BLM

Form 3160-3
(August 1999)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. SF-078417
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. SAN JUAN 28-7 UNIT 246M
2. Name of Operator CONOCO INC. Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com	9. API Well No. 30039270[illegible]
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 BASIN DAKOTA
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface SWSE 280FSL 1630FEL At proposed prod. zone	11. Sec., T., R., M., or Blk. and Survey or Area Sec 7 T28N 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 313.00
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 8027 MD / 20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6854 GL	22. Approximate date work will start / 23. Estimated duration

RECEIVED AUG 2002 OIL CONS. DIV. Dist. 3

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.
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 (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 07/01/2002
Title AUTHORIZED SIGNATURE		
Approved by (Signature) /s/ Charlie Beecham	Name (Printed/Typed)	Date AUG 14
Title ACTING	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 #12441 verified by the BLM Well Information System
For CONOCO INC., sent to the Farmington

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

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

1 API Number	2 Pool Code	3 Pool Name
30-039-27047	71599	BASIN DAKOTA

4 Property Code	5 Property Name	6 Well Number
016608	SAN JUAN 28-7 UNIT	246M

7 OGRID No.	8 Operator Name	9 Elevation
005073	CONOCO, INC.	6854'

10 Surface Location

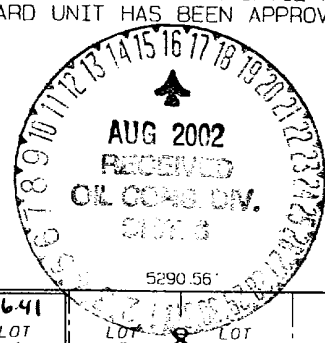
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	7	28N	7W		280	SOUTH	1630	EAST	RIO ARRIBA

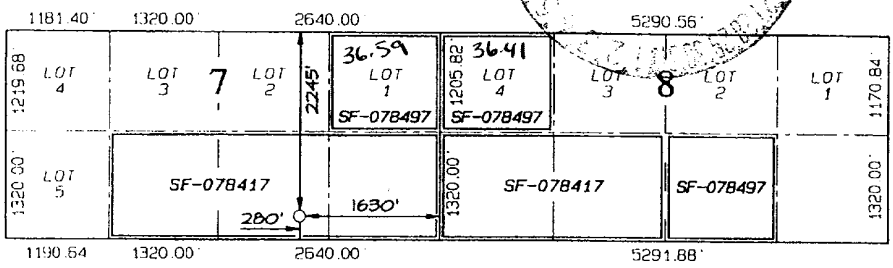
11 Bottom Hole Location If Different From Surface

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	13 Joint or Infill	14 Consolidation Code	15 Order No.
313.0 Acres			R-2948 Unit #5

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

Signature: Vicki Westby

Printed Name: Vicki R. Westby

Title: Sr. Title Analyst

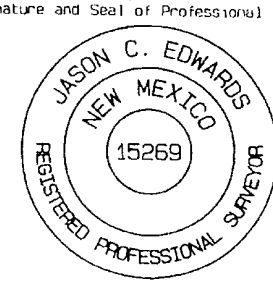
Date: June 14, 2002

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: April 16, 2002

Signature and Seal of Professional Surveyor

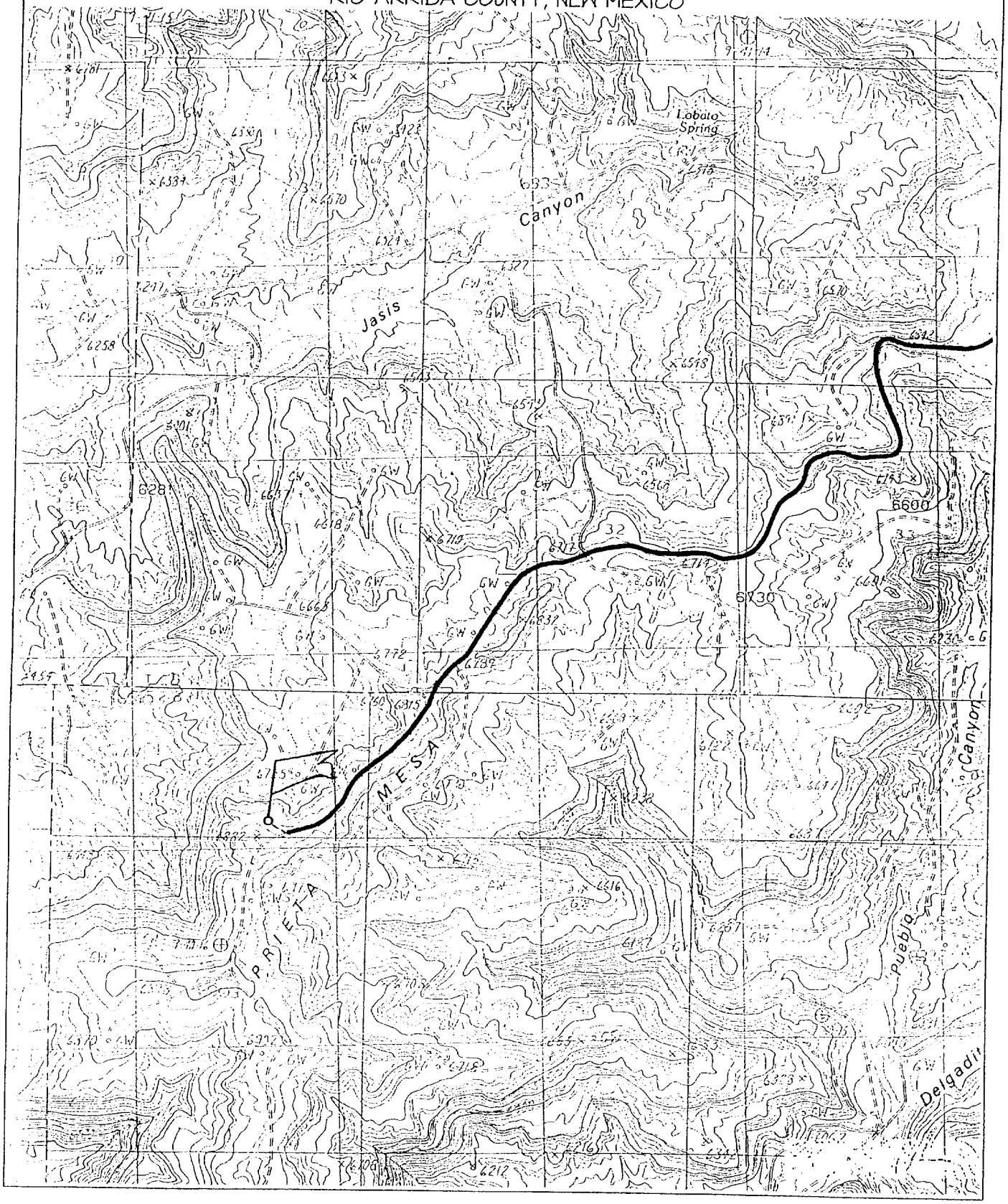


JASON C. EDWARDS

Certificate Number 15269

CONOCO, INC. SAN JUAN 28-7 UNIT #246M

280' FSL & 1630' FEL, SECTION 7, T28N, R7W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



DRILLING PROGRAM - SAN JUAN 28-7 246M

San Juan Business Unit

Well: SAN JUAN 28-7 246M	Area: EAST	AFE #s: 4227		AFE $: 346753
Field EAST 28-7	Rig: Key 49	State: NM	County RIO ARRIBA	API

Location: Surface

Lat. 36.669158	Long: -10/.61083	Footage X: 1630 FEL	Footage 280 FSL	Sec.: 7	Survey: 28N	Abstract: 7W

ERA (Emergency Response Area):

Lat: Long:

Formation Data Ground Level 6854 FT Assume KB 6867 FT "Air Drilled"

Formation Call && Casing Points	Depth (TVD in Ft)	BHP (PSIG)	BHT	Remarks
Surface Casing	207			Severe lost circulation is possible. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface.
OJAM	2557			Possible water flows
KRLD	2667			
FRLD	3277			Possible gas
PCCF	3527			
LEWS	3727			
Intermediate Casing	3927			Severe lost circulation is possible. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface.
CHRA	4442			Gas; possibly wet
CLFH	5127	1300		Gas; possibly wet
MENF	5287			Gas
PTLK	5667			Gas
MNCS	5917			
GLLP	6977			
GRHN	7677			Gas possible, highly fractured
TWLS	7747			Gas
CBBO	7897			Gas
Total Depth	8027	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:

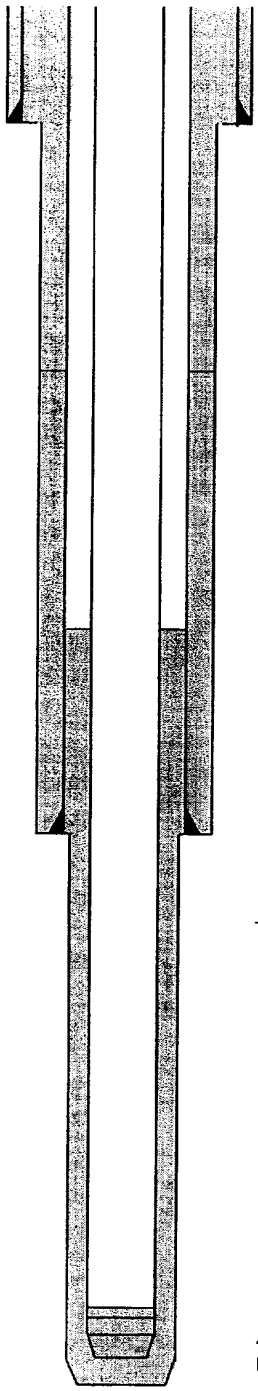
Intermediate Logs:	☐Log only if show ☐GR / ILD ☐Triple Combo ☐Other
TD Logs:	☐Triple Combo ☐Dipmeter ☐RFT ☐Sonic ☐VSP ☑TDT ☐Other
Additional Information:	

Comments:

Printed On: 06/28/2002 1:03:40 PM

Cementing Summary

San Juan 28-7 246M (v1.0)



	Depth	OH Excess				
9-5/8" Sfc Casing	0		Class 'H' Cement	85.0 sx	Slurry Volume	147.0 cu ft
			Flocele	0.25 lb/sk		26.2 bbl
			Gel (Bentonite)	6.0% bwoc-db	Slurry Density	13.5 ppg
			CaCl2	2.0% bwoc-db	Slurry Yield	1.73 cu ft/sk
			Defoamer (if req'd)	0.05 gal/bbl	Mix Fluid	9.10 gal/sk
9-5/8" shoe	207	100%				
7" Lead Cement		150%	Blend	439.82 sx	Slurry Volume	1244.7 cu ft
			Class 'H' Cement	84 lb/sk		221.7 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	3,427		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
4.5" TOC	2,927		CFR-3	bwob		
			HR-5	bwob		
			Silicalite-blended	bwob		
			Flocele	0.25 lb/sk		
			Gilsonite	lb/sk		
			Defoamer (if req'd)	0.05 gal/bbl		
7" Casing Intermediate	3,927	150%				
4.5" Cement		50%	Blend	509.39 sx	Slurry Volume	748.8 cu ft
			Standard Cement	47 lb/sk		133.4 bbl
			San Juan Poz	37 lb/sk	Slurry Density	13.0 ppg
			Bentonite	3.00% bwob	Slurry Yield	1.47 cu ft/sk
			Halad-344	0.30% bwoc	Mix Fluid	6.4 gal/sk
			Halad-413	0.40% bwoc		
			HR-5	0.15% bwoc		
			Gilsonite	5.0 lb/sk		
			Flocele	0.25 lb/sk		
			Defoamer (if req'd)	0.05 gal/bbl		
4-1/2" Casing Production	8,027	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., ≥ 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 ≥ 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 arroyo's 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.