

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-079289
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. 31739
Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com		8. Lease Name and Well No. SAN JUAN 28-7 61B
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 27250
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW 1070FSL 450FWL At proposed prod. zone		10. Field and Pool, or Exploratory BLANCO MV/BASIN FC/BLANCO PC
14. Distance in miles and direction from nearest town or post office*		11. Sec., T., R., M., or Blk. and Survey or Area Sec 10 T28N R7W Mer NMP M
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 5794 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6606 GL	22. Approximate date work will start	17. Spacing Unit dedicated to this well 296.08 A11 - W/2 PC
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.
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 official.

25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 11/14/2002
Title AUTHORIZED SIGNATURE		
Approved by David J. Mankiewicz	Name (Printed/Typed)	Date JUN 12 2003
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 #16110 verified by the BLM Well Information System
For CONOCO INC., sent to the Farmington

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

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.8
and appeal pursuant to 43 CFR 3165.4

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

NMOCD

30085-
120-

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

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

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-0392725	*Pool Code 72319-71629-72359	*Pool Name Blanco Mesaverde-Basin Fruitland Coal-Blanco Pictured Cliffs
*Property Code 016608	*Property Name SAN JUAN 28-7 UNIT	*Well Number 61B
*OGRID No. 005073	*Operator Name CONOCO, INC.	*Elevation 6606'

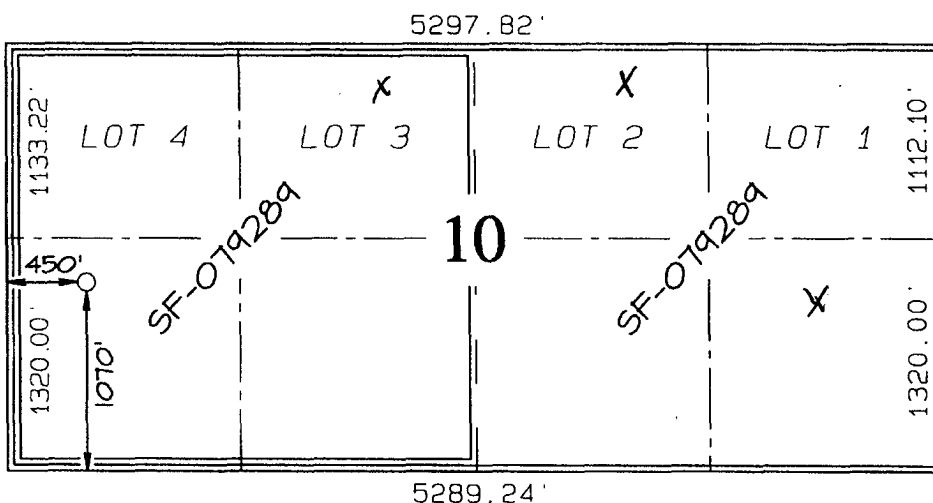
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	10	28N	7W		1070	SOUTH	450	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 296.08 Acres - MV and FC 148.36 Acres - PC					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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



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

November 12, 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.

Survey Date: OCTOBER 30, 2002

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

PROJECT PROPOSAL - New Drill / Sidetrack**SAN JUAN 28-7 61B****(Not
Assigned)****ConocoPhillips**
San Juan Business Unit

Lease :		AFE # :		AFE \$:	
Field Name : EAST 28-7		Rlg :	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 :	Proj. Field Lead		Phone :

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)
UPT	BLANCO P.C. SOUTH (PRORATED GAS)

Latitude : 36.67	Longitude : -10.57	X :	Y :	Section : 10	Abstract: 7W
Footage X : 450 FWL	Footage Y : 1070 FSL	Elevation: 6606	(FT)	Survey : 28N	

Location Type : Year Round	Start Date (Est.)	Completion Date :	Date In Operation :
Formation Data Assume KB	6619 Units = FT		

Formation Call & Casing Points	Depth (TVD In Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6419	<input type="checkbox"/>			Severe lost circulation is possible. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface.
OJAM	2409	4210	<input type="checkbox"/>			Possible water flows
KRLD	2559	4060	<input type="checkbox"/>			
FRLD	3069	3550	<input type="checkbox"/>			Possible gas
PCCF	3319	3300	<input type="checkbox"/>			
LEWS	3569	3050	<input type="checkbox"/>			
Intermediate Casing	3669	2950	<input type="checkbox"/>			7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CLFH	4949	1670	<input type="checkbox"/>	1300		Gas; possibly wet
PTLK	5494	1125	<input type="checkbox"/>			Gas
Total Depth	5794	825	<input 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.

Intermediate:	Well Name	Comments
Production:	Well Name	Comments

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 61B

(Not
Assigned)

ConocoPhillips
San Juan Business
Unit

Logging Program:

Intermediate Logs : ☐ Log only if show ☐ GR / ILD ☐ Triple Combo

TD Logs : ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☒ TDT ☐ Other

Additional Information

Comments General/Work Description - Trimingle completion

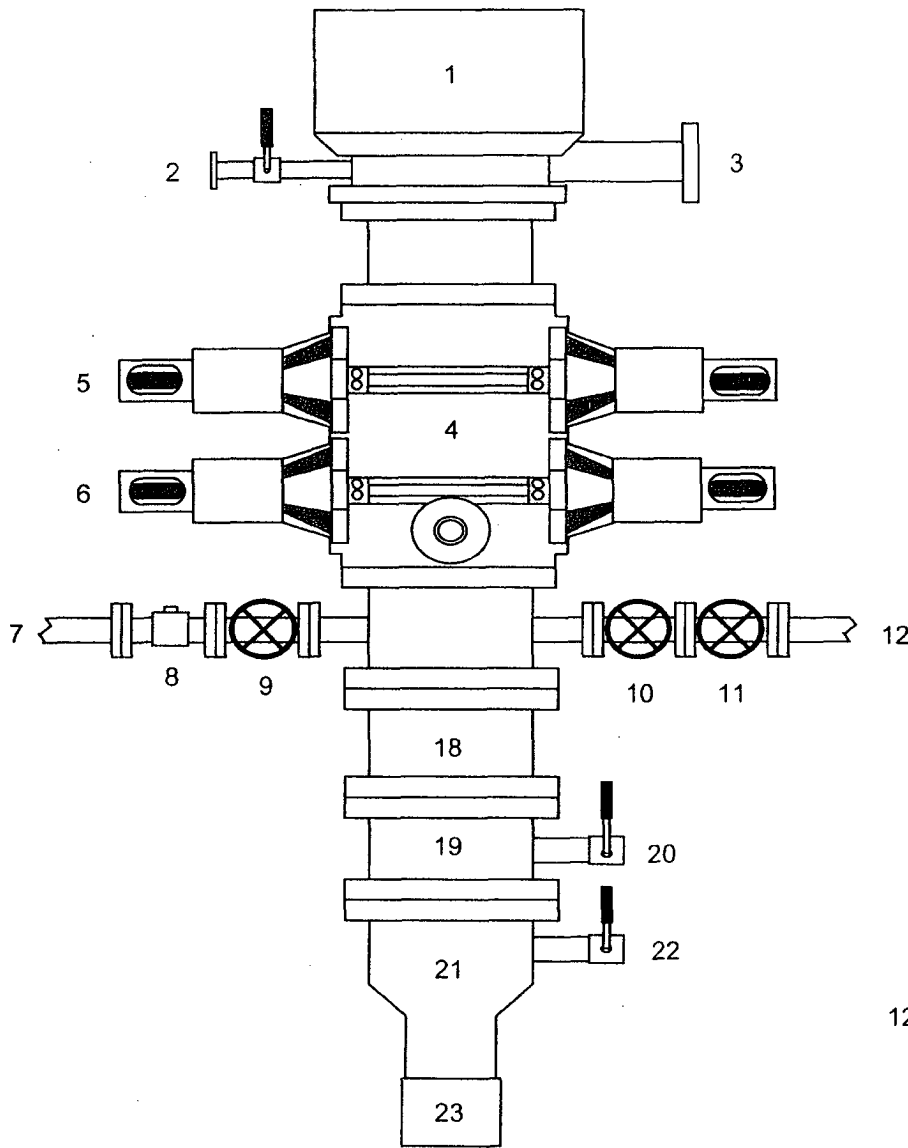
Cementing Summary

San Juan 28-7 61B (v1.0)

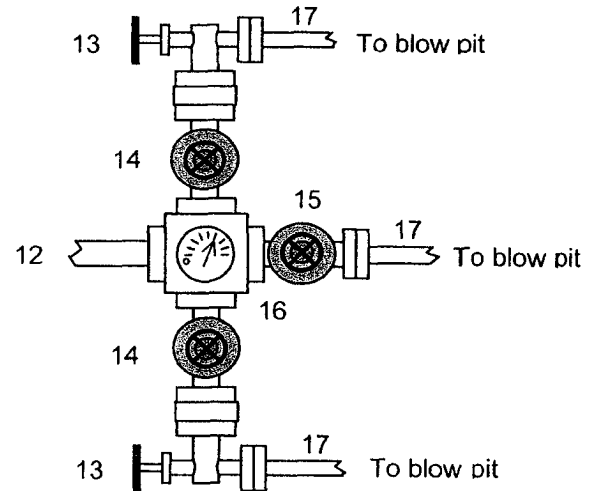
	Depth	OH					
		Depth	Excess				
9-5/8" Sfc Casing	0			50:50 Poz Standard	108.3 sx	Slurry Volume	143.0 cu ft
				Cement	47 lb/sk		25.5 bbl
				San Juan Poz	34 lb/sk	Slurry Density	13.5 ppg
				Gel (Bentonite)	2.0% bwoc-db	Slurry Yield	1.32 cu ft/sk
				Gilsonite	5.0 lb/sk	Mix Fluid	5.35 gal/sk
				CaCl2	3.0% bwoc-db		
				Flocele	0.5 lb/sk		
				CFR-3	0.20% bwoc-db		
9-5/8" shoe	200	100%		NOTE: Surface casing is H-40 x 32.3# for this well only			
7" Lead Cement	100%			Standard Cement	340.05 sx	Slurry Volume	986.2 cu ft
				Standard Cement	94 lb/sk		175.6 bbl
				Econolite	3.0% bwoc	Slurry Density	11.4 ppg
				Flocele	0.5 lb/sk	Slurry Yield	2.9 cu ft/sk
				Gilsonite	10.0 lb/sk	Mix Fluid	16.78 gal/sk
				Defoamer (if req'd)	0.05 gal/bbl		
7" Top of Tail	3,369						
7" Tail Cement	100%			50:50 Poz Standard	82.176 sx	Slurry Volume	109.3 cu ft
				Standard Cement	47.0 bwob		19.5 bbl
4.5" TOC	3,469			San Juan Poz	34.0 lb/sk	Slurry Density	13.5 ppg
				CaCl2	2.00% bwob	Slurry Yield	1.33 cu ft/sk
				Bentonite-Gel	2.00% bwob	Mix Fluid	5.32 gal/sk
				Flocele	0.25 lb/sk		
				Gilsonite	5.0 lb/sk		
				Defoamer (if req'd)	0.05 gal/bbl		
7" Casing Intermediate	3,669	100%					
4.5" Cement	50%			50:50 Poz Standard	240.64 sx	Slurry Volume	351.3 cu ft
				Standard Cement	47 lb/sk		62.6 bbl
				San Juan Poz	34 lb/sk	Slurry Density	13.0 ppg
				Bentonite	3.00% bwob	Slurry Yield	1.46 cu ft/sk
				CFR-3	0.20% bwoc	Mix Fluid	6.42 gal/sk
				Halad-9	0.80% bwoc		
				HR-5	0.10% bwoc		
				Gilsonite	5.0 lb/sk		
				Flocele	0.25 lb/sk		
				Defoamer (if req'd)	0.05 gal/bbl		
4-1/2" Casing Production	5,794	50%					

Note: Conoco to verify casing depths.
Surface casing is H-40 x 32.3# for this well only

BLOWOUT PREVENTER HOOKUP



1. Rotating Head
2. Fill-up Line & valve
3. Flowline
4. Blowout Preventer (3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10. Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Spacer Spool
19. Casing Spool "B" Section
20. Casing Spool "B" Section 2" Valve
21. Casing Head "A" Section
22. Casing Head "A" Section 2" Valve
23. 9 5/8" Casing Collar



Drilling contractors used in the San Juan Basin supply 3000 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. The above diagram of the BOP system details 2000 psi equipment according to Onshore Order No. 2 even though the equipment will test to 3000 psi. The 2000 psi system allows deletion of the annular preventor and fulfills your requirements.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

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	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 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).
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.