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 I	5. Lease Serial No. NMSF078999				
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name				
la. Type of Work: DRILL REENTER		7. If Unit or CA Agreement,	Name and No.		
. 1b. Type of Well: 🗖 Oil Well 🗂 Gas Well 🗖 Otl	her: CBM ☑ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. SAN JUAN 31-6 UNIT 2			
	PATSY CLUGSTON E-Mail: piclugs@ppco.com	9. API Well No. 30 039 27	410		
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 Explor BASIN FRUITLAND (atory		
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. a	nd Survey or Area		
At surface SWNW 1905FNL 490FWL At proposed prod. zone	. 36.87250 N Lat, 107.45690 W Lon	Sec 27 T31N R6W M	er NMP		
14. Distance in miles and direction from nearest town or post 59 MILES FROM BLOOMFIELD, NM		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) 490	16. No. of Acres in Lease 2560.00 APR 2003	17. Spacing Unit dedicated to	o this well		
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 3178 MD 3178 TVD	20. BLM/BIA Bond No. on fi ES0085	ile		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6313 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 of Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of 	4. Bond to cover the operation Item 20 above). 5. Operator certification	this form: ons unless covered by an existing formation and/or plans as may be	,		
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON		Date 03/31/2003		
Title AUTHORIZED REPRESENTATIVE	·				
Approved by (Signature) Approved by (Signature) Approved by (Signature)	Name (Printed/Typed)		Date 9-2-03		
Title AFM	Office FFO				
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject le	ase which would entitle the app	licant 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.		o make to any department or age	ency of the United		

Additional Operator Remarks (see next page)

Electronic Submission #20176 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 3165.3 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. 86241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

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

811 South First, Artesia, N.M. 88210

DISTRICT III

OIL CONSERVATION DIVISION P.O. Box 2088

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CONOCOPHILLIPS COMPANY

WEL:	L NAME:	San Jı	<u>uan 31-6 Unit</u>	t #231A		
DRIL	LING PROGNO	OSIS			-	
	Location of Pro	posed Well:	Unit E, 1905 Section 27,	5' FNL & 490' FWL T31N, R6W		
2.	Unprepared Gro	und Elevation	n:	@ 6313'		
3.	The geological	name of the s	urface formati	on is San Jose		
4.	Type of drilling	tools will be	rotary			
5.	Proposed drilling	g depth is	<u>3178'</u> .			
6.	The estimated to Naciamento - Oio Alamo - Kirtland - Fruitland - Top of Coal -		Base Pictur Pictu	narkers are as follows Coal Interval – 3178' red Cliffs Tongue- 317 re Cliffs - 3313' m. Casing - 2938' - 3178'	<u>8'</u>	
7.	The estimated formations are e			ted water, oil, gas or are as follows:	other mineral b	earing
	Water:	Ojo Al	amo -	2333' – 2448'		
	Oil:		none			
	Gas:		nd Coal -	2958' - 3133'	<u> </u>	
	Gas & Water:	Fruitla	nd Coal -	2958' - 3133'	***	
8	The proposed ca	ising program	is as follows	:		
	* The surface	ing: <u>7", 20#,</u> r: <u>5-1/2", 15</u> c casing will	J/K-55 @ 29 5.5# J/K-55 @ be set at a 1			eper if
	required to main	itain hole stat	<u> </u>			
9.	Cement Program Surface String Flocele + 2% Bo ft ³ /sx yield.	106.6		Z Standard with 3% b e + 0.2% CFR-3 mixed		

9. Cement program: (continued from Page 1)

Intermediate String:

Circulate 100 above Suboce shoe Min

Lead Cement: 364.3 sx Standard with 3% Econolite + 10 lbs/sx Gilsonite + 0.5 lbs/sx Flocele + mixed at 11.4 ppg with a yield of 2.61 ft³/sx = (990.82 cf = 189.33 bbl slurry)

Tail: 96.8 sx - 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 1.27 ft³/sx yield. (122.93 cf – 21.89 bbl slurry).

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 circulat Imer 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 31-6 #231A

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

SHOE

200 ', 9.625 ",

32.3 ppf,

H-40

INTERMEDIATE CASING:

Drill Bit Diameter 8.75 " **Casing Outside Diameter** 7." 6.455 Casing Weight 20 ppf Casing Grade J-55 Shoe Depth 2938 Lead Cement Yield 2.61 cuft/sk **Lead Cement Excess** 150 % 300' Tail Cement Length 45 ' Tail Cement Yield 1.27 cuft/sk Tail Cement Excess 150 %

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 364.3 sx Tail Cement Required 96.8 sx

LINER TOP

2918

3178

SHOE

2938 ',

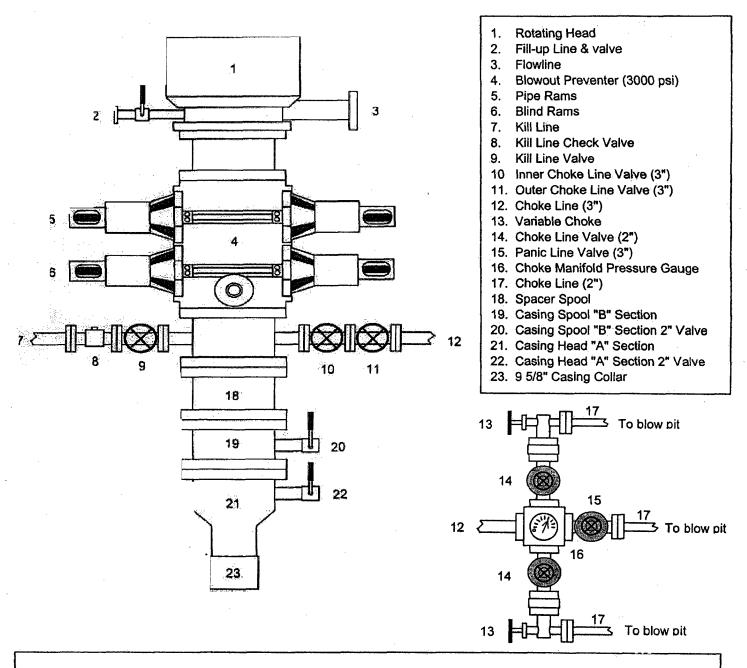
7 ",

20 ppf,

J-55

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

San Juan 31-6 Unit #231A SF-078999; Unit E, 1905' FNL & 490' FEL, Section 27, T31N, R6W; Rio Arriba County, NM

Cathodic Protection

Phillips 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 Phillips.