Form 3160-3 (Auguet 1999) FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

	(August 1999) UNITED ST		Expires November 30, 2000							
	DEPARTMENT OF T BUREAU OF LAND N	MANAGEMENT	5. Lease Serial No. NMSF078997							
	APPLICATION FOR PERMIT 1	TO DRILL OR REENTER 2002	6. If Indian, Allottee or Tribe Nan	ne						
	Ta. Type of Work: ☑ DRILL ☐ REENTER	ON CONS. DIV.	7. If Unit or CA Agreement, Nam	e and No.						
	1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	8. Lease Name and Well No. SAN JUAN 30-5 UNIT 78M								
/1	2. Name of Operator Contact: PHILLIPS PETROLEUM COMPANY	9. API Well No. 30039 27033								
	3a. Address 5525 HWY. 64 FARMINGTON, NM 87401	10. Field and Pool, or Exploratory BASIN DK & BLANCO MV								
/	4. Location of Well (Report location clearly and in accorded	11. Sec., T., R., M., or Blk. and Survey or Area								
	At surface NESE 1980FSL 835FEL 36	T Sec 7 T30N R5W Mer NA	MP							
H	At proposed prod. zone									
	14. Distance in miles and direction from nearest town or post 26 MILES EAST OF BLANCO, NM	12. County or Parish RIO ARRIBA	13. State NM							
	15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 835'	16. No. of Acres in Lease 2560.00	17. Spacing Unit dedicated to this well 320.00 S/2 - Dak; F=6 MV							
	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7806 MD	20. BLM/BIA Bond No. on file							
	21. Elevations (Show whether DF, KB, RT, GL, etc. 6309 GL	22. Approximate date work will start 01/01/2003	23. Estimated duration 20 DAYS							
	24. Attachments									
	The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to	this form:							
	 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). Operator certification Such other site specific information and/or plans as may be required by the authorized officer. 									
	25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON	Dat	te 0/19/2002						
	Title			7/A						
	AUTHORIZED REPRESENTATIVE	·		~< <u>(</u>)						
	Approved by (Signature) 13 / 181 David J. Mankiewicz	Name (Printed/Typed)	Dat	te 7						

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would 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 #15311 verified by the BLM Well Information System For PHILLIPS PETROLEUM 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

ORILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

Office

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

District I

14) Haz 1980, Habbs, NM 88241-1980

District II

#11 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Astee, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerala & 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

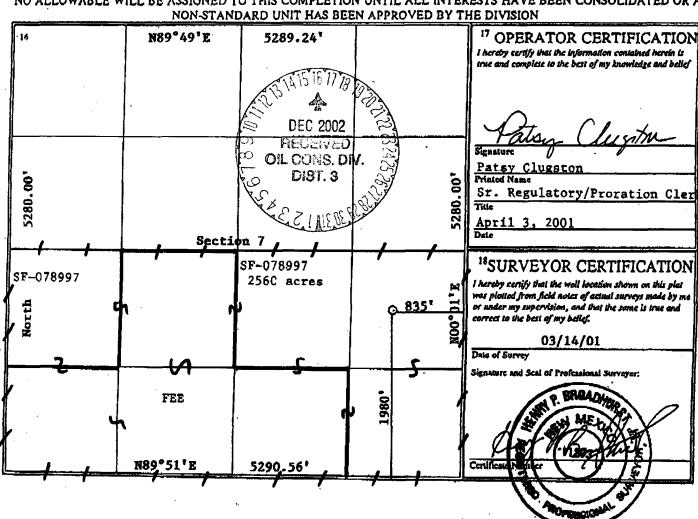
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-02 9-2	7033 71599	Basin Dakota	* Panj Nama	
4 Property Citie		' Property Name SAN_JUAN_30-5_UNIT		
OGRID No.	• 6	PETROLEUM COMPANY		'Elevation 6309"

10. Surface Location

VI, or lot no.	Section 7	Township 30N	Runge 5W	Lot Idn	Feet from the 1980*	North/South line SOUTH	Feet from the 835	East/West line EAST	County RIO ARRIBA
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Tuwnship	Runge	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
13 Dedicated Acres 13 Joint or Infitt 14 Consolidation Cade 13 Order No.									
220 0/2	1 ,	, l	77					No.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A



District I PD Bux 1980, Hubbs, NAI 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Actec, NM 87410

2040 South Pacheco, Santa Fe, NM 87505

⁴ Property Code

District IV

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 Number

Pool Name

WELL LOCATION AND ACREAGE DEDICATION PLAT

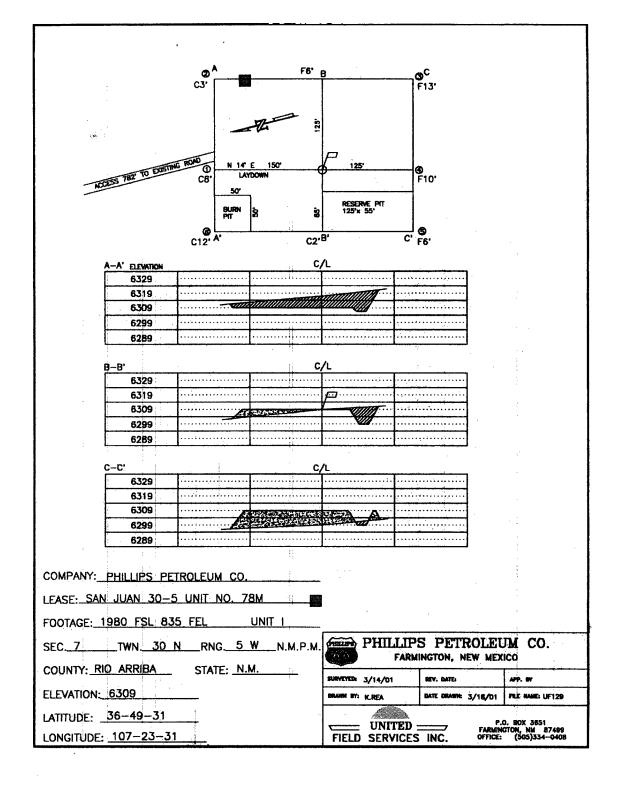
* Property Name

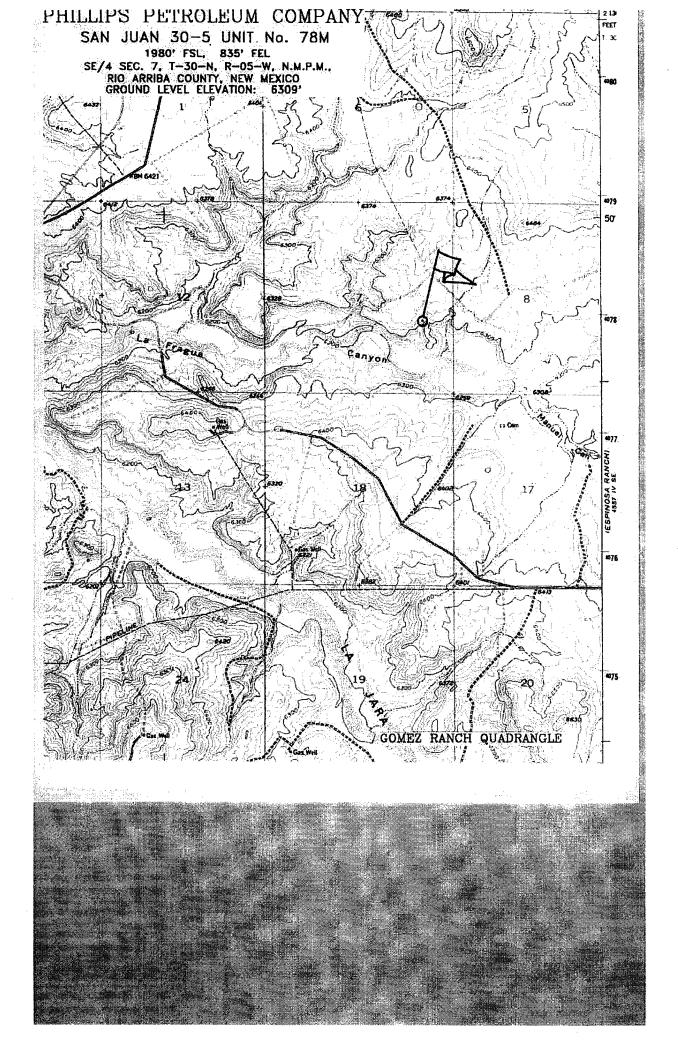
Blanco Mesaverde

1 Pool Code

72319

009258 017654 017654		SAN JUAN 30-5 UNIT 78M									
		Operator Name PHILLIPS PETROLEUM COMPANY								' Elevation 6309 '	
					10.Surfac	e Loca	tion				
Ul. or lut no.	Section 7	Township 30N	Range 5W	Lat Ida	Feet from the 1980*	1	/South line SOUTH	Feet from the	East/Wes	line	County RIO ARRIBA
			II Bol	tom Ho	le Location	If Diff	erent Fro	m Surface			
UL, or lot no. I	Section	Township	Range	Lot Ida	Feet from the		/South line	Feet from the	East/West	line	County
"Dedicated Acro	cs ¹³ Joint Y	or Infal 14 (Consolidatio U	д Code 15	Order No.				>-		
			SIGNED'					ERESTS HAVE		ONSO	LIDATED OR A
· 16		N89°4		7	89.24	2		17 OPER	ATOR that the info	rmation co	IFICATION ontained herein is sowiedge and belief
•							- 2	Signature Patsy C1 Printed Name	tsy (lu	×4_
5280.00			Secti	on 7	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			Sr. Reg	ulator	y/Proi	ration Clei
North			į	SF-07 2560.	1	. 0	835' Z	I hereby certify was plotted from or under my sup	that the well a field notes o pervision, and	location si of actual si i that the s of	FICATION hown on this plat urveys made by me same is true and
·		N89°51'	R	FEE		19801	- ર	Date of Survey Signature and Se	al of Profess		·
	<u> </u>			7					Allen	STATE OF THE PARTY	***/





PHILLIPS PETROLEUM COMPANY

WELL NAME:San		San Juan 30	0-5 Unit #78M (MV/DK)						
DRILI	LING PROGNOSI	íS							
1.			L 1980 FSL & 835' FEL						
			on 7, T30N, R5W						
2.	Unprepared Groun	d Elevation:	@ 6309' (unprepared)						
3.	The geological nar	ne of the surface	e formation is <u>San Jose</u> .						
4.	Type of drilling to	ols will be <u>rota</u>	ry .						
5.	Proposed drilling of	lepth is <u>7806'</u>							
6.	The estimated tops	of important ge	cologic markers are as follows:						
	Nacimiento -	1181'	Menefee Fm 5251'						
		2511'	Pt. Lookout - 5501'						
	Kirtland Sh -	2611'	Mancos Sh - 5951'						
	Fruitland Fm		Gallup Ss 6864'						
	Pictured Cliffs -		Greenhorn Ls 7496'						
	Lewis Shale -		Graneros Sh 7621'						
	Cliff House Ss -	5191'	Dakota Ss - 7671'						
7.	The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:								
	Water:	Ojo Alamo	- 2511' - 2611'						
	Gas & Water:	Fruitland -							
	Gas:	Pictured Cli							
		Mesaverde -							
		Dakota -	7671' - 7806'						
8.	The proposed casis	ng program is as	follows:						
	Surface String: 9-5/8", 32.3# H-40 @ 220' *								
	Intermediate String	g: <u>7", 20#, J/K-5</u> only casing av	55 @ 3396' (J-55 will be used, unless the K-55 is the						
	Production String:								
	* The surface cast to maintain hole st		a minimum of 220', but could be set deeper if required						

9. Cement Program:

Surface String:

138.7 sx Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx

Cello-flake + 60.6% FW (1.41 yield = 196 cf).

Intermediate String:

Lead Cement: 429.1 sx Type III cement (35:65) POZ + 5#/sx Gilsonite + 0.25 #/sx Cello-Flake + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 + 0.02#/sx static free + 129% FW (2.37 yield = 1017 cf). Cement to surface with 120% excess casing/hole annular volume.

Tail Cement: 50.0 sx Type III cement + 0.25#/sx Cello-Flake + 1% Calcium Chloride + 60.5% FW (1.4 yield = 70 cf). Cement to surface with 120% excess of casing/hole annulus volume.

Production String *: Lead Cement: 50 sx Type III (35:65) POZ L (Fly Ash L) with 6% gel Bentonite, 5#/sx Phenoseal, 0.2% bwoc CD-32, 0.75 bwoc FL-52 1#/sx LCM-1 0.25#/sx Cello-Flake, 10#/sx CSE, 0.02#/sx Static Free (2.34 yield = 117 cf).

> 2nd Lead Cement: 247.1 sx Type III (35:65) POZ L (Fly Ash L) with 6% gel Bentonite, 2.5#/sx Phenoseal, 0.2% bwoc CD-32, 0.75 bwoc FL-52 1#/sx LCM-1 0.25#/sx Cello-Flake, 10#/sx CSE, 0.02#/sx Static Free (2.32 yield = 573 cf)

> Tail Cement - 20 sx Type III (35:65) POZ L (Fly Ash L) with 6% gel Bentonite, 5#/sx Phenoseal, 0.2% bwoc CD-32, 0.75 bwoc FL-52 1#/sx LCM-1 0.25#/sx Cello-Flake, 10#/sx CSE, 0.02#/sx Static Free (1.91 yield = 38 cf).

*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) 1 @ 10' above shoe & top of 2nd, 4th & 6th joint

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

1 jt. above surface casing.

Production:

None planned.

Turbulators:

Total Three (3) - on intermediate casing at 1st it. below the Ojo

Alamo and next 2 its up.

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:

Dakota - 2400 psi Mesaverde - 510 psi

14. The anticipated starting date is approximately January 1, 2003 with duration of drilling / completion operations for approximately 20 days thereafter.

2003 Drilling\30578M mvdk drill prog.doc

BOP AND RELATED EQUIPMENT CHECK LIST

2M SYSTEM:

2 hydr. rams (pipe & blind) or hydr. ram and annular with blind ram on bottom

Kill Line (2-inch minimum)

1 kill line valve (2-inch minimum)

I choke line valve

2 chokes (refer to diagram in attachment 1) on choke manifold

Upper kelly cock valve in open position with handle available

Safety valve (in open position) and subs to fit all drill strings in use (with handle available)

Pressure gauged on choke manifold

2 inch minimum choke line

Fill-up line above the uppermost preventer

The BOPs will be pressure tested according to Onshore Order #2 III, A 1 and 30% safety factor.

drilling\BOPck.lst