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-A
	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 242F
2. Name of Operator CONOCO INC. Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com	9. API Well No. 30-039-27038
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface NENW 255FNL 1660FWL At proposed prod. zone	10. Field and Pool, or Exploratory BLANCO MESAVERDE/BASIN DAKO
	11. Sec., T., R., M., or Blk. and Survey or Area C Sec 18 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 ~~320.00~~ 331.11 DK 304.76 MV - W/2
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7614 MD / 20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc. 6471 GL	22. Approximate date work will start / 23. Estimated duration

AUG 2002

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

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

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	Name (Printed/Typed)	Date
(Electronic Submission)	VICKI WESTBY	06/18/2002

Title: AUTHORIZED SIGNATURE

Approved by (Signature)	Name (Printed/Typed)	Date
/s/ Charlie Beecham		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 #12140 verified by the BLM Well Information System
For CONOCO INC., sent to the Farmington

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

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

AUG 2002
RECEIVED
OIL CONS. DIV.
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number	²Pool Code	³Pool Name
30-039-27038	72319 / 71599	BLANCO MESAVERDE / BASIN DAKOTA

⁴Property Code	⁵Property Name	⁶Well Number
016608	SAN JUAN 28-7 UNIT	242F

⁷OGRID No	⁸Operator Name	⁹Elevation
005073	CONOCO, INC.	6471'

¹⁰ Surface Location

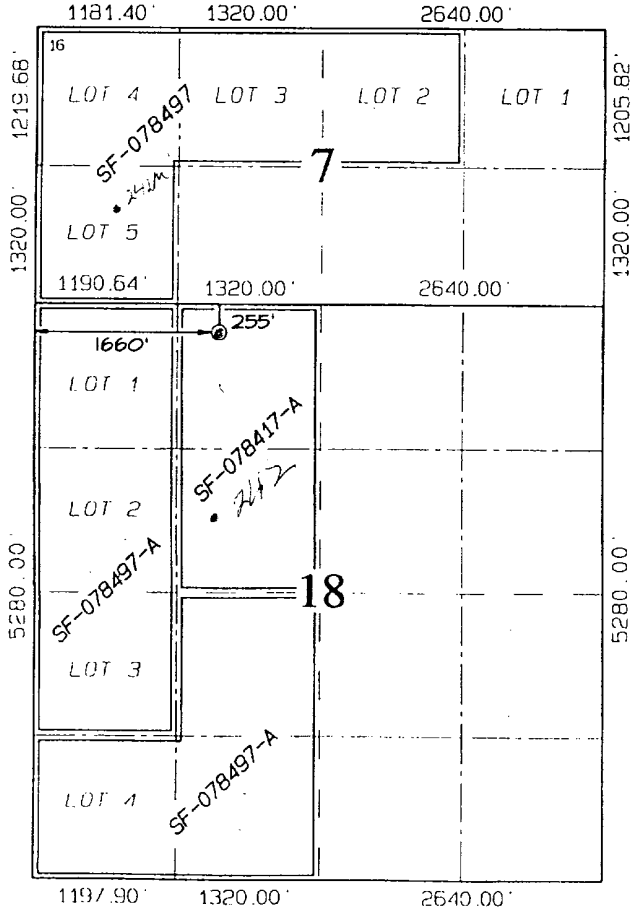
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	18	28N	7W		255	NORTH	1660	WEST	RIO ARRIBA

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

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
304.76 Acres (MV) - W/2 331.11 Acres (DK)			

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

May 29, 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: APRIL 21, 2002

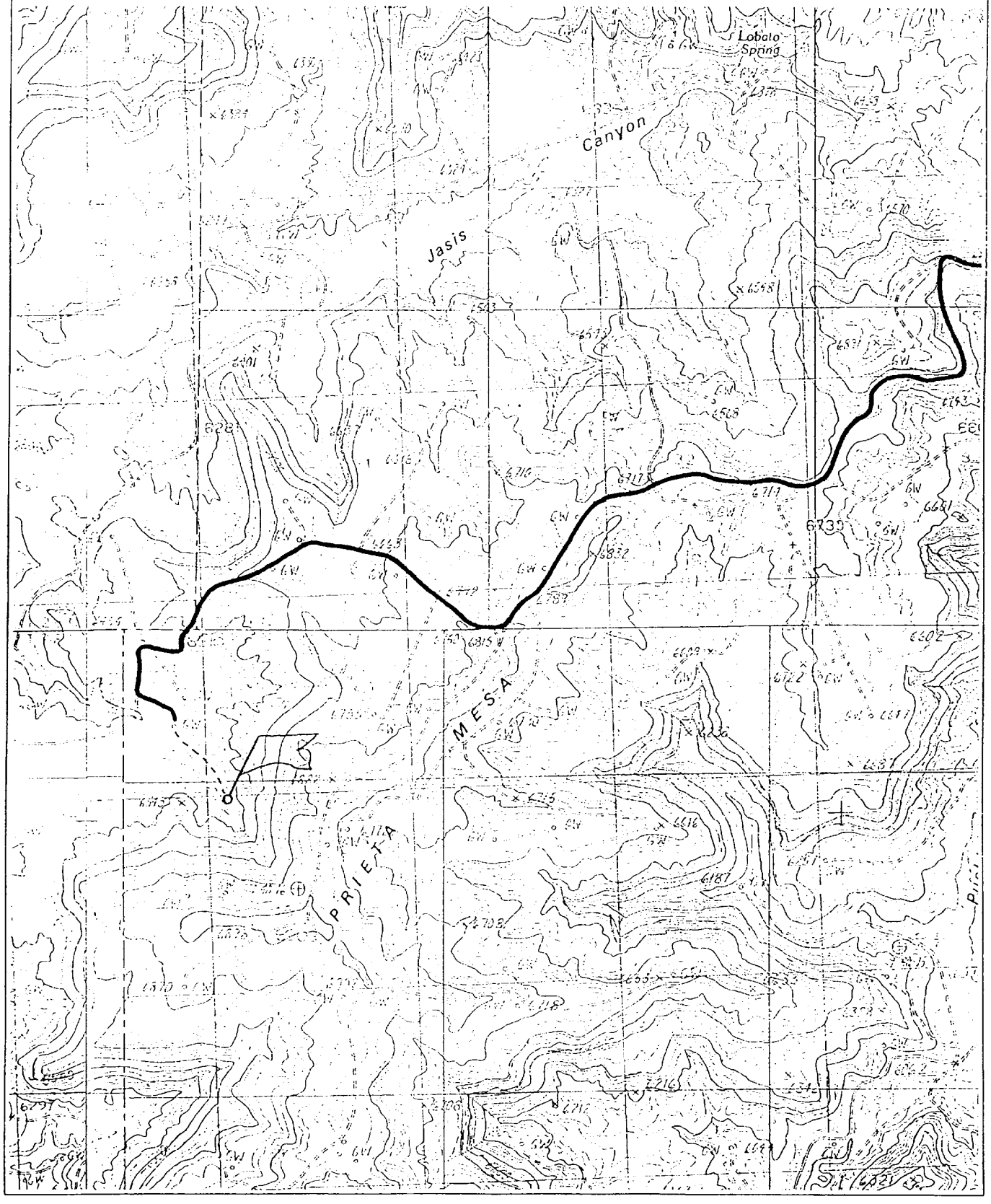
Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
Certificate Number 15269

CONOCO, INC. SAN JUAN 28-7 UNIT #242F

255' FNL & 1660' FWL, SECTION 18, T28N, R7W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



DRILLING PROGRAM - SAN JUAN 28-7 242F

San Juan Business Unit

Well: SAN JUAN 28-7 242F	Area: EAST	AFE #s: 4229/4230	AFE $: 340759.8
Field EAST 28-7	Rig: Key 49	State: NM	County RIO ARRIBA	API

Location: Surface

Lat. 36.6677	Long: -107.61711	Footage X: 1660 FWL	Footage 255 FNL	Sec.: 18	Survey: 28N	Abstract: 7W

ERA (Emergency Response Area):

Lat: Long:

Formation Data Ground Level 6471 FT Assume KB 6484 FT "Air Drilled"

Formation Call && Casing Points	Depth (TVD in Ft)	BHP (PSIG)	BHT	Remarks
Surface Casing	200			Severe lost circulation is possible. 12 1/4" Hole. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface. 100% Excess.
OJAM	2084			Possible water flows
KRLD	2234			
FRLD	2854			
PCCF	3104			
LEWS	3304			
Intermediate Casing	3404			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface. 150% Excess.
CHRA	4054			
CLFH	4724	1300		Gas; possibly wet
MENF	4864			Gas
PTLK	5259			Gas
MNCS	5559			
GLLP	6574			
GRHN	7264			Gas possible, highly fractured
TWLS	7349			Gas
CBBO	7494			Gas
Total Depth	7614	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. 50% Excess. 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

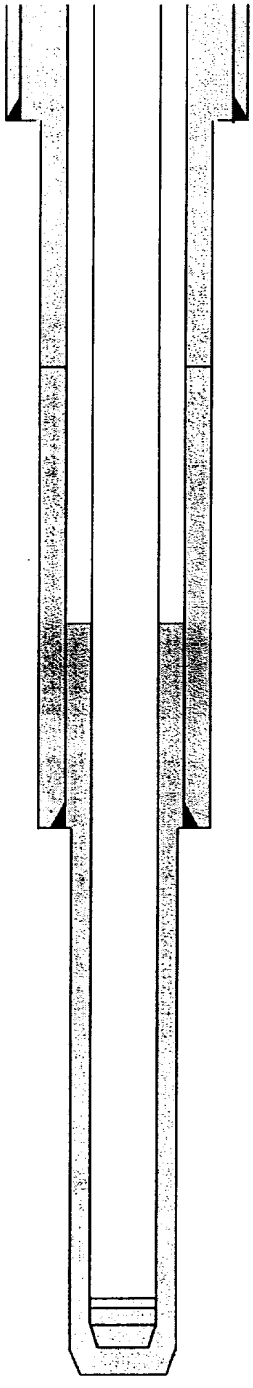
Additional Information:

Comments:

Printed On: 06/18/2002 10:12:31 AM

Cementing Summary

San Juan 28-7 242F (v1.0)



	Depth	OH 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
7" Lead Cement		150%	Blend	370.88	sx	Slurry Volume	1049.6 cu ft
			Class 'H' Cement	84	lb/sk		186.9 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	2,904		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	2,404		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	3,404	150%					
4.5" Cement		50%	Blend	450.43	sx	Slurry Volume	765.7 cu ft
			Class 'H' Cement	47	lb/sk		136.4 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	7,614	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	Loresco 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.