Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

BUREAU OF LAND MANAGEMENT			NMSF078995		
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name				
1a. Type of Work: 🛛 DRILL 🔲 REENTER			7. If Unit or CA Agreemer	it, Name and No.	
lb. Type of Well: ☐ Oil Well ☐ Gas Well	ther: CBM 🏿 Sin	ngle Zone	8. Lease Name and Well N SAN JUAN 31-6 UNIT		
Name of Operator Contact CONOCOPHILLIPS COMPANY	: PATSY CLUGSTO E-Mail: plclugs@ppco.cc	om	9. API Well No. 30039 2	27336	
3a. Address 5525 HWY. 64 FARMINGTON, NM 87401	3b. Phone No. (inclu Ph: 505.599.345 Fx: 505-599-344	[']	10. Field and Pool, or Exp BASIN FRUITLAND	loratory D COAL	
4. Location of Well (Report location clearly and in accord	lance with any State req	uirements.*)	11. Sec., T., R., M., or Blk	and Survey or Area	
At surface SENW 1825FNL 1970FW	L 36.87361 N Lat, 1	107.48610 W Lon	Sec 29 T31N R6W Mer NMP		
At proposed prod. zone	A	891011727	S F		
14. Distance in miles and direction from nearest town or pos 21 1/2 MILES FROM BLANCO, NM	t office*	77 2003	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 I	ease	17. Spacing Unit dedicated	d to this well	
1825	2560.00		320.00 W/S		
18. Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft.	, 19. Proposed Depth	÷.,	20. BLM/BIA Bond No. o	n file	
completed, applied for, on this lease, it.	3325 MD 3325 TVD		ES0085		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6490 GL	22. Approximate date 04/15/2003	e work will start	23. Estimated duration 30 DAYS		
	24. Att	tachments			
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.		4. Bond to cover the operation	ns unless covered by an exist	ing bond on file (see	
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy SUPO shall be filed with the appropriate Forest Service C 		Item 20 above). 5. Operator certification 6. Such other site specific infauthorized officer.	formation and/or plans as ma	y be required by the	
25. Signature (Electronic Submission)	Name (Printed/Typed PATSY CLUGS			Date 03/07/2003	
Title AUTHORIZED REPRESENTATIVE	<u> </u>				
Approved by (Signature)	Name (Printed/Typed	1)	*	Date	
Title /s/ David J. Mankiewicz	Office			APR -7 2003	
Application approval does not warrant or certify the applicant loperations thereon. Conditions of approval, if any, are attached.	iolds legal or equitable ti	tle to those rights in the subject le	ease which would entitle the a	pplicant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 States any false, fictitious or fraudulent statements or represent			o make to any department or	agency of the United	

Additional Operator Remarks (see next page)

Electronic Submission #19343 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, 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 3165.3 and appeal pursuant to 43 CFR 3185.4

District I 180 Box 1980, Hobbs, NM 88241-1980 District II

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994 Instructions on back

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District III				OIL	2040 S	outh	Pacheco	N	Su	Dinit to Aj	State	ate District Offi Lease - 4 Copi
1000 Riu Brazos R District IV	id., Aztec,	NM 87410			Santa F	e, N	NM 87505				Fee	Lease - 3 Copi
2040 South Pachee	io, Santa I	fe, NM 8750S	;								JAME	ENDED REPOR
		W	ELL LC	CATI	ION AND	ACF	REAGE DEDIC	CA	TION PL	AT -		
3002	Numb		/	1 Poul	y				' Pool Na			
Pruperty C	9-27556 71629 Basin Fruitland Coa				1		Wall Number					
31328	31328 SAN JUAN 31-6 UNIT					234	4A					
OGRID N 217817	to.			 , Ci			crator Name LIPS COMPANY			J	64	Elevation
	-						Location					
Ul. or lot no.	Section	Township	Runge									
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12 Northead Asses	la laint	or Infill "	* Compalie	L. Cada	14 Order No.		<u> </u>					<u> </u>
" Dedicated Acres 320 W/2	y Joint		Consolidation U	A Code	" Orner No.							
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	<i>)</i>						APPROVED BY				01100	JIDATED VK
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Certificate Number

PHILLIPS PETROLEUM COMPANY

LL NAME: San	1 Juan 31-6 Unit #234A
LLING PROGNOSIS	
Location of Proposed Wel	l: <u>Unit F. 1825' FNL & 1970' FWL</u> <u>Section 29, T31N, R6W</u>
Unprepared Ground Eleva	tion: <u>@ 6490'</u>
The geological name of th	e surface formation is <u>San Jose</u>
Type of drilling tools will	be <u>rotary</u>
Proposed drilling depth is	3325' .
The estimated tops of imp Naciamento - 1145' Ojo Alamo - 2445' Kirtland - 2560' Fruitland - 3085' Top of Coal - 3150'	ortant geologic markers are as follows: Base Coal Interval – 3295' Pictured Cliffs Tongue- 3330' Picture Cliffs - 3485' Interm. Casing - 3130' T. D 3325'
	which anticipated water, oil, gas or other mineral bearing be encountered are as follows:
Oil: Gas: Fru	Alamo - 2445' - 2560' none itland Coal - 3150' - 3485' itland Coal -
The proposed casing progr	ram is as follows:
required to maintain hole s	
	.5 sx - 13.5 ppg, Class G cement + 0.25#/sx D029 (lost celerator) & 4% D020 (extender) Yield = 1.27 ft3/sx Volume with 100% excess = 29.4
	LLING PROGNOSIS Location of Proposed Wel Unprepared Ground Eleva The geological name of the Type of drilling tools will Proposed drilling depth is The estimated tops of imperiod Naciamento - 1145' Ojo Alamo - 2445' Kirtland - 2560' Fruitland - 3085' Top of Coal - 3150' The estimated depths at formations are expected to Water: Oil: Gas: Gas: Fruiting: Gas & Water: Fruiting: The proposed casing program: Surface String: 9-5/8", 3 Intermediate String: 7", 20 Production Liner: 5-1/2", * The surface casing water required to maintain holes. Cement Program: Surface String: 112 circulation), 4% S001 (according)

9. Cement program: (continued from Page 1)

Intermediate String: Lead – 392.0 sx – 11.7 ppg, Class G cement + 0.25#/sx D029 (lost circulation), 3% D0079 (extender), 0.2% D046 (anti-foam), Yield – 2.61 ft3/sx, Mis water = 15.79 gal/sx. Volume from 2925' to surface with 150% excess in open hole = 182.21 bbls.

Tail - 96.8 sx - 13.5 ppg, 50/50 Class G/POZ + 0.25#/sx D029(lost circulation), 5#sx D024 (lost circulation), 5#sx D024 (extender), 2% D020 (extender), 2% S001 (accelerator), 0.1% D046 (anti-foam). Yield - 1.27 ft3/sx, Mix water = 6.33 gal/sx. Volume from 3697' to 2925' with 150% excess - 21.89 bbls.

Note: ConocoPhillips Company continually works to improve the cement slurries on our wells. Our Cementing Service Companies are currently trying to improve what we are using now and before we would use a new cement program it would have to have stronger properties than we are currently using.

Centralizer Program:

Surface: Total four (4) - 10' above shoe and top of 2nd, 3rd, & 4th its.

Intermediate: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, &

1st jt. into shoe.

Turbulators: Total three (3) - one at 1st jt below Ojo Alamo and next 2 jts up.

Liner:

- If the coal is cleated a 5 ½" 15.5# liner will be run in the open hole without being cemented.
- If the coal is NOT cleated, a 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation. The top of the liner will be set approx. 200' into the 7" casing and be set @ TD and be cement in place as follows:

Lead Cement: Class G cement + 0.25#/sx D029 (lost circulation), 3% D0079 (extender), 0.2% D046 (anti-foam), Yield - 2.61 ft3/sx, Mis water = 15.79 gal/sx. Volume from 2925' to surface with 150% excess in open hole

Tail Cement: 50/50 Class G/POZ + 0.25#/sx D029(lost circulation), 5#sx D024 (lost circulation), 5#sx D024 (extender), 2% D020 (extender), 2% S001 (accelerator), 0.1% D046 (anti-foam). Yield - 1.27 ft3/sx, Mix water = 6.33 gal/sx. Volume with 150% excess.

San Juan 31-6 #234A

SURFACE CASING:

Drill Bit Diameter	12.25 "	
Casing Outside Diameter	9.625 "	8.989
Casing Weight	32.3 ppf	
Casing Grade	H-40	
Shoe Depth	200 '	40 '
Cement Yield	1.27 cuft/sk	
Excess Cement	100 %	

Casing Capacity 0.0785 bbl/ft 0.4407 cuft/ft Hole / Casing Annulus Capacity 0.0558 bbl/ft 0.3132 cuft/ft

Cement Required 112.5 sx

200 ', 9.625 ", 32.3 ppf, H-40

INTERMEDIATE CASING :

Drill Bit Diameter	8.75	
Casing Outside Diameter	7 "	6.455
Casing Weight	20 pp+	
Casing Grade	J-55	
Shoe Depth	3130	
Lead Cement Yield	2.61 cutt/sk	
Lead Cement Excess	150 %	
Tail Cement Length	300 '	45 '
Tail Cement Yield	1.27 coll/sk	
Tail Cement Excess	150 %	

Casing Capacity 0.0405 bbl/ft 0.2272 cuft/ft Casing / Casing Annulus Capacity Hole / Casing Annulus Capacity 0.0309 bbl/ft 0.1734 cuft/ft 0.0268 bbl/ft 0.1503 cuft/ft

Lead Cement Required Tail Cement Required 392.0 sx 96.8 sx

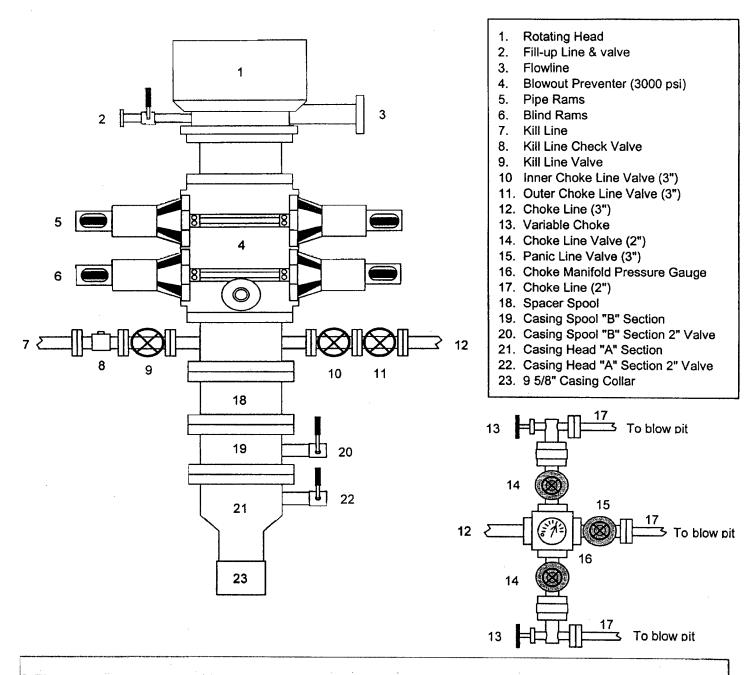
LINER TOP 3110 '

SHUE

SHOE 3130 ', 7 ", 20 ppf, J-55

LINER BOTTOM 3325

BLOWOUT PREVENTER HOOKUP



Drilling contractors used in the San Juan Basin suppy 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 thought 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