Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR RURFALLOF LAND MANAGEMENT

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

BUREAU OF LAND N	5. Lease Serial No. NMSF078284				
APPLICATION FOR PERMIT	TO DRILL OR RE	ENTERY 2004	6. If Indian, Allottee or Tril	be Name	
1a. Type of Work: ☑ DRILL ☐ REENTER		The state of	7. If Unit or CA Agreement, Name and No.		
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth		gle Zone Multiple Zone	8. Lease Name and Well No. SAN JUAN 29-6 UNIT 75M		
	PATSY CLUGSTOI E-Mail: plclugs@ppco.co	om Callalla	9. API Well No. 30039 2		3
3a. Address 5525 HWY. FARMINGTON, NM 87401	3b. Phone No. (included Ph: 505.599.3454 Fx: 505-599-3442	4	10. Field and Pool, or Exploratory BASIN DK & BLANCO MV		
4. Location of Well (Report location clearly and in accorded	unce with any State requ	uirements.*)	11. Sec., T., R., M., or Blk.	and Survey or	r Area
At surface SESE 10FSL 655FEL 36.7 At proposed prod. zone	0394 N Lat, 107.42	499 W Lon	Sec 23 T29N R6W I SME: BLM	Mer NMP	
14. Distance in miles and direction from nearest town or post	office*		12. County or Parish RIO ARRIBA		State VM
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		
lease line, it. (Also to heatest ting, unit line, it any)			320.00 E/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		
	7861 MD 7861 TVD				
21. Elevations (Show whether DF, KB, RT, GL, etc. 6448 GL	22. Approximate date work will start 02/01/2004		23. Estimated duration 30 DAYS		
	24. Atta	achments			
he following, completed in accordance with the requirements of	of Onshore Oil and Gas	Order No. 1, shall be attached to	this form:		4,!
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	tem Lands, the fice).	4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific intaction authorized officer.	·	-	,
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGS			Date 12/05/20	003
Title AUTHORIZED REPRESENTATIVE				· · · · · · · · · · · · · · · · · · ·	
Ap / David nd in Wanklewicz	Name (Printed/Typed)			Jate JAN 1	2 200
Title	Office		3	.1	
Application approval does not warrant or certify the applicant ho perations thereon. Conditions of approval, if any, are attached.	lds legal or equitable tit	le to those rights in the subject le	ase which would entitle the ap	oplicant to con	duct
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, a States any false, fictitious or fraudulent statements or representate	nake it a crime for any p ions as to any matter wi	person knowingly and willfully to thin its jurisdiction.	make to any department or a	gency of the U	nited

Additional Operator Remarks (see next page)

Electronic Submission #25793 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

This uplien 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 PO Box 1980, Hobbs, NM B8241-1980 State of New Mexico Form C-102 Revised February 21, 1994
Instructions on back
Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies OIL CONSERVATION DIVISION OF PO BEST 2008 District III 1000 Rio Brazos Rd., Aztec, NM 87410 PO B6€ 2088 Santa Fe, NM 87504-2088 AMENDED REPORT District IV PO Box 2088, Santa Fe. NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT 72319 \ 71599 BLANCO MESAVERDE \ BASIN DAKOTA Property Code Well Numbe 31326 TINU 3-PS NAUL NAS 75M OGRID No. *Operator Name 217817 CONOCOPHILLIPS COMPANY 6448 10 Surface Location RIO SOUTH 655 EAST 11 Bottom Hole Location If Different From Surface 320.0 Acres - E/2 (MV) 320.0 Acres - E/2 (DK) NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION 5281.32 H.E. 017433 Vicki R. Westby Printed Name Sr. Analyst LEASE SF-078284 "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by see or under youngerysion and that the same is true and correct to the best of my belief. 5280.00 Survey Date: NOVEMBER 5, 2003 5277.36" Certificate Number

CONOCOPHILLIPS COMPANY

WEI	L NAME:	San Juan 29-6 Unit #75!	M (MV/DK)						
DRII	LING PROGNOS	IS							
1.	Location of Propo	sed Well: Unit P, 10' FSL & Section 23, T29N,		•					
2.	Unprepared Grou	nd Elevation: <u>@ 6448</u>	(unprepared) .		,				
3.	The geological na	The geological name of the surface formation is <u>San Jose</u> .							
4.	Type of drilling to	ools will be <u>rotary</u> .							
5.	Proposed drilling	depth is <u>7861'</u> .		·					
6.	Nacimiento - Ojo Alamo - Kirtland Sh -	3101' Gallup - 3351' Greenhorn 3551' Two Wells 4341' Cubero -	5231' t - 5541' ale - 5791' 6821' - 7511' - 7636' 7711' te Casing - 3651'						
7.		epths at which anticipated we pected to be encountered are as		other mineral	bearing				
	Water: Gas & Water: Gas:	Fruitland - 310 Pictured Cliffs - 335 Mesaverde - 355	1' - 2721' 1' - 3351' 1' - 3551' 1' - 5791' 6' - 7861'	· · ·	•				
8.	The proposed cas	ng program is as follows:							
	Surface String:	9-5/8", 32.3# H-40 @ 166° *							
	Production String	ng: 7", 20#, J-55 @ 3651' (J only casing available) : 4-1/2", 11.6#, I-80 @ 7861 ing will be set at a minimum o tability.	' (TD)		-				

9. Cement Program:

Surface String:

110 sx 50/50 POZ, + 2% Bentonite, 3% CaCl2, 5#/sx Gilsonite. 0.25#/sx Cellophane flakes, & 0.2% CFR-3 Friction Reducer (1.34 yield = 147 cf); Cement density - 13.5 ppg. Water required 5.39 gal/sx. Compressive Strength - Sample cured at 70 deg F for 8 hours; 3 hrs 05 min. 50 psi; 7 hrs 45 min 500 psi; cement to surface w/150% excess of casing/hole annulus volume.

Intermediate String:

Lead Cement: 369 sx Standard cement + 3% Econolite (extender) + 10#/sx Pheno-seal; (2.88 yield = 1061 cf). Cement Density 11.5 ppg: Water required - 16.91 gal/sx. Compressive strength -Sample cured at 130 deg F for 24 hrs - 1 hr 47 min - 50 psi; 12 hrs - 350 psi; 24 hrs - 450 psi; Cement to surface with 150% excess of casing/hole annulus volume.

Tail Cement: 214 sx 50/50 POZ - Standard cement + 2% Bentonite + 6#/sx Phono Scal; (1.33 yield = 284 cf); Cement Density - 13.5 ppg; Water required - 5.52 gal/sx; Compressive strength - Sample cured at 130 deg F for 24 hrs - 2 hrs 5 min - 50 psi; 2 hr 6 min - 500 psi; 12 hr - 1250 psi; 24 hrs - 1819 Cement to surface with 150% excess of casing/hole annulus volume.

Production String *:

Cement: 463 sx 50/50 POZ – Standard cement + 3% Bentonite + 5#/sx PhenoSeal + 0.2% CFR-3 Friction Reducer + 0.1% HR-5 Retarder + 0.8% Halad-9 Fluid Loss Additive (1.45 Yield – 671.6 cf) Cement density - 13.1 ppg; Water required 6.47 gal/sx; Compressive Strength - Sample cured at 200 de F for 23 hrs; 9 hr 50 min - 50 psi; 13 hrs 45 min - 500 psi; 16 hrs - 1500 psi; 23 hrs 2525 psi.

*The production casing coment is calculated to cover the openhole interval with 50% excess and annular volume 200' within intermediate shoe. Depending on hole conditions, the well may be cemented in a single stage or two staged.

Centralizer Program:

Surface:

Total four (4) - 1st joint - 10' above the shoe & 1 at the top of the 2nd, 3rd and 4th joints latched over the casing collar

Intermediate: Total seven (9) – 10' above shoe, top of 2nd, 4^{th} , 6^{th} , & 8^{th} , 10^{th} its & 10th 1 it. above surface casing, and on first two casing collars

below the wellhead. .

Production:

None planned.

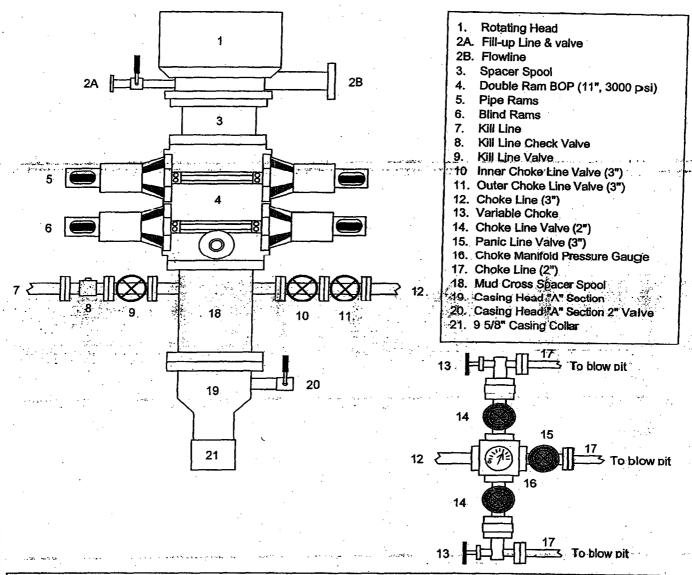
Turbulators:

Total Three (3) – on intermediate casing at 1st it. below the Ojo

Alamo and next 2 its up.

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing

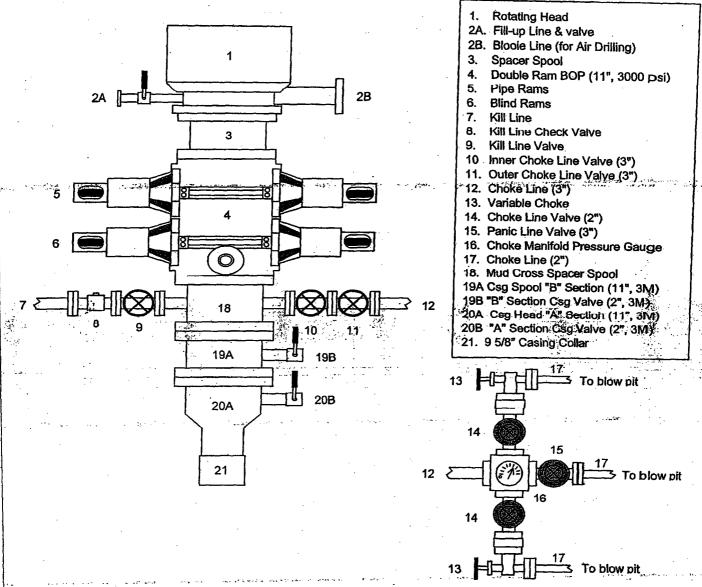


A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 9-5/8" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). An 8-3/4" hole will be drilled to intermediate casing point and 7" casing will be run and cemented.

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

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM For Drilling to TD and Setting 4.5 inch Casing



After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

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 29-6 Unit #75M NMSF078284; Unit P, 10' FSL & 655' FEL Section 23, T29N, R6W; Rio Arriba 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.

See attached drawing on proposed placement of groundbed & underground AC & DC cables and rectifier.