

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. SF-078640	
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. 16608	
Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com		8. Lease Name and Well No. SAN JUAN 28-7 UNIT 152E	
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705		9. API Well No. 30-039-26784	
3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799		10. Field and Pool, or Exploratory BLANCO MV/BASIN DK	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW 1130FNL 1635FWL At proposed prod. zone		11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T27N R7W Mer NMP	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish RIO ARRIBA	13. State NM
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	17. Spacing Unit dedicated to this well 320 1/2	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7498 MD	20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6522 GL	22. Approximate date work will start	23. Estimated duration	
24. Attachments		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.

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
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 07/20/2001
Title AUTHORIZED SIGNATURE		
Approved by (Signature) /s/ Joel Farrell	Name (Printed/Typed)	Date AUG 1
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 #5865 verified by the BLM Well Information System
For CONOCO INC., sent to the Farmington
Committed to AFMSS for processing by Lucy Bee on 07/26/2001 ()

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NMOCD

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

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

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 30039-26784		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 016608	*Property Name SAN JUAN 28-7 UNIT		*Well Number 152E
*GRID No. 005073	*Operator Name CONOCO, INC.		*Elevation 6522'

¹⁰ Surface Location

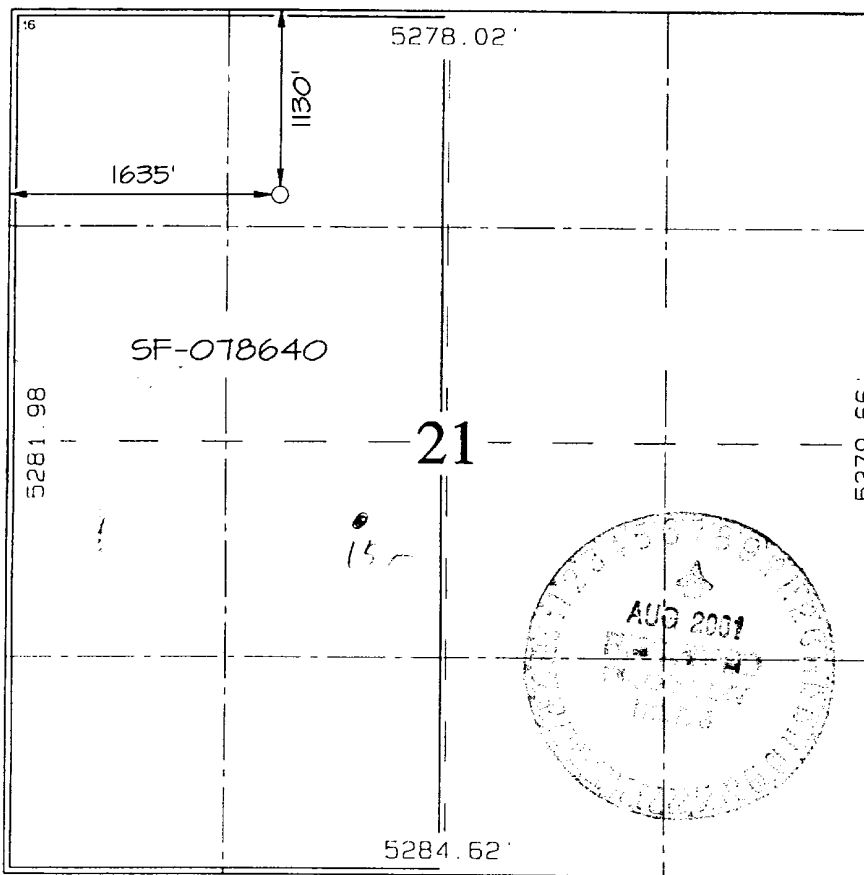
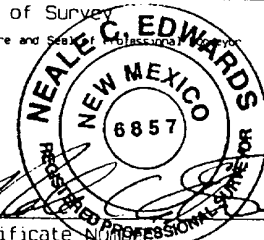
U. or lot no. C	Section 21	Township 27N	Range 7W	Lot Ion	Feet from the 1130	North/South line NORTH	Feet from the 1635	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

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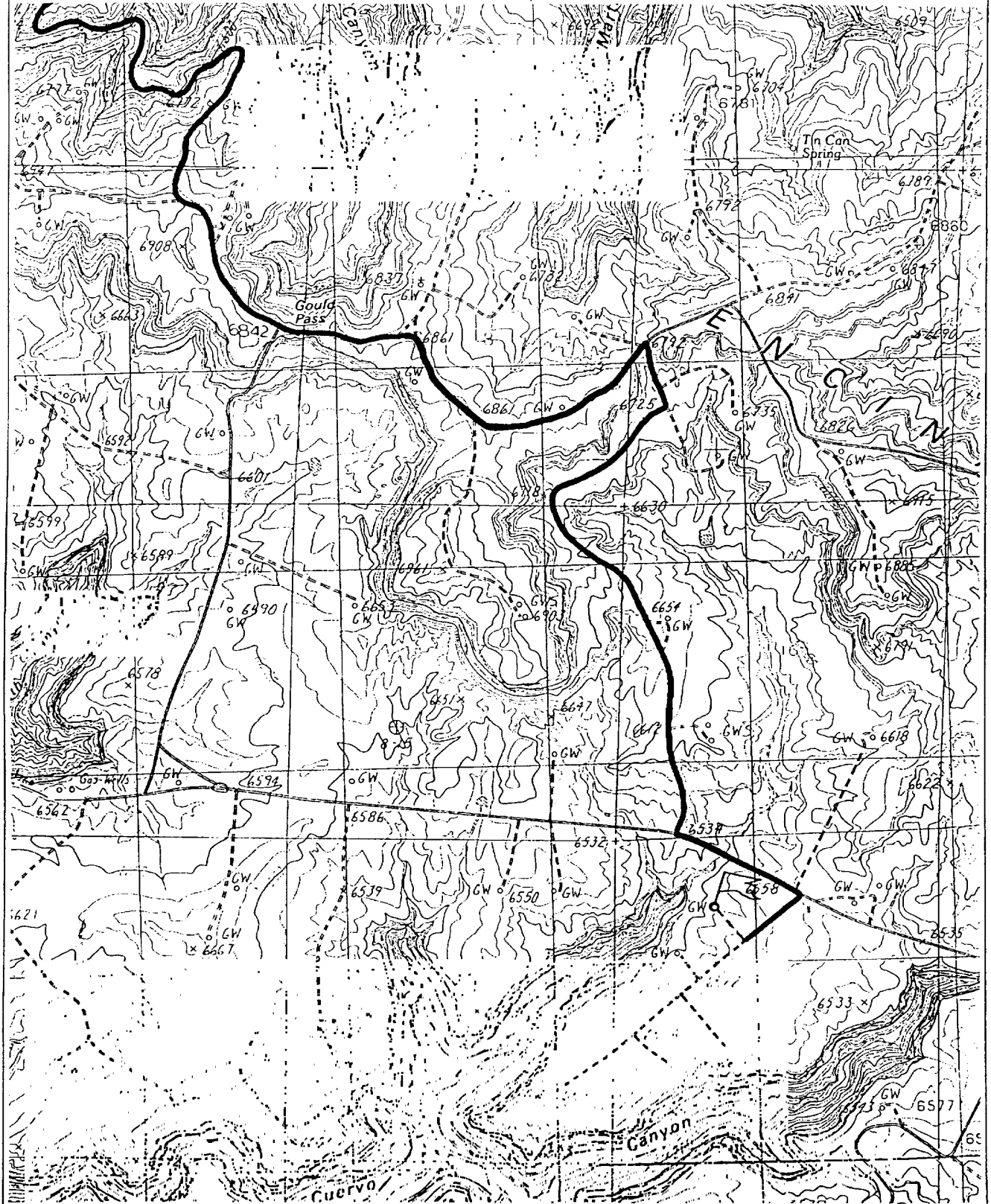
¹² Dedicated Acres 320.0 Acres (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Kim Southall</i> Signature Kim Southall Printed Name Property Analyst Title <i>April 20, 2001</i> Date
	¹⁸ 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. APRIL 4, 2001 Date of Survey Signature and Seal of Neale C. Edwards  Certificate Number 6857

CONOCO, INC. SAN JUAN 28-7 UNIT #152E

1130' FNL & 1635' FWL, SECTION 21, T27N, R7W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO



PROJECT PROPOSAL - New Drill / Sidetrack



Well : SAN JUAN 28-7 152E Lease : SAN JUAN 28-7 AFE # : AFE \$:
 Field Name : EAST 28-7 Rig : Key 43 State : NM County : Rio Arriba API # :
 Geoscientist : Glaser, Terry J Phone : (281) 293 - 6538 Prod. Engineer : Moody, Craig E. Phone : (281) 293 - 6559
 Res. Engineer : Valvatne, Christine K. Phone : (281) 293 - 5767 Proj. Field Lead : Phone :

Primary Objective (Zones):

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

"Air Drill"

Surface Location:

Latitude : 36.562747 Longitude : -107.5833 X : Y : Section : 21 Survey : 27N Abstract : 7W

Bottom Hole Location:

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

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

Formation Data : Assume KB = 6535 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	285	6250	<input checked="" type="checkbox"/>			Severe lost circulation is possible. 9 5/8", 36 ppf, J-55, STC casing. <u>Circulate cement to surface.</u>
OJAM	2105	4430	<input checked="" type="checkbox"/>			Possible water flows~
KRLD	2268	4267	<input checked="" type="checkbox"/>			
FRLD	2552	3983	<input checked="" type="checkbox"/>			Possible gas
PCCF	2932	3603	<input checked="" type="checkbox"/>			
LEW'S	3332	3203	<input checked="" type="checkbox"/>			
Intermediate Casing	3432	3103	<input checked="" type="checkbox"/>			7", 20 ppf, J-55, STC Casing. <u>Circulate cement to surface.</u>
CHRA	3860	2675	<input checked="" type="checkbox"/>			
CLFH	4640	1895	<input checked="" type="checkbox"/>	1300		Gas; possibly wet
MENF	4650	1885	<input checked="" type="checkbox"/>			Gas
PTLK	5200	1335	<input checked="" type="checkbox"/>			Gas
GLLP	6367	168	<input checked="" type="checkbox"/>			
GRHN	7150	-615	<input checked="" type="checkbox"/>			Gas possible, highly fractured
TWLS	7248	-713	<input checked="" type="checkbox"/>			Gas
CBBO	7392	-857	<input checked="" type="checkbox"/>			Gas
Total Depth	7498		<input checked="" type="checkbox"/>	3000		4 1/2", 10.5 ppf, J-55, STC casing. <u>Circulate cement a minimum of 100' inside the previous casing string.</u> No open hole logs. Cased hole TDT with GR to surface.

Logging Program:



Well: San Juan 28-7 152E
County: Rio Arriba
Area: East 28-7
Rig: Key 43

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

Surface Casing:

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

Slurry Weight:	14.5	ppg
Slurry Yield	1.41	cf/sk
Amount of Mix Water	6.84	gps
Pump Time	2:47	
Compressives		
8 hrs @ 80 F	800	psi
24 hrs @ 80 F	2150	psi
48 hrs @ 80 F	3625	psi

Intermediate Casing:

Slurry 1 410 sx Premium Lite Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sc Cello Flake + 8% bwoc Bentonite + 120.1% H2O

Slurry 2 73 sx Type III Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 60.6% H2O

Slurry 1			Slurry 2		
Slurry Weight:	12.1	ppg	Slurry Weight:	14.5	ppg
Slurry Yield	2.21	cf/sk	Slurry Yield	1.41	cf/sk
Amount of Mix Water	12.52	gps	Amount of Mix Water	6.84	gps
Pump Time	4:30		Pump Time	2:15	
Compressives			Compressives		
8 hrs @ 80 F		psi	8 hrs @ 80 F	800	psi
24 hrs @ 80 F	250	psi	24 hrs @ 80 F	2150	psi
48 hrs @ 80 F	525	psi	48 hrs @ 80 F	3625	psi

Production Casing:

379 sx Premium Lite High Strength + 0.25 lbs/sk Cello Flake + .45% bwoc CD-32 + 0.65% bwoc FL-52 + 0.1% R-3 + 107% H2O

Slurry Weight:	12.5	ppg
Slurry Yield	2.07	cf/sk
Amount of Mix Water	11.16	gps
Pump Time	2:29	
Compressives		
8 hrs @ 140 F		psi
24 hrs @ 140 F	1960	psi
48 hrs @ 140 F	2100	psi

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	Loreasco 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 6 - 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.