

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. NM-03521
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 297
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799	9. API Well No. 30-039-26786
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWSW 1060FSL 890FWL At proposed prod. zone		10. Field and Pool, or Exploratory BLANCO P.C. SO/BASIN F.C.
14. Distance in miles and direction from nearest town or post office*		11. Sec., T., R., M., or Blk. and Survey or Area M Sec 17 T27N 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	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 3391 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc. 6600 GL	22. Approximate date work will start	17. Spacing Unit dedicated to this well 160SW-PC 320 W2-BFC
23. Estimated duration		20. BLM/BIA Bond No. on file

24. Attachments

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

- |                                                                                                                                                 |                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor.                                                                                                | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.                                                                                                                             | 5. Operator certification                                                                          |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature	Name (Printed/Typed) VICKI WESTBY	Date 07/19/2001
Title AUTHORIZED SIGNATURE		
Approved by (Signature)	Name (Printed/Typed)	Date SEP 21
Title /s/ Joel Farrett	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 #5804 verified by the BLM Well Information System  
For CONOCO INC., sent to the Farmington  
Committed to AFMSS for processing by Geneva McDougall on 07/20/2001 ()

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NMOCD

District II  
PO Drawer 00, Artesia, NM 88211-0719

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

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

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26786		*Pool Code 72439	*Pool Name BLANCO PICTURED CLIFFS, SOUTH
*Property Code 016608	*Property Name SAN JUAN 28-7 UNIT		*Well Number 297
*OGRIID No. 005073	*Operator Name CONOCO, INC.		*Elevation 6600'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	27N	7W		1060	SOUTH	890	WEST	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 <u>3300 acres W2 FRCL</u> 160.0 Acres (SW/4) PC					<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

<p>16</p>	<p>5294.52'</p>	<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>5472.06'</p>	<p>17</p>	<p>Signature <u>Kim Southall</u></p> <p>Printed Name <u>Kim Southall</u></p> <p>Property Analyst</p> <p>Title</p> <p>Date <u>April 24/2001</u></p>
<p>NM-03521</p>	<p>5260.20'</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>APRIL 19, 2001</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p>
<p>890'</p> <p>1060'</p>	<p>5472.06'</p>	<p>NEALE C. EDWARDS</p> <p>NEW MEXICO</p> <p>6857</p> <p>REGISTERED PROFESSIONAL SURVEYOR</p> <p>Certificate Number <u>6857</u></p>

1060' FSL & 890' FWL, SECTION 17, T27N, R7W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO



# PROJECT PROPOSAL - New Drill / Sidetrack



Well : SAN JUAN 28-7 297 Lease : SAN JUAN 28-7 AFE # : 0 (MV) AFE \$ :  
 Field Name : EAST 28-7 Rig : Aztec 433 State : County : API # :  
 Geoscientist : Layla Stiles Phone : (281) 293-3591 Prod. Engineer : Moody, Craig E. Phone : (281) 293 - 6559  
 Res. Engineer : Valvatne, Christine K. Phone : Proj. Field Lead : Phone :

## Primary Objective (Zones):

Pool	Pool Name
JCV	BASIN FRUITLAND COAL (GAS)
UPT	BLANCO P.C. SOUTH (PRORATED GAS)

*"Bud drilled"*

## Surface Location:

Latitude : 36.568558 Longitude : -107.6037 X : Y : Section : 17 Survey : 27N Abstract : 7W

## Bottom Hole Location:

Latitude : Longitude : X : Y : Section : Survey : Abstract :

Location Type : Start Date (Est.) : Completion Date : Date In Operation :

Formation Data : Assume KB = 6613 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	260	6353	<input checked="" type="checkbox"/>			Severe lost circulation is possible. 7", 20 ppf, J-55, STC casing. Circulate cement to surface.
OJAM	2144	4469	<input checked="" type="checkbox"/>			Possible water flows
KRLD	2283	4330	<input checked="" type="checkbox"/>			
FRLD	2578	4035	<input checked="" type="checkbox"/>			Possible gas
PCCF	3001	3612	<input checked="" type="checkbox"/>			
Total Depth	3391	3212	<input checked="" type="checkbox"/>			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.

## Logging Program:

Intermediate Logs : ☐ Log only if show ☐ GR / ILD ☐ Triple Combo  
 TD Logs : ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☒ TDT

Additional Information : Logging company to provide a sketch with all lengths, OD's & ID's of all tools prior to running in the hole.  
 Cased hole TDT with GR to surface.

Comments :



Well: San Juan 28-7 297  
County: Rio Arriba  
Area: East 28-7  
Rig: Key 43

Company: Conoco, Inc.  
Engineer: Mr. Ricky Joyce  
Date: 01-May-01

Surface Casing:

68 sx Type III Cement + 2%bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 60.6% H2O

Slurry Weight:	14.6	ppg
Slurry Yield	1.41	cf/sk
Amount of Mix Water	6.67	gps
Pump Time	2:00	
Compressives		
8 hrs @ 80 F	800	psi
24 hrs @ 80 F	2150	psi
48 hrs @ 80 F	3625	psi

Production Casing:

263 sx Premium Lite High Strength + 0.25 lbs/sk Cello Flake + .2% bwoc CD-32 + 0.65% bwoc FL-52 + 107% H2O

Slurry Weight:	12.5	ppg
Slurry Yield	2.07	cf/sk
Amount of Mix Water	11	gps
Pump Time	3:00	
Compressives		
8 hrs @ 140 F		psi
24 hrs @ 140 F	1600	psi
48 hrs @ 140 F	2000	psi



## Cathodic Protection System Description

<b>Anode Bed Type</b>	Deep Well	
<b>Hole Size</b>	8"	
<b>Hole Depth</b>	200' - 500'	As required to place anodes below moisture and in low resistance strata.
<b>Surface Casing</b>	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.
<b>Vent Pipe</b>	1" Diam. PVC	Vent pipe will extend from bottom of hole, through top of casing cap, and sealed with a 1" perforated PVC cap.
<b>Type Of Anodes</b>	Cast Iron Or Graphite	
<b>Number Of Anodes</b>	8 - 20	Sufficient quantity to achieve a total anode bed resistance of $< 1$ ohm and a design life $\geq 20$ years.
<b>Anode Bed Backfill</b>	Loreco SW Calcined Petroleum Coke Breeze	Installed from bottom of hole to 10' above top anode.
<b>Anode Junction Box</b>	8 - 20 Circuit Fiberglass Or Metal	Sealed to prevent insect & rodent intrusion.
<b>Current Splitter Box</b>	2 - 5 Circuit Metal	Sealed to prevent insect & rodent intrusion.
<b>DC / AC Cable</b>	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).
<b>Power Source</b>	1) Rectifier 2) Solar Power Unit 3) Thermoelectric Generator	Choice of power source depending on availability of AC & other economic factors.
<b>External Painting</b>	Color to be selected according to BLM specifications.	Paint applied to any surface equipment associated with the CP system which can reasonably be painted.