Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NMSF078278

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM78416B

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
SAN JUAN 29-6 UNIT 90M

2. Name of Operator
CONOCOPHILLIPS COMPANY

Contact: CHRIS GUSTARTIS
E-Mail: CHRISTINA.GUSTARTIS@CONOCOPHILLIPS.COM

9. API Well No.
30-039-27560-00-X1 39-27560

3a. Address
P O BOX 2197 WL 6106
HOUSTON, TX 77252

3b. Phone No. (include area code)
Ph: 832.486.2463

10. Field and Pool, or Exploratory
BASIN DAKOTA
BLANCO MESAVERDE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*

Sec 15 T29N R6W NENW 1295FNL 2325FWL
36.72939 N Lat, 107.45075 W Lon

11. County or Parish, and State

RIO ARRIBA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original A PD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ConocoPhillips is requesting to change the cement calculations from the original APD. Attached is a copy of the revised cement calculations from both Halliburton and Schlumberger. Drilling Engineer hasn't decided at this point, which cement contractor he will use. That is the reason for the 2 attachments.

DEC 2004
RECEIVED
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #51823 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Farmington
Committed to AFMSS for processing by ADRIENNE BRUMLEY on 12/17/2004 (05AXB0504SE)

Name *(Printed/Typed)* CHRIS GUSTARTIS — Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) — Date 12/13/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Jim Lovato — Title Petr. Eng — Date 12/21/04

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

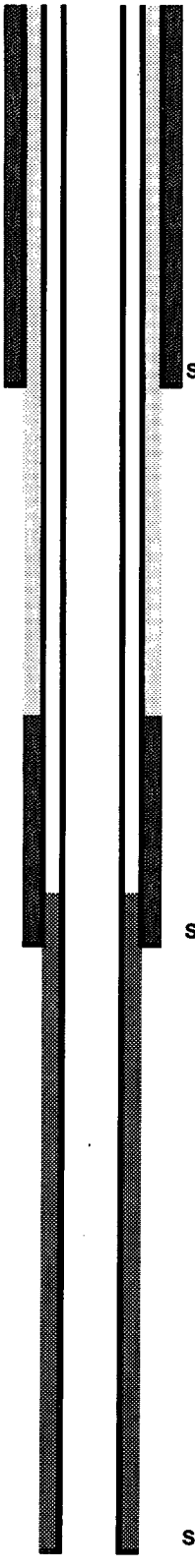
Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD

San Juan 29-6 # 90M



SURFACE CASING :

Drill Bit Diameter	12.25	"	
Casing Outside Diameter	9.625	"	Casing Inside Diam. 9.001 "
Casing Weight	32.3	ppf	
Casing Grade	H-40		
Shoe Depth	230	'	
Cement Yield	1.21	cuft/sk	
Excess Cement	125	%	
Cement Required	**149**	**sx**	

SHOE **230 ', 9.625 ", 32.3 ppf, H-40 STC**

INTERMEDIATE CASING :

Drill Bit Diameter	8.75	"	
Casing Outside Diameter	7	"	Casing Inside Diam. 6.456 "
Casing Weight	20	ppf	
Casing Grade	J-55		
Shoe Depth	3793	'	
Lead Cement Yield	2.88	cuft/sk	
Lead Cement Excess	150	%	
Tail Cement Length	**758.6**	'	
Tail Cement Yield	1.33	cuft/sk	
Tail Cement Excess	150	%	
Lead Cement Required	**379**	**sx**	
Tail Cement Required	**222**	**sx**	

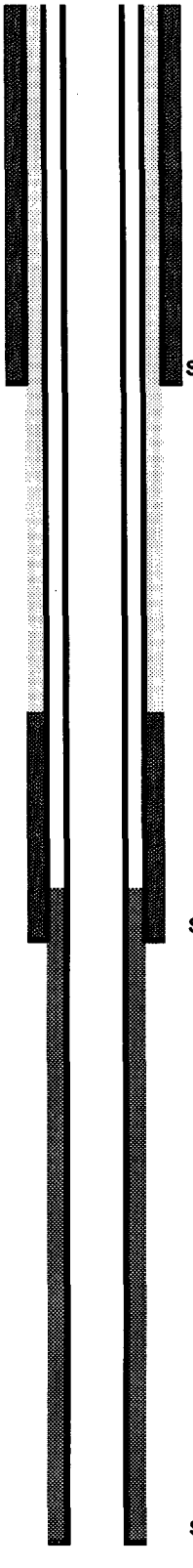
SHOE **3793 ', 7 ", 20 ppf, J-55 STC**

PRODUCTION CASING :

Drill Bit Diameter	6.25	"	
Casing Outside Diameter	4.5	"	Casing Inside Diam. 4.000 "
Casing Weight	11.6	ppf	
Casing Grade	N-80		
Top of Cement	3593	'	200' inside intermediate casing
Shoe Depth	8008	'	
Cement Yield	1.45	cuft/sk	
Cement Excess	50	%	
Cement Required	**464**	**sx**	

SHOE **8008 ', 4.5 ", 11.6 ppf, N-80 LTC**

San Juan 29-6 # 90M



SURFACE CASING :

Drill Bit Diameter	12.25	"	
Casing Outside Diameter	9.625	"	Casing Inside Diam. 9.001 "
Casing Weight	32.3	ppf	
Casing Grade	H-40		
Shoe Depth	230	'	
Cement Yield	1.16	cuft/sk	
Excess Cement	125	%	
Cement Required	148	**sx**	

SHOE 230 ', 9.625 ", 32.3 ppf, H-40 STC

INTERMEDIATE CASING :

Drill Bit Diameter	8.75	"	
Casing Outside Diameter	7	"	Casing Inside Diam. 6.456 "
Casing Weight	20	ppf	
Casing Grade	J-55		
Shoe Depth	3793	'	
Lead Cement Yield	2.72	cuft/sk	
Lead Cement Excess	150	%	
Tail Cement Length	758.6	'	
Tail Cement Yield	1.31	cuft/sk	
Tail Cement Excess	150	%	
Lead Cement Required	402	**sx**	
Tail Cement Required	225	**sx**	

SHOE 3793 ', 7 ", 20 ppf, J-55 STC

PRODUCTION CASING :

Drill Bit Diameter	6.25	"	
Casing Outside Diameter	4.5	"	Casing Inside Diam. 4.000 "
Casing Weight	11.6	ppf	
Casing Grade	N-80		
Top of Cement	3593	'	200' inside intermediate casing
Shoe Depth	8008	'	
Cement Yield	1.44	cuft/sk	
Cement Excess	50	%	
Cement Required	464	**sx**	

SHOE 8008 ', 4.5 ", 11.6 ppf, N-80 LTC

San Juan 29-6 # 90M			
	Surf. Csg	Int. Csg	Prod. Csg
OD	9.625	7	4.5
ID	9.001	6.456	4.000
Depth	230	3793	8008
Hole Diam	12.25	8.75	6.25
% Excess Lead		150	
% Excess Tail	125	150	50
Lead Yield		2.88	
Tail Yield	1.21	1.33	1.45
Ft of Tail Slurry	230	758.6	4415
Top of Tail Slurry	0	3034.4	3593
Top of Lead Slurry	N/A	0	N/A
Mud Wt (ppg)	8.9	9.0	air dril
Mud Type	WBM	WBM	air dril

Surface Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	230	0.055804	2.25	28.9	162.1	134.0
Shoe Track Volume	40	0.078735	1	3.1	17.7	14.6
Total				32.0	179.8	148.6

Intermediate Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Lead Open Hole Annulus	2804.4	0.026786	2.5	187.8	1054.4	366.1
Lead Cased Hole Annulus	220	0.031116	1	6.8	38.4	13.3
Lead Total				194.6	1092.8	379.4
Tail Open Hole Annulus	758.6	0.026786	2.5	50.8	285.2	214.4
Tail Shoe Track Volume	42	0.040505	1	1.7	9.6	7.2
Tail Total				52.5	294.8	221.6

Production Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	4215	0.018282	1.5	115.6	649.0	447.6
Cased Hole Annulus	200	0.020826	1	4.2	23.4	16.1
Total				119.8	672.4	463.7

San Juan 29-6 # 90M		
9-5/8 Surface Casing		
Cement Recipe	Class C Standard Cement	
	+ 3% Calcium Chloride	
	+0.25 lb/sx Flocele	
Cement Volume	149	sx
Cement Yield	1.21	cuft/sx
Slurry Volume	179.8	cuft
	32.0	bbls
Cement Density	15.6	ppg
Water Required	5.29	gal/sx
Compressive Strength		
Sample cured at 60 deg F for 8 hrs		
4hrs 38 mins	50	psi
9hrs	250	psi

San Juan 29-6 # 90M		

7" Intermediate Casing		
Lead Slurry		
Cement Recipe	Standard Cement	
	+ 3% Econolite (extender)	
	+ 10 lb/sx Pheno Seal	
Cement Required	379	sx
Cement Yield	2.88	cuft/sx
Slurry Volume	1092.8	cuft
	194.6	bbls
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 hr	350	psi
24 hr	450	psi

7" Intermediate Casing		
Tail Slurry		
Cement Slurry	50 / 50 POZ:Standard Cement	
	+ 2% Bentonite	
	+ 6 lb/sx Pheno Seal	
Cement Required	222	sx
Cement Yield	1.33	cuft/sx
Slurry Volume	294.8	cuft
	52.5	bbls
Cement Density	13.5	ppg
Water Required	5.52	gal/sx
Compressive Strength		
Sample cured at 130 deg F for 24 hrs		
2 hr 05 min	50	psi
4 hr 06 min	500	psi
12 hr	1250	psi
24 hr	1819	psi

San Juan 29-6 # 90M		
4-1/2" Production Casing		
Cement Recipe	50 / 50 POZ:Standard Cement	
	+ 3% Bentonite	
	+ 3.5 lb/sx PhenoSeal	
	+ 0.2% CFR-3 Friction Reducer	
	+ 0.1% HR-5 Retarder	
	+ 0.8% Halad-9 Fluid Loss Additive	
Cement Quantity	464	sx
Cement Yield	1.45	cuft/sx
Cement Volume	672.4	cuft
	119.8	
Cement Density	13.1	ppg
Water Required	6.47	gal/sx
Compressive Strength		
Sample cured at 200 deg F for 23 hrs		
9 hr 50 min	50	psi
13 hr 45 min	500	psi
16 hr	1500	psi
23 hr	2525	psi

San Juan 29-6 # 90M			
	Surf. Csg	Int. Csg	Prod. Csg
OD	9.625	7	4.5
ID	9.001	6.456	4.000
Depth	230	3793	8008
Hole Diam	12.25	8.75	6.25
% Excess Lead		150	
% Excess Tail	125	150	50
Lead Yield		2.72	
Tail Yield	1.16	1.31	1.45
Ft of Tail Slurry	230	758.6	4415
Top of Tail Slurry	0	3034.4	3593
Top of Lead Slurry	N/A	0	N/A
Mud Wt (ppg)	8.9	9.0	air dril
Mud Type	WBM	WBM	air dril

Surface Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	230	0.055804	2.25	27.2	153.0	131.9
Shoe Track Volume	42	0.078735	1	3.3	18.6	16.0
Total				30.6	171.5	147.9

Intermediate Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Lead Open Hole Annulus	2804.4	0.026775	2.5	187.7	1054.0	387.5
Lead Cased Hole Annulus	230	0.031104	1	7.2	40.2	14.8
Lead Total				194.9	1094.1	402.3
Tail Open Hole Annulus	758.6	0.026775	2.5	50.8	285.1	217.6
Tail Shoe Track Volume	42	0.04049	1	1.7	9.5	7.3
Tail Total				52.5	294.6	224.9

Production Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	4215	0.018275	1.5	115.5	648.7	447.4
Cased Hole Annulus	200	0.020818	1	4.2	23.4	16.1
Total				119.7	672.1	463.5

San Juan 29-6 # 90M		
9-5/8 Surface Casing		
Cement Recipe	Class G Standard Cement	
	+ 3% S001 Calcium Chloride	
	+0.25 lb/sx D029 Cellophane Flakes	
Cement Volume	148	sx
Cement Yield	1.16	cuft/sx
Cement Volume	171.5	cuft
Cement Density	15.8	ppg
Water Required	4.983	gal/sx
Compressive Strength		
Sample cured at 60 deg F for 8 hrs		
12 hrs	1174	psi
36 hrs	2763	psi

San Juan 29-6 # 90M		

7" Intermediate Casing		
Lead Slurry		
Cement Recipe	Class G Standard Cement	
	+0.25 lb/sx D029 Cellophane Flakes	
	+ 3% D079 Extender	
	+ 0.20% D046 Antifoam	
	+ 10 lb/sx Pheno Seal	
Cement Required	402	sx
Cement Yield	2.72	cuft/sx
Slurry Volume	1094.1	cuft
	194.9	bbls
Cement Density	11.7	ppg
Water Required	15.74	gal/sx
Compressive Strength		
Sample cured at 140 deg F for 24 hrs		
2 hr 37 min	50	psi
39 hr 40 min	500	psi

7" Intermediate Casing		
Tail Slurry		
Cement Slurry	50 / 50 POZ: Class G Standard Cement	
	+0.25 lb/sx D029 Cellophane Flakes	
	+ 2% D020 Bentonite	
	+ 1.5 lb/sx D024 Gilsonite Extender	
	+ 2% S001 Calcium Chloride	
	+ 0.10% D046 Antifoam	
	+ 6 lb/sx Pheno Seal	
Cement Required	225	sx
Cement Yield	1.31	cuft/sx
Slurry Volume	294.6	cuft
	52.5	bbls
Cement Density	13.5	ppg
Water Required	5.317	gal/sx
Compressive Strength		
Sample cured at 140 deg F for 24 hrs		
24 hr	908	psi
48 hr	1950	psi

San Juan 29-6 # 90M		
4-1/2" Production Casing		
Cement Recipe	50 / 50 POZ:Class G Standard Cement	
	+0.25 lb/sx D029 Cellophane Flakes	
	+ 3% D020 Bentonite	
	+ 1.0 lb/sx D024 Gilsonite Extender	
	+ 0.25% D167 Fluid Loss	
	+ 0.15% D065 Dispersant	
	+ 0.1% D800 Retarder	
	+ 0.1% D046 Antifoamer	
	+ 3.5 lb/sx PhenoSeal	
Cement Quantity	464	sx
Cement Yield	1.45	cuft/sx
Cement Volume	672.1	cuft
	119.7	
Cement Density	13	ppg
Water Required	6.47	gal/sx
Compressive Strength		
Sample cured at 200 deg F for 24 hrs		
6 hr 35 min	500	psi
24 hr	2373	psi