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

5.	Lease	Serial	l No
5. NMNI	ฟก1 <i>ว</i>	202	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for abandoned well. Use For			Alla Alla	6. If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE -	Other instructions	on reverse side	2003	If Unit or CA/Agreement, Name and/or N
Type of Well Oil Well		100 July 100	Corson.	Well Name and No.
2. Name of Operator			500 -079	SJ 31-6 Unit #204A
ConocoPhillips Company 3a. Address		3b. Phone No. (incl.	6287 7	9. API Well No.
5525 Highway 64, NBU 3004, Farmingt	on NM 87401	505-599-3	,	30 - 039 - 27470 10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey I		303 333 3	101	10. Field and Fool, of Exploratory Area
Unit D (NWNW), 1085 FNL & 485 FWL		* .		Basin Fruitland Coal
Section 3, T30N, R6W				11. County or Parish, State
				Rio Arriba. NM
12. CHECK APPROPRIATE	BOX(ES) TO INC	DICATE NATURE	OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION		;	TYPE OF ACTION	
X Notice of Intent	Acidize	Deepen	Production	n (Start/Resume) Water Shut-Off
Notice of finesit				
Subsequent Report	Alter Casing	Fracture Treat		
\mathcal{M}	Casing Repair	New Construc	tion Recomple	te Other
Final Abandonment Notice	Change Plans	Plug and Aban	don Temporar	ily Abandon <u>Change in original</u>
	Convert to Injection	on Plug Back	Water Dis	posal APD
Plans have changed to our drillin procedure for this well. We will After the well has been cavitated with more detail is attached.	g program and the now be topsett	ing and either	underreaming a	nd/or cavitating this well.
				RECEIVED 7003 AUG - 6 PM 3: 05 070 Farmington, NM
14. I hereby certify that the foregoing is true and correct Name (Printed Typed)	,	Title		
J 17	Pats/ Clugston	SHI	<u>EAR Administrat</u>	ive Assistant
talsy Cluston	<u> </u>	Date 8	-5-03	
	SPACE FOR FED	ERAL OR STATE	OFFICE USE	
Approved by /s/ Jim Lovato		Title		Date AUG 1 3 2003
Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations the	those rights in the subj	arrant or Office ect lease		

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a contract purposerson 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.

CONOCOPHILLIPS COMPANY

WELI	L NAME:	San Juan 31-6 Unit #204A	
DRILI	LING PROGNOSIS		
1.	Location of Proposed	Well: Unit D (NWNW), 1085' FNL & 48 Section 3, T30, R6W	5' FWL
2.	Unprepared Ground E	Elevation: <u>@ 6436'</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 dept	th is3349'	
6.	-	9' Picture Cliffs - 3396'	- - -
	ions of Approval for	rathole and ConocoPhillips will comply the proposed sump/rathole in this non-pro	
7.	_	s at which anticipated water, oil, gas or ed to be encountered are as follows:	other mineral bearing
	Water: Oil: Gas: Gas & Water:	Ojo Alamo - 2449' - 2569' none	- - -
8.	The proposed casing p	program is as follows:	
	Intermediate String: 7 Production Liner: _5- * The surface casir	8", 32.3#, H-40 @ 200' * ", 20#, J/K-55 @ 3104' 1/2", 15.5# J/K-55 @ 3084' - 3349' (see detaining will be set at a minimum of 200', but	-
9.		150.2 sx Class G cement with 2% bwoc C	CaCl2 (S001), 0.25#/sx

9. Cement program: (continued from Page 1)

Intermediate String:

<u>Lead Cement:</u> 388 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 = 1013.5 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 jts.

Intermediate: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, &

1st jt. into shoe.

Turbulators: Total three (3) - one at 1st jt below Ojo Alamo and next 2 jts up.

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

cemented.

Completion - Depending on well conditions,

• 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 - +/- 200 psi

14. The anticipated starting date is sometime around September 1, 2003 with duration of drilling operations for approximately 30 days thereafter.

2003drill\ 316#204A newest drill prog-cav.doc

San Juan 31-6 Unit #204A

SURFACE CASING:

Drill Bit Diameter 12:25 "
Casing Outside Diameter 9.625 " 9.001
Casing Weight 32:3 ppf
Casing Grade H-40
Shoe Depth 200 ' 40 '
Cement Yield 1,16 cuft/sk

Cement Yield 1,16 cuft/sl Excess Cement 150 %

Casing Capacity 0.0787 bbl/ft 0.4419 cuft/ft Hole / Casing Annulus Capacity 0.0558 bbl/ft 0.3132 cuft/ft

Cement Required 150.2 sx

SHOE 200 ', 9.625 ", 32.3 ppf, H-40

INTERMEDIATE CASING:

Drill Bit Diameter 8.75 " Casing Outside Diameter 6.456 Casing Weight 20 ppf Casing Grade J-55 Shoe Depth 3104 Lead Cement Yield 2.61 cuft/sk **Lead Cement Excess** 150 % **Tail Cement Length** 300 42 ' Tail Cement Yield 1.27 cuft/sk **Tail Cement Excess** 150 %

Casing Capacity 0.0405 bbl/ft 0.2273 cuft/ft Casing / Casing Annulus Capacity 0.0311 bbl/ft 0.1746 cuft/ft Hole / Casing Annulus Capacity 0.0268 bbl/ft 0.1503 cuft/ft

Lead Cement Required 388.3 sx Tail Cement Required 96.3 sx

LINER TOP 3084'

SHOE 3104', 7", 20 ppf, J-55

LINER BOTTOM 3349 ' (Uncemented)

Casing Design Worksheet - Fruitland Coal Wells

			S	Surface Casin	g			
Size	<u>Grade</u>	#/foot	Collapse	<u>Yield</u>	<u>Tensile</u>	Coupling	Length	Weight
9-5/8"	<u>H-40</u>	32.3	1400	2270	254	ST&C	200	6,460
			Inte	ermediate Ca	sing			
Size	Grade	#/foot	Collapse	<u>Yield</u>	<u>Tensile</u>	Coupling	Length	Weight
7"	J-55	20	2270	3740	254	ST&C	3,104	62,080
								
								-
				44 44		1	Total Weight	62,080
			Pr	oduction Casi	ing			
Size	<u>Grade</u>	#/foot	Collapse	<u>Yield</u>	<u>Tensile</u>	Coupling	Length	Weight
5-1/2"	J-55	15.5	4040	4810	202	ST&C	265	4,108
							Total Weight	4 100
							iotai weigitt	4,108

Casing Parameters-FC

Tensile

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

9-5/8"	Surf.	254000 /	6,460	=	39.3
7"	Int.	254000 /	62,080	=	4.1
5-1/2"	Prod.	202000 /	4,108	=	49.2

Collapse

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

9-5/8"	Surf.	1400	/	87	=	16.2
7"	Int.	2270	1	1,453	=	1.6
5-1/2"	Prod.	4040	1	200	=	20.2

Burst

SF_b = Burst / (Maximum Foramtion Pressure) or (Mud Gradient X T. V.D.); Must Exceed 1.0

9-5/8"	Surf.	2270 /	200	=	11.4
7"	Int.	3740 /	200	=	18.7
5-1/2"	Prod.	4810 /	200	=	24.1

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

Excess Cement Volumes

Surface 100%
Intermediate 150%
Production N.A.

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

Blowout Preventer Equipment (BOPE)

ABHP = 200 PS	l; TVD =	3,349	_Feet;	Mud Weight =	8.34
Operator's Gradient (ABHF does) / does not coincide The most credible ABHP is	-	-	.4 7	is not appropriat	
		Mud Weig	ht x 0.0519:	5 = Gradient	
	8.34 X	0.05195 =	= 0.433	_	
		ABHP -	(0.22 x TV)	D) = ASP	
-	200 - (1	0.22 <u>X</u>	3349		osi
Operator's proposed BOPE ASP and is therefore adequa	` -		does not e	<u>xceed</u> the	
Note ASP - Anticipated Surface ABHP - Anticipated Botton					

(Decmin) = ASP/(GR - .22)