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

DEITH CITY OF A	IIID II					
BUREAU OF LAND	5. Lease Serial No. NMSF079013					
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name					
1a. Type of Work: DRILL REENTER			7. If Unit or CA Agreemen	1t, Name and No. 3/330		
1b. Type of Well: ☐ Oil Well ☐ Gas Well 🗖 Otl	ner: CBM 🙀 Sin	gle Zone	8. Lease Name and Well N SAN JUAN 32-8 UNIT			
<del>-</del>	PATSY CLUGSTO E-Mail: plclugs@ppco.co	N	9. API Well No.	21339		
3a. Address 5525 HWY. 64 FARMINGTON, NM 87401	3b. Phone No. (inclu- Ph: 505.599.345 Fx: 505-599-344	4	30045 10. Field and Pool, or Exp BASIN FRUITLAND	loratory		
4. Location of Well (Report location clearly and in according	11. Sec., T., R., M., or Blk. and Survey or Area					
At surface SENW 1725FNL 1770FWI	L 36.95778 N Lat, 1	07.70060 W Lon	FSec 29 T32N R8W	Mer NMP		
14. Distance in miles and direction from nearest town or post 44.7 MILES FROM BLOOMFIELD, NM	office*		12. County or Parish SAN JUAN	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 L	ease	17. Spacing Unit dedicate	d to this well		
1770	2560.00		320.00			
18. 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			
	3529 MD 3529 TVD		ES0048	E 27 20 20 0		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6629 GL	22. Approximate date 03/01/2003	e work will start	23. Estimated duration 30 DAYS	Serve Signature		
	′ 24. Att	achments	22	Jug 34. M		
The following, completed in accordance with the requirements of	f Onshore Oil and Gas (		<b>,</b> , , , , , , , , , , , , , , , , , ,	3 J		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	em Lands, the fice).	4. Bond to cover the operatio Item 20 above). 5. Operator certification 6. Such other site specific infauthorized officer.	formation and/or plane as ma	In O.		
25. Signature (Electronic Submission)	Name (Printed/Typed PATSY CLUGS			Date 01/14/2003		
Title AUTHORIZED REPRESENTATIVE						
Approved by (Signature) /s/ David J. Mankiewicz	Name (Printed/Typed	Name (Printed/Typed)		JAN 2 2 2003		
Title	Office					
Application approval does not warrant or certify the applicant hoperations thereon.  Conditions of approval, if any, are attached.	olds legal or equitable tit	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 representations.	make it a crime for any tions as to any matter wi	person knowingly and willfully to thin its jurisdiction.	o make to any department or	agency of the United		
	<del></del>					

Additional Operator Remarks (see next page)

Electronic Submission #17621 verified by the BLM Well Information System For PHILLIPS PETROLEUM COMPANY, sent to the Farmington

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

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., Astec, N.M. 87410

DISTRICT IV

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 I	OCATIO	N AND A	CREAGE DED	ICATION P	LAT	
30-8	30065-31339 Pool Code Basin Fruitland Coal								
Property C	Property Code Property Name				Well Number				
-009261 *DGRID N						208A			
OPERATOR Name O17654 PHILLIPS PETROLEUM COMPANY					* Elevation 6629				
<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Pest from the	East/West	line County
F	29	32N	8W		1725	NORTH	1770	WEST	SAN JUAN
		T		m Hole		If Different Fro			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County
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#### PHILLIPS PETROLEUM COMPANY

WE	LL NAME: San Juan 32-8 Unit #208A						
DRI	LLING PROGNOSIS						
	Location of Proposed Well  Unit F, 1725' FNL & 1770' FWL,  Section 29, T32N, R8W						
2	Unprepared Ground Elevation: @ 6629'						
3.	The geological name of the surface formation is San Jose						
4.	Type of drilling tools will be <u>rotary</u>						
<b>5</b> .	Proposed drilling depth is 3529'.						
6.	The estimated tops of important geologic markers are as follows:  Naciamento - 729'  Ojo Alamo - 2249'  Base Coal Interval - 3529'  Kirtland - 2294'  Picture Cliffs - 3529'  Fruitland - 3124'  Interm. Casing - 3294'  Top of Coal - 3269'  T. D 3529'						
7.	The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:						
8.	Water: Ojo Alamo - 2249' - 2294' Oil: none Gas: Fruitland Coal - 3269' - 3529' Gas & Water: Fruitland Coal - 3269' - 3529' The proposed casing program is as follows:						
	Surface String: 9-5/8", 32.3#, H-40 @ 200' * Intermediate String: 7", 20#, J/K-55 @ 3294' Production Liner: 5-1/2", 15.5# J/K-55 @ 3274' - 3529' (see details below)  * The surface casing will be set at a minimum of 200', but could be set deeper if required to maintain hole stablity.						
9.	Cement Program: Surface String: 102.7 sx Type III cement. Cement to surface w/110% excess of						

casing/hole annulus volume w/Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx

Cello-flake + 60.6% Fresh water (14.5 ppg). (1.41 cf/sx yield = 145 cf)

9. Cement program: (continued from Page 1)

Intermediate String: Lead Cement: 376.3 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 = 948)

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 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> its.

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

1<sup>st</sup> 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 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: 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)

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

11 Drilling Mud Prognosis:

Surface - spud mud on surface casing.

Intermediate - fresh water w/polymer sweeps. Bentonite as

required for viscosity.

Below Intermediate - air drilled.

12. The testing, logging, and coring programs are as follows:

D.S.T.s or cores:

Logs: Mud logs only

Anticipated no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H<sub>2</sub>S equipment will be used.

Estimated Bottomhole pressures:

Fruitland Coal - +/- 730 psi

14. The anticipated starting date is sometime around March 1, 2003 with duration of drilling operations for approximately 30 days thereafter.

2003drill\ 32-8 #208A drill prog.doc

#### San Juan 32-8 Unit #208A

#### **SURFACE CASING:**

**Drill Bit Diameter** Casing Outside Diameter Casing Weight Casing Grade Shoe Depth Cement Yield

8.989 32.3 ppf 30' cuft/sk

Casing Capacity Hole / Casing Annulus Capacity

0.0785 bbl/ft 0.4407 cuft/ft 0.0558 bbl/ft 0.3132 cuft/ft

**Cement Required** 

**Excess Cement** 

102.7 sx

SHUE

200 ', 9.625 ",

32.3 ppf,

#### **INTERMEDIATE CASING:**

**Drill Bit Diameter** Casing Outside Diameter Casing Weight **Casing Grade** Shoe Depth Lead Cement Yield **Lead Cement Excess** Tail Cement Length Tail Cement Yield **Tail Cement Excess** 

6.455 20 ppf J-55 2.52 cuft/sk 110 % 1.4 cufVsk

Casing Capacity Casing / Casing Annulus Capacity Hole / Casing Annulus Capacity

0.0405 bbl/ft 0.0309 bbl/ft 0.0268 bbl/ft

0.2272 cuft/ft 0.1734 cuft/ft 0.1503 cuft/ft

30 '

**Lead Cement Required Tail Cement Required** 

376.3 sx 50.0 sx

**LINER TOP** 

3274 '

SHOE

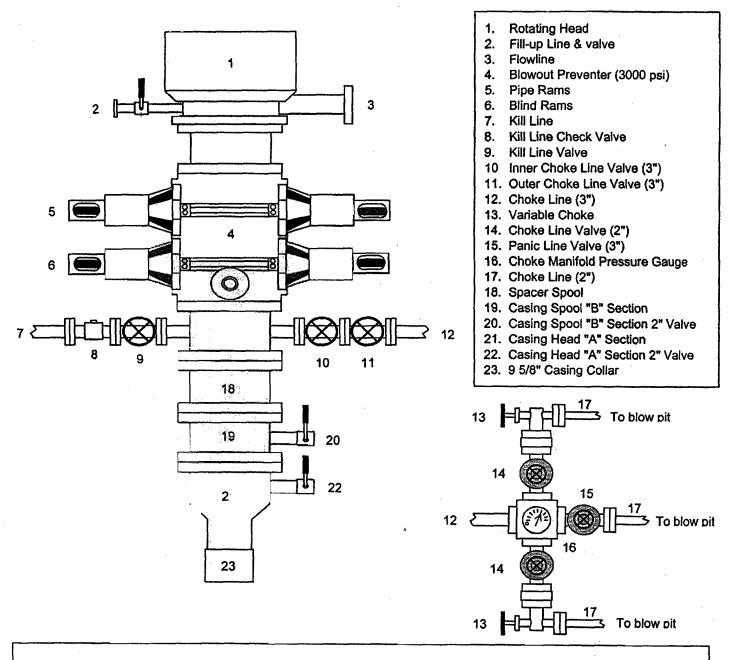
3294 ',

7 ",

20 ppf,

**LINER BOTTOM** 

#### **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