Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.

		NMSF079048		
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name			
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Name and		
1.7		· · · · · · · · · · · · · · · · · · ·	1343	
	her: CBM Single Zone Multiple Zone	8. Lease Name and Well No. SAN JUAN 32 FED 28 1A		
2. Name of Operator Contact: PHILLIPS PETROLEUM COMPANY	PATSY CLUGSTON E-Mail: plclugs@ppco.com	9. API Well No. 30 0453/3	30	
3a. Address 5525 HWY. 64 FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505.599.3454 Fx: 505-599-3442	10. Field and Pool, or Exploratory BASIN FRUITLAND COAL		
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Surve	y or Area	
At surface NWNW 1000FNL 1170FW	/L 36.96028 N Lat, 107.78920 W Lon	Sec 28 T32N R9W Mer NMP		
At proposed prod. zone		0		
14. Distance in miles and direction from nearest town or post 17.8 MILES NNE OF AZTEC, NM	office*	12. County or Parish SAN JUAN	3. 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 wel	1	
1000	2080.00	317.78 W/2		
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file		
completed, applied for, on this lease, it.	3575 MD 3575 TVD	ES0048		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6765 GL	22. Approximate date work will start 03/01/2003	23. Estimated duration 30 DAYS		
	24. Attachments			
The following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service O 	stem Lands, the ffice). Item 20 above). 5. Operator certification 6. Such other site specific in authorized officer.	r certification her site specific information and/or plans as maybe required by the		
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON	N- 5 Pate 01/03	3/2003	
Title AUTHORIZED REPRESENTATIVE	The state of the s			
Approved by Pavid J. Mankiewicz	Name (Printed/Typed)	OS. V.E. J. DFEB	1 3 200	
Title	Office			
Application approval does not warrant or certify the applicant h	olds legal or equitable title to those rights in the subject	ease which would entitle the annihimate	conduct	
operations thereon. Conditions of approval, if any, are attached.	is the subject is	oute which would entitle the applicant to	conduct	

Additional Operator Remarks (see next page)

Electronic Submission #17270 verified by the BLM Well Information System For PHILLIPS PETROLEUM COMPANY, sent to the Farmington

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

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

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III

1000 Rio Brazos Rd., Axtec, N.M. 87410

2040 South Pacheco, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, NM 87504-2088

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT											
30-	OU.S	Humber - 3/	/330	71 ﴿	*Pool Cods		sin Fruitland	Pool Na i Coal	me		
Property Code Property Name Well Number											
23394 SAN JUAN 32 FED 28					1A Bevation						
017654 PHILLIPS PETROLEUM COMPANY					6765						
······································						10 Surface	Location				· · · · · · · · · · · · · · · · · · ·
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D 28 32N 9W 1000 NORTH 1170 WE				WES	T	SAN JUAN					
¹¹ Bottom Hole Location If Different From Surface											
	lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Ve	at line	County
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PHILLIPS PETROLEUM COMPANY

WELL	NAME: San	Juan 32 Fed 28 #1 A
DRILI	LING PROGNOSIS	
1.	Location of Proposed Well	Unit D, 1000' FNL & 1170' FWL Section 28, T32N, R9W
2.	Unprepared Ground Elevat	ion: <u>@ 6765'</u> .
3.	The geological name of the	surface formation is <u>San Jose</u> .
4.	Type of drilling tools will	pe_rotary.
5.	Proposed drilling depth is	<u>3575'</u> .
6.	Naciamento - 740'	ortant geologic markers are as follows:
	Ojo Alamo - 1995'	Base of Coal - 3575'
	Kirtland - 2025'	Picture Cliffs - 3575'
	Fruitland - 3160'	Interm. Casing - 3325'
	Top of Coal - 3165'	T. D 3575'
7.	formations are expected to Water: Oio Oil:	which anticipated water, oil, gas or other mineral bearing be encountered are as follows: Alamo - 1995' - 2025' none tland Coal - 3165' - 3575'
		tland Coal - 3165' - 3575'
8.	The proposed casing programmed Surface String: 9-5/8", 3 Intermediate String: 7", 20	am is as follows:
	* The surface casing w required to maintain hole s	ill be set at a minimum of 200', but could be set deeper if tablity.
9.	casing/hole annulus volun	7 sx Type III cement. Cement to surface w/110% excess of the w/Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx water (14.5 ppg). (1.41 cf/sx yield = 145 cf)

9. Cement program: (continued from Page 1)

Intermediate String: Lead Cement: 380.2 sx Type III cement. Cement to surface -110% excess casing/hole annular volume w/ Type III cement + 0.25#/sx Cello-flake + 5#/sx Gilsonite + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 mixed + 0.02#/sx static free mixed at 12.0 ppg. (2.52 cf/sx yield = 958cf)

> Tail: 50 sx Type III cement + 0.25#/sx Cello-flake + 1% Calcium Chloride mixed at 14.5 ppg. (1.40 cf/sx yield = 70 cf)

Note: Phillips Petroleum continually works to improve the cement slurries on our wells. BJ Services is 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 it below Ojo Alamo and next 2 its up.

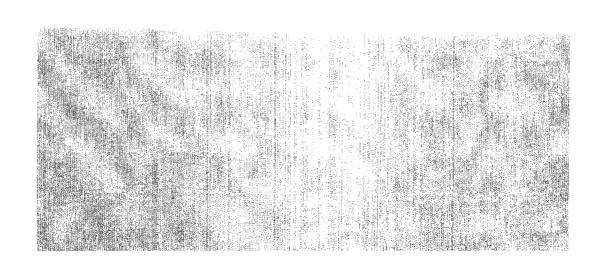
Liner:

If the coal is cleated a 5 1/2" 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: Type III cement - 150% excess casing/hole annular volume w/Type III cement + 0.25#/sx Cello-flake + 5#/sx Gilsonite + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 mixed + 0.02#/sx static free mixed at 12.0 ppg. (2.52 cf/sx yield)

> Tail: 50 sx Type III cement + 0.25#/sx Cello-flake + 1% Calcium Chloride mixed at 14.5 ppg. (1.40 cf/sx yield = 70 cf)



San Juan 32 Fed 28 #1A

SURFACE CASING:

Drill Bit Diameter Casing Outside Diameter	12.25 " 9.625 "	8.989
Casing Weight	32.3 ppf	
Casing Grade	H-40	
Shoe Depth	200 '	30 '
Cement Yield	1.41 cuft/sk	
Excess Cement	110 %	

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

Cement Required 102.7 sx

SHOE 200 ', 9.625 ", 32.3 ppf,

INTERMEDIATE CASING:

Drill Bit Drameter Casing Outside Diameter	8.75 °	6.455
Casing Weight	20 ppf	0.400
Casing Grade	J-55	
Shoe Depth	3325	
Lead Cement Yield	2.52 cuft/sk	
Lead Cement Excess	110 %	
Tail Cement Length	200	30 '
Tail Cement Yield	1/4 cuft/sk	
Tail Cement Excess	110 %	

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

Lead Cement Required 380.2 sx Tail Cement Required 50.0 sx

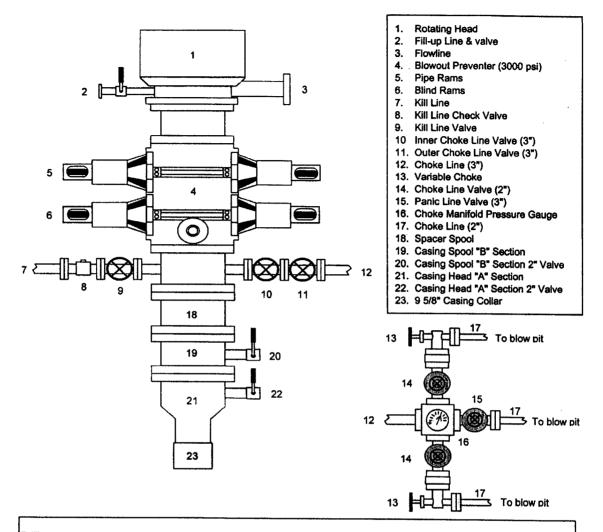
LINER TOP 3:

3305 '

SHOE 3325', 7", 20 ppf,

LINER BOTTOM 3575

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

