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## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

BUREAU OF LAND	5. Lease Serial No. NMSF079341		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	
/ la. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
/ Ib. Type of Well: ☐ Oil Well ☐ Gas Well 🙀 Oi	ther: CBM Single Zone  Multiple Zone	8. Lease Name and Well No. SAN JUAN 32 FED 23 2A	
Name of Operator Contact     PHILLIPS PETROLEUM COMPANY	: PATSY CLUGSTON E-Mail: plclugs@ppco.com	9. API Well No. 30 045 3/3/4	
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	lance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area	
At surface NWNW 780FNL 820FWL At proposed prod. zone	36.97500 N Lat, 107.75440 W Lon	Sec 23 T32N R9W Mer NMP	
14. Distance in miles and direction from nearest town or pos	t office*	12. County or Parish 13. State	
20.5 MILES FROM AZTEC, NM	JAN 2003 7	SAN JUAN 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 well	
780	1560.00 OIL COMB. DN. 65	317.51 W/2	
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>		20. BLM/BIA Bond No. on file	
	3626 MD 3626 TVD	ES0048	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6836 GL	22. Approximate date work will start 02/01/2003	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:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	4. Bond to cover the operation item 20 above).	ons unless covered by an existing bond on file (see	
A Surface Use Plan (if the location is on National Forest Sy SUPO shall be filed with the appropriate Forest Service C	stem Lands, the 5. Operator certification	formation and/or plans as may be required by the	
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON	Date 01/02/2003	
Title AUTHORIZED REPRESENTATIVE			
Approved by (Signature)	Name (Printed/Typed)	Date	
/s/ David J. Mankiewicz	000	JAN 2 3 2003	
Title	Office		
Application approval does not warrant or certify the applicant operations thereon.  Conditions of approval, if any, are attached.	nolds legal or equitable title to those rights in the subject	lease which would entitle the applicant 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	, make it a crime for any person knowingly and willfully ations as to any matter within its jurisdiction.	to make to any department or agency of the United	
	J		

Additional Operator Remarks (see next page)

Electronic Submission #17258 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".

DESTRICT I P.O. Bex 1980, Hobbs, N.M. 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised Febuary 21, 1994 Instructions on back Submit to Appropriate District Office

DISTRICT II 811 South First, Artosia, N.M. 88210 DISTRICT III

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87504-2088

AMENDED REPORT

		-	WELL I	OCATIO	N AND A	CREAGE DED	ICATION F	LAT	Martin.	DED REFOR
30-045-313/4 71629 Basin Fruitland Coal										
Property C		2.3	.( &		Property		and Coar		* W	all Number
-24281 *OGRID N	0.	313	<u>4 0</u>	SA	N JUAN 32	FED 23		···		2A Elevation
017654		217	817	PHILLI	_	UM COMPANY				6836
_						Location				
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UL or lot no.	Section	Township	Range	lot ldn	Feet from the	Morth/South line	Feet from the	East/Ve	et line	County
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# PHILLIPS PETROLEUM COMPANY

WELI	L NAME:	San Juan 32 Fed 2	3 #2A	
DRIL	LING PROGNOSIS			
	Location of Proposed		' FNL & 820' FWL T32N, R9W	<del></del>
2.	Unprepared Ground	Elevation:	@ 6836'	
3.	The geological name	of the surface forma	tion is <u>San Jose</u> .	
4.	Type of drilling tools	will be <u>rotary</u>		
5.	Proposed drilling de	oth is <u>3626'</u> .		
6.	Naciamento -         87           Ojo Alamo -         21           Kirtland -         21	71' Bas 71' Pic	markers are as follows  se of Coal - 3626'  ture Cliffs - 3636'  erm. Casing - 3396'  D 3626'	
7.	The estimated dept formations are expec			or other mineral bearing
	Water:	Ojo Alamo -	2151' – 2171'	W
	Oil:	non		
	Gas:	Fruitland Coal -	3291' - 3626'	
	Gas & Water:	Fruitland Coal -	3291' - 3626'	<del></del>
8.	The proposed casing	program is as follow	/s:	
	Intermediate String: Production Liner: _5	· · · · · · · · · · · · · · · · · · ·	3896' @ 3376' - 3626' (see d	<u> </u>
	* The surface cas required to maintain		minimum of 200', bu	ut could be set deeper if
9.		volume w/Type III c		urface w/110% excess of cium Chloride + 0.25#/sx 145 cf)

## 9. Cement program: (continued from Page 1)

Intermediate String: Lead Cement: 389.1 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 = 981cf)

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> it. 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: 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.

1 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

13. 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 - +/- 1267 psi

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

2003drill\ 32Fed 23 #2A drill prog.doc

### San Juan 32 Fed 23 #2A

#### **SURFACE CASING**

12.25 "
9.625 " 8.989
32.3 ppf
H-40
200 ' 30 '
1.41 cuft/sk
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

SHUE

200 ', 9.625 ", 32.3 ppf,

#### **INTERMEDIATE CASING:**

Drill Bit Diameter	8.75 "	
Casing Outside Diameter	7 "	6.455
Casing Weight	20 ppf	
Casing Grade	J-55	
Shoe Depth	3396 '	
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	् <sub>ल</sub> 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 389.1 sx Tail Cement Required 50.0 sx

**LINER TOP** 

3376 '

SHOE

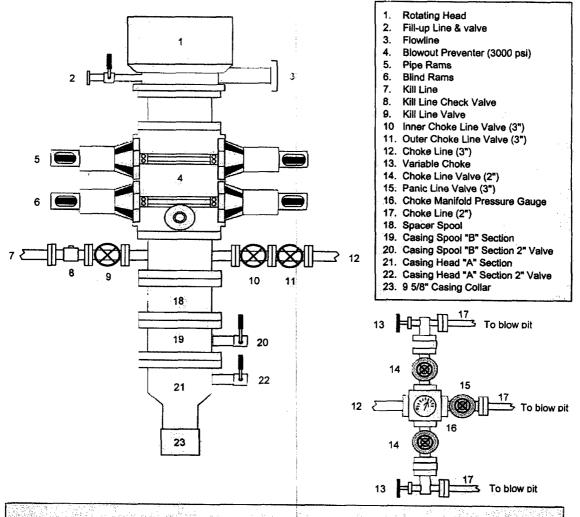
3396 ',

7 ",

20 ppf,

LINER BOTTOM 3626

#### 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

