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.

RECEIVED
DEC 2003
DIV.

5. Lease Serial No.
NMSF 078417

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
SAN JUAN 28-7 UNIT 232F

2. Name of Operator
CONOCOPHILLIPS CO.

Contact: DEBORAH MARBERRY
E-Mail: deborah.marberry@conocophillips.com

9. API Well No.
30-039-27043

3a. Address
P.O. BOX 2197 WL3 6108
HOUSTON, TX 77252

3b. Phone No. (include area code)
Ph: 832.486.2326
Fx: 832.486.2688

10. Field and Pool, or Exploratory
BASIN DAKOTA

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 20 T28N R7W NENE 880FNL 815FEL

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.)

We are requesting to change the following items on our APD:
1.The surface casing is 9-5/8 32.3# H-40 STC (instead of 9-5/8 36# J-55 STC).
2.The production casing is 4.5 11.6# I-80 LTC (instead of 4.5 10.5# J-55 STC)
3.Our cementing program has been revised (we changed cementing companies and changed our LCM strategy in our cementing program)
4.To request an exception to Onshore Order # 2 to allow us to test our BOP and 9-5/8 surface casing to 1000 psi in lieu of Onshore Order # 2 requirements

Attached are the revised/updated BOP programs and cement program for this well.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #24832 verified by the BLM Well Information System
For CONOCOPHILLIPS CO., sent to the Farmington

Name *(Printed/Typed)* DEBORAH MARBERRY — Title SUBMITTING CONTACT

Signature (Electronic Submission) — Date 11/05/2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title Petr. Eng. Date 12/2/03

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 BLM-FO

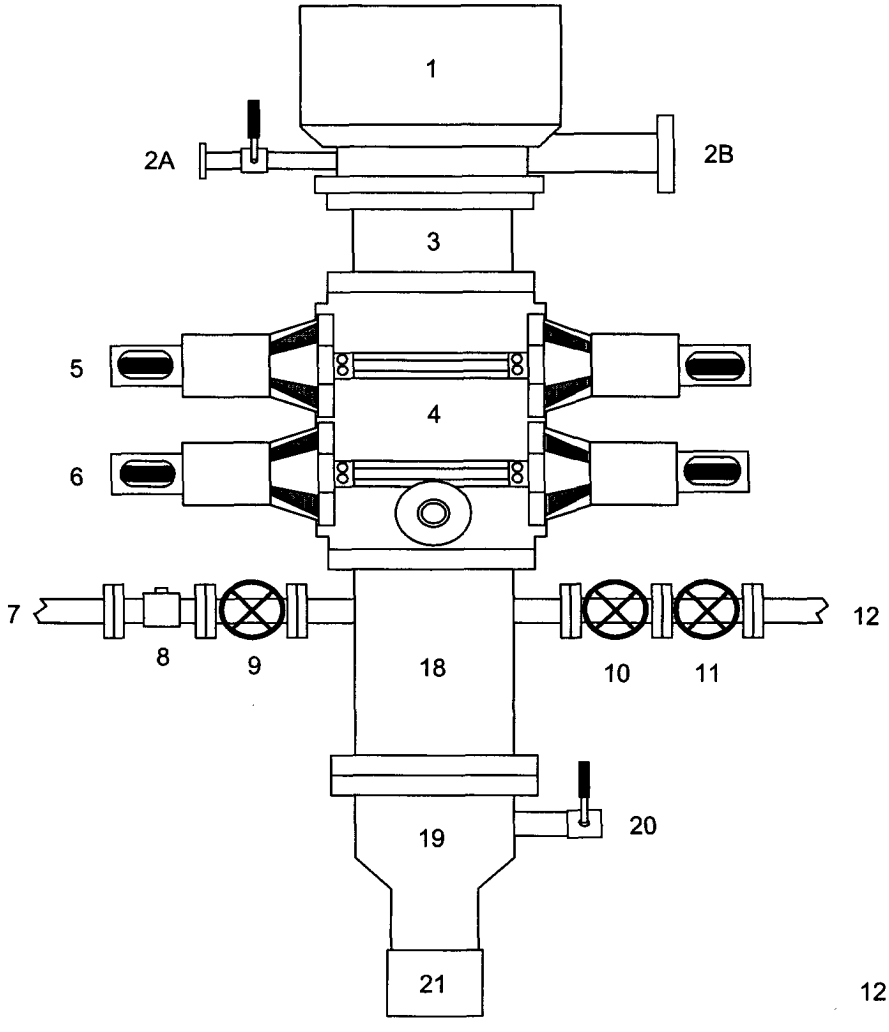
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

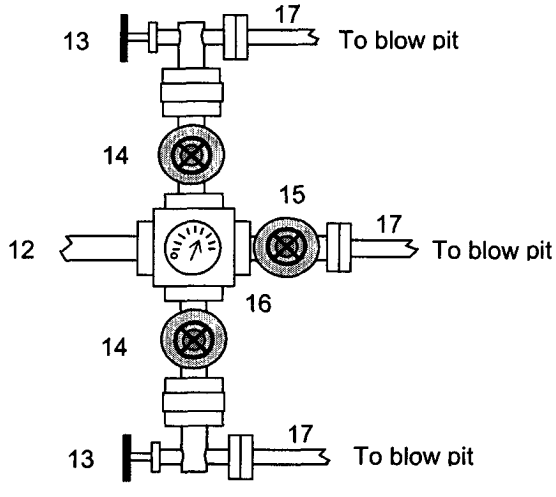
NMOCD

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



1. Rotating Head
2A. Fill-up Line & valve
2B. Flowline
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10 Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
19. Casing Head "A" Section
20. Casing Head "A" Section 2" Valve
21. 9 5/8" Casing Collar



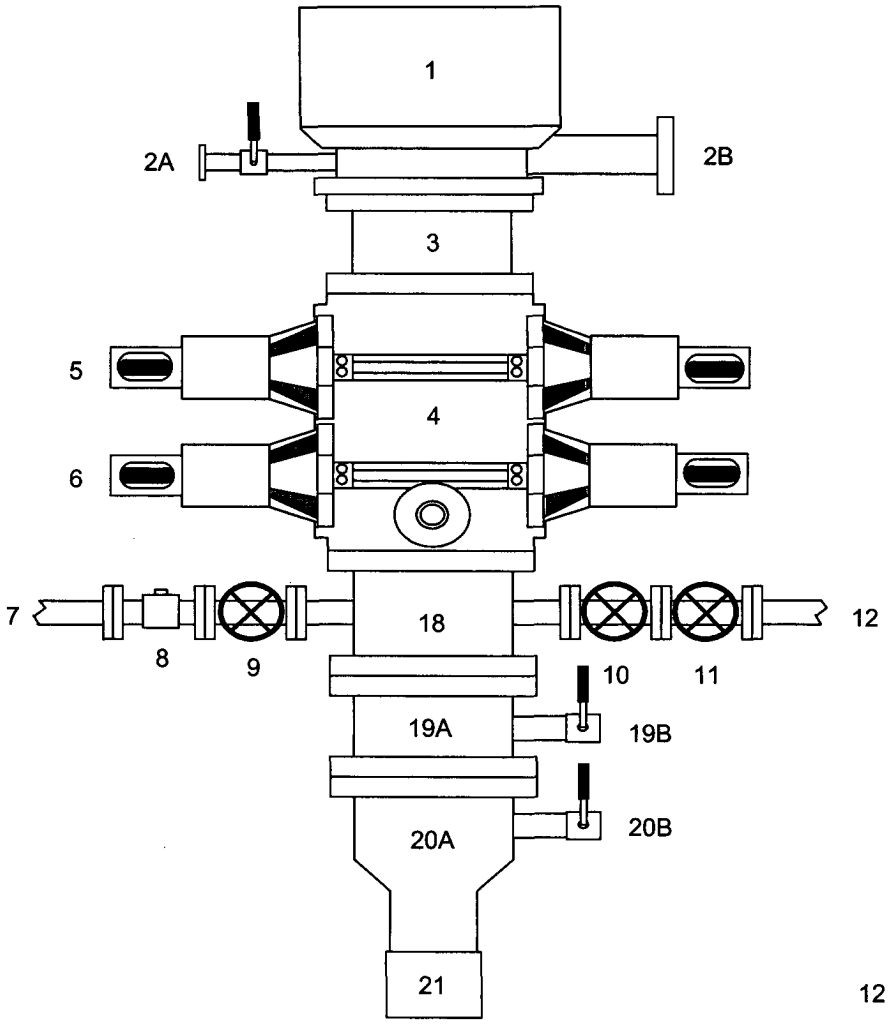
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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:

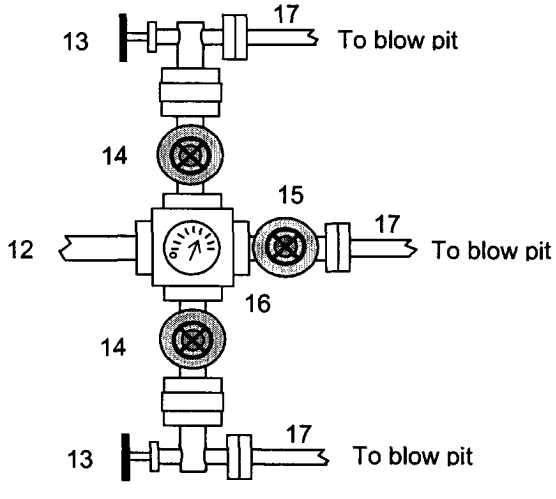
1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing



1. Rotating Head
2A. Fill-up Line & valve
2B. Blooie Line (for Air Drilling)
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10 Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
19A Csg Spool "B" Section (11", 3M)
19B "B" Section Csg Valve (2", 3M)
20A Csg Head "A" Section (11", 3M)
20B "A" Section Csg Valve (2", 3M)
21. 9 5/8" Casing Collar

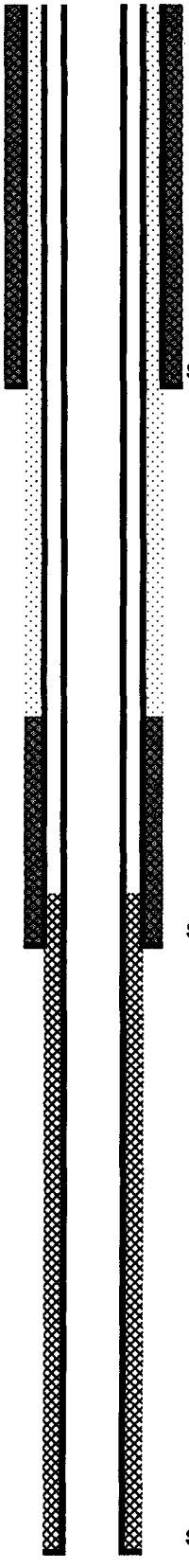


After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 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 28-7 # 232F



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	220	'	
Cement Yield	1.34	cuft/sk	
Excess Cement	150	%	
Cement Required	142	**sx**	

SHOE 220 ', 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	2986	'	
Lead Cement Yield	2.88	cuft/sk	
Lead Cement Excess	150	%	
Tail Cement Length	597.2	'	
Tail Cement Yield	1.93	cuft/sk	
Tail Cement Excess	150	%	
Lead Cement Required	296	**sx**	
Tail Cement Required	176	**sx**	

SHOE 2986 ', 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	I-80		
Top of Cement	2786	'	200' inside intermediate casing
Shoe Depth	7196	'	
Cement Yield	1.45	cuft/sk	
Cement Excess	50	%	
Cement Required	483	**sx**	

SHOE 7196 ', 4.5 ", 11.6 ppf, I-80 STC

San Juan 28-7 # 232F			
	Surf. Csg	Int. Csg	Prod. Csg
OD	9.625	7	4.5
ID	9.001	6.456	4.000
Depth	220	2986	7196
Hole Diam	12.25	8.75	6.25
% Excess Lead		150	
% Excess Tail	150	150	50
Lead Yield		2.88	
Tail Yield	1.34	1.33	1.45
Ft of Tail Slurry	220	597.2	4410
Top of Tail Slurry	0	2388.8	2786
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	220	0.055804	2.5	30.7	172.3	128.6
Shoe Track Volume	40	0.078735	1	3.1	17.7	13.2
Total				33.8	190.0	141.8

Intermediate Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Lead Open Hole Annulus	2168.8	0.026786	2.5	145.2	815.4	283.1
Lead Cased Hole Annulus	220	0.031116	1	6.8	38.4	13.3
Lead Total				152.1	853.8	296.5
Tail Open Hole Annulus	597.2	0.026786	2.5	40.0	224.5	168.8
Tail Shoe Track Volume	42	0.040505	1	1.7	9.6	7.2
Tail Total				41.7	234.1	176.0

Production Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	4210	0.018282	1.5	115.5	648.2	447.0
Cased Hole Annulus	200	0.020826	1	4.2	23.4	16.1
Total				119.6	671.6	463.2

San Juan 28-7 # 232F		
9-5/8 Surface Casing		
Cement Recipe	50 / 50 POZ:Standard Cement	
	+ 2% Bentonite	
	+ 3% Calcium Chloride	
	+ 5 lb/sx Gilsonite	
	+0.25 lb/sx Cellophane Flakes	
	+ 0.2% CFR-3 Friction Reducer	
Cement Volume	142	sx
Cement Yield	1.34	cuft/sx
Cement Volume	190.0	cuft
Cement Density	13.5	ppg
Water Required	5.39	gal/sx
Compressive Strength		
Sample cured at 70 deg F for 8 hrs		
3hrs 05 min	50	psi
7hrs 45 min	500	psi

San Juan 28-7 # 232F		

7" Intermediate Casing		
Lead Slurry		
Cement Recipe	Standard Cement	
	+ 3% Econolite (extender)	
	+ 10 lb/sx Pheno Seal	
Cement Required	296	sx
Cement Yield	2.88	cuft/sx
Slurry Volume	853.8	cuft
	152.1	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	176	sx
Cement Yield	1.33	cuft/sx
Slurry Volume	234.1	cuft
	41.7	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 28-7 # 232F		
4-1/2" Production Casing		
Cement Recipe	50 / 50 POZ Standard Cement	
	+ 3% Bentonite	
	+ 5 lb/sx PhenoSeal	
	+ 0.2% CFR-3 Friction Reducer	
	+ 0.1% HR-5 Retarder	
	+ 0 8% Halad-9 Fluid Loss Additive	
Cement Volume	463	sx
Cement Yield	1.45	cuft/sx
Cement Volume	671.6	cuft
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