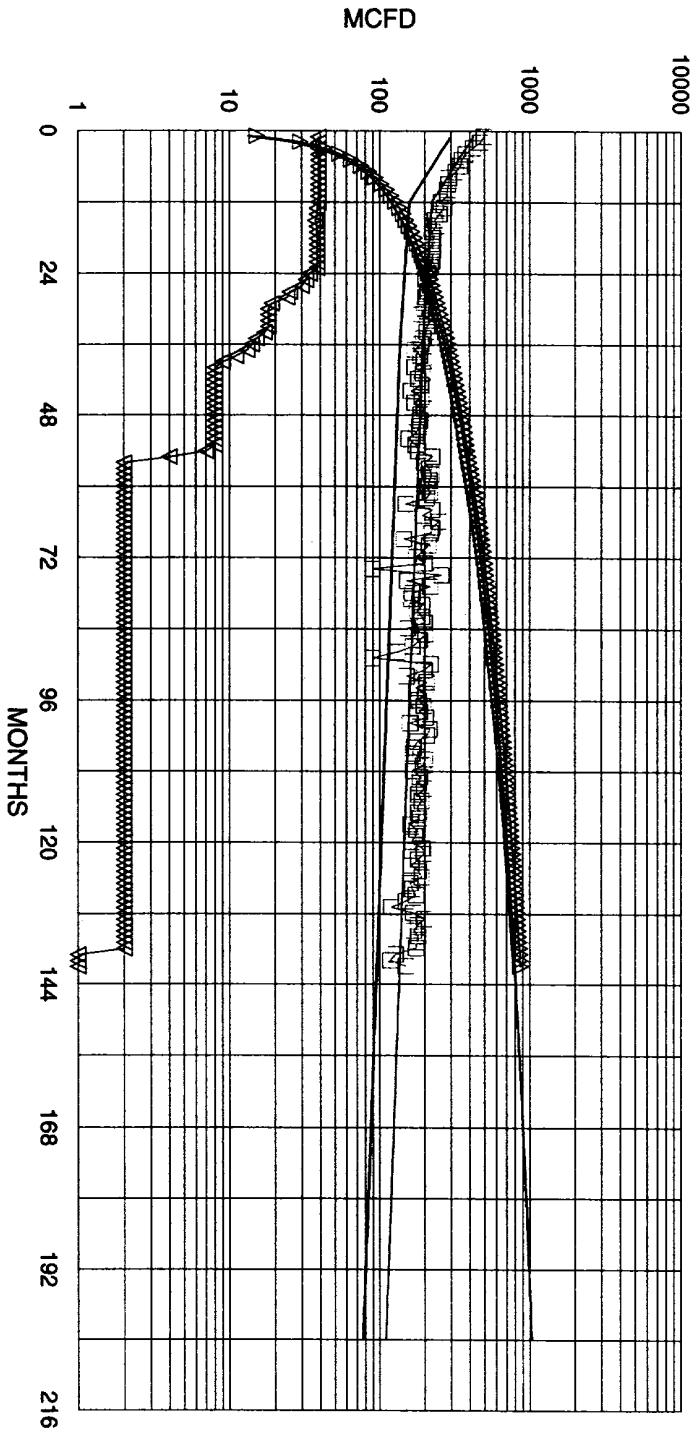


<b>DAKOTA PRODUCTION</b>		<b>1ST PROD: 11/75</b>		<b>DAKOTA PROJECTED DATA</b>	
OIL CUM:	7.93	MBO		Jan.00 Qi:	87
GAS CUM:	910.7	MMCF		DECLINE RATE:	3.0%
OIL YIELD:	0.0087	BBL/MCF			(EXPONENTIAL)
				API #30-039-21081	

PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

YEAR	MID-YEAR	MID-YEAR
	AVG. MCFD	AVG. BOPD
2000	85	1
2001	83	0
2002	80	0
2003	78	0
2004	76	0
2005	73	0
2006	71	0
2007	69	0
2008	67	0
2009	65	0
2010	63	0
2011	61	0
2012	59	0
2013	57	0
2014	56	0
2015	54	0
2016	52	0
2017	51	0
2018	49	0
2019	48	0
2020	46	0
2021	45	0
2022	44	0
2023	42	0
2024	41	0
2025	40	0
2026	39	0
2027	38	0

**NORMALIZED MESAVERDE PRODUCTION**  
PROD. SINCE 1985: 39 MV WELLS LOCATED IN 28N-7W (37 wells are 1990's completions)



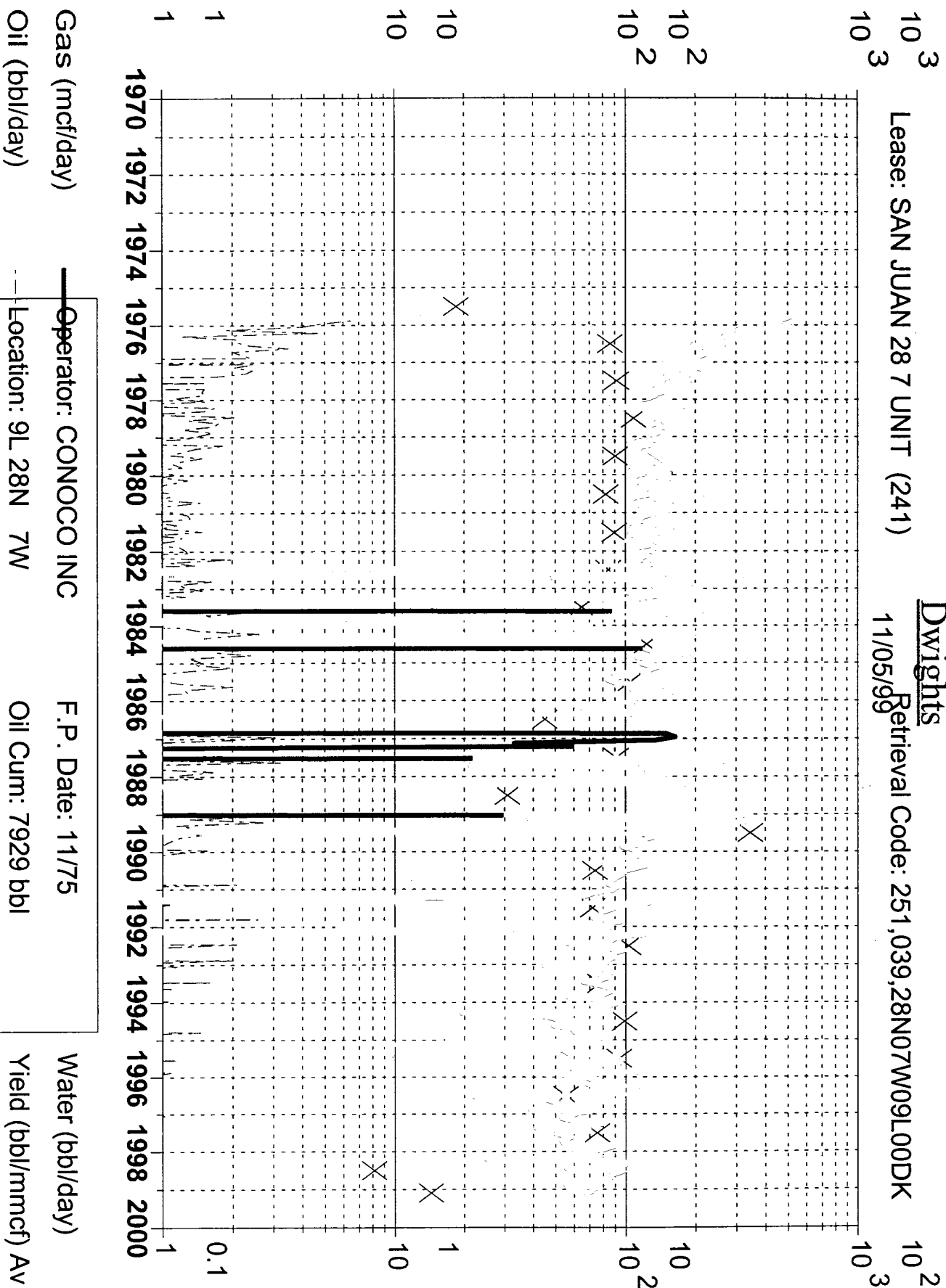
Expected Mesaverde Production - 325 MCFD for Yr. 1

NORMALIZED AVG:		RISKED AVG:	
1788 MMCF EUR	450 MCFD IP	30% RISK	
1145 MMCF IN 20 YRS	50% DECLINE, 1ST 12 MONTHS	1184 MMCF EUR	315 MCFD IP
25 MCFD E.L.	7% DECLINE, NEXT 24 MONTHS	802 MMCF IN 20 YRS	50.0% DECLINE, 1ST 12 MONTHS
0.0139 bbl/mcf oil yield	4% FINAL DECLINE	25 MCFD E.L.	7.0% DECLINE, NEXT 24 MONTHS
		0.0139 bbl/mcf oil yield	4.0% FINAL DECLINE

Lease: SAN JUAN 28 7 UNIT (241)

Dwights  
11/05/99

Retrieval Code: 251,039,28N07W09L00DK



Gas (mcf/day)

Oil (bbl/day)

Operator: CONOCO INC

Location: 9L 28N 7W

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

F.P. Date: 11/75

Oil Cum: 7929 bbl

Gas Cum: 899.9 mmcf

L.P. Date: 02/99

Water (bbl/day)

Yield (bbl/mmcf) Av

X

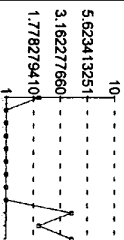
Lease: SAN JUAN 28 7 UNIT  
 Field: BASIN (DAKOTA) DK  
 Operator: CONOCO INC  
 RCI #: 251,039,28N07W09L00DK  
 API #: 30-039-21081-00

Well #: 241  
 Location: 9L 28N 7W  
 Liquid Cum: 7,929 bbls  
 Gas Cum: 899,943 mcf  
 Status: ACT GAS

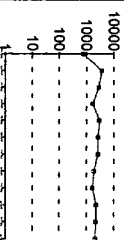
FP Date: 75-11  
 LP Date: 99-02  
 Liq Since: FPD  
 Gas Since: FPD

DATE	OIL, BBLs	GAS, MCF	WATER, BBLs	WELLS
03/1998	2	759	2	1
04/1998	0	3,655	0	1
05/1998	0	2,828	0	1
06/1998	0	1,686	0	1
07/1998	0	2,933	0	1
08/1998	0	2,640	0	1
09/1998	0	2,605	0	1
10/1998	0	1,877	0	1
11/1998	0	1,671	0	1
12/1998	4	2,250	4	1
01/1999	2	2,174	2	1
02/1999	4	2,053	4	1
Total	12	27,131	12	

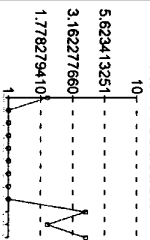
#### Oil Production



#### Gas Production



#### Water Production



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

SF 078497A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

San Juan #241

9. API Well No.

30-039-21081

10. Field and Pool, or Exploratory Area

72319 - Blanco Mesaverde

11. County or Parish, State

Rio Arriba, NM

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

CONOCO, INC.

3. Address and Telephone No.

P.O. Box 2197 DU 3066 Houston, TX 77252-2197 (281) 353-0792

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

L4, Sec. 9, T28N, R7W  
1690' ESL & 810' FWL

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

**TYPE OF SUBMISSION**

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

**TYPE OF ACTION**

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Conoco proposes to recomplete this well to the Blanco Mesaverde using the attached procedure.

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

Signed

Title

Regulatory Analyst

Date

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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.

\*See Instruction on Reverse Side

**San Juan 28-7 Unit, Well #241  
Recomplete to Mesaverde,  
& DHC with Dakota  
November 3, 1999**

**AFE # 2531**

**API# 300392108100**

**Location:** T-28N, R-7W, Sec-9, 1690'S, 810'W.

**Objective**

Funds are requested in the amount of \$122,500 to perforate and stimulate the Mesaverde formation and produce down hole commingled with the Dakota in the #241 wellbore. The Dakota formation in San Juan 28-7 Unit well #241 is currently producing at an average of approximately 90 Mcfd. This recompletion should provide an additional 300 MCFD uplift using existing 2.375" tubing and plunger lift.

As stated, the #241 is producing at a rate of 90MCFPD with an EUR of 1.96BCF. The EUR's from the Mesaverde producing wells in the area around #241 range from 1.3BCF to 3.3BCF per well and 2.2BCF from the direct offset, well #21. It is anticipated that the #241 Mesaverde recompletion will have an EUR in excess of 2BCF. All 3-sand intervals in the Mesaverde are better developed when compared with the Mesaverde wells in the area. #241 has 259' of potential reservoir quality sand.

**Well Data**

Surface casing: 9.625", 32.30#, 5 jts. set @ 214', cmt circ to surface.

Intermediate Casing size: 7"OD, 6.37" ID, 23#, 87 jts., set @ 3597', w/138 sx. cmt, TOC @ 2450' by TS.

Production Casing size: 4.5" OD, 4.05" ID, 10.5#, J-55, 200 jts., set @ 6462'.

4.5" OD, 4.00" ID, 11.6#, J-55, 36 jts., set @ 7874', w/ 349 sx. cmt, TOC @ 3250' by TS.

Production Tubing size: 2.375" OD, 1.9961" ID, 4.70#, J-55, 246 jts. landed @ 7726' w/1.78 SN & mule shoe on btm.

PBTD @ 7866', TD @ 7875'.

DK perfs from 7646' – 7680', & 7730' – 7844'.

Completion details and well history contained in Wellview files and schematics.



**San Juan 28-7 Unit, Well #241**  
**Recomplete to Mesaverde,**  
**& DHC with Dakota**  
**November 3, 1999**

**API# 300392108100**

**Location: T-28N, R-7W, Sec-9, 1690'S, 810'W.**

		Top	Bottom	
Sand	ft	5028	5057	29
Sand	ft	5074	5097	23
Sand	ft	5105	5108	3
Sand	ft	5151	5175	24
Sand	ft	5203	5208	5
Sand	ft	5210	5219	9
Sand	ft	5257	5280	23
Sand	ft	5318	5326	8
Sand	ft	5392	5410	18
Sand	ft	5416	5419	3
Sand	ft	5434	5440	6
Sand	ft	5521	5538	17
Sand	ft	5553	5558	5
Sand	ft	5563	5584	21
Sand	ft	5610	5627	17
Sand	ft	5630	5664	34
Sand	ft	5677	5682	5
Sand	ft	5695	5704	9
Sand			Total	259'

**Proposed Perforation Depths:**

**1<sup>st</sup> Stage:** 5394, 98,5402, 06, 10, 16, 19, 36, 40, 5522, 26, 30, 34, 54, 58, 64, 68, 72, 76, 80, 5612, 16, 20, 24, 32, 36, 40, 44, 48, 52, 56, 60, 64, 78, 82, 96, 5700, 04, (135' of pay) 38 holes

**2<sup>nd</sup> Stage:** 5030, 34, 38, 42, 44, 48, 52, 56, 76, 80, 84, 88, 92, 96, 5106, 52, 56, 60, 64, 68, 72, 5203, 07, 12,16, 58, 62, 66, 70, 74, 78, 5320, 24. (124' of pay) 33 holes.

**San Juan 28-7 Unit, Well #241**  
**Recomplete to Mesaverde,**  
**& DHC with Dakota**  
**November 3, 1999**  
**AFE# 2531**

**API# 300392108100**

**Location: T-28N, R-7W, Sec-9, 1690'S, 810'W.**

**Procedure**

- 1) Move in workover rig, hold safety meeting, note prevailing wind direction at location, designate muster point, review procedure, identify potential hazards, isolate lines and facilities, blow down lines, lock out tag out, spot equipment, rig up, **WORK SAFELY!**
- 2) Kill tubing and POOH standing back.
- 3) Set BP @ approx 5750'. Fill hole w/ fluid. . Pressure test casing /plug to 3000#.
- 4) Rig up wireline, perforate Mesaverde formation for 1<sup>st</sup> Stage: 5394, 98,5402, 06, 10, 16, 19, 36, 40, 5522, 26, 30, 34, 54, 58, 64, 68, 72, 76, 80, 5612, 16, 20, 24, 32, 36, 40, 44, 48, 52, 56, 60, 64, 78, 82, 96, 5700, 04, (135' of pay) 38 holes.
- 5) RIH with treating packer and basket on tubing, spot acid across perms, pull up and set packer @ 5250', break down perms with 1,000 gal. acid while balling off, unseat packer and knock off balls, POOH packer and junk basket, count hits.
- 6) Rig up stimulation company and perform 1<sup>st</sup> stage slickwater frac as per stimulation company procedure.
- 7) Perform 10 minute ISIP. Flow back until pressure dies.
- 8) Rig up wireline set composite BP @ 5355'. Pressure test plug to 3000#.
- 9) Rig up wireline and perforate MV for 2<sup>nd</sup> Stage: 5030, 34, 38, 42, 44, 48, 52, 56, 76, 80, 84, 88, 92, 96, 5106, 52, 56, 60, 64, 68, 72, 5203, 07, 12,16, 58, 62, 66, 70, 74, 78, 5320, 24. (124' of pay) 33 holes.
- 10) RIH treating packer & basket on tubing, spot acid across perms, pull up & set packer @ 4900', break down perms with 1,000 gal. acid while balling off, unseat packer and knock off balls, POOH packer & basket, count hits.
- 11) Perform 2<sup>st</sup> stage slickwater frac as per stimulation company procedure.
- 12) Perform 10 minute ISIP. Flow back immediately until well dies or cleans up.
- 13) RIH w/ bit and drill collars & cleanout using gas; drill out first BP (5355'); cleanout to second BP (5750'). Upon obtaining stabalized rate, proceed to drillout last BP; cleanout to PBTD. Submit zone tests to Trigon; Marc Shannon for DHC allocations (90 MCF/d for DK; remainder for MV POOH bit and collars.
- 14) RIH and land tubing @ 7646', **be careful not to over torque, drop rabbit, make drift run with sand line to SN before rigging down.** Notify operator to put on DHC plunger lifted production.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

CONOCO, INC.

3. Address and Telephone No.

P.O. Box 2197 DU 3066 Houston, TX 77252-2197 (281) 353-0792

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

L4, Sec. 9, T28N, R7W  
1690' FSL & 810' FWL

5. Lease Designation and Serial No.

SF 078497A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

San Juan #241

9. API Well No.

30-039-21081

10. Field and Pool, or Exploratory Area

72319 - Blanco Mesaverde

71599 - Basin Dakota

11. County or Parish, State

Rio Arriba, NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Downhole Commingle  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Conoco proposes to downhole commingle this well in the Blanco Mesaverde & Basin Dakota.

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

Signed \_\_\_\_\_ Title Regulatory Analyst Date \_\_\_\_\_

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

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.

\*See Instruction on Reverse Side