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

APPLICATION FOR PERMIT TO DRIL		5. Lease Serial No. NMSF078278			
la. Type of Work X DRILL REEN		6. If Indian, Allotee or Tribe Name			
1b. Type of Well Oil Well Gas Well Other	Single Zone Multiple Zon	e 7. Unit or CA	Agreement Name and No.		
2. Name of Operator		8. Lease Nam	ne and Well No.		
ConocoPhillips Company		San Jua	n 29-6 Unit #31M		
3a. Address	3b. Phone No. (include area coo	9. API Well 1	No.		
5525 Highway 64, NBU 3004, Farmington, NM 87403 4. Location of Well (Report location clearly and in accordance with any S			03927576		
At surface Unit K, 2275' FSL & 2060' FWL	DEC 2003	এ Basin D	Pool, or Exploratory IK & Blanco MV ., M., or Blk. and Survey or Are		
At proposed prod. zone Same as above	E OL COST VED	Section	10, T29N, R6W		
14. Distance in miles and direction from nearest town or post office*	Bloomfield NM DIST 3		•		
approx. 45 miles East of E	STOCKET TO FOR THE	Sprio Arrib			
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacing Unit ded	icated to this well		
property or lease line, ft. 2060' (Also to nearest drg. unit line, if any)	3131415	320 W	/2 (MV & DK)		
18. Distance from proposed location*	19. Proposed Depth	20.BLM/BIA Bond	O.BLM/BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.	7910'		ES0085		
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will star	t* 23. Estimated duration			
6511' GL	11/1/03	30 days			
00,1	24. Attachments				
The following, completed in accordance with the requirements of Onshore C		d 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). 	· • • •		an existing bond on file (see		
25. Signuature	Name (Printed/Typed)		Date		
Latsy Cluston	Patsy Clugston	10/2/03			
SHEAR Administrative Assistant					
Approved by (Signautre)	Name (Printed/Typed)		Date		
/a/ Devid J. Mentiewicz	ane (1 times 1)pen)		NOV 2 5 2003		
Title	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 the	ne subject lease which	h would entitle the applicant to		
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		villfully to make to a	ny department or agency of the		

*(Instructions on Reverse)

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

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

320.0 Acres - W/2

320.0 Acres - W/2

12 Dedicated Acres

State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

AMENDED REPORT

Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number Poal Code					'Pool Name					
300	39-	2757672319 / 71599 BLANCO MESAVERDE / BASIN DA						AKOTA	1	
*Property	Code	Praperty Name						Well Number		
3132	6	SAN JUAN 29-6 UNIT					31M			
'OGRID	1 0.	*Operator Name					*Elevation			
21781	17	CONOCOPHILLIPS COMPANY (6511		
¹⁰ Surface Location										
UL or lot no.	Section	Tawnship	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
К	10	29N	6W		2275	SOUTH	2060	WEST		RIO ARRIBA
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County

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

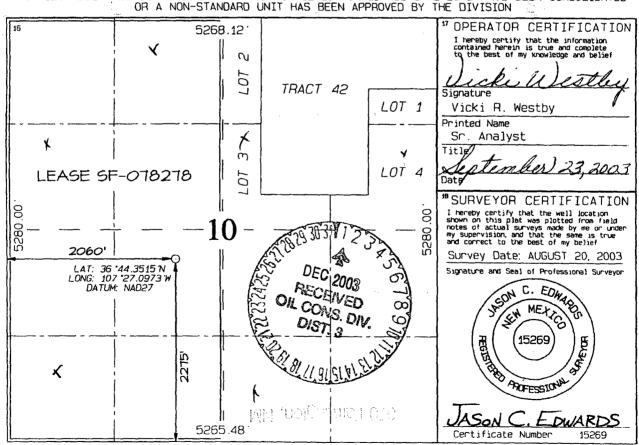
14 Consolidation Code

¹⁵ Order No.

19 Joint or Infill

(MV)

(DK)



CONOCOPHILLIPS COMPANY

WEI	L NAME: San Juan 29-6 Unit #31M (MV/DK)
DRI	LING PROGNOSIS
1.	Location of Proposed Well: Unit K, 2275' FSL & 2060' FWL Section 10, T29N, R6W
2.	Unprepared Ground Elevation: <u>@ 6511' (unprepared)</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 is <u>7910</u> .
6.	The estimated tops of important geologic markers are as follows: Nacimiento - 1145' Ojo Alamo - 2500' Mancos Shale - 5895'
	Kirtland Sh - 2710' Gallup - 6140' Fruitland Fm. - 3240' Greenhorn - 7560' Pictured Cliffs - 3390' Two Wells - 7680' Cliffhouse - 5180' Cubero - 7730'
	Menefee – 5300' Intermediate Casing – 3690'
	Pt. Lookout - 5645' TD - 7910'
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 - 2500' - 2710'
	Gas & Water: <u>Fruitland - 3240' - 3390'</u>
	Gas: Pictured Cliffs - 3390' - 3590'
	Mesaverde - 3590' - 5645'
	<u>Dakota - 7680' – 7910'</u>
8.	The proposed casing program is as follows:
	Surface String: 9-5/8", 32.3# H-40 @ 200' *
	Intermediate String: 7", 20#, J-55 @ 3690' (J-55 will be used, unless the K-55 is the only casing available)
	Production String: 4-1/2", 11.6#, J-55 LTC @ 7910' (TD)
	* 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:

130 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 = 174 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: 357 sx Standard cement + 3% Econolite (extender) + 10#/sx Pheno-seal; (2.88 yield = 1028 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: 216 sx 50/50 POZ - Standard cement + 2% Bentonite + 6#/sx Pheno Seal; (1.33 yield = 287 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: 464 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 – 673 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 25<u>25 psi.</u>

*The production casing cement 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.

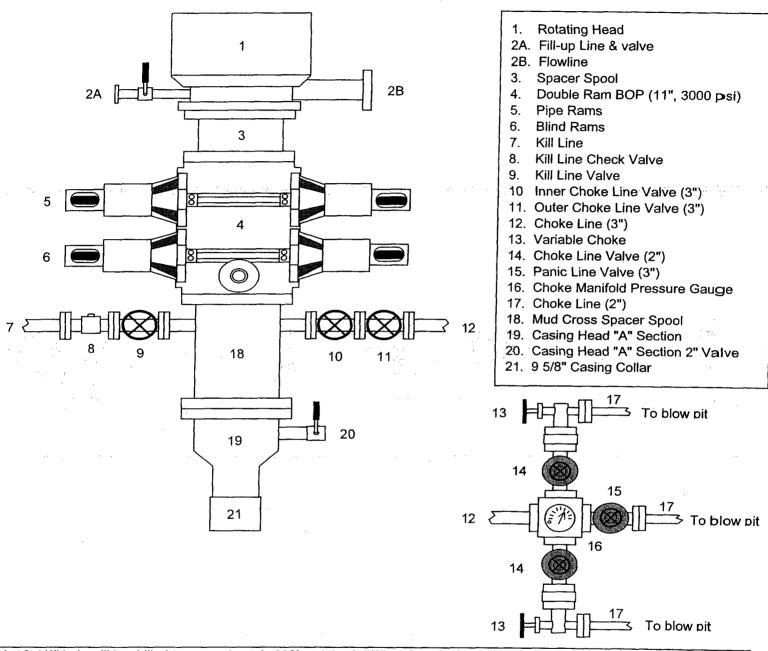
Turbulators:

Total Three (3) - on intermediate casing at 1st it. below the Oio

Alamo and next 2 its up.

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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

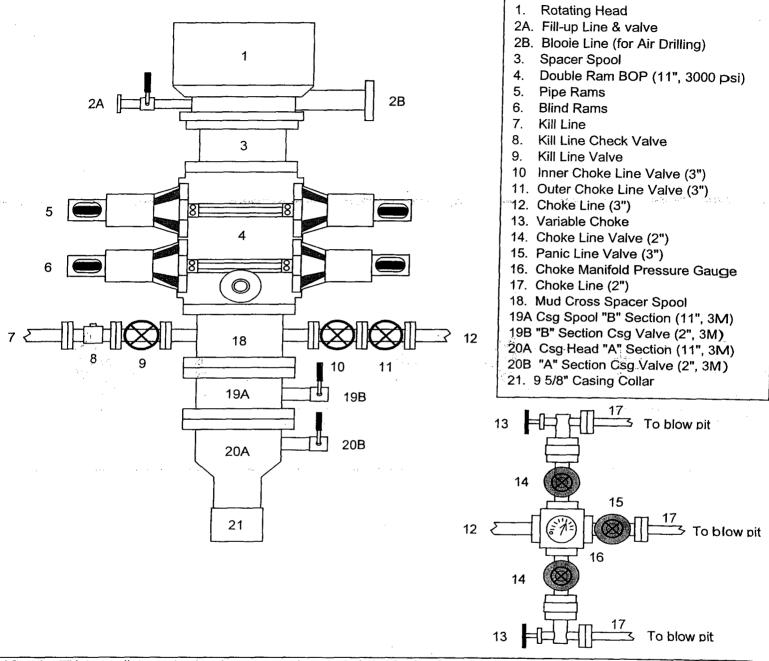


A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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 #31M NMSF-0078278— Unit K, 2275' FSL & 2060' FWL Section 10, 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.