Form 3160-3 (August 1999)	UNITED DEPARTMENT C BUREAU OF LAN		FORM APPROVED OMB NO. 1004-0136 Expires:November30, 2000				
S	5.	5. Lease Serial No. NMSF078997					
1a. Type of Work	X DRILL	6.	6. If Indian, Alloteeor Tribe Name				
1b. Type of Well	Oil Well X Gas Well	one 7.	7. Unitor CA Agreemen(Nameand No. NMNM78419A, B & E				
Name of Operator Phillips Petrol	eum Company	1654				Lease Nameand Wo	ell No.
3a/ Address 5525 Highway 64	, NBU 3004, Farmington,	, NM 87401		908-599-3454	ode) 9.	API Well No	7-26803
<i>I /</i>	eport location clearly and in accord D. 660' FNL & 660' FWL		equirerten)s	AUG 2001		Field and Pool, or Basin DK and	
At proposed prod. 2	•	as above), 19 <i>3</i> 3	RECEIVED OIL CON DIV		Sec., T., R., M., o Section 9, T3	or Blk. andSurveyor Are
14. Distancein milesar	ddirectionfrom nearesttownor po	ostoffice* theast of Bla	nco. MM	D:37. 3	. 7	Countyor Parish o Arriba,	13. State
15. Distancefrom prop locationto nearest propertyor lease lir (Also to nearestdrg	osed* e, ft. 660'		16. No. of A	acres in lease	17. Spac	cingUnitdedicated	
18. Distancefrom prop to nearestwell, dril	osedlocation*		19. Propose	edDepth	20. BLN	I/BIA Bond No. on	file
appliedfor, on this	lease, ft.		7	′888' _~		ES004	8
21. Elevations(Showw	hetherDF, KDB, RT, GL, etc.		* *	kimatedateworkwills th Qtr 2001	start*	23. Estimateddu 20	ration days
		24.	Attachme	nts			
The following, comple	ted in accordance with the requi	rements of Onshor	e Oil and G	as Order No. 1, shall	be attache	ed to this form:	
 A DrillingPlan A SurfaceUse Plan 	y a registeredsurveyor. I (if the locationis on NationalFore I withthe appropriat&orest Servic		Ite 5. O ₁ 6. Su	nd to cover the opera m20 above). peratomertification. ch othersite specifici thorizedofficer.		·	
25. Signuature	On at	:	me(Printed/	J.		Date	9/20/01

Sr. Regulatory/Proration Clerk

Approvedby (Signautre)

Name(Printed/Typed)

Pate UG 2 4

Title

Office

Application approvabloes not warrantor certify that 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 personknowlingly and willfully to make to any department agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on Reverse)

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 PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

2040 South Pacheco, Santa Fe, NM 87505

an phisto.

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
	Paul Nume

API Number	¹ Pool Cude	' Pool Name			
30039-268	03 72319	Blanco Mesaverde			
⁴ Property Code 009258		¹ Property Name UAN 30-5 UNIT	* Well Number 49M		
**************************************		Operator Name PETROLEUM COMPANY	'Elevation 6366'		
01/634		- C Location			

¹⁰ Surface Location

	UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County	
1	D	اما	30%	5W		660'	North	660'		RIO ARRIBA	
	Bottom Hole Location If Different From Surface										
							T		5 .01/ .15	Complex	

East/West line County Feet from the North/South line Feet from the Lot Idn Range Section Township UL or lot no. 15 Order No. 14 Consolidation Code 13 Joint or Infill 12 Dedicated Acres Y U 320.0 W/2

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

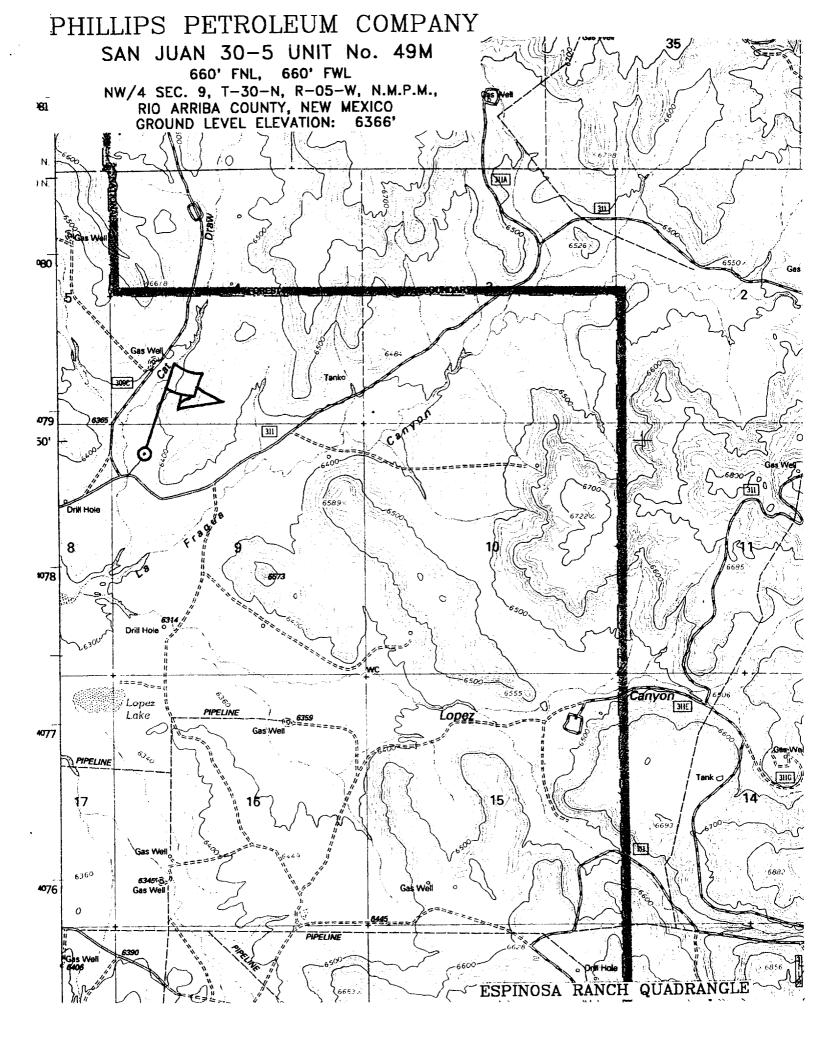
NO ALLOWANDED W	NON-STAND	ARD UNIT HAS BEE	N APPROVED BY TH	IE DIVISION
16 ,099	N89°42'E	5261.52'	·	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
660'	,			Daton Clusit
5280.00'	SF-078997 2560 acres Secti	A HOLDER	1 11	Signature Patsy Clugston Printed Name Sr. Regulatory/Proration Clerk Tide 4-3-2001 Date
N00°01'E	SF-078997	9. 3. M. E.	NOO.02'E	18 SURVEYOR 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. 03/09/01 Date of Survey Signature and Seal of Professional Surveyer:
	N89°44'E		ئىن قىن بىن بى ئ	Certificial funios
	7 7			THE PROPESSIONAL ST

District I Pt) Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Bruzos Rd., Aztec, NM 87410 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

District IV 2040 South Pache	an Canta Fe	NM X7505								AME	ENDED REPORT
ZU-10 South Facto	Ku, Jame I					25 4 65 DEDI	~ A 1	ומ ואסזי	۸T		
		WE	ELL LO			REAGE DEDI	CAI	Pool No	ine .		
					Basin Dakota						
⁴ Property Code					⁵ Property Name						Well Number
009258			<u> </u>		SAN JUAN 30 Operator						* Elevation
O17654	No.			PHII	LIPS PETRO	LEUM COMPANY					6366'
					10 Surface	Location	1 _		East/West li	•	Country
UL or lot no.	Section	Township	Range	Lot Ida	Lot lon Peet Hom the					EST RIO ARRIBA	
D		30N		YY-	660'	North If Different Fr	om S		T THE		MIW_IIII
	 _	1		Lot Idn	Feet from the	North/South line	Fee	t from the	East/West li	ine	County
UL or lot no.	Section	Township	Range	Lation	Peet Hom the				<u> </u>		<u> </u>
12 Dedicated Act	res " Joint	or Infill 14	Consolidation	n Code 15	Order No.						
	١.,		U			.					
NO ALLOW	ABLE WI	LL BE AS	SIGNED '	TO THIS	COMPLETION	UNTIL ALL IN	TERE	STS HAV	E BEEN CO	ONSO	LIDATED OR A
						N APPROVED B		17 ODE	DATOR (CED'	TIFICATION
16	,	и89°	42'E	5	261.52 '			al hereby certi	to that the infor	mation	contained herein is
099	3	L				L	4	true and com	plete to the best	i of my l	knowledge and belief
660'	П	,			ſ		:				
V									۰ م	1	
	ح	! 	S				1	Ta	bsy C	lus	1/2
ļ,	3	SF-078	3997					Signature	Clucator	7	,
Y	`	2560 a	acres				-	Printed Nan			
98				4			00		gulator	y/Pr	<u>oration Cler</u> k
5280.00							5280.	Title 4-3-2	2001		
52			_		2029	03787	5	Date Date	.001		
	/		Sec	tion 9		33/		18CI ID 1	VEYOR (CER'	TIFICATION
	•					10 C		1 hereby cert	ify that the well	location	n shown on this plat
ы					THE WASTERNANCE OF THE PARTY OF	81 OH 3 S	2'E	or under my	supervision, an	rd that t	ul surveys made by me he same is true and
N00°01'E					E P	033	N00°02'	correct to th	e best of my bel	lief.	<i>'</i>
00					ASS OF	log O	ŎN.	Date of Surv		09/0)1
11	4.1. <i>4</i>				2//01	1 1 1 1		(d Seal of Profes	ssional S	Surveyer:
	10 may 1				ر ال					and the lands of	
								/	BROAD	HURS.	
	•							1/3	11 M	(%)	(5X)
								Chesn	11/12	2	180.
		N89°	44'E	5	260.20'			Certificati	umbo	I	3
<u> </u>		1 107						13	No.		क्षे
								\	MOPES	SIONA	



PHILLIPS PETROLEUM COMPANY

WELL	. NAME:	San Juan 30-	5 Unit #49M]	MV/DK	
DRILI	LING PROGNOSIS Location of Proposed		D. 660' FNL & 9 n 9, T30N, R5V		<u>-</u>
2.	Unprepared Ground I	Elevation:	@ 6366' (ur	nprepared).	
3.	The geological name	of the surface f	ormation is San	<u>ı Jose</u> .	
4.	Type of drilling tools	will be <u>rotary</u>	•		
5.	Proposed drilling dep	oth is <u>7888'</u> .			
6.	The estimated tops of	f important geol	logic markers a	re as follows:	
7.	Naciamento - 1268 Ojo Alamo - 2436 Kirtland Sh - 2562 Fruitland Fm. 2962 Pictured Cliffs -314 Lewis Shale - 3411 Cliffhouse - 5274	4' 2' 2' 15'	Pt. Lookout – Mancos Sh – 5 Gallup Ss - 65 Graneros Sh - Dakota Ss -	5820' 723' 7612' 7738'	other mineral bearing
<i>,</i> .	formations are expec				
	Water: Gas & Water: Gas:	Ojo Alamo - Fruitland - Mesaverde - Dakota -	5274' - 5549'		
8.	The proposed casing	program is as f	ollows:		
	Production String:	7", 20#, J/K-55 only casing ava 4-1/2", 11.6#, I-	@ 3556' (J-; ilable. -80 @ 7888' (T	TD)	unless the K-55 is the
	to maintain hole stab		culate		e set deeper if required

9. Cement Program:

Surface String: 197.7 sx Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx

Cello-flake +60.6% FW (1.41 yield = 279 cf).

Intermediate String: Lead Cement: 445.5 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 = 1056 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: 229.8 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 = 533 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 jt. 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:

Fruitland – 600 psi Mesaverde - 900 psi Dakota – 1800 psi

14. The anticipated starting date is approximately 4th Qtr 2001 with duration of drilling / completion operations for approximately 20 days thereafter.

2001drill\305#49M mvdkprog

San Juan 30-5 Unit #49M (MV/DK)

SURFACE CASING:

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

12.25 " 9.625 " 8.989 32.3 ppf 11.40 320 ' 1.41 cuft/sk 165 %

Hole / Casing Annulus Capacity

0.0558 bbl/ft 0.3132 cuft/ft

Cement Required

197.7 sx

SHOE

320 ', 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 7 7 6.455 20 ppf J-55 3556 ' 2.37 cuft/sk 2.120 % 2.11.5 ' 4.1.4 cuft/sk 120 %

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

7 ",

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

Lead Cement Required Tail Cement Required 445.5 sx 50.0 sx

SHOE

3556 ',

20 ppf,

J-55

PRODUCTION 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

6.25 "
4.5 " 4.000
11.6 ppf
1-80
7888 '
2,33 cuft/sk

248 1.91 cuft/sk 1.50 %

200 °

Lead Cement Required 279.8 sx Tail Cement Required 20.0 sx

SHOE

7888 '.

Casing Capacity

4.5 ",

Casing / Casing Annulus Capacity

Hole / Casing Annulus Capacity

11.6 ppf,

1-80

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