Form	31	60-3	
(Augi	ıst	1999)

FORM APPROVED

(August 1999)	UNITED ST			Expires November 30, 2000
	DEPARTMENT OF A BUREAU OF LAND		5. Lease Seri NMSF07	
C	APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, a	Allottee or Tribe Name
la. Type of Work:	DRILL REENTER		7. If Unit or	CA Agreement, Name and No.
1b. Type of Well:		u - w	Aultiple Zone SAN JUA	ne and Well No. NN 32-7 UNIT 238A
2. Name of Opera CONOCOPI	HILLIPS COMPANY	PATSY CLUGSTON E-Mail: plclugs@ppco.com	9. API Well)	045 31617
3a: Address 5525 HWY. 6 FARMINGTO		3b. Phone No. (include area code) Ph: 505.599.3454 Fx: 505-599-3442	10. Field and	Pool, or Exploratory FRUITLAND COAL
4. Location of We	ell (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T.,	R., M., or Blk. and Survey or Area
At surface	SESE 475FSL 1140FEL 3	6.94667 N Lat, 107.58500 W Lon		T32N R7W Mer NMP
At proposed p	·		P	
	iles and direction from nearest town or post FROM IGNACIO, CO.		12. County o SAN JU	
15. Distance from lease line, ft. 475	proposed location to nearest property or (Also to nearest drig. unit line, if any)	16. No. of Acres in Eesse APR 200	332.22	Unit dedicated to this well
	proposed location to nearest well, drilling, oplied for, on this lease, ft.	19. Proposed Depth 3334 MD 3334 TVD	20. BLM/BL ES0085	A Bond No. on file
21. Elevations (SI 6598 GL	now whether DF, KB, RT, GL, etc.	22. Approximate date work will start 05/30/2003	23. Estimate 30 DAYS	
		24. Attachments		
The following, comp	pleted in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall	be attached to this form:	
 A Drilling Plan. A Surface Use Pl 	d by a registered surveyor. lan (if the location is on National Forest Sys filed with the appropriate Forest Service Of	Item 20 about tem Lands, the 5. Operator ce	ove). ertification site specific information and/o	or plans as may be required by the
25. Signature (Electronic S	Submission)	Name (Printed/Typed) PATSY CLUGSTON		Date 04/07/2003
Title AUTHORIZE	ED REPRESENTATIVE	L		
Approve Approve	WoJ. Mankiewicz	Name (Printed/Typed)		APR 1 1 2003
Title		Office		
Application approva	ol does not warrant or certify the applicant h	lolds legal or equitable title to those rights i	in the subject lease which wou	ld entitle the applicant to conduct

operations thereon. Conditions of approval, if any, are attached.

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 Operator Remarks (see next page)

Electronic Submission #20372 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

District I
Pr) Bog 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1080 Rio Brazos Rd., Aziec, NM 87410
District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT									
30-045-316/7 71629 Basin Fruitland Coal									
* Property (31329	Code		. –	SA	Property 32-		<u> </u>		* Well Number 238A
'ogrid 217817	1			CONO	Operator COPHILLIPS	COMPANY	<u> </u>	* Elevation 6598	
<u> </u>	•				10 Surface	Location			
Ul, or lot no. P	Section 29	Township 32N	Range 7W	Lot Idn	Feet from the	North/South line SOUTH	Feet from the 1140	East/West if	ine County SAN JUAN
			11 Bot	tom Hol	e Location I	f Different Fro	m Surface		
UL or lot no.	Section	Township	Kunge	Lot Idn	Feet from the	North/South line	Feet from the	East/West I	ine County
¹³ Dedicated Acr			Consolidatio	n Code 15 C	order No.				
		LL BE AS				UNTIL ALL INT N APPROVED BY			ONSOLIDATED OR A
¹⁶ S72°56'	W	2490		7	9°34'W	2648.58	¹⁷ OPE	RATOR (CERTIFICATION mation contained herein is
				33	7 2 SF <u>-</u> 02866	0 43.31	true and com	pleie to the best	of my knowledge and belief
4828.56	E CONTRACTOR OF THE PROPERTY O	3 14 15 16 APR 20	17 18 70 G	177	3	42.34	Printed Nan	Administ	rative Asst.
N3°56'E	P		5.00.00			• • • • • • • • • • • • • • • • • • •	I hereby cert was plotted for under my correct to the 12/0 Date of Surv	ify that the well from field notes a supervision, and best of my beli	
		S88°3	Q¹W	1360	78472 .0 acres	1140'	Signature and Si	BROADHUR MEXICO	sional Surveyer:

CONOCOPHILLIPS COMPANY

WELI	NAME:	San Juan 32-7 Unit	#238A	
	•			
DRILI	LING PROGNOSIS			
1.	Location of Proposed	Well: Unit Unpt P, Section 29, 7	475' FSL & 1140' FEL 32N, R7W	
2.	Unprepared Ground	Elevation:	<u>@ 6598'</u> .	
3.	The geological name	of the surface formation	on is <u>San Jose</u> .	
4.	Type of drilling tools	will be <u>rotary</u> .		
5.	Proposed drilling dep	oth is <u>3334'</u> .	•	
6.	Naciamento - 11 Ojo Alamo - 233 Kirtland - 24	8' Intern 50' Pictu	nediate casing – 3131' re Cliffs - 3361' - 3334'	
7.	-	ns at which anticipat ted to be encountered a	ed water, oil, gas or or are as follows:	other mineral bearing
	Water:	Ojo Alamo -	2338' – 2450'	
	Oil:	none	00001 00041	,
	Gas: Gas & Water:	Fruitland Coal - Fruitland Coal -	2982' - 3334' 2982' - 3334'	
8.		program is as follows:		
		/8", 32.3#, H-40 @_20 7", 20#, J/K-55 @_313		
			3111' - 3334' (see deta	ils below)
	* The surface cas		minimum of 200', but o	could be set deeper if
9.	Cement Program: <u>Surface String:</u> (S001), 0.25#/sx Cel	123.2 sx Class G co lophane Flake (D029)	Cement to 8 cment with 1.16 cuft/sx = 142.9 cf	Jurace yield, 2% bwoc CaCl2
	· ·			

9. Cement program: (continued from Page 1)

Intermediate String:

Lead Cement: 392.1 sx Class G w/3% D079 (chemical extender) 0.25#/sx D029 (Cellephone flakes, 0.05 GPS D047 (Antifoam Agent) 0.2% D046 Flocele (All purpose antifoam agent) mixed at 11.7 ppg and yield of 2.61 cuft/sx = 1023.38 cf.

Tail: 96.8 sx - 50/50/G/POZ cement w/2% D020 (Bentonite Extender), 2% S001 (CaCl2), 5#/sxD024 (Gilsonite), ½#/sx D029 (Celephane flakes) & 1% D046 (all purpose antifoam agent) @ a weight of 13.5 ppg and yield of 1.27 cuft/sx = 122.93 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 2"d, 3"d, & 4th its.

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

1st it. into shoe.

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

Liner:

- If the coal is cleated a 5 ½" 15.5# liner will be run in the open hole without being cemented.
- If the coal is NOT cleated, a 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation. The top of the liner will be set approx. 200' into the 7" casing and be set @ TD and be cement in place as follows:

<u>Lead Cement:</u> Approx. 150% excess - Standard with 3% Econolite + 10 lbs/sx Gilsonite + 0.5 lbs/sx Flocele + mixed at 11.4 ppg with a yield of 2.91 ft³/sx

Tail: 50/50 Poz Standard with 0.25 lbs/sx Flocele + 5 lbs/sx Gilsonite + 2% Bentonite and 2% CaCl₂ mixed at 13.5 ppg with a 1.33 ft³/sx yield.

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.

San Juan 32-7 Unit #238A

SURFACE CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Shoe Depth
Cement Yield
Excess Cement

9625 " 8.989 ppf □ [□=10] 0 ' 40 ' 11 [6] cuft/sk 10 [1] %

Casing Capacity
Hole / Casing Annulus Capacity

0.0785 bbl/ft 0.4407 cuft/ft 0.0558 bbl/ft 0.3132 cuft/ft

Cement Required

123.2 sx

SHOE

200 ', 9.625 ",

32.3 ppf,

H-40

INTERMEDIATE CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Shoe Depth
Lead Cement Yield
Lead Cement Excess
Tail Cement Length
Tail Cement Excess

" 6.455
ppf
1956
2191
cuft/sk
50
%
cuft/sk
45
cuft/sk
750
%

Casing Capacity
Casing / Casing Annulus Capacity
Hole / Casing Annulus Capacity

0.0405 bbl/ft 0.2272 cuft/ft 0.0309 bbl/ft 0.1734 cuft/ft 0.0268 bbl/ft 0.1503 cuft/ft

Lead Cement Required Tall Cement Required 392.1 sx 96.8 sx

LINER TOP

3111 '

SHOE

3131 ',

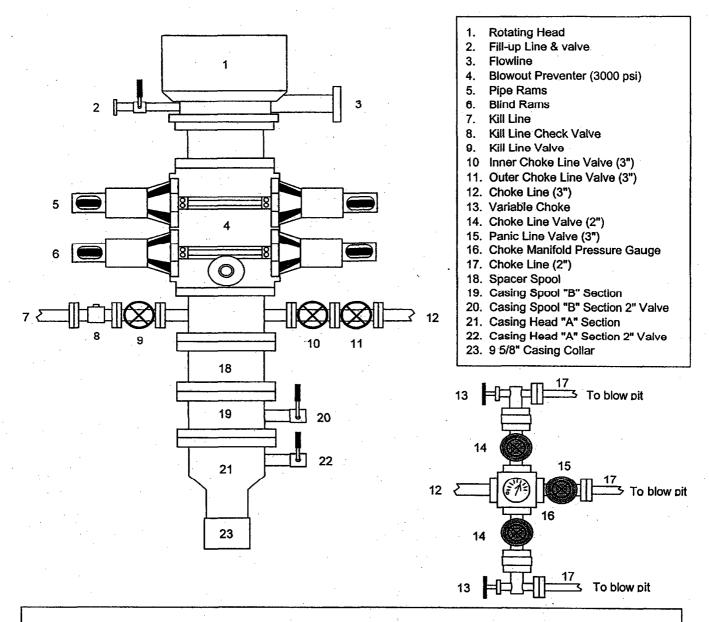
7 ".

20 ppf,

J-55

LINER BOTTOM

BLOWOUT PREVENTER HOOKUP



Drilling contractors used in the San Juan Basin suppy 3000 psi equipment, but cannot provide annular preventors because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. The above diagram of the BOP system details 2000 psi equipment according to Onshore Order No. 2 even thought the equipment will test to 3000 psi. The 2000 psi system allows deletion of the annular preventor and fulfills your requirements.

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 32-7 Unit #238A SF-078472; Unit P, 475' FSL & 1140' FEL, Section 29, T32N, R7W; San Juan 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.