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

•	11[1])) 				
APPLICATION FOR PERMIT TO DRILL	I	5. Lease Serial No. NMSF080379A				
la. Type of Work X DRILL REENT	TER 29 SEP 24 PM:	2: 5 6. If Indian	6. If Indian, Allotee or Tribe Name			
1b. Type of Well Oil Well Gas Well Other	X Single Zone - Multiple Zone	7. Unit or 0	7. Unit or CA Agreement Name and No.			
2. Name of Operator		8. Lease N	ame and Well No.			
ConocoPhillips Company Ba. Address	3b. Phone No. (include area cod	San J	uan 29-6 Unit #245A			
5525 Highway 64, NBU 3004, Farmington, NM 87401	· ·	9 API WE	11 No. 0039 27502			
Location of Well (<i>Report location clearly and in accordance with any S</i> At surface Unit D (NWNW), 740' FNL & 995' FWL	itate equirements)*	10. Field an Basin	d Pool, or Exploratory Fruitland Coal			
At proposed prod. zone Same as above	DEC PORT	<u>ال</u> ارز:	R., M., or Blk. and Survey or A			
4. Distance in miles and direction from nearest town or post office*	E CONTRACTOR	12. County				
46 miles east of Bloom		Rio Arr				
5. Distance from proposed*	D 10 10 10 10 10 10 10 10 10 10 10 10 10	(2.7.27	ledicated to this well			
location to nearest property or lease line, ft. 740'		Ŋ.	220 N/2			
(Also to nearest drg. unit line, if any)	20 C 1 C		320 N/2			
Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20.BLM/BIA Bo	ond No. on file			
applied for, on this lease, ft.	3774'	ES0085				
I. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start	* 23.Est	imated duration			
6811' GL	11/1/03		30 Days			
	24. Attachments					
The following, completed in accordance with the requirements of Onshore C	Dil and Gas Order No. 1, shall be attached	to this form:				
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). 5. Operator certification.		by an existing bond on file (see			
5. Signufature #	Name (Printed/Typed)		Date			
Talon (lucitin	Patsy Clugston	9/24/03				
itle			 			
SHEAR Administrative Assistant						
pproved by (Signautre)	Name (Printed/Typed)		Date			
	/s/ David J. Mankiewi	CZ	DEC 19 2003			
itle	Office		- 			
application approval does not warrant or certify that the applicant holds le conduct operations thereon. Conditions of approval, if any, are attached.	gal or equitable title to those rights in th	e subject lease wi	nich would entitle the applicant			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a United States any false, fictitious or fraudulent statements or representations (Instructions on Reverse)		illfully to make to	o any department or agency of			

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

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



District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Ostrict IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

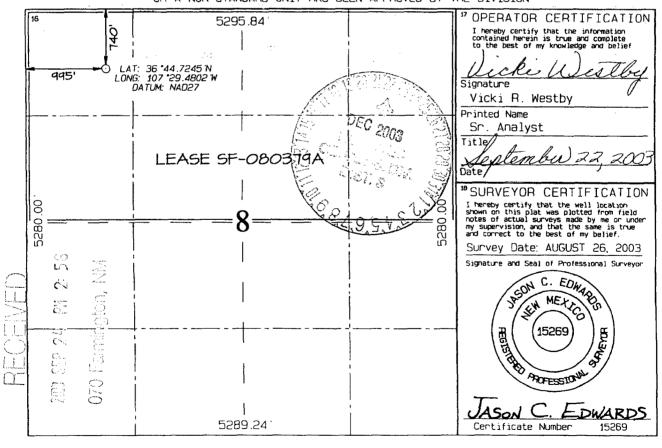
Form C~102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'AP	I_Number	ہے	Pool Code Pool Name								
3003°	9-2	7508	71	629	BASIN FRUITLAND COAL						
'Property		Property Name							Well Number		
3132	326			SAN JUAN 29-6 UNIT					á	245A	
'OGRID	٧o.	*			*Operator	*Operator Name			*Elevation		
21781	17	CONOCOPHILLIPS COMPANY						6811			
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West	line		
D	8	29N	6W		740	NORTH	995	WES	T	RIO ARRIBA	
		11 E	Bottom	Hole L	ocation I	f Different	From Surf	ace			
UL or Jot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	County	
R Dariestad Janes			<u> </u>	L	13 Joint or Infill	³⁴ Consolidation Code	¹⁵ Order No.	<u> </u>		<u> </u>	
¹² Dedicated Acres 320.0 Acres - N/2					notific at totall	rousolingtion code	Uruer NO,				
					I	1	1				

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



CONOCOPHILLIPS COMPANY

WE	LL NAME: San Juan 29-6 Unit #245A – HPA well
DDY	LLING BROCNOSIS
DKI 1.	LLING PROGNOSIS Location of Proposed Well: Unit D (NWNW), 740' FNL & 995' FWL
	Section 8, T29N, R6W
2.	Unprepared Ground Elevation: <u>@ 6811'</u> .
3.	The geological name of the surface formation is <u>San Jose</u> .
4.	Type of drilling tools will be <u>rotary</u> .
5.	Proposed drilling depth is3774'.
6.	The estimated tops of important geologic markers are as follows: Naciamento - 1474' Base of Main Coal - 3704' Ojo Alamo - 2859' PC Interval - 3704' Kirtland - 2959' Intermediate casing - 3454' Fruitland - 3404' Total Depth - 3774' TD includes 70' of sump/rathole & COPC will comply with the BLM/OCD's Conditions of Approval for the proposed sump/rathole in this non-producing Pictured Cliffs Formation.
7.	The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:
	Water: Ojo Alamo - 2859' – 2959'
	Oil: none
	Gas: Fruitland Coal - 3404' - 3704'
	Gas & Water: Fruitland Coal - 3404' - 3704'
8.	The proposed casing program is as follows:
	Surface String: 9-5/8", 32.3#, H-40 @ 200' * Intermediate String: 7", 20#, J/K-55 @ 3454' Production Liner: 5-1/2", 15.5# J/K-55 @ 3434' - 3774' (see details below) * The surface casing will be set at a minimum of 200', but could be set deeper if required to maintain hole stability.
9.	Cement Program: Surface String: 150.2 sx Class G cement with 2% bwoc CaCl2 (S001), 0.25#/sx Cello-Flake (D029) 1.16 cuft/sx yield = 174.27 cf

9. Cement program: (continued from Page 1)

Intermediate String:

Lead Cement: 438.7 sx Class G w/3% D079 (Extender) 0.25#/sx D029 (Cellephone flakes, + 0.2% D046 Flocele (All purpose antifoam agent) mixed at 11.7 ppg and yield of 2.61 cuft/sx = 1145.04 cf.

Tail: 96 sx - 50/50/G/POZ cement w/2% D020 (Bentonite Extender), 2% S001 (CaCl2), 5#/sxD024 (Gilsonite), ½#/sx D029 (Celephane flakes) & 2% D046 (all purpose antifoam agent) @ a weight of 13.5 ppg and yield of 1.27 cuft/sx = 122.29 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:

A 5 ½" 15.5# liner will be run in the open hole without being cemented.

Completion - depending on well conditions the:

- Well will either be cavitated and a 5-1/2" liner will be run without being cemented, or
- Well will be underreamed, tubing will be set and cavitated at a later date.
- 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

13. Anticipated no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H₂S equipment will be used.

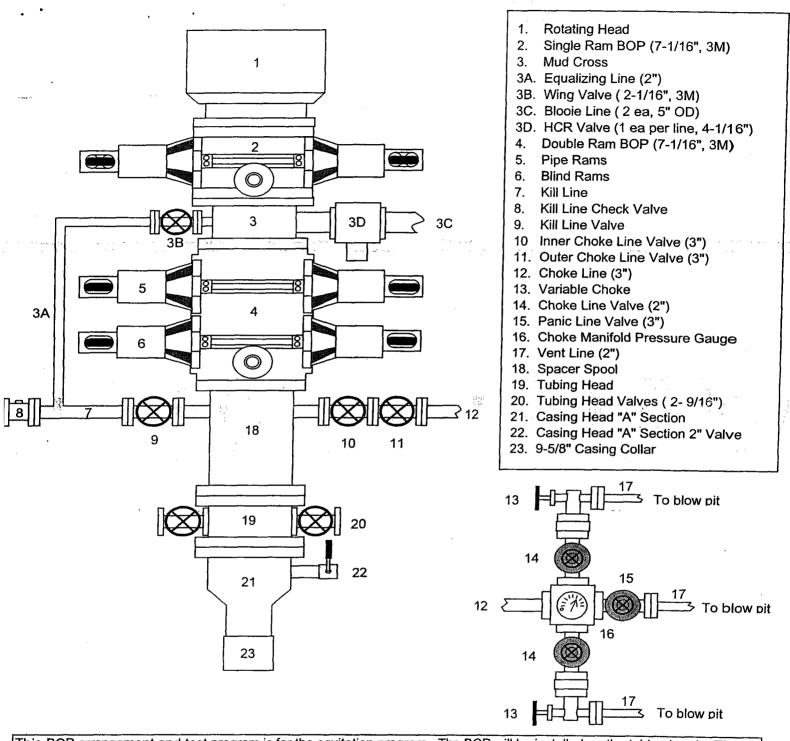
Estimated Bottomhole pressures: Fruitland Coal - +/- 140 psi

- 14. The anticipated starting date is sometime around November 1, 2003 with duration of drilling operations for approximately 30 days thereafter.
- 15. Since this well falls within the High Productivity Area and according to NMOCD Order R-8768-F, the "Affected Parties" will be notified by Certified Mail. The #245A is located entirely within the San Juan 29-6 Unit Fruitland Coal Participating Area boundary and is surrounded by the participating area operator, ConocoPhillips Company.

2003drill\ 296#245A newest drill prog-cav.doc

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Cavitation Program



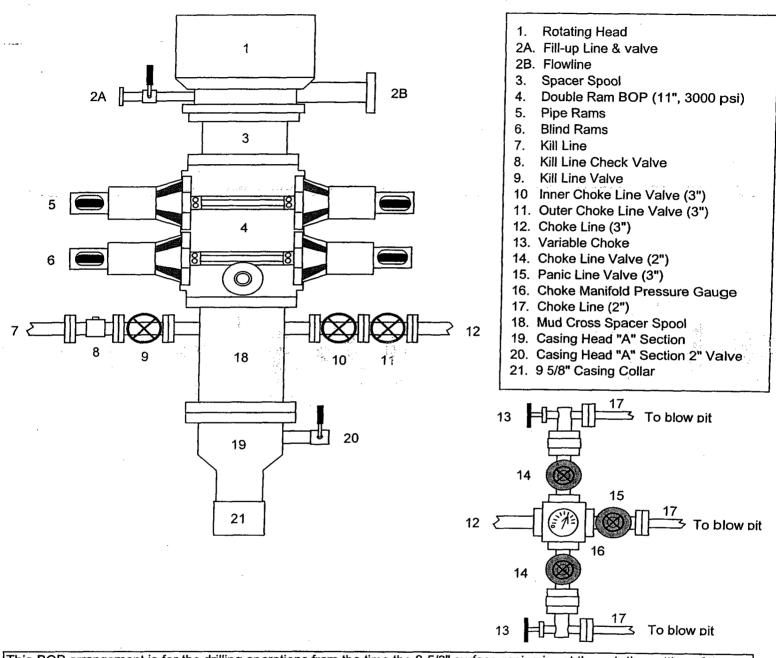
This BOP arrangement and test program is for the cavitation program. The BOP will be installed on the tubing head. The 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. The pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 1800 psi (high pressure test) for 10 minutes - This test will be done with a test plug or possibly without a test plug (ie against casing). If we conduct this test without a test plug we will ensure that we have sufficient drillstring weight in the hole to exceed the upward force generated by the test.

We use a power swivel and air/mist to drill the 6-1/4" hole in our cavitation program. We do not use a kelly. In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. String floats will be used inside the drillpipe
- 2. Stab-in TIW valve for all drillstrings in use
- 3. Each blooie line is equipped with a hydraulically controlled valve (HCR valve).

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



This BOP arrangement is for the drilling operations from the time the 9-5/8" surface casing is set through the setting of the 7" intermediate casing. 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. The Pipe Rams, Blind Rams, Choke Manifold, and 9-5/8" surface casing will be tested to a low pressure test of 200 psi to 300 psi and to a high pressure test of 1000 psi (this value is 44% of the minimum internal yield pressure of the 9-5/8" casing). We will drill the 8-3/4" hole to intermediate casing point and run and cement the 7" intermediate casing. Then we will nipple down the BOP, install a trash cap, & move out the drilling rig. We will install the casing spool on the 7" stub after the drilling rig is moved off location. At a later date we will move in the cavitation rig for the cavitation program.

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 #245A NMSF080379A – Unit D, 740' FNL, & 995' FWL Section 8, 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.