UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU	JOF LAND MANAGEMENT	SF-078496
APPLICATION FO	R PERMIT TO DRILL OR REENTER 1: 25	6. If Indian, Allottee or Tribe Name
la. Type of Work: ☑ DRILL ☐ RE	NTER	7. If Unit or CA Agreement, Name and No.
lb. Type of Well: 🔲 Oil Well 🔀 Gas	Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. SAN JUAN 28-7 UNIT 181G
2. Name of Operator	Contact: VICKI WESTBY	9. API Well No.
CONOCO INC.	E-Mail: Vicki.R.Westby@conoco.com	30-039-26880
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 DA
4. Location of Well (Report location clear)	and in accordance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface NENW 820F	L 1925FWL	Sec 3 T27N R7W Mer NMP
At proposed prod. zone		<u>\</u>
14. Distance in miles and direction from near	(O RECEIVED	12. County or Parish RIO ARRIBA NM
15. Distance from proposed location to nearer lease line, ft. (Also to nearest drig. unit li	s property or 16. No. of Acres in Lease O	7. 7. Spacing Unit dedicated to this well
	CO DIST. 3	√ 319.99 ₩/ 分
18. Distance from proposed location to neares	well, drilling, 19. Proposed Depth	20. BLM/BIA/Bond No. on file
completed, applied for, on this lease, ft.	7725 MD	
21. Elevations (Show whether DF, KB, RT, C	il. etc. 22. Approximate date work will start	23. Estimated duration
6690 GL	22. Approximate date work with cult	25. Estimated duration
	24. Attachments	
The following completed in accordance with th	e requirements of Onshore Oil and Gas Order No. 1, shall be attached to	this form:
Well plat certified by a registered surveyor.		ons unless covered by an existing bond on file (see
2. A Drilling Plan. 3. A Surface Use Plan (if the location is on Nat	Item 20 above).	
SUPO shall be filed with the appropriate F	drest Service Office). 6. Such other site specific in authorized officer.	formation and/or plans as may be required by the
		I p
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 12/10/2001
Title AUTHORIZED SIGNATURE		
Approved by (Signature)	Name (Printed/Typed)	Date
15 4		3-15-2
Title	Office	
Application approval does not warrant or certify	the applicant holds legal or equitable title to those rights in the subject l	ease which would entitle the applicant to conduct
perations thereon. Conditions of approval, if any, are attached.		
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. States any false, fictitious or fraudulent statement	Section 1212, make it a crime for any person knowingly and willfully as or representations as to any matter within its jurisdiction.	to make to any department or agency of the United
Additional Operator Remarks (see n	ext page)	
Electr	onic Submission #9710 verified by the BLM Well Inform For CONOCO INC., will be sent to the Farmington	on .
	- 11	g opped the street with Ant
This action is subject to technit	efect carrier and the contract of the contract	 * *** (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
procedural review pursuant to	1	ME REQUIREMENTS"

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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

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

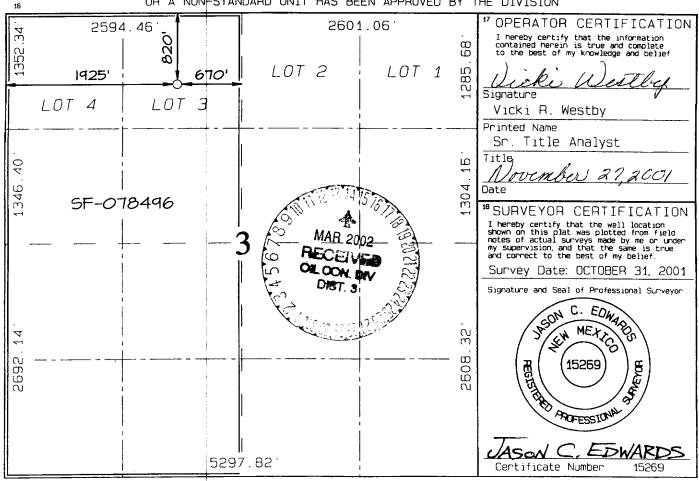
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

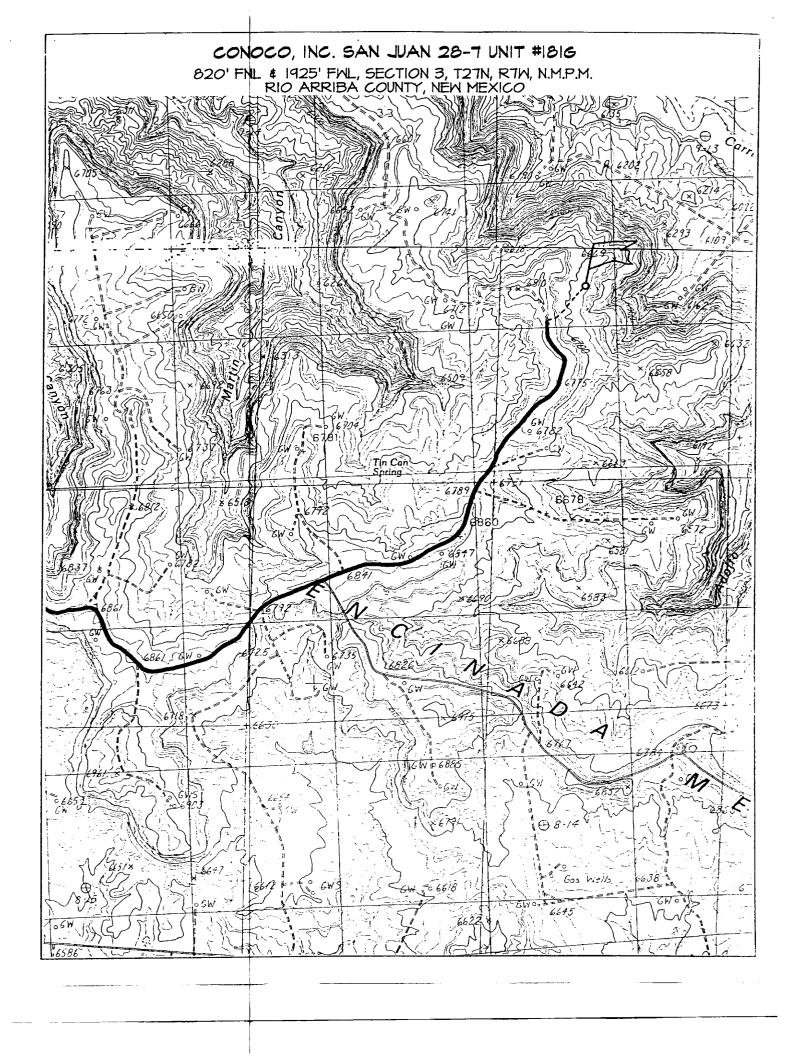
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

							20 20 2	_, , ,			
_	' API NU	nber		*Pool	Code	³Pool Name					
3003	39-7	2688	$\langle O \mid$	72319 ,	/ BAS	IN DA	KOTA				
1Property	Code				*Property Name				Well Number		
01660	80			5	NAUL NA	28-7 UNIT				181G	
'OGRID	No.				*Operato	r Name			' E	levation	
00507	73				CONOCO	. INC.			(6690'	
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Ne	st line	County	
С	3	27N	7 W		820	NORTH	1925	WE	ST	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/We	st line	County	
Dedicated Acres 319.99 Acres (W/2)			/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Onder 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





PROJECT PROPOSAL - New Drill / Sidetrack



Well: SAN JUAN 28-7 181G	Lease :	SAN JUA	AN 28-7	AF	FE#:	3334	(MV)	AFE \$:	
Field Name: EAST 28-7	Rig: K	ey 43		State	: NM	County:	RIO ARRIBA	API # :	
Geoscientist : Glaser, Terry	J	Phone	: (281) 2	93 - 6538	Prod.	Engineer	: Moody, Craig E	. Phone :	(281) 293 - 6559
Res. Engineer: Valvatne, Chr	ristine K.	Phone	: (281) 2	93 - 5767	Proj.	Field Lead	: Bergman, Pat V	V. Phone :	(281) 293 - 6517
Primary Objective (Zones) :	· · · · · ·				ر با دو الدر بو . او را داده پاره			<u> </u>	14 14 14
Pool Pool No									
FRR BASIN [DAKOTA (PR	ORATED (GAS)						
RON BLANC	O MESAVER	DE (PROF	RATED GAS	5)					
		MATERIAL VICTOR CONT. THE PARTY OF THE PARTY			Dril				
Surface Location:		7						•	
Latitude: 36.608283 Long		-+-			Y :		Section: 3	Survey: 27N	Abstract: 7W
Footage X: 1925 FWL Foota			Elevation:		6690 (FT)	ta training for	. i	and the second of the second	and the second of the second of the second of the second of
Bottom Hole Location :	4 : -		ı	¥ * *					·
Latitude : Long	titude :		X:		Y:		Section :	Survey:	Abstract :
Location Type: Year Round	Stan	Date (Es	st.):		Comp	letion Date	:	Date In Operation	:
Formation Data: Assume KB	= 6703	Units =	FT						
Formation Call &	Depth (TVD in Ft)		Depletio n	BHP (PSIG)	BHT			Remarks	
Casing Points Surface Casing	285	6418		(1310)	Dill		ost circulation is po Circulate cement	ossible. 9 5/8", 36 pp to surface.	f, J-55, STC
MALO	2503	4230			<u> </u>	Possible	water flows"		
KRLD	2608	4125							
FRLD	3063	3670				Possible	gas		
PCCF	3313	3420							
LEWS	3713	3020				7", 20 pp	f, J-55, STC Casing	g. Circulate cement	to surface.
Intermediate Casing	3813	2920	<u></u>			7", 20 pp	f, J-55, STC Casing	g. Circulate cement	to surface.
CHRA	4258	2475	<u> </u>						
CLFH	4953	1780		1300		Gas; pos	sibly wet		
MENF	5083	1650	邀			Gas			
PTLK	5543	1190				Gas			
MNCS	5843	8 9 0							
GLLP	6773	-40							
GRHN	7458	-725				Gas pos	sible, highly fractu	red	
TWLS	7533	-800				Gas			:
PAGU	7658	-925	<u>ià</u>			Gas			

Total Depth 7725 982 3000 41/2*, 10.5 ppf, J-55, SIC cosing. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole IDI with GR to surface. Triple Combo Dipmeter RFT Sonic VSP TDT dditional Information: Legging company to provide a sketch with all lengths, OD's & ID's of all tools prior to running in the hole. Cased hole TDT with GR to surface. Dimments: The TD of this well is set shallower (56') then normal due to potential lower Dakota water	СВВО	7673	-940		Gas		
termediate Logs: Log only if show GR / ILD Triple Combo D Logs: Triple Combo Dipmeter RFT Sonic VSP TDT Idditional Information: Logging company to provide a sketch with all lengths, OD's & ID's of all tools prior to running in the hole. Cased hole TDT with GR to surface.	Total Depth	7725	- 9 92	3000	minimum c	of 100' inside the previo	us casing string. No open
D Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☑ TDT Iditional Information: Logging company to provide a sketch with all lengths, OD's & ID's of all tools prior to running in the hole. Cased hole TDT with GR to surface.			CD/III		, , , , , , , , , , , , , , , , , , ,		
Cased hole TDT with GR to surface.					 VSP	☑ TDT	
		Cased hole TDT with	h GR to surfac	e. 	. <u> </u>		
			:				
			! !				
			!				
			!				



Well: San Juan 28-7 181G

County: San Juan Area: East 28-1 Rig: Key Rig 43

Company: Conoco, Inc.
Engineer: Mr. Ricky Joyce
Date: 10-Dec-01

Surface Casing:

	13	99 sx	Type III Cement + 2%bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 59.2% H20
Slurry Weight:	14.5	ppg	
Slurry Yield	1.41	cf/sk	
Amount of Mix Water	6.67	gps	
Pump Time	2:30		
Compressives			
8 hrs @ 80 F	800	psi	
24 hrs @ 80 F	2150	psi	
48 hrs @ 80 F	3625	psi	
		1	

Intermediate Casing:

Slurry 1

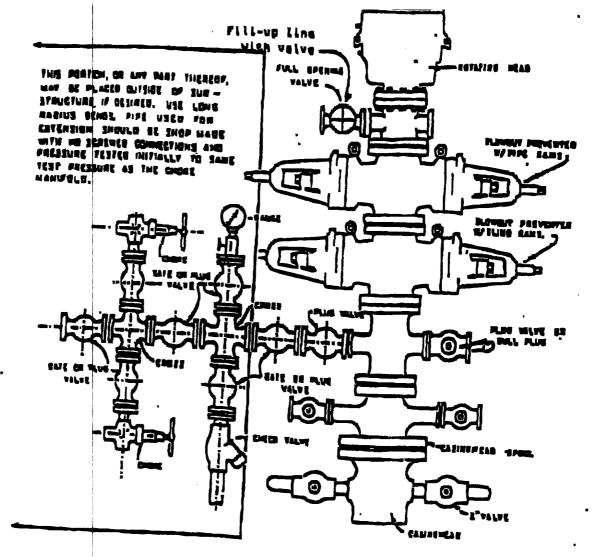
55**4** sx

_		Τ	8% bwoc Bentonite + 11	5.5% H2	20	
Slurry 2		8 sx	Type III Cement + 2% bw	oc Calc	ium Chlor	ride + 0.25 lbs/sk Cello Flake + 59.2% H2(
Slur	ry 1		Slurry 2			
Slurry Weight:	12.1	ppg	Slurry Weight:	14.5	ppg	
Slurry Yield	2.23	cf/sk	Slurry Yield	1.41	cf/sk	
Amount of Mix Water	12.05	gps	Amount of Mix Water	6.67	gps	
Pump Time	3:00		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	

Premium Lite Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sc Cello Flake +

Production Casing:

Ξ	37	sx	Premium Lite High Strength + 0.25 lbs/sk Cello Flake + .2% bwoc CD-32 + 0.65% bwoc FL-62 + 105.4% H20
Slurry Weight:	12.5	ppg	
Slurry Yield	2.02	cf/sk	
Amount of Mix Water	11	gps	
Pump Time	3:00		
Compressives			
8 hrs @ 140 F		psi	
24 hrs @ 140 F	1600	psi	
48 hrs @ 140 F	2000	psi	



BLOWOUT PREVENTER HOOKUP

brilling contractors used in the San Juan Basing supply 1000 pai aguipment, but cannot provide annular preventors because of substructure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP Please see the attached Bop diagram details 2000 pai equipment according to Onshore Order No. 2 even though the equipment will test to Jood 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:

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

Cathodic Protection System Description

Anode Bed Typ	e Deep Wel	
Hale Size	8.	
Hole Depth	200 200	As required to place anodes below moisture and in law rasistance strata.
Surface Casing	8" Diam., & Length. Gement Annular Spa	ed in adequate depth to control ground water flow.
Vent Pipe	1" Diam. PV	C 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 Gra	phite
Number Of Anode	S 8 - 20	Sufficient quantity to achieve a total anode bed resistance of < I ohm and a design life ≥ 20 years.
Anode Bed Backf	Loresco SW Calc Patroleum Coke B	I migrating theilt gattailt or viers so in deeper talk III
Anode Junction Bo	8 - 20 Circuit Fiberglass Or Me	1 Andies to bigastic interes - recent minimum.
Current Splitter Bo	X 2 - 5 Circuit Me	sai Sealed to prevant insect & rodant intrusion.
DC / AC Cable	DC: #2, #4, #6, Stranded Copper (Size Or-Any Combination Of) V High Molecular Wa Polyethylens (HMV Insulation. AC: #9 Strande Copper HMWPE	one roadway, & 36° depth in erroyo's and strams. EXCEPTION: If tranching is in extremely hard with 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 Ur 3) Thermoelectric Generator	
External Painting	Color to be selecte according to BLM specifications.) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \