

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-078972-A
		6. If Indian, Allottee or Tribe Name
		7. If Unit or CA Agreement, Name and No.
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		8. Lease Name and Well No. SAN JUAN 28-7 UNIT 147F
2. Name of Operator CONOCO INC. Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com		9. APL Well No. 30-039-27034
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799	10. Field and Pool, or Exploratory BLANCO MESAVERDE/BASIN DAKO
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 2070FSL 860FWL At proposed prod. zone NESE 2000FSL 600FEL		11. Sec., T., R., M., or Blk. and Survey or Area L Sec 10 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 320.00 E.A. - Sec 9
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7639 MD	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6601 GL	22. Approximate date work will start	23. Estimated duration

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 (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 06/10/2002
Title AUTHORIZED SIGNATURE		
Approved by (Signature)	Name (Printed/Typed)	Date JUN 20
Title /s/ David J. Mankiewicz	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 #11901 verified by the BLM Well Information System  
For CONOCO INC., sent to the Farmington  
Committed to AFMSS for processing by Lucy Bee on 06/12/2002 ()

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

HOLD C104 FOR Directional Survey

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

District II  
PO Drawer D3, 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 <b>30-039-27034</b>		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 016608	*Property Name SAN JUAN 28-7 UNIT		*Well Number 147F
*GRID No. 005073	*Operator Name CONOCO, INC.		*Elevation 6601'

10 Surface Location

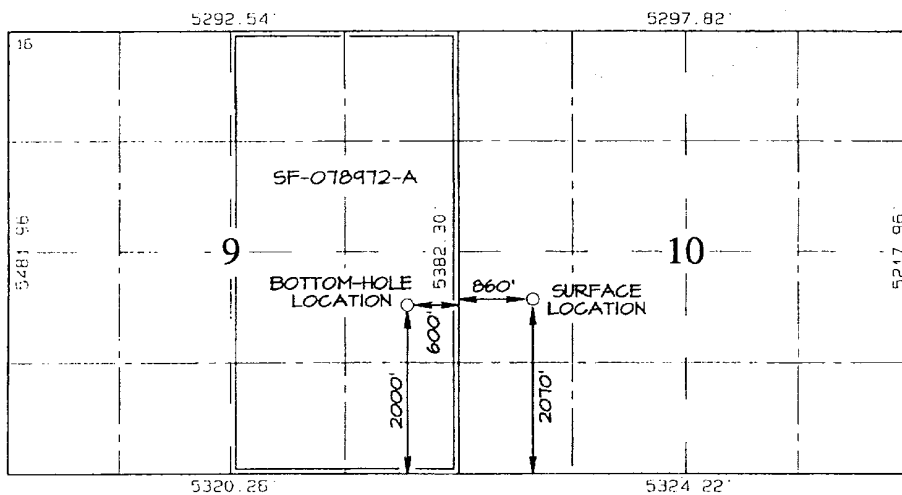
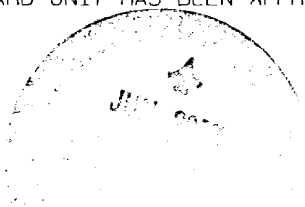
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	27N	7W		2070	SOUTH	860	WEST	RIO ARriba

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
I	9	27N	7W		2000	SOUTH	600	EAST	RIO ARriba

12 Dedicated Acres 320.0 Acres - (E/25a.9)	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.

*Vicki Westby*  
Signature

Vicki R. Westby

Printed Name

Sr. Title Analyst

Title

*June 10, 2002*  
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.

Date of Survey: MAY 10, 2002

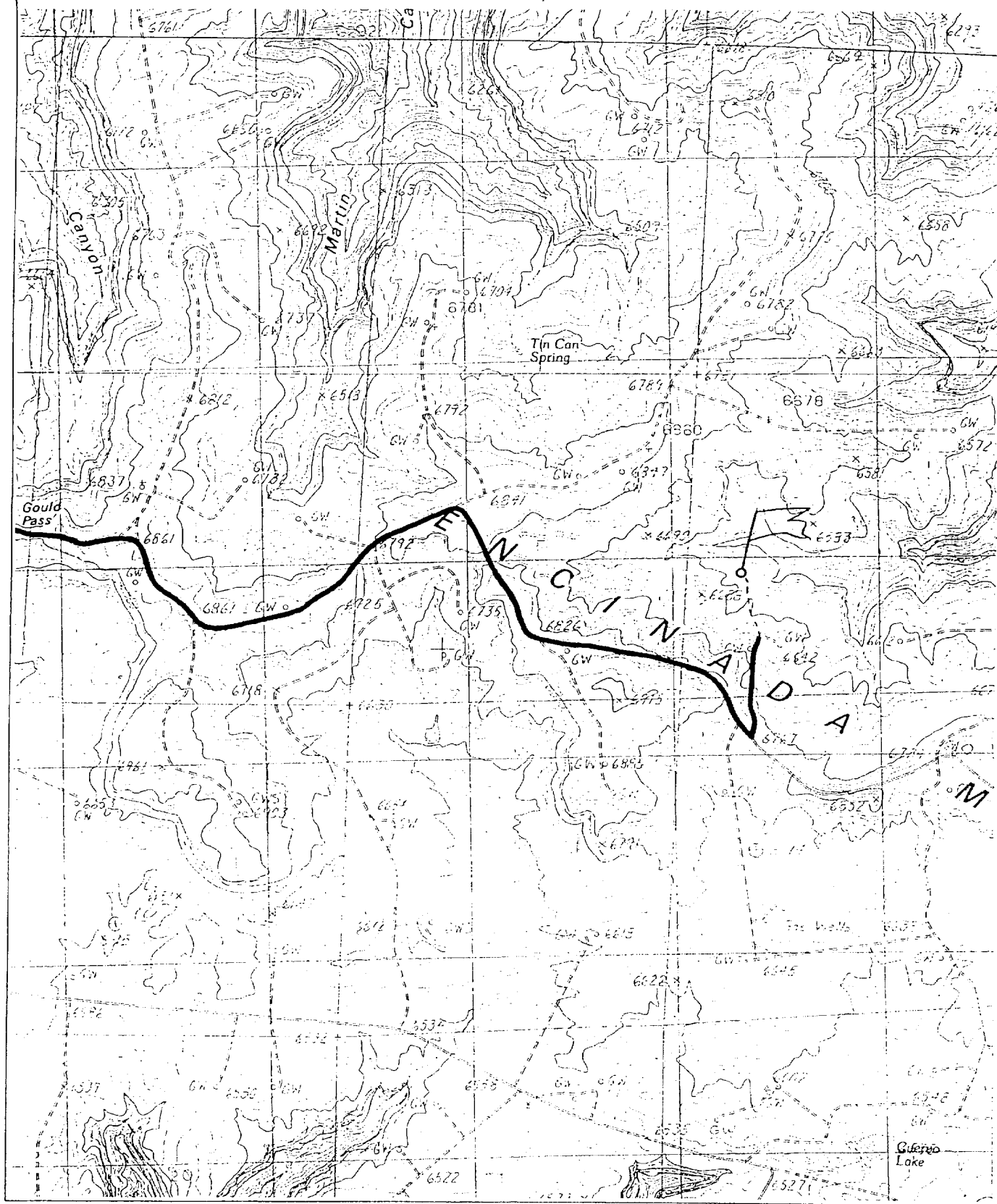
Signature and Seal of Professional Surveyor



*JASON C. EDWARDS*

Certificate Number 15269

CONOCO, INC. SAN JUAN 28-7 UNIT #147F  
2070' FSL & 860' FWL, SECTION 10, T27N, R7W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO



# DRILLING PROGRAM - SAN JUAN 28-7 147F



San Juan Business Unit

Well: SAN JUAN 28-7 147F Area: EAST AFE #: 4193/4194 AFE \$: 457361.26  
 Field EAST 28-7 Rig: Key 43 State: NM County Rio Arriba API

**Location: Bottom Hole**  
 Lat. 36.586568 Long: -107.57216 Footage X: 600 FEL Footage 2000 FSL Sec.: 9 Survey: 27N Abstract: 7W

**ERA (Emergency Response Area):**  
 Lat: Long:

Formation Data Ground Level FT Assume KB 6614 FT *Air Drilled*

Formation Call & Casing Points	Depth (TVD in Ft)	BHP (PSIG)	BHT	Remarks
Surface Casing	200			Severe lost circulation is possible. 9 5/8", 36 ppf, J-55. STC casing. Circulate cement to surface.
OJAM	2289			Possible water flows
KRLD	2439			
FRLD	2894			Possible gas
PCCF	3144			
LEWS	3344			
Intermediate Casing	3444			7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4099			
CLFH	4814	1300		Gas; possibly wet
MENF	4894			Gas
PTLK	5379			Gas
MNCS	5679			
GLLP	6615			
GRHN	7289			Gas possible, highly fractured
TWLS	7374			Gas
CBBO	7514			Gas
Total Depth	7639	3000		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.

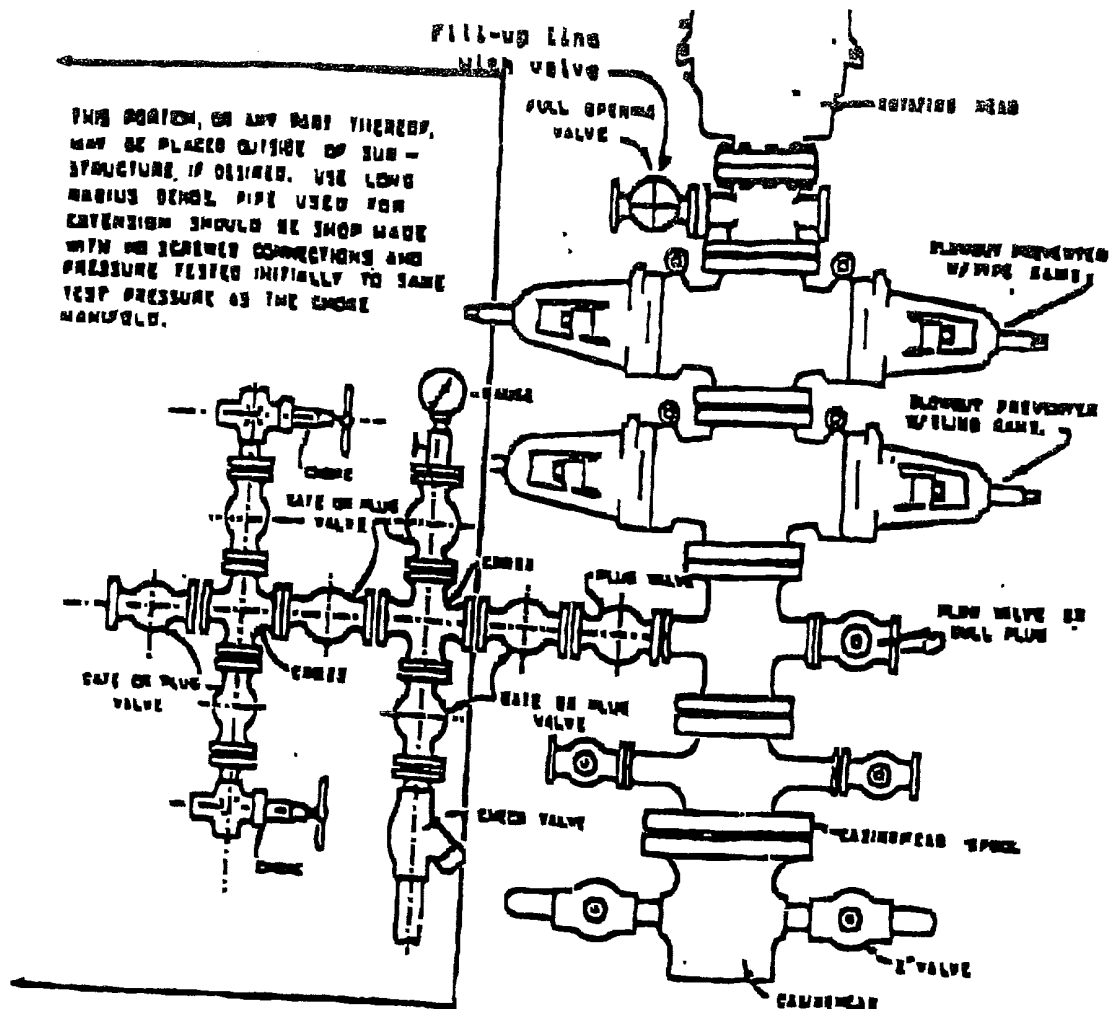
## Logging Program :

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

Additional Information:

Comments:

Printed On: 06/10/2002 1:25:09 PM



### BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 1000 psi equipment, but cannot provide annular preventors because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. Please see the attached BOP diagram details 2000 psi equipment according to Onshore Order No. 2 even though the equipment will test to 3000 psi. The 2000 psi system allows delation of the annular preventor and fulfills your requirements (note diagram No. 1). In addition, the following equipment will comprise the 2000 psi system:

1. Two rams with one blind and one pipe ram.
2. Kill line (2 inch maximum).
3. One kill line valve.
4. One choke line valve.
5. Two chokes (reference diagram No. 1).
6. Upper kelly cock valve with handle.
7. Safety valve and subs to fit all drill strings in use.
8. Two-inch minimum choke line.
9. Pressure gauge on choke manifold.
10. Fill-up line above the upper most preventor.
11. Rotating head.

# 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>	Lorasco SW Calcined Petroleum Coke Braeze	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.

[illegible]