Form 3160-3 (August 1999)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0136 Expires: November 30, 2000

APPLICATION		5. Lease Serial No. SF - 078282		
la. Type of Work	ILL REENTE	R		Illotee or Tribe Name
lb. Type of Well Oil Well	X Gas Well Other	Single Zone Multiple Zone		Agreement Name and No. n 29-5 Unit
Name of Operator Phillips Petroleum Company	,		8. Lease Nam	e and Well No.
Sa. Address		3b. Phone No. (include area co	de) 9. API Well N	<u>Unit #51M</u>
5525 Highway 64, NBU 3004,		505-599-3454		-039-26562
Location of Well (Report location cle At surface Unit C, 1185' Fl		ate equirements (5 10 11 10 13 2)		Pool, or Exploratory K and BTanco MV
At proposed prod. zone	Same as above	JAN 2001	(15 d) <u>→</u>	R., M., or Blk. and Survey or 19, T29N, R5W
4. Distance in miles and direction from	-	P OF STATE	12. County or	
4	24 miles west of Blan		Rio Arrib	a, NM
Distance from proposed* location to nearest property or lease line, ft.	1185'	16. No. SI Acres in lease	17. Spacing Unit dea	dicated to this well
(Also to nearest drg. unit line, if any)	,	200		
8. Distance from proposed location* to nearest well, drilling, completed,		19. Proposed Depth	20. BLM/BIA Bond	d No. on file
applied for, on this lease, ft.		8100' —		ES0048
1. Elevations (Show whether DF, KDB, 6679° GL	, RT, GL, etc.	22. Approximate date work will sta 1st Qtr 2001	art* 23. Estin	nated duration 20 days
	24	. Attachments		
The following, completed in accordance	with the requirements of Onshore Oi	il and Gas Order No. 1, shall be attach	ned to this form:	
Well plat certified by a registered sur A Drilling Plan	rveyor.	4. Bond to cover the operation Item 20 above).	ons unless covered by	v an existing bond on file (see
3. A Surface Use Plan (if the location is SUPO shall be filed with the appropr		1 -	formation and/or pla	ns as may be required by the
25. Signuature	O A IN	Jame (Printed/Typed)		Date
I ats	Clugaton	Patsy Clugston		11/10/00
Title Sr. Regulatory/Proratio				·
Approved by (Signautre)	N	lame (Printed/Typed)		Date 1/12/01
Title P G	O	Office FFO		· · · · · · · · · · · · · · · · · · ·
Application approval does not warrant or conduct operations thereon. Conditions of approval, if any, are attach		al or equitable title to those rights in the	he subject lease whic	h would entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 4 United States any false, fictitious or frauc			•	ny department or agency of th
*(Instructions on Reverse)		DIVILLING OPERATIONS /	TOTHORIZED ARE	
This eather is explain to t	scholasi and	SUBJECT TO COMPLIANC		Ų
personal review personal to A		"GENERAL REQUIREMEN	د ۱۵ د	

District I Pt) Bux 1986, Hubba, NM 38241-1986 District II 811 South First, Artesia, NM 88216 District III 1000 Rie Brazos Rd., Aztec, NM 87410 District [V

### State of New Mexico Energy, Minerals & Natural Remurres 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

2040 South Pache	rce, Santa F	e, NM #7505							L.	J AME	NDED REPORT
						REAGE DEDIC	CAT				······································
30.03	API Number	656	72	<sup>7</sup> Pool Ced 319		lanco Mesave	rde	<sup>3</sup> Poel Nat	MC		
4 Property		<u> </u>		<del></del>	<sup>4</sup> Property				• 1	Well Number	
009256	No.				AN JUAN 29		<del></del>				51M Elevation
017654				PHILI		Name COMPANY		· · · · · · · · · · · · · · · · · · ·			6679°
					10 Surface	Location	,				
UL er let-ne.	Section	Township	Range	Lot Ida	Feet from the	North/South line	1	from the	East/Wes		County RIO ARRIBA
<u> </u>	<u> 19</u>	29N	5W	L TT-1	11851	NORTH  f Different From		1835¹	WES?		KIU ARKIDA
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line		t from the	East/Wcs	l line	County
C C	Section	Township	Kange	1200 7000	Peet from the	(vorca/south line	```			. Det	Coulty
12 Dedicated Ac	res 13 Joint	or Infill "	Consolidatio	a Code 15 C	Irder No.	<del></del>					
320 W/2		Y	U								
NO ALLOW	ABLE WI					UNTIL ALL INT				CONSO	LIDATED OR A
		N N	ON-STAN	IDARD U	NIT HAS BEEN	N APPROVED BY	TH				
16		S89°4	9'E	528	80.00'			"OPER	RATOR	CERT	TIFICATION CONTAINED
				1				true and comp	y unas une in plese so the b	est of my b	nowledge and belief
1.	t								÷	· -	
Y		1185		1	-				`		
	183	5'			E18/11/21			4/	/ <del>-/</del>	0	<i>l</i> .
<b> </b>			-2		200	N 3		Signature	rej		ugin
		SF-078			IAN			Patsy C		n	
5280.00		1280.	00 acr	es	= 0	3	5280.00	I	-	v/Proi	cation Cler
0.0	ı.			<b>/</b>	(O) OF (	P 3	စ္က	Title	<u>urucor</u>	<i>J. I.</i> • • • •	, GG B G G G G G G G G G G G G G G G G G
228		`					521	Novembe Date	r 9. 2	000	
•	<b>-</b>		Sec	tion 19	AN COL	C. C. C.					
•								B			<b>FIFICATION</b>
				<b>/</b>			M	was plotted fr	rom field no	ies of activi	shown on this plat I surveys made by me
ਮੁਦੂ							0	or under my s correct to the			re same is true and
Nort	C	r					NO0°01	n	8/22/0	n	
							Ż	Date of Surve		<del></del>	
-			5					Signature and	Scal of Pro	Sessional S	urveyer:
								/3	P. BRUA	UHURS	
				1					P. BROA		rs\
	(	<b>/</b>						March		and a	(A)
				1				TEX	1 113	13 51	
		S89°	46'E	52	89.24	<u> </u>		Cerulicite N	umbei		\$/
	-		<b>"</b>					1.3	2000	A CARREST	

District I PO Box 1988, Hubba, NM 20241-1988 District II HII South First, Artesia, NM 20218 District III 1888 Rie Brums Rd., Axtec, NM 87418 District IV

2040 South Pacheca, 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

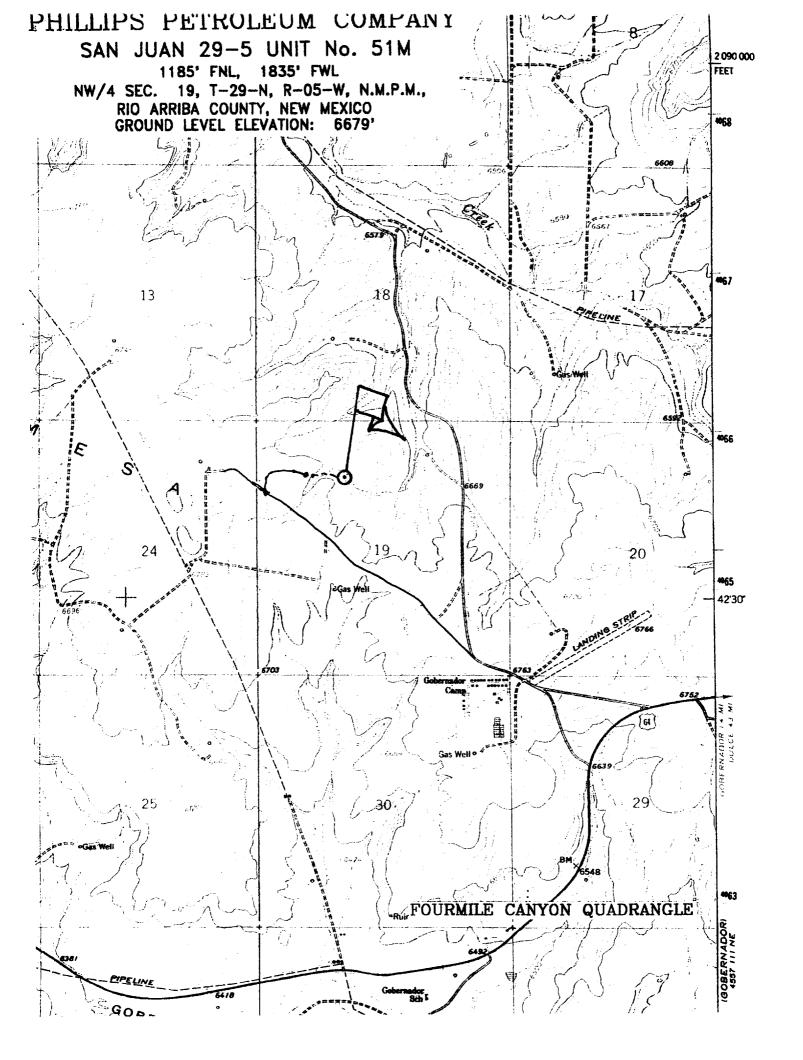
7 3'AN Number		<sup>1</sup> Pool Code		<sup>3</sup> Pool Name		
30-039-26	2566	71599	Basin Dakota			
* Property Code 009256	<sup>1</sup> Property Name SAN JUAN 29-5 UNIT				• Well Number 51M	
<b>'OGRID No.</b> 017654	PHILLIPS PETROLEUM COMPANY				Elevation 6679	

<sup>10</sup> Surface Location

UL or lot no.	Section 19	Township 29N	Range 5W	Lot Ida	Feet from the 1185*	North/South line NORTH	Feet from the 1835	East/West line WEST	County RIO ARRIBA
	Bottom Hole Location If Different From Surface								
UL or let no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С		<u> </u>	<u> </u>	<u> </u>					<u> </u>
13 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.									
320 W/2		Y	U			. <u> </u>			

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

	NON-STANDARD	UNIT HAS BEEN	APPROVED BY TH	E DIVISION
16	S89°49'E	5280.00'	·	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	1835'			Palsy Clugston
5280.00	SF-078282 1280.00 acres		5280.001	Signature Patsy Clugston Printed Name Sr. Regulatory/Proration Clerk Title November 9, 2000 Date
North	Section	19	NO0°01'E	18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  08/22/00 Date of Survey
	S89°46'E	5289.24'		Signature and Seal of Professional Surveyer:  BROADHURS  Certificate Number
				18 Mary Contract



#### PHILLIPS PETROLEUM COMPANY

WELI	L NAME: <u>San Juan 29-5 Un</u>	nit #51M MV/DK
DDII	I INC PROCNOSIS	
DRILI	LING PROGNOSIS  Location of Proposed Well: I	<u>Jnit C, 1185' FNL &amp; 1835' FWL,</u>
••		Section 19, T29N, R5W
2.	Unprepared Ground Elevation:	<u>@</u> 6679' (unprepared).
2	The realisation was after any	for a farmentian in Govern
3.	The geological name of the sur	Tace formation is <u>San Jose</u> .
4.	Type of drilling tools will be	rotary.
		- <del></del>
5.	Proposed drilling depth is <u>8</u>	<u>100°</u> .
6.	The estimated tans of importan	at goologie mentrens and as follows:
0.	The estimated tops of importan	at geologic markers are as follows:
	Naciamento - 1565'	Menefee Fm 5546'
	Ojo Alamo - 2686'	Pt. Lookout - 5796'
	Kirtland Sh - 2879'	Mancos Sh - 5965'
	_Fruitland Fm 3306'	Gallup Ss 6841'
	Pictured Cliffs - 3581'	Greenhorn Ls 7779'
	Lewis Shale - 3699'	Graneros Sh 7829'
	Cliff House Ss - 5464'	Dakota Ss - 7950'
7.		ch anticipated water, oil, gas or other mineral bearing
	formations are expected to be e	encountered are as follows:
	Water: Ojo Alar	mo - 2686' - 2879'
	<del></del>	1 - 3306' - 3581'
	Gas: Mesaver	
	Dakota -	
8.	The proposed casing program i	s as follows:
	C	11.40 ( 220)
	Surface String: 9-5/8", 32.3#	• • • • • • • • • • • • • • • • • • • •
	Intermediate String: 7", 20#, J/	
	Production String: 4-1/2", 11.	0#, N-80 (a) 8100° (1D)

9. Cement Program:

Surface String: 158.5 sx Type III cement with 2% bwoc CaCl2 + ¼#/sx Cello-

flake mixed at 14.5 ppg with a 1.41 ft3/sx yield w/46.5% H2O or

sufficient to circulate to surface – 223 cf.

Note: Cement slurry calculations based on cement to surface with 110% excess hole volume.

Intermediate String: Lead Cement: 459.6 sx Type III cement (35:65) POZ with 5#/sx

Gilsonite, ½#/sx Cello-flake, 6% bwoc gel (bentonite), 10#/sx CSE, 3% bwow KCL, 0.4% bwoc FL-25 mixed and 0.02#/sx Static

Free mixed at 12.0 ppg with a yield of 2.37 ft3/sx - 1089 cf.

Tail Cement: 50 sx – Type III cement with ½#/sx Cello-flake and

1% CaCl2 mixed at 14.5 ppg with a 1.40 ft3/sx yield (70 cf).

In the event we encounter fluid loss during drilling operations, a contingency plan for cementing the intermediate casing may require a stage collar. Phillips cannot predict exact volumes. However the 1<sup>st</sup> stage will be Cl H cement w/5#/sx Gilsonite, 0.25#/sx Cello-flake, 0.3% FL-25 & 2% CaCl2 mixed at 15.2 ppg 1.28 yield. Stage 2 - lead slurry: 65 % Class H & 35% POZ w/6% Bentonite mixed at 12.6 ppg 1.79 cf/sx Tail Slurry - Class H w/2% CaCl2 mixed at 15.6 ppg 1.20 yield. All attempt to be circulated to surface.

#### **Production String**

Lead: 335.9 sx Type III (35/65 POZ (Fly Ash) with 6% bwoc Bentonite, 10#/sx CSE, 0.2#/sx Static Free, 1% bwoc FL-52, 0.3% bwoc CD-32, 0.3% bwoc R-3 & 0.25#/sx Cello-Flake mixed at 12.3 ppg with a yield of 2.13 ft3/sx -715 cf.

Note: The Production String casing cement is designed to cover openhole section (with 40% excess) and 100' inside the 7" shoe.

Note: Phillips Petroleum continually works to improve the cement slurries on our wells. BJ Services is 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) 1 @ 10' above shoe & top of 2<sup>nd</sup>, 4<sup>th</sup> & 6<sup>th</sup> joint

Intermediate: Total seven  $(7) - 10^{\circ}$  above shoe, top of  $1^{\text{st}}$ ,  $2^{\text{nd}}$ ,  $4^{\text{th}}$ ,  $6^{\text{th}}$ , &  $8^{\text{th}}$  its &

1 jt. Above surface casing.

Production: None planned.

Turbulators: Total Three (3) - on intermediate casing at 1<sup>st</sup> 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.

#### BOP AND RELATED EQUIPMENT CHECK LIST

#### 3M 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