

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMSF079290
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator CONOCO INC		7. If Unit or CA Agreement, Name and No.
Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com		8. Lease Name and Well No. SAN JUAN 28-7 UNIT 164M
3a. Address PO BOX 2197, DU 3084 HOUSTON, TX 77252-2197	3b. Phone No. (include area code) Ph: 915.686.5799 Ext 5799	9. API Well No. 30-039-27026
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENE 2300FNL 1070FEL / At proposed prod. zone		10. Field and Pool, or Exploratory BLANCO MESAVERDE 10K
14. Distance in miles and direction from nearest town or post office*		11. Sec., T., R., M., or Blk. and Survey or Area H Sec 13 T28N R7W Mer NMP
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease BY <u>14</u>	12. County or Parish RIO ARRIBA
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7977 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6709 GL	22. Approximate date work will start	17. Spacing Unit dedicated to this well 320.00 E/2
24. Attachments		20. BLM/BIA Bond No. on file ES0085
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4		23. Estimated duration DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 06/03/2002
Title AUTHORIZED SIGNATURE		
Approved by (Signature) David J. Mankiewicz	Name (Printed/Typed)	Date OCT 16 2002
Title	Office	

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

Additional Operator Remarks (see next page)

Electronic Submission #11687 verified by the BLM Well Information System
For CONOCO INC, sent to the Farmington
Committed to AFMSS for processing by Lucy Bee on 06/06/2002 (02LXB0946AE)

** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED **

NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-27026		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 016608	*Property Name SAN JUAN 28-7 UNIT		*Well Number 164M
*OGRID No. 005073	*Operator Name CONOCO, INC.		*Elevation 6709'

¹⁰ Surface Location

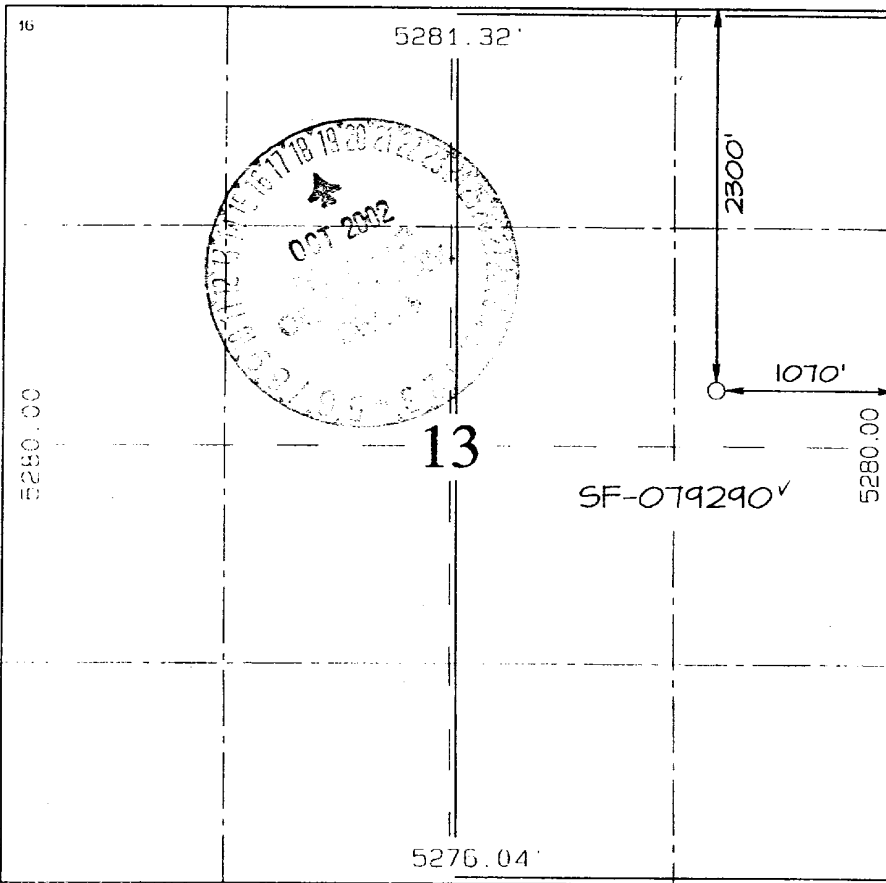

UL or lot no. H	Section 13	Township 28N	Range 7W	Lot Idn	Feet from the 2300	North/South line NORTH	Feet from the 1070	East/West line EAST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

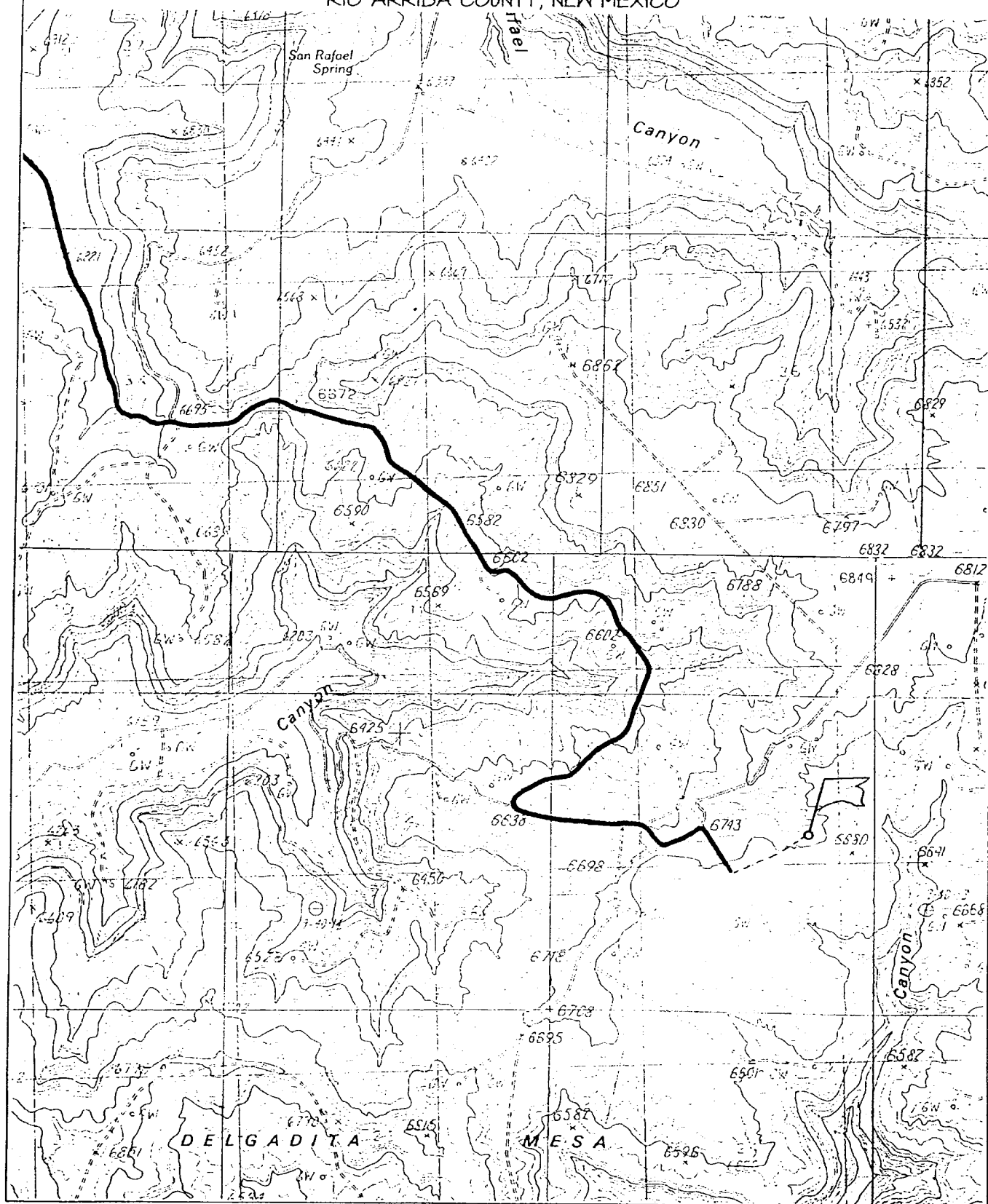
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320.0 Acres - (E/2) /	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div><p>¹⁶</p></div>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Vicki Westby</i> Signature Vicki R. Westby Printed Name Sr. Title Analyst Title May 16, 2002 Date</p>
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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</p> <p>Survey Date: FEBRUARY 7, 2002</p> <p>Signature and Seal of Professional Surveyor</p> <div><p><i>Jason C. Edwards</i> Certificate Number 15269</p></div>

2300' FNL & 1070' FEL, SECTION 13, T28N, R7W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



PROJECT PROPOSAL - Completion



SAN JUAN 28-7 164M

(Not Assigned) San Juan Business Unit

Lease :

AFE # :

AFE \$:

Field Name : EAST 28-7

Rig :

State : NM

County : RIO ARRIBA

API # :

Geoscientist :

Phone

Prod. Engineer

Phone :

Res. Engineer :

Phone

Proj. Field Lead

Phone :

Primary Objective (Zones) :

Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location : Surface

Latitude : 36.66

Longitude : -107.52

X :

Y :

Section : 13

Abstract : 7W

Footage X : 1070 FEL

Footage Y : 2300 FNL

Elevation: 6709

(FT) Survey : 28N

Tolerance

Location Type :

Start Date (Est.)

Completion Date :

Date In Operation :

Formation Data Assume KB

6722 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6522	<input type="checkbox"/>			Severe lost circulation is possible. 12 1/4" Hole. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface.
OJAM	2592	4130	<input type="checkbox"/>			Possible water flows
KRLD	2742	3980	<input type="checkbox"/>			
FRLD	3222	3500	<input type="checkbox"/>			Possible gas
PCCF	3472	3250	<input type="checkbox"/>			
LEWS	3672	3050	<input type="checkbox"/>			
Intermediate Casing	3772	2950	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4422	2300	<input type="checkbox"/>			
CLFH	5142	1580	<input type="checkbox"/>	1300		Gas; possibly wet
MENF	5317	1405	<input type="checkbox"/>			Gas
PTLK	5647	1075	<input type="checkbox"/>			Gas
MNCS	5947	775	<input type="checkbox"/>			
GLLP	6922	-200	<input type="checkbox"/>			
GRHN	7627	-905	<input type="checkbox"/>			Gas possible, highly fractured
TWLS	7722	-1000	<input type="checkbox"/>			Gas
Re Ir CBBO	Well Name 7847	-1125	Comments <input type="checkbox"/>			Gas
Total Depth	7977	-1255	<input type="checkbox"/>	3000		6 1/4" Hole. 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

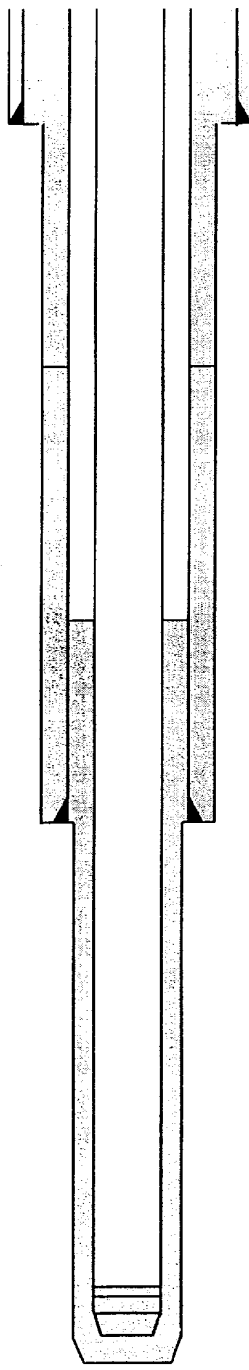
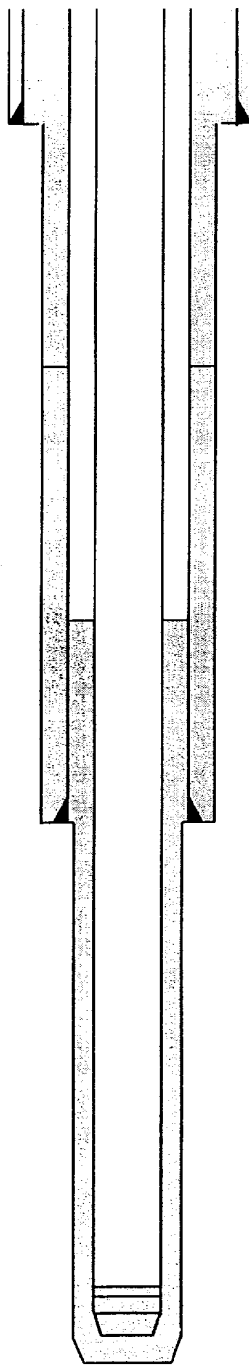
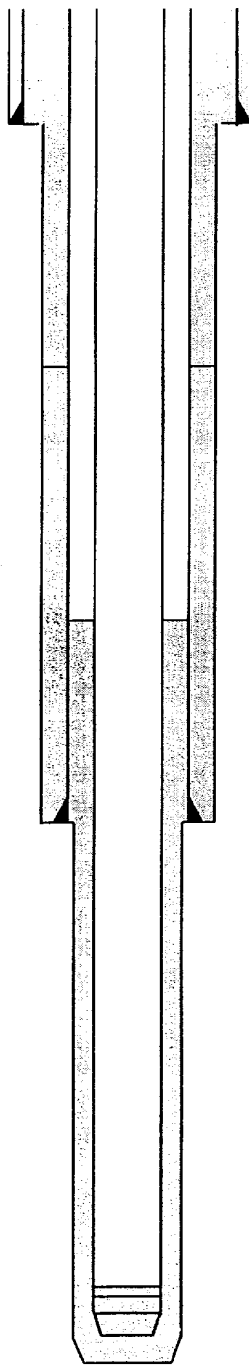
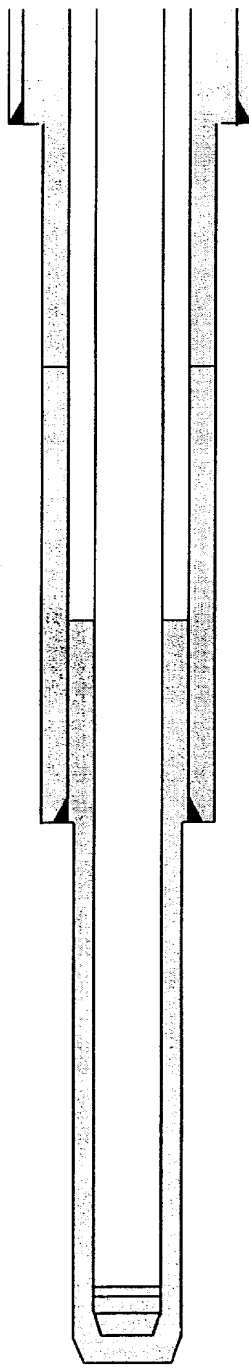
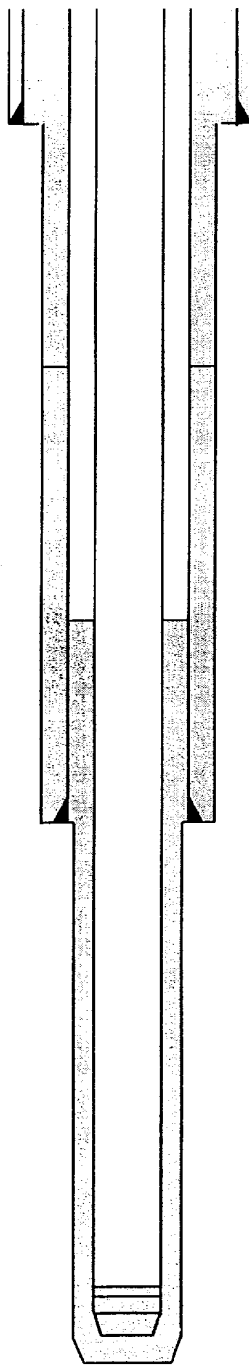
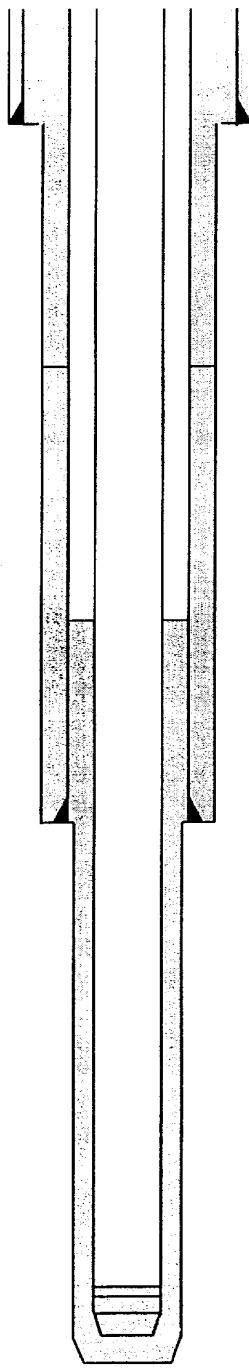
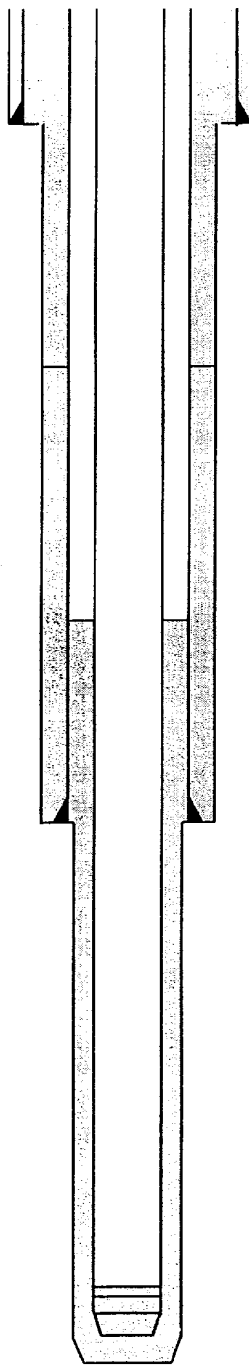
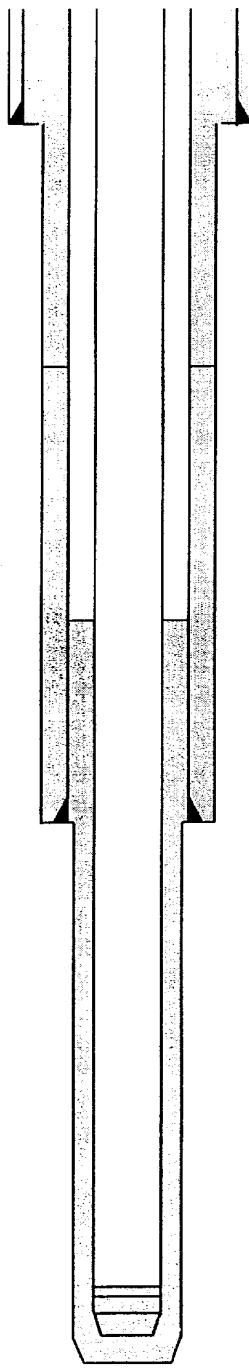
Production:

Well Name

Comments

Cementing Summary

San Juan 28-7 164M (v1.0)

		OH					
		Depth	Excess				
	9-5/8" Sfc Casing	0		Class 'H' Cement	134.6 sx	Slurry Volume	142.6 cu ft
				Flocele (if req'd)	0.25 lb/sk		25.4 bbl
				CaCl2	2.0% bwoc-db	Slurry Density	16.4 ppg
				Defoamer (if req'd)	0.05 gal/bbl	Slurry Yield	1.06 cu ft/sk
	9-5/8" shoe	200	100%			Mix Fluid	4.33 gal/sk
<hr/>							
	7" Lead Cement	150%		Blend	419.75 sx	Slurry Volume	1187.9 cu ft
				Class 'H' Cement	84 lb/sk		211.6 bbl
				San Juan Poz	lb/sk	Slurry Density	11.4 ppg
				Econolite	3.0% bwob	Slurry Yield	2.83 cu ft/sk
				CaCl2	bwob	Mix Fluid	17.29 gal/sk
				CFR-3	bwob		
				HR-5	bwob		
	7" Top of Tail	3,272		Silicalite-blended	10 lb/sk		
				Flocele	0.5 lb/sk		
				Defoamer (if req'd)	0.05 gal/bbl		
	7" Tail Cement	150%		Blend	173.96 sx	Slurry Volume	207.0 cu ft
				Class 'H' Cement	100% bwob		36.9 bbl
				San Juan Poz	lb/sk	Slurry Density	15.6 ppg
				Econolite	bwob	Slurry Yield	1.19 cu ft/sk
				CaCl2	1.00% bwob	Mix Fluid	5.2 gal/sk
				CFR-3	bwob		
				HR-5	bwob		
	4.5" TOC	2,772		Silicalite-blended	bwob		
				Flocele	0.25 lb/sk		
				Gilsonite	lb/sk		
				Defoamer (if req'd)	0.05 gal/bbl		
	7" Casing Intermediate	3,772	150%				
<hr/>							
	4.5" Cement	50%		Blend	449.98 sx	Slurry Volume	765.0 cu ft
				Class 'H' Cement	47 lb/sk		136.2 bbl
				San Juan Poz	24 lb/sk	Slurry Density	12.8 ppg
				Bentonite	3.00% bwob	Slurry Yield	1.70 cu ft/sk
				Halad-344	0.40% bwoc	Mix Fluid	8.26 gal/sk
				CFR-3	0.20% bwoc		
				HR-5	0.10% bwoc		
				Silicalite-blended	20 lb/sk		
				Flocele	0.25 lb/sk		
				Defoamer (if req'd)	0.05 gal/bbl		
	4-1/2" Casing Production	7,977	50%				

Note: Conoco to verify casing depths.

Cathodic Protection System Description

Anode Bed Type	Deep Well	
Hole Size	8"	
Hole Depth	200' - 500'	As required to place anodes below moisture and in low resistance strata.
Surface Casing	8" Diam., \geq 20' Length. Cemented In Annular Space	When needed, casing will be installed at an adequate depth to control ground water flow. Casing will extend a minimum of 2' above grade, be surrounded by a concrete pad, and sealed with a PVC cap. Steel casing will be substituted when boulders are encountered.
Vent Pipe	1" Diam. PVC	Vent pipe will extend from bottom of hole, through top of casing cap, and sealed with a 1" perforated PVC cap.
Type Of Anodes	Cast Iron Or Graphite	
Number Of Anodes	8 - 20	Sufficient quantity to achieve a total anode bed resistance of < 1 ohm and a design life \geq 20 years.
Anode Bed Backfill	Lorasco SW Calcined Petroleum Coke Breeze	Installed from bottom of hole to 10' above top anode.
Anode Junction Box	8 - 20 Circuit Fiberglass Or Metal	Sealed to prevent insect & rodent intrusion.
Current Splitter Box	2 - 5 Circuit Metal	Sealed to prevent insect & rodent intrusion.
DC / AC Cable	DC: #2, #4, #6, #8 Stranded Copper (One Size Or Any Combination Of) With High Molecular Weight Polyethylene (HMWPE) Insulation. AC: #8 Stranded Copper HMWPE	18" depth in typical situation, 24" depth in roadway, & 36" depth in arroyos and streams. EXCEPTION: If trenching is in extremely hard substratum, depth will be 8 - 12" with cable installed in conduit. Installed above foreign pipelines if 1' clearance is available. If not, installed under foreign pipeline with 1' clearance (AC cable always installed under foreign pipeline in conduit).
Power Source	1) Rectifier 2) Solar Power Unit 3) Thermoelectric Generator	Choice of power source depending on availability of AC & other economic factors.
External Painting	Color to be selected according to BLM specifications.	Paint applied to any surface equipment associated with the CP system which can reasonably be painted.

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

WELL API NO. 30-039-27026

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unti Agreement Name
SAN JUAN 28-7 UNIT

8. Well No. 164M

9. Pool name or Wildcat
BLANCO MESAVERDE / BASIN DAKOTA

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well:
Oil Well ☐ Gas Well ☒ Other

2. Name of Operator CONOCO, INC.

3. Address of Operator P.O. BOX 2197 WL3 3044HOUSTONTX77252

4. Well Location

Unit Letter H 2300 feet from the NORTH line and 1070 feet from the EAST line

Section 13 Township 28N Range 7W NMPM County RIO ARRIBA

10. Elevation (Show whether DR, RKB, RT, GR, etc.)
6709

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: DHC ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOBS ☐

OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work). SEE RULE 1103. For Multiple Completions: Attach diagram of proposed completion or recompletion.

In reference to Order #R-11363 Conoco proposes to downhole commingle in the Blanco Mesaverde and Basin Dakota

Proposed perforations are:
Blanco Mesaverde 5142' - 5947'
Basin Dakota 7722' - 7977'

Allocation will be by test

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

BLM has been notified of our intent.

In reference to Order #R-10476-B interest owners were not notified.

DHC 980AZ

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

SIGNATURE Deborah Marberry TITLE REGULATORY ANALYST DATE 11/06/2002

Type or print name DEBORAH MARBERRY

Telephone No. (832)486-2326

(This space for State use)

Original Signed by STEVEN N. HAYDEN

DEPUTY OIL & GAS INSPECTOR, DIST. 43 NOV - 8 2002

APPROVED BY _____ TITLE _____ DATE _____

Conditions of approval, if any:



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

¹ API Number 30-039-27026	² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 016608	⁵ Property Name SAN JUAN 28-7 UNIT	⁶ Well Number 164 <i>M</i>
⁷ OGRID No. 005073	⁸ Operator Name CONOCO, INC.	⁹ Elevation 6709

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	13	28N	7W		2300	NORTH	1070	EAST	RIO ARRIBA

¹¹ 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

¹² Dedicated Acres 320 E/2	¹³ Joint or Infill I	¹⁴ Consolidation Code U	¹⁵ Order No.
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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

¹⁶					¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> <i>Deborah Marberry</i> Signature DEBORAH MARBERRY Printed Name REGULATORY ANALYST Title 11/06/2002 Date ¹⁸ 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 IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
30-039-27026		71599		BASIN DAKOTA	
⁴ Property Code		⁵ Property Name			⁶ Well Number
016608		SAN JUAN 28-7 UNIT			164 m
⁷ OGRID No.		⁸ Operator Name			⁹ Elevation
005073		CONOCO, INC.			6709

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	13	28N	7W		2300	NORTH	1070	EAST	RIO ARRIBA

¹¹ 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
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12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320 E/2	I	U	

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

16					

NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

2300

1670

17 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: DEBORAH MARBERRY

Title: REGULATORY ANALYST

Date: 11/06/2002

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plan 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: _____