Form 3160-3 (August 1999)	UNITEL*STATE DEPARTMENT OF THE BUREAU OF LAND MA		FORM APPROVED OMB NO. 1004-0136 Expires:November30, 2000					
AP	5	5. Lease Serial No. NMSF078997						
1a. Type of Work	6	6. If Indian, Alloteeor Tribe Name						
1b. Type of Well	ne 7	7. Unitor CA AgreementNameandNo. NMNM7841A, B & E						
2. Name of Operator Phillips Petroleum		Lease Nameand Well No. San Juan 30-5 Unit #73M						
/ 3a/Address /5525 Highway 64, N	ode) 9	1						
4. Location of Well (Report At surface Unit D,								
At proposed prod. zone	3 11	Sec., T., R., M., or Blk. and Surveyor A Section 10, T30N, R5W						
14. Distancein milesanddi	Countyor Parish 13. State NM							
15. Distancefrom proposed locationto nearest		1	6. No. of Acres in lease	17. Spa	cingUnitdedicated this well			
propertyor leaseline, ft. (Also to nearestdrg. uni	tline, if any)		2560 acres	<u></u> ∫ 3	320 N/2-DK & 320 W/2-MV			
18. Distancefrom proposed location* to nearestwell, drilling, completed,			9. ProposedDepth	20. BL	BLM/BIA Bond No. on file			
applied for, on this lease			7924'		ES0048			
21. Elevations(Show wheth	nerDF, KDB, RT, GL, etc. 6396'GL —	2	22. Approximatedateworkwills 4th Qtr 2001	tart*	23. Estimatedduration 20 days			
		24. A	Attachments					
The following, completed i	in accordance with the requirements	of Onshore	Oil and Gas Order No. 1, shall	be attach	ed to this form:			
	egisteredsurveyor. he locationis on NationalForest Syster hthe appropriat&orest Service Office)		Item20 above). 5. Operatorertification.		esscoveredby an existingbondon file (see orand/orplansas may be requiredby the			
25. Signuature	00 1 1	Nar	ne(Printed/Typed)		Date			
- talsy	- Clusitm	!	Patsy Clugston		8/20/01			
Title // Sr. Regulatory/	V							
			nė(Printed/Typed) ·		Date AUG 2.4			
Title		Offi	Office					
Applicatiompprovations nonduct operations thereo Conditions of approval, if	n.	holdslegal o	or equitabletitle to those rights in	the subje	ct lease whichwouldentitlethe applican t o			
Title 18 U.S.C. Section 100 United States any false, fic	1 and Title 43 U.S.C. Section 1212, n titious or fraudulent statements or re	nakeit a crir epresentatio	ne for any personknowlinglyand ons as to any matter within its j	dwillfully urisdictio	rto make to any departmentr agency of th n.			

This action is subject to technical and procedural review pursuant to 43 CFR \$185.3 and appeal pursuant to 43 CFR \$185.4.

*(Instructions on Reverse)

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-10 Revised October 18, 19th Instructions on ba-Submit to Appropriate District Offi

State Lease - 4 Copi Fee Lease - 3 Copi

AMENDED REPOR

2040 South Pache	eco, Santa F									AM ل	ENDED REPOR
	All Number		ELL LO	¹ Pool Cod	AND ACE			Pool N			
⁴ Property Code			71599	71599 Basin Dakota SAN JUAN 30-5 UNIT				• Weij Number			
009258 *OGRID No.		PHILL	PHILLIPS PETROLEUM COMPANY				1		6396°		
017654		L			10 Surface						
UI, or lot no.	Section 10	Township 30N	Range 5W	Lot Ida	Feet from the 677'	North/S	outh line RTH	Feet from the 806'	East/Wes WE		County RIO ARRIBA
		1,	II Bot	ttom Hol	e Location I	f Diffe	rent Fro	m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		outh line	Feet from the	East/Wes	t line	County
" Dedicated Acr	v	,	Consolidatio	U	Order No.			PD POTO II A V	r previ	CONS	OI IDATED OF
16		No	SIGNED ON STAI 948'E	NDARD U	COMPLETION NIT HAS BEE! 264.82'	APPRO	OVED BY	17 OPEI	RATOR	CER	TIFICATION
806.	677' > ,	SF-0789	. 97		5	J	5	Signature	Clugst	W	knowledge and belief
5280.00'		2560.0	acres	4	,		5280.0	Printed Nam	e		oration Cle
N00°02'E - ° - °	1		SEC	TION 10	7 2001		N00.03	l hereby certi was plotted fi	fy that the w rom field not supervision, best of my b 04/10	ell locations of action of the control of the contr	TIFICATION on shown on this plat tul surveys made by m the same is true and
				WILLIAM STATE	OLO COLO			Signature and	Seri SAN	The state of the s	S.

N89948'E

5265.48

District I 14) Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos 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

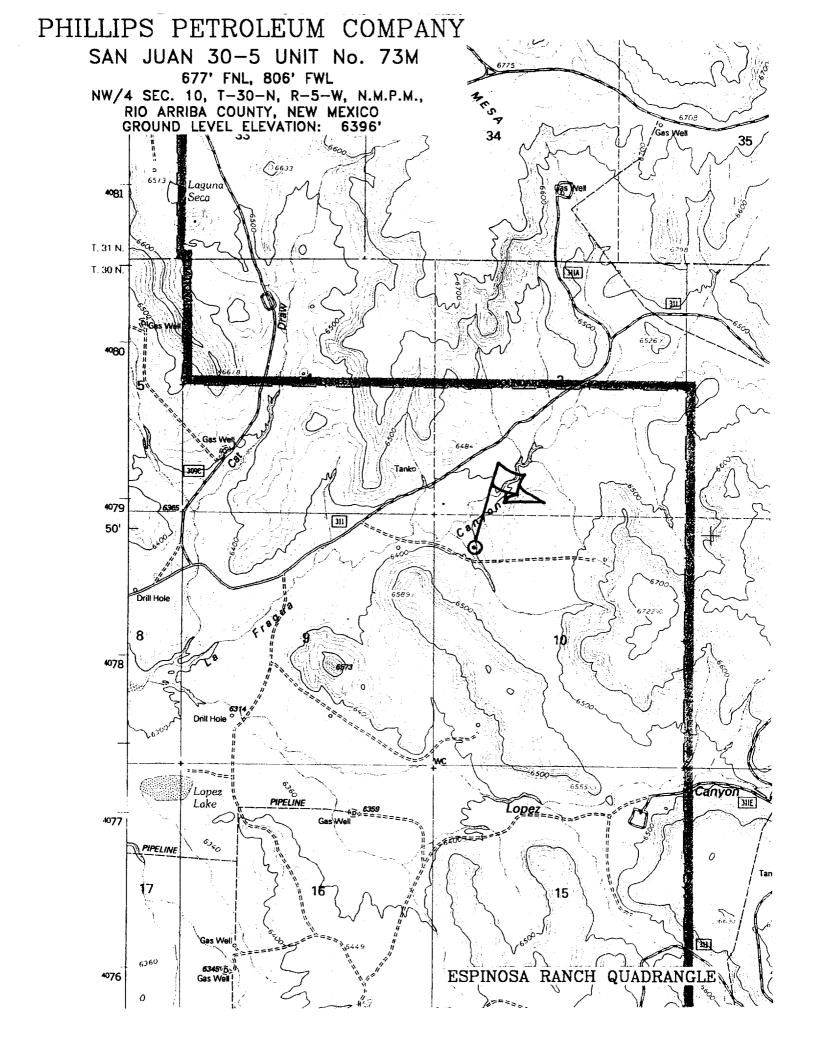
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

District IV AMENDED REPORT 2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name Blanco Mesaverde 72319 Well Number SAN JUAN 30-5 UNIT 4 Property Code 009258 PHILLIPS PETROLEUM COMPANY 6396^{on} OGRID No. 017654 10 Surface Location East/West line County Feet from the North/South line Feet from the Lot Idn Range Township UL or lot no. Section RIO ÁRRIBA WEST 806 NORTH 677 30N 10 D 11 Bottom Hole Location If Different From Surface Feet from the East/West line County North/South line Lot Idn Feet from the Township Range UL or lot no. Section " Order No. 14 Consolidation Code 12 Dedicated Acres " Joint or Infill U 320 W/2 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR CERTIFICATION N89948'E 5264.82 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief 677 806 Signature SF-078997 Patsy Cl 2560.00 acres Printed Name Regulatory/Proration Cle 5280.00 Sr. 5280.00 5/7/01 **SECTION 10** 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 N00°02'E correct to the best of my belief. 04/10/01 Date of Survey

89948'E

5265.48

Certificat



PHILLIPS PETROLEUM COMPANY

WELL	. NAME:	San Ju	an 30-5 Unit #73M MV/DK			
DRILI	LING PROGNOSIS					
1.	Location of Proposed	Well:	Unit D. 677' FNL & 806' FWL,			
		<u> </u>	Section 10, T30N, R5W			
2.	Unprepared Ground I	Elevation	: <u>@ 6396' (unprepared)</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 dep	th is <u>792</u>	24' .			
6.	The estimated tops of	f importa	nt geologic markers are as follows:			
	Naciamento - 1270	,	-			
	Ojo Alamo - 2570)'	Menefee - 5398'			
	Kirtland Sh - 2687		<u>Pt. Lookout – 5597'</u>			
	Fruitland Fm. 2990		<u>Mancos Sh – 5875'</u>			
	Pictured Cliffs –318	2'	Gallup Ss - 6645'			
	<u>Lewis Shale – 3435</u>	• •	Graneros Sh - 7596' 7649 CEH			
	Cliffhouse – 5352	,	Dakota Ss - 7 649° 7774)			
7.			nich anticipated water, oil, gas or other mineral bearing encountered are as follows:			
	Water:	Ojo Ala	amo - 2570' - 2687'			
	Gas & Water:	Fruitlar				
	Gas:	Mesave				
	Gus.	Dakota				
8.	The proposed casing					
	Surface String: 9-5/8", 32.3#, J/K-55 @ 320' * Intermediate String: 7", 20#, J/K-55 @ 3580' (J-55 will be used, unless the K-55 is the					
	only casing available. Production String: 4-1/2", 11.6#, I-80 @ 7924' (TD)					
		· 1 • ·	-			
	* The surface casing	will be	set at a minimum of 320', but could be set deeper if required			

to maintain hole stability.

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: 448.8 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 = 1063 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: 230.6 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 = 535 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 it. 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:

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#73M mvdkprog

San Juan 30-5 #73M MV/DK)

SURFACE CASING:

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

8.989 cuft/sk

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 Yield Tail Cement Excess

6.455 37 cuft/sk 1.4 cuft/sk

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

7 ",

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

200 '

448.8 sx

Lead Cement Required Tail Cement Required

50.0 sx

SHOE

3580 ',

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 Yield **Tail Cement Excess**

4.000 11.6 ppf 1-80 7924 2.33 cuft/sk **50** % Lap 248 1.91 cuft/sk

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

0.0208 bbl/ft 0.0183 bbl/ft

0.1168 cuft/ft 0.1026 cuft/ft 0.0155 bbl/ft 0.0872 cuft/ft

Lead Cement Required **Tail Cement Required**

280.6 sx 20.0 sx

SHOE

7924 ',

4.5 ", 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)

1 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