Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

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

OME	3 NO. 1004	-01.	33
Expires:	November	30,	2000

5.	Lease Serial No. NMSF079289	

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an						NMSF079289 6. If Indian, Allottee or Tribe Name		
abandoned we	II. Use form 3160-3 (AP	D) for such pr	oposals.		o. If Indian, Allott	ee or Tribe	Name	
SUBMIT IN TRI	PLICATE - Other instruc	ctions on reve	rse side.		7. If Unit or CA/A	greement, N	lame and/or No.	
1. Type of Well					8. Well Name and SAN JUAN 28		 IB	
Oil Well Gas Well Ot Name of Operator		PATSY CLUG	STON		9. API Well No.			
CONOCOPHILLIPS COMPAI	NY	E-Mail: plclugs@	ppco.com		30-039-2725			
^{3a.} Address 5525 HIGHWAY 64 FARMINGTON, NM 87401	3b. Phone No. Ph: 505.599 Fx: 505-599-	.3454	ode)	10. Field and Poo MultipleSe				
4. Location of Well (Footage, Sec., 1			11. County or Par	ish, and Stat	ie .			
Sec 10 T28N R7W SWSW 10	070FSL 450FWL				RIO ARRIBA	COUNT	Υ, NM	
12. CHECK APP	ROPRIATE BOX(ES) TO	O INDICATE 1	NATURE O	F NOTICE, R	EPORT, OR OT	HER DAT	ΓΑ	
TYPE OF SUBMISSION			TYPE	OF ACTION				
Notice of Intent	□ Acidize	□ Deep	en	□ Product	tion (Start/Resume) _ V	Vater Shut-Off	
_	☐ Alter Casing	_	ure Treat	□ Reclam		_	Vell Integrity	
Subsequent Report Casing Repair		_	Construction	□ Recomp		⊠, C	Other nge to Original A	
☐ Final Abandonment Notice ☐ Change Plans		_	and Abandon	_	emporarily Abandon		PD PD	
☐ Convert to Injection ☐ Plug Back				□ Water I				
13. Describe Proposed or Completed Op If the proposal is to deepen direction Attach the Bond under which the we following completion of the involve testing has been completed. Final A determined that the site is ready for	ally or recomplete horizontally ork will be performed or provided operations. If the operation re bandonment Notices shall be fifinal inspection.)	give subsurface to the Bond No. on sults in a multiple led only after all re	ocations and me file with BLM/ completion or equirements, inc	easured and true v BIA. Required su recompletion in a cluding reclamation	ertical depths of all pubsequent reports shat new interval, a Form on, have been complete.	ertinent ma Ill be filed w 13160-4 sha	rkers and zones. rithin 30 days all be filed once	
See attached for changes in ready to spud this well in 2 da	ays.	P submitted wi	in the origina	ai APD. We w	oct 22			
14. I hereby certify that the foregoing i	s true and correct. Electronic Submission For CONOCOP mitted to AFMSS for proce	HILLIPS COMPA	ANY, sent to	the Farmingtor	ו י			
	LUGSTON				PRESENTATIVE			
Signature (Electronic	Submission)		Date 10/20	0/2003				
	THIS SPACE F	OR FEDERA	OR STAT	E OFFICE U	SE	, al est a restaur	West of the first	
Approved By	I'm Lovato		Title		ja ja	OCT	Pate2003	
Conditions of approval, if any, are attach certify that the applicant holds legal or ea which would entitle the applicant to conditions.	quitable title to those rights in the		Office		granda (in the second control of the second	001		

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.

Additional data for EC transaction #24403 that would not fit on the form

10. Field and Pool, continued

TAPACITO PC/ BLANCO MV

CONOCOPHILLIPS COMPANY

WELI	L NAME:	San Juan 28-	7 Unit #61B (FC/PC/MV)	-		
DRIL	LING PROGNOSIS						
1.	Location of Proposed		(SWSW), 10 10, T28N, R7		FWL_		
2.	Unprepared Ground E	levation:	<u>@ 6606' (u</u>	nprepared) .			
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 dept	h is <u>5794'</u> .					
6.	The estimated tops of Ojo Alamo - 24 Kirtland Sh - 25 Fruitland Fm 306 Pictured Cliffs - 33 Lewis Shale - 356	19, 29, 20,	Cliffhouse - Pt. Lookout -	4949'	- - -		
7.	The estimated depths formations are expected		•		other mineral	bearing	
	Gas & Water: Gas:	Ojo Alamo - Fruitland - Pictured Cliffs Mesaverde -	3069' - 3319'	- 2559' - 3319' - 3569' - 5794'	- - -		
8.	The proposed casing p						
	Surface String: 9-5/8	5", 32.3# H-40 (@ 220' *				
	Intermediate String: 7 or Production String: 4-	nly casing avail	able) 5	5 will be used, 794' 22' (TD)	unless the K-5	5 is the	
	* The surface casing v to maintain hole stabil		minimum of 2	20', but could b	e set deeper if	required	

San Juan 28-7 Unit #61B(FC/PC/MV)

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9. Cement Program:

Surface String:

142 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 = 190 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: 368 sx Standard cement + 3% Econolite (extender) + 10#/sx Pheno-seal; (2.88 yield = 1059.3 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: 215 sx 50/50 POZ - Standard cement + 2% Bentonite + 6#/sx Pheno Seal; (1.33 yield = 285.4 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: 242 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 - 350.6 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 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, 4th, 6th, & 8th, 10th 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 jt. below the Oio Alamo and next 2 its up.

San Juan 28-7 Unit #61B (FC/PC/MV)

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- 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.

<u>Intermediate</u> - spud mud generated from natural clays with gel sweeps pretreated w/LCM before entering coal interval.

Below Intermediate - air or gas drilled.

12. The testing, logging, and coring programs are as follows:

D.S.T.s or cores:

Logs: GR/CCL/CBL & GSL over zones of interest

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 pressure:

Mesaverde – 1300 psi

14. The anticipated starting date is approximately October 21, 2003 with duration of drilling / completion operations for approximately 20 days thereafter.

2003 Drilling\296#12B newest drill prog - 10-14-03.doc

San Juan 28-7 # 61B

SURFACE CASING:

001 "

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	3669	h	
Lead Cement Yield	2.88	cuft/sk	
Lead Cement Excess	150	%	
Tail Cement Length	733.8	١.	
Tall Cement Yield	138	cuft/sk	
Tail Cement Excess	150	%	
Lead Cement Required	368	SX	
Tail Cement Required	215	sx	

SHOE 3669', 7",

20 ppf, J-55 STC

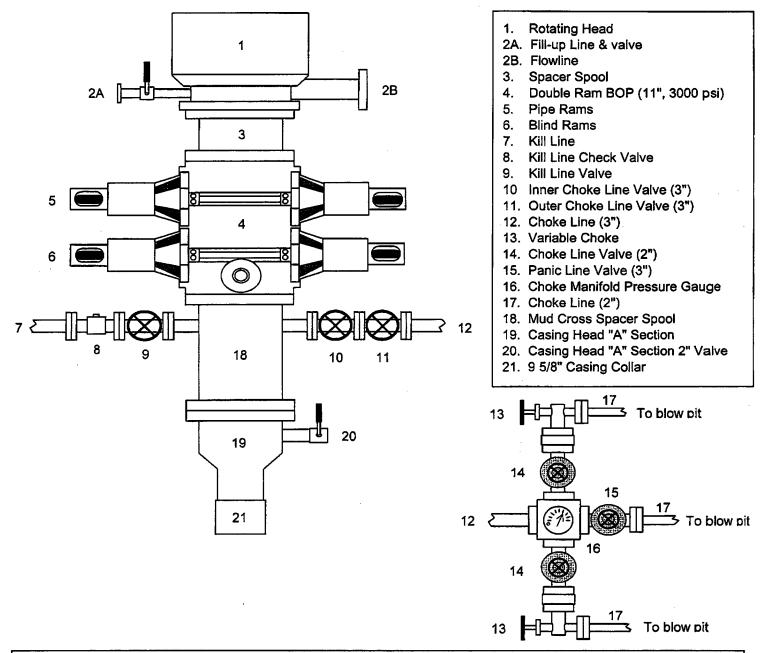
PRODUCTION CASING:

Drill Bit Diameter Casing Outside Diameter Casing Weight	6.25 " 4.5 " 10,5 ppf	Casing Inside Diam. 4.052
Casing Grade Top of Cernent Shoe Depth	24.0455 2469 5794	200' inside Intermediate casing
Cement Yield Cement Excess Cement Required	50 % 242 sx	sk

SHOE 5794 ', 4.5 ", 10.5 ppf, J-55 STC

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.

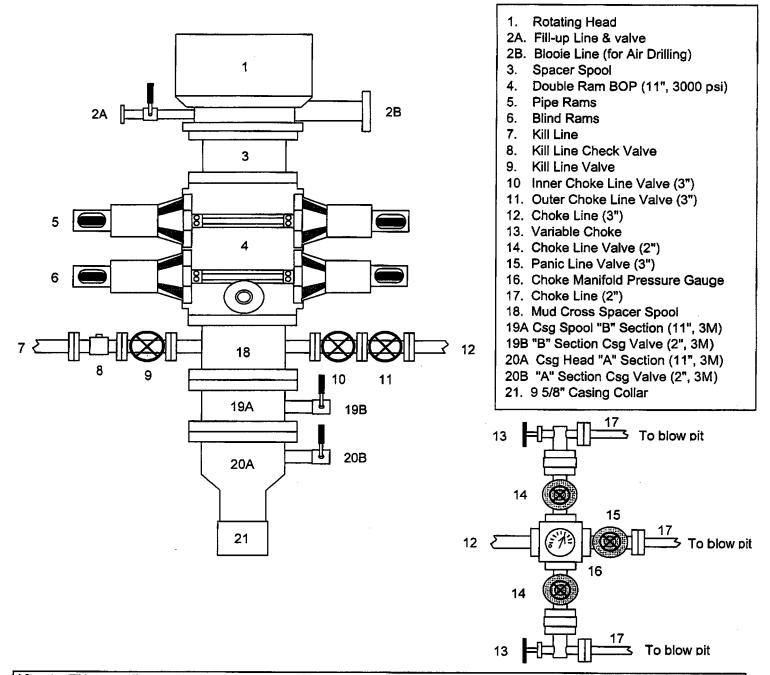
In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

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

10-21-03; 7:22AM; ConocoPhillips

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

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Casing Design Worksheet - FC/PC/MV well

Surface Casing								
Size	<u>Grade</u>	#/foot	Collapse	<u>Yield</u>	<u>Tensile</u>	Coupling	Lenuth	Weight
9-5/8"	<u>H-40</u>	32.3	1400	2270	254	ST&C	220	7,106
			Inte	rmediate Cas	sing			
Size	Grade	#/foot	Collapse	Yield	Tensile	Coupling	Length	Weight
7"	J-55	20	2270	3740	254	ST&C	3,669	73,380
						—— т	otal Weight	73,380
			Pro	duction Casi	ing			
Size	Grade	#/foot	Collapse	Yield	Tensile	Coupling	Length	Weight
4-1/2"	J-55	10.5	4960	5350	162	ST&C	5,794	60,837
-	•					т	otal Weight	60,837

Casing Parameters

Tensile

SF , = Tensile /; Must Exceed 1.8 for Dry or 1.6 for Bouyant

	254000 /	7,106		35.7
7" Int.	254000 /	73,380	_=	3.5
4-1/2" Prod	. 162000 /	60,837		2.7

Collapse

SF _ = Collapse / (Maximum Formation Pressure) or (Mud Gradient X T. V. D.); Must Exceed 1.125

9-5/8"	Surf.	1400	1	160	_=	8.8
7"	Int.	2270	1	1300		1.7
4-1/2"	Prod.	4960	1	1300	=	3.8

Burst

SF b = Burst / (Maximum Formation Pressure) or (Mud Gradient X T. V.D.); Must Exceed 1.0

9-5/8"	Surf.	/	160		14.2
7*	Int.	3740 /	1300		2.9
4-1/2"	Prod.	5350 /	3300	=	1.6

B.O.P. Requirement - (Maximum Formation Pore Pressure) or (Mud Weight X 0.05195 x T. V. D.) - 0.22 X T.V.D.

	1,300			
Excess	Cement Volumes			
Surface	150%			
Intermediate	150%			
Production	n/a			

Note: Cement volume calculations are stored in the computer log.

Blowout Preventer Equipment (BOPE)

ABHP=	1300	_PSI; TVD =	5,794	Feet;	Mud Weight =	NA*			
*Air drilled	hole for pr	oduction casing.	-		_				
Operator's G	radient (A	BHP / TVD) =	0.224	PSI/Ft is	<i>is not</i> appropri	ate and			
does / does not coincide with the Anticipated Mud Weight-for each drilled interval.									
The most cree	dible ABH	P is <u>0.224</u> PS	I/Ft.						
			Mud Weight x 0.05195 = Gradient						
		<u>NA*</u> X	0.05195	= <u>#VALU</u>	<u>E!</u>				
		•	$ABHP - (0.22 \times TVD) = ASP$						
		1300 - (0.22	X 5794)=25	psi			
0	1 D	ODE A 2	14	1					
Operator's proposed BOPE of 3 M exceeds bloes not exceed the									
ASP and is therefore adequate inot adequate.									

Note ASP - Anticipated Surface Pressure ABHP - Anticipated Bottom Hole Pressure