Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BLIREAU OF LAND MANAGEMENT

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

DEPARTMENT O				
BUREAU OF LANI	5. Lease Serial No. NMSF079029			
APPLICATION FOR PERMI	6. If Indian, Allottee or Tribe	6. If Indian, Allottee or Tribe Name		
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, I	Name and No.	
lb. Type of Well: ☐ Oil Well ☐ Gas Well 🔀	Other: CBM 🛛 Single Zone 🔲 Multiple	8. Lease Name and Well No. SAN JUAN 32-8 UNIT 24	1 9A	
2. Name of Operator Conta	ct: PATSY CLUGSTON E-Mail: plclugs@ppco.com	9. API Well No. 300453/	626	
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 Explora BASIN FRUITLAND C	itory	
4. Location of Well (Report location clearly and in acco	rdance with any State requirements.*)	11. Sec., T., R., M., or Blk. ar	d Survey or Area	
	EL 36.92417 N Lat, 107.65830 W Lon	Sec 3 T31N R8W Mer	NMP	
At proposed prod. zone				
14. Distance in miles and direction from nearest town or po 33.5 MILES FROM BLOOMFIELD, NM	15 16 17 70	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) 1495'	1562.08	17. Spacing Unit dedicated to	this well	
 Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft. 	g, 19. Proposed Depth No. 3570 MD 3570 TVD	20. BLM/BIA Bond No. on fil ES0085	e	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6675 GL	22. Approximate date work will start 05/15/2003	23. Estimated duration 30 DAYS		
	24. Attachments			
The following, completed in accordance with the requirements	s of Onshore Oil and Gas Order No. 1, shall be attac	hed to this form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sysupo shall be filed with the appropriate Forest Service (ystem Lands, the Item 20 above). 5. Operator certification	operations unless covered by an existing on cific information and/or plans as may be	·	
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON		Date 04/15/2003	
AUTHORIZED REPRESENTATIVE				
Approved by (Signature) /8/ David J. Mankiewicz	Name (Printed/Typed)		Date MAY 1 3 200	
Title	Office			
Application approval does not warrant or certify the applicant operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those rights in the su	bject lease which would entitle the appli	cant to conduct	
		fully to make to any department or agen-		

Electronic Submission #20637 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

nurrator ii 811 South First, Artesia, N.M. 83810

OIL CONSERVATION DIVISION

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

INSTRICT III 1000 Rio Brazzo DISTRICT IV	z Rd., Aste	c, N.M. 8741	0	s	P.O. Box anta Fe, NM (. 	State	Lease — 4 Copie Lease — 3 Copie
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*Property (700	<u> </u>	1029	Property		id Coar		• Well Number
31330	Yo.	<u> </u>	· · · · · ·	SAN JUAN 32-8 UNIT				249A	
217817				CONC	*Operator Name CONOCOPHILLIPS COMPANY			.	* Elevation
	:			<u></u>	10 Surface			<u></u>	6675
UL er lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lir	County
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CONOCOPHILLIPS COMPANY

WEL	L NAME:	San Juan 32-8 Unit #249A	
DRII	LING PROGNOSIS	5	
1.	Location of Proposed	ed Well: Unit J, 2000' FSL & 1495' FEL Section 3, T31N, R8W	
2.	Unprepared Ground	Elevation: <u>@ 6675'</u> .	
3.	The geological name	e of the surface formation is <u>San Jose</u> .	
4.	Type of drilling tools	s will be <u>rotary</u> .	
5.	Proposed drilling dep	opth is3570'	
6.	Naciamento - 102 Ojo Alamo - 234 Kirtland - 241 Fruitland - 318	Description of important geologic markers are as follows: 120'	
7.		ths at which anticipated water, oil, gas or other mineral beauted to be encountered are as follows:	ring
	Water: Oil: Gas: Gas & Water:	Ojo Alamo - 2345' - 2415' none Fruitland Coal - Struitland Coal - 3270' - 3570' Fruitland Coal - 3270' - 3570'	
8.	Surface String: <u>9-5/</u> Intermediate String: <u>7</u> Production Liner: <u>5</u> -	g program is as follows: 5/8", 32.3#, H-40 @ 200' * 7", 20#, J/K-55 @ 3250' 5-1/2", 15.5# J/K-55 @ 3230' - 3570' (see details below) sing will be set at a minimum of 200', but could be set deeper hole stability.	er if
9.	Cement Program: Surface String: (S001), 0.25#/sx Celle	123.2 sx Class G cement with 1.16 cuft/sx yield, 2% bwoc Ca llophane Flake (D029) = 142.9 cf	<u>C12</u>

9. Cement program: (continued from Page 1)

Intermediate String:

Tuc at least 100' above sifes depth

Lead Cement: 409.2 sx Class G w/3% D079 (chemical extender) 0.25#/sx D029 (Cellephone flakes, 0.05 GPS D047 (Antifoam Agent) 0.2% D046 Flocele (All purpose antifoam agent) mixed at 11.7 ppg and yield of 2.61 cuft/sx = 1068 cf.

Tail: 96.8 sx - 50/50/G/POZ cement w/2% D020 (Bentonite Extender), 2% S001 (CaCl2), 5#/sxD024 (Gilsonite), 1/4#/sx D029(Celephane flakes) & 1% D046 (all purpose antifoam agent) @ a weight of 13.5 ppg and yield of 1.27 cuft/sx = 122.93 cf.

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 it. 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: Approx. 150% excess - Standard with 3% Econolite + 10 lbs/sx Gilsonite + 0.5 lbs/sx Flocele + mixed at 11.4 ppg with a yield of 2.91 ft³/sx

Tail: 50/50 Poz Standard with 0.25 lbs/sx Flocele + 5 lbs/sx Gilsonite + 2% Bentonite and 2% CaCl₂ mixed at 13.5 ppg with a 1.33 ft³/sx yield.

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.

San Juan 32-8 Unit #249A

SURFACE CASING:

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

Casing Capacity
Hole / Casing Annulus Capacity

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

Cement Required

123.2 sx

SHOE

200 ', 9.625 ",

32.3 ppf,

H-40

INTERMEDIATE CASING:

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

6.455
ppf
2.50
cuff/sk
1.50
%
45
Cuff/sk
1.50
%

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

0.0405 bbl/ft 0.0309 bbl/ft 0.0268 bbl/ft 0

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

Lead Cement Required Tail Cement Required 409.2 sx 96.8 sx

LINER TOP

3230 '

SHOE

3250 ',

7 ",

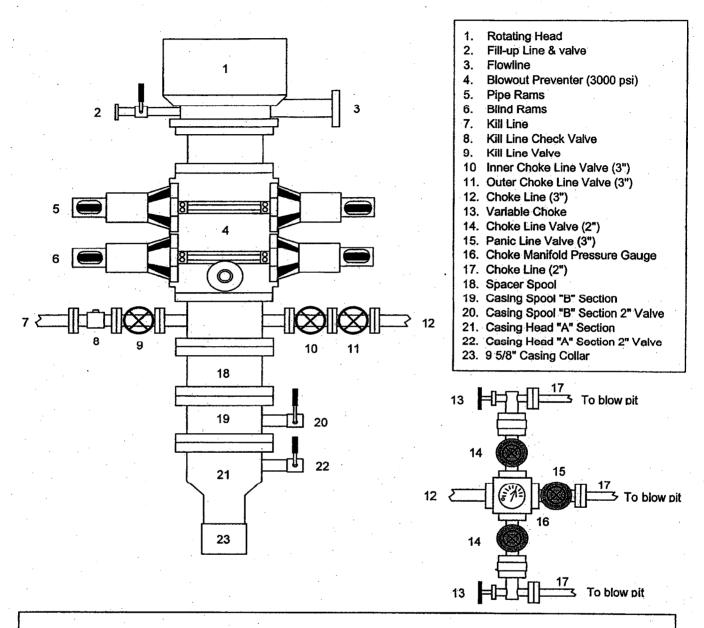
20 ppf,

J-55

LINÈR BOTTOM

(357/0)

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

San Juan 32-8 Unit #249A SF-079029; Unit J, 2000' FSL & 1495' FEL, Section 3, T31N, R8W; San Juan County, NM

Cathodic Protection

ConocoPhillips proposes to drill a cathodic protection deep well groundbed for the subject well. Will drill a 6-7/8" hole to an anticipated minimum depth of 300' (maximum depth of 500'). Cement plugs will not be used unless more than one water zone is encountered. Prior drilling history for the area indicates only one zone to that depth. If more than one water zone is encountered, notification will be made and details of cement and casing will be provided.

All drilling activity will remain on existing well pad and a Farmington based company will be doing the drilling for ConocoPhillips.