······································	0625 N.	ervation Divi French Drive	ision, D	istrict I	
· ·	Hobbs	NM 88240	-		
mn 3160-3 ebruary 2005)			FORM APPROVED OMB No 1004-0137 Expires March 31, 2007		
UNITED STATES DEPARTMENT OF THE INTERIOR			5 Lease Serial No.		
BUREAU OF LAND MAN				NM 02	
APPLICATION FOR PERMIT TO	DRILL OF	REENTER		6. If Indian, Allotee or 7	inde Name
Type of work IDRILL REENTER			7 If Unit or CA Agreeme		
D. Type of Well: 🔽 Oul Well Gas Well Other	Other Single Zone Multiple Zone			8. Lease Name and Well Cato San Andres	
Name of Operator		1	2	9. API Well No.	10 -00T 17
Cano Petro Of New M Address 801 Cherry Street Unit #25, Suite 3200		. (include area code)	12)	CSAU Fedeal 404 10. Field and Pool, or Expl	
Fort Worth Texas 76102		698-0900	/	Cato San Andres	
Location of Well (Report location clearly and in accordance with an At surface Sec. 27-T08S-R30E 660.			s co.	11 Sec., T R. M. or Blk as	nd Survey or Area
At surface Sec. 27-108S-R30E 660- At proposed prod. zone San Andres		J-W CHAVE	5 CU.	C-27-08S-30E	
Distance in miles and direction from nearest town or post office*	<u> </u>			12. County or Parish	13. State
48 miles SW of Roswell New Mexico	1			Chaves	NM
Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any) 7353'	16 No of a	5 No of acres in lease 17 Spacing Unit dedicated to this 15.332 40		g Unit dedicated to this well	
Distance from proposed location*			BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft 1887'	4000 NMB00044				
Elevations (Show whether DF, KDB, RT, GL, etc.) 4152.8	22. Approxi			23 Estimated duration 30 days	
	24. Atta			· · · · · · · · · · · · · · · · · · ·	
e following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1, must be a	ttached to the	s form.	
Well plat certified by a registered surveyor			he operation	ns unless covered by an exis	sting bond on file (see
A Drilling Plan A Surface Use Plan (if the location is on National Forest System	Lands the	Item 20 above) 5. Operator certific	cation		
SUPO must be filed with the appropriate Forest Service Office)	Danus, the	1 1		ormation and/or plans as may	y be required by the
Signature Do Lin ()	1	(Printed/Typed)		Dat	8-22-07
le La		Cindy Chavez			0-00-07
Regulatory Coordinator		(D . 177		I	
proved by (Signature) /S/ Angel Mayes	Name	^{(Prived Typel} Ma	iyes		CT 05 200
Assistant Field Manager, Office ROSWELL FIELD OFFICE APPROVED FOR 2 1					
pplication approval does not warrant of CONA also the applicant hold	ds legal or coni			iect lease which would entitl	e the applicant to
nduct operations thereon. Inditions of approval, if any, are attached.				,	al Languero
	trime for any p	erson knowingly and v	willfully to m	ake to any department or ag	ency of the United
le 18 M S C Section 1001 and Title 43 U S C Section 1212, make it a c ttegan false, fictitious or fraudulent statements or representations as	to any matter w	vithin its jurisdiction.		······································	
Instructions on page 2)			_		
		1 m	\ M A M M M M M M M M M M		* .
05"		API	ROVA	L SUBJECT TO)
CEMENT BEHIND THE 83" CASING MUST BE CIRCULATED		GEI	NERAL	REQUIREMEN	TS AND
CASING MUST BE CIKCULATED		SPE	ECIAL S	STIPULATIONS	ATTACHED

WITNESS

DISTRICT I 1025 N. FRENCH DR., HOBBS, NM 00240

Form C-102 Revised October 12, 2005 DISTRICT II OIL CONSERVATION DIVISION Submit to Appropriate District Office 1301 W. GRAND AVENUE, ARTESIA, NU 80210 State Lease - 4 Copies Fee Lease - 3 Copies 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT □ AMENDED REPORT 1220 S ST. FRANCIS DR., SANTA PE, NH 87505 API Number Pool Code Pool Name -005-27 10540 6 240 dres) q n Property Name CQ40 Well Number Property Code San Andres 303560 CSAU 404 Unit Operator Name Elevation OGRID N CANO PETRO OF NEW MEXICO 4153 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County С 27 8-S 30-E 660 NORTH 1980 WEST CHAVES 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 Dedicated Acres Joint or Infill Consolidation Code Order No. 40 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 OPERATOR CERTIFICATION I hereby certify that the information berein is true and complete to the best of my knowledge and belief, and that this organization alther orms a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order beretofore cutered by the division. 4,153.0' 4152.2 80 1980 <u>600'</u> 4157.5' 4152.5 have 10/15/07 /Date INDYCHAVEZ Printed Name SURVEYOR CERTIFICATION I hereby certify that the mell location shown on this plat was plotted from field notes of actual surveys made by me ar under my supervision, and that the same is true and correct to the best of my belief. GEODETIC COORDINATES NAD 27 NME Y=944753.1 N

State of New Mexico

Energy, Minerals and Natural Resources Department

Y=944753.1 N X=641135.1 E LAT.=32.596221' N LONG.=104.869845' W Date Satrojaal Suggrapr Grafinal Suggrapr Certificate No. GARY EIDSON 12041 RONALD J. EIDSON 12041 LOCATION VERIFICATION MAP



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VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>27</u> TWP. <u>8-S</u> RGE. <u>30-E</u>					
SURVEY N.M.P.M.					
COUNTY_CHAVES_STATE_NEW_MEXICO					
DESCRIPTION 660' FNL & 1980' FWL					
ELEVATION 4153'					
CANO PETRO OPERATOR OF NEW MEXICO					
LEASE <u>CSAU</u>					



APPLICATION TO PERMIT TO DRILL

FOR

CANO PETRO OF NEW MEXICO

LOCATION:

.

Cato San Andres Unit Federal 404 660 North & 1980 West Sec. 27-T08S-R30E Chaves County, New Mexico

DRILLING CONTRACTOR:

UNION DRILING, INC. 4725 Loop 322, Abilene Texas 79602

NM-82050X

15,322

February 1, 2007

FEDERAL LEASE NUMBER:

LEASE ISSUED:

ACRES IN LEASE:

AUTHORITY TO OPERATE:

BOND COVERAGE:

SURFACE & MINERAL OWNERSHIP: Cano Petro of New Mexico 801 Cherry Street, Unit #25 Suite 3200 Fort Worth, Texas 76102

\$25,000.00 S/W BLM Bond No. NMB000465

Bureau of Land Management, Roswell, New Mexico

APPLICATION TO PERMIT TO DRILL

Drilling Plan

Cato San Andres Unit Federal 404 660 North & 1980 West Sec. 27-T08S-R30E Chaves County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Cano Petro of New Mexico submits the following items of pertinent information in accordance with Onshore Oil & Gas Order No 1, and with all other applicable federal, state and fee regulations.

The Drilling Plan consists of the following:

· · · , · ·

1. Estimated tops of geologic markers are as follows:

Rustler	1,047 ft
Yates	1409 ft
Seven Rivers	1,580 ft
Queen	2,073 ft
San Andres	2,543 ft

2. Depths and thickness of:

Fresh water-	500'
Oil or Gas -	San Andres

3. BOPE diagram showing:

Press Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 2000# BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report . SEE EXHIBIT A

4. Casing program:

and the second

· ·

Hole Size	Casing Size	Wt./Ft	Grade	Coupling	Interval	Setting Depth	Length
12 ¼"	8 5/8"	24#	J55	ST&C	0-950'	500	950'
7 7/8	5 ½	15.5	J55	ST&C	0-4990'	4000	4990"

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5. Cement (amount and type):

Min 200 sx 50 / 50 pos

6: Drilling Mud (amount, type weight material, and monitoring equipment)

Monitor with Drilling Mud Consultant. Fresh water to 2000-2500' Convert to fresh water mud Weight 9.5-10.0 ppg with water loss Set @ 10. Convert to gel When chlorides reach 20,000 ppm Finish well with salt gel/ starch system

7. Testing, Logging, and Coring:

Testing: Baker Altas Logging: Baker Altas Coring: not determined

8. Expected bottom hole pressure and temperatures.

Bottom hole pressure 300 psi Temperatures 100°

9. Additional information:

None

CANO PETRO OF NEW MEXICO Fort Worth, Texas

Cato San Andres unit Federal 404 660 North & 1980 West Sec. 27-T08S-R30E Chaves County, New Mexico





1. K., J.



BOP DIAGRAM 2000# Working Pressure Rams Operation Daily

. Į	New Mexico Oil C			Distric	t I		
Form 3160-5 (August 2607) UNITED STAMES bs, NM 88240 DEPARTMENT OF THE INTERIOR					FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010		
BUREAU OF LAND MANAGEMENT					5. Lease Serial No. NM022636		
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					6. If Indian, Allottee or Tribe Name		
SOBMIT IN TRIFLICATE - Other Instructions on page 2.					7. If Unit of CA/Agreement, Name and/or No. NM-82050X		
1. Type of Well ✓ Oil Well Gas Well Other					8. Well Name and No. CSAU Federal 404		
2. Name of Operator Cano Petro of New Mexico, Inc.					9. API Well No. 30-005-27969		
3a. Address 801 Cherry Street, Unit #25 Suite 3200, Fort Wor	th, Texas 76102	3b. Phone No. 817-698-0900	(include area code	2)	10. Field and Pool or Exploratory Area CATO SAN ANDRES FIELD		
4. Location of Well (<i>Footage</i> , <i>Sec.</i> , <i>T.</i> , <i>R</i> 27-08S-30E 660-N-1980-W	.,M., or Survey Description))			11. Country or Parish, State New Mexico		
12. CHECI	K THE APPROPRIATE BO	X(ES) TO INDI	CATE NATURE	OF NOTIC	E, REPORT OR OTHE	R DATA	
TYPE OF SUBMISSION			TYPI	E OF ACT	ION		
Notice of Intent	Acidize	Deepe	n re Treat	_	uction (Start/Resume) mation	Water Shut-Off Well Integrity	
Subsequent Report	Casing Repair		Construction and Abandon		mplete orarily Abandon	Other revise ADP	
Final Abandonment Notice	Convert to Injection	🔲 Plug I	Back	Water	r Disposal		
 testing has been completed. Final A determined that the site is ready for Attached is a revised coverletter. The There are a total of 5 revisions on the No.(1) Directions to well was revised Exhibit B is also revised No.(2) Exhibit C was include as a No.(7) Methods for handling was No (9) Well site layout. A through 	final inspection.) ne drilling constractor has e 12 Point Surface Use Pr sed an exhibit te: G. is also revised.	changed. The	revised coverlet	tter demor	nstratethe new drilling urface Use Program.		
 I hereby certify that the foregoing is tru Name (<i>Printed/Typed</i>) Cindy Chavez 	le and correct.		Title Regulatory	y Coordina		·····	
Signature With	[Cheig	>	Date 9/17/	•			
	THIS SPACE	FOR FEDE	RAL OR STA	TE OFF			
Approvedpy /S/ Angel !	Mayes					OCT 05 2007	
Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.							
Title 18 U.S.C. Section 1001 and Title 43 U fictitious or fraudulent statements or repres	J.S.C. Section 1212, make it a			l willfully to	make to any department	or agency of the United States any false,	
(Instructions on page 2)							



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PFTRA 8/27/2007 8 05;30 AM

UNION DRILLING, LLC LOCATION PLAT RIG 33



- \angle . ITASH 112
- 3. Pump
- 4. Generator
- 5. Rig
- 6. Şub
- 7. Catwalk
- 8. Doghouse
- 9. Pipe Rack
- 10, Crew Quarters



District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec. NM 87410 District IV 1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes 🗵 No 🗌 Type of action Registration of a pit or below-grade tank 🔲 Closure of a pit or below-grade tank 🖪

Operator Cano Petro of New Mexico, Infephor	e 817-698-0900 e-mail address cin	dy@canopetro.com			
Address 801 Cherry Street, Unit #25 Sui	te 3200, Fort Worth, Texas	76102			
	Rew Well U/L or Qtr/Qtr _ C	Sec27T8SR_30E			
County Chaves Latitude 32.596221 N Longitude 104.869845 WAD 1927 1983					
Surface Owner Federal 🖄 State 🗌 Private 🗋 Indian 🗋					
Pit	Below-grade tank				
Type Drilling 🖾 Production 🗋 Disposal 🗖	Volumebbl Type of fluid				
Workover Emergency	Construction material				
Lined 🖾 Unlined 🗌	Double-walled, with leak detection? Yes 🛛 If not	, explain why not			
Liner type Synthetic \Box Thickness <u>12</u> mil Clay \Box	Will use a pit and not a below-grade tank.				
Pit Volume 2000 bbl					
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)			
high water elevation of ground water)	50 feet or more, but less than 100 feet \mathbf{x}	(10 points) X			
	100 feet or more	(0 points)			
Wellhead protection area (1.ess than 200 feet from a private domestic	Yes	(20 points)			
water source, or less than 1000 feet from all other water sources)	No X	(0 points) X			
Distance to surface water (becapital distance to all watlands player	Less than 200 feet	(20 points)			
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	200 feet or morc, but less than 1000 feet	(10 points)			
	1000 feet or more X	(0 points) X			
	Ranking Score (Total Points)	20 points			
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location. (check the onsite box if					

your are burying in place) onsite 🖾 offsite 🔲 If offsite, name of facility_____ (3) Attach a general description of remedial action taken including

remediation start date and end date (4) Groundwater encountered No 🖾 Yes 🗔 If yes, show depth below ground surface ft and attach sample results (5) Attach soil sample results and a diagram of sample locations and excavations

Additional Comments

I hereby certify that the information above is true and complete to the best of my knowledge and belief I further certify that the above-described pit or below-grade tank bas been/will be constructed or closed according to NMOCD guidelines 🖾, a general permit 🗔, or an (attached) alternative OCD-approved plan 🗋.

Date 8/22/07 Printed Name/Title

Cindy Chavez, Regulatory Coord

Your certification and NMOCD approval of this application/closure does not relieve the operator of hability should the contents of the ph or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval.

Chin William Date 10/16/07 Printed Name/Title CARLS WILLIAMS / DIST SUP Signature