Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR RUBEAU OF LAND MANAGEMENT

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

BUREAU OF LAND MANAGEMENT	5. Lease Serial No. NMSF078739	
APPLICATION FOR PERMIT TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Nam	ne
1a. Type of Work: □ REENTER	7. If Unit or CA Agreement, Name	e and No.
1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone 2. Name of Operator PHILLIPS PETROLEUM COMPANY 3a. Address 3b. Phone No. (include area code)	8. Lease Name and Well No. SAN JUAN 30-5 UNIT 90M 9. API Well No. 30 0 3 9 2 70 0 10. Field and Pool, or Exploratory	
/ 5525 HWY. 64 FARMINGTON, NM 87401 Ph: 505.599.3454 Fx: 505-599-3442	BASIN DK & BLANCO M	
4. Location of Well (Report location clearly and in accordance with any State requirements.*)	11. Sec., T., R., M., or Blk. and St	urvey or Area
At surface NESE 1977FSL 661FEL 36.79611 N Lat, 107.33720 W Lon At proposed prod. zone	Sec 22 T30N R5W Mer N	IMP
14. Distance in miles and direction from nearest town or post office* 27.5 MILES E/NE OF BLANCO, NM JAN 2003	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) 661 16. No. of Acres in Lease Fig. 10 and 10	17. Spacing Unit dedicated to this	well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 8099 MD	20. BLM/BIA Bond No. on file ES0048	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6669 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 Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 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). Item 20 above). Operator certification Such other site specific in 	ons unless covered by an existing bon formation and/or plans as may be req	
authorized officer.		
25. Signature Name (Printed/Typed) (Electronic Submission) PATSY CLUGSTON	Dat 10	e 0/23/2002
Title AUTHORIZED REPRESENTATIVE		
Approved by (Signature) Name (Printed/Typed) Name (Printed/Typed)	þEC	° 3 0 200
Title ATM		
Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject operations thereon. Conditions of approval, if any, are attached.	lease which would entitle the applican	nt to conduct
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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	to make to any department or agency	of the United

Additional Operator Remarks (see next page)

Electronic Submission #15446 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

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

District 1 18) Bux 1980, Hobbs, NM 88241-1980 District II 311 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

2040 South Pache	co, Santa F	e, NM 87505							AM!	ENDED REPORT
				CATIO	N'AND ACE	REAGE DEDI	CATION PL	_AT		
30-03	All Numb	708k	5 723	Pool Co		anco Mesaver	' Pool N	aurc		
Property Code Property Name							•	Mel QMuper		
009258	_				Operator	· · · · · · · · · · · · · · · · · · ·			· 6669°	
017654				PHIL		EUM COMPAN	<u> </u>			0003
			1	·	10 Surface	I		γ		
VI. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line SOUTH	Feet from the 661'	East/West		RIO ARRIBA
	-22-	- 30N	11 Bot	tom Ho	le Location I		m Surface			-L
UL or lot no. T	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West	lioe	County
12 Dedicated Acre	rs 13 Joint	or Infill 14	l Consolidatio	n Code "	Order No.			<u> </u>		
320 E/2	<u> </u>	Y	ט							
NO ALLOWA	BLE WI					UNTIL ALL INT			CONSO	LIDATED OR A
5280.00' N00°02'E		NON-STANDARD UNIT HAS BEEN N89°45'E 5266.80' SF-078739 232079 acres JAN 2003 ECONOMIC STANDARD UNIT HAS BEEN NO. 1200.100 (1) 100 (1			5280.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and beltief Signature Patsy Clugston Printed Name 5280.00 Sr. Regulatory/Proration Clerk Title 5/7/01 Date 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 beltif. 04/18/01 Date of Survey Signature and Sear of Roll signal Surveys.				
			9946'E		19	77'	Certificate Nun	TO	MEX.	

District I PO Box 1980, Hobba, 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

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Fee Lease - 3 Copies

AMENDED REPORT 2040 South Pucheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 Poul Code ¹ Pool Name 086 71599 Basin Dakota 4 Property Code 009258 ¹ Property Name , McRAMbper SAN JUAN 30-5 UNIT OGRID No. Operator Name 6669° PHILLIPS PETROLEUM COMPANY 017654 10 Surface Location UL or lut no. Section Township Lot Ida Feet from the North/South line Feet from the East/West line Range County RIO ARRIBA **EAST** 661' SOUTH 1977 99 11 Bottom Hole Location If Different From Surface UL or lot no. Section Lot Ida Feet from the North/South line Feet from the Fast/West line Township Range County 13 Dedicated Acres " Joint or Infill 14 Consolidation Code " Order No. B20 E/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 16 5266.80 **OPERATOR CERTIFICATION** N89945'E I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief SF-078739 2320.0 acres Patsy Clugston Printed Name Regulatory/Proration Cler 5280.00 5280.00 5/7/01 Date 18SURVEYOR CERTIFICATION MEGGEVED N00°03' hereby certify that the well location shown on this plat DIL CONS. DW. was plotted from field notes of actual surveys made by me DIST. 3 or under my supervision, and that the same is true and correct to the best of my belief. N00°02'E 661 04/18/01 Date of Survey Signature and S

ከ977'

N89946'F

Certificate Numb

PHILLIPS PETROLEUM COMPANY

WELL	NAME:	San Juan 30-5	Unit #90M (MV/DK)					
DRILI	LING PROGNOSIS							
	Location of Proposed	Well Unit L	1977' FSL & 661' FEL					
			22, T30N, R5W					
		-						
2.	Inprepared Ground I	Elevation:	@ 6669' (unprepared) .					
3.	The geological name	of the surface fo	ormation is San Jose					
4.	Type of drilling tools	will be <u>rotary</u>	·					
5 .	Proposed drilling dep	th is <u>8099'</u>						
6.	The estimated tops of	f important geole	ogic markers are as follows:					
	Nacimiento - 16	<u>31'</u>	Menefee Fm 5601'					
		11'	Pt. Lookout - 5806'	-				
		1'	Mancos Sh - 6256'	: ·				
	Fruitland Fm 31	81'	Gallup Ss 7111'	•				
	Pictured Cliffs - 34	31'	Greenhorn Ls 7789'	,				
	Lewis Shale - 36	81'	Graneros Sh 7909'	•.				
	Cliff House Ss - 55	21'	Dakota Ss - 7974'	,				
	The estimated depth formations are expect		ticipated water, oil, gas or of tered are as follows:	other mineral bearing				
	Water:	Ojo Alamo -	2811' – 2911'					
	Gas & Water	Fruitland -	3181' – 3431'					
	Gas:	Pictured Cliffs						
		Mesaverde -	5521' – 6256'	,				
		Dakota -	7974' – 8099'					
8.	The proposed casing	program is as fo	llows:					
	Surface String: 9-5/	/8", 32.3# H-40	@ 220' *					
	Intermediate String: 7", 20#, J/K-55 @ 3781' (J-55 will be used, unless the K-55 is the only casing available.							
	Production String: _4							
	_	will be set at a	minimum of 220', but could be	e 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: 446.5 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 = 1058 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: 242.8 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 = 563cf)

> 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.

San Juan 30-5 Unit #90M (MV/DK)

{	SURFACE CASING:			
	Drill Bit Diameter Casing Outside Diameter	12:25 " 9.625 "	8.913	
3	Casing Weight	36 ppf	0.515	
	Casing Grade			
		H-40		
ÿ	Shoe Depth	220 '		
ž.	Cement Yield	1.41 cuft/sl	(
ļ.	Excess Cement	165 %		
5	Hole / Casing Annulus Capacity	0.0558 bbl/ft	0.3132 cu	ıft/ft
100 CT	Cement Required	138.7 sx		
	220 ', 9.625 ", 36 ppf	, H-40		
\$				
1	INTERMEDIATE CASI	<u>vG</u> :		
	Drill Bit Diameter	8 <i>75</i> *		
į	Casing Outside Diameter	7	6.455	
Q.	Casing Weight	20 onf		
į.	Casing Grade			
}	Shoe Depth	2526		
	Lead Cement Yield	2:37 cult/sk		
	Lead Cement Excess	20000000000000000000000000000000000000		
		120 %		
	Tail Cement Length	211.5		
	Tail Cement Yield	1.4 cult/sk	*	
	Tail Cement Excess	120 %		
	Casing / Casing Annulus Capacity	/ 0.0296 bbl/ft	0.1660 cu	ft/ft
	Hole / Casing Annulus Capacity	0.0268 bbl/ft		
	Casing Capacity	0.0405 bbl/ft		
	• • •			
	Lead Cement Required	446.5 sx		
	Tail Cement Required	50.0 sx		
		30.0 3x		
	3521 ', 7 ", 20 ppf,	J-55		
	PRODUCTION CASING	<u>)</u> :		
	Drill Bit Diameter	20 Page 1		
	Casing Outside Diameter	0,23	4 000	
	Casing Odiside Diameter Casing Weight	- 20	4.000	
		11.6 ppf		
	Casing Grade	∌I-80		
	Top of Cement	3421' 1	00' inside int	ermediate casing
	Shoe Depth	7866 '		
	Cement Yield	2.33 cuft/sk		
	Cement Excess	∴ 50 %		
	Tail Cement Length	248		
	Tail Cement Yield	1.91 cuft/sk		
	Tail Cement Excess	-50 %		
	Casing / Casing Annulus Capacity	0.0208 bbi/ft	0.1168 cut	A/A
	Hole / Casing Annulus Capacity	0.0183 bbl/ft	0.1106 cu	
	Casing Capacity	0.0155 bbl/ft	0.1026 cui	
	- Support	JV100 CC1 0.0	U.U0/2 CUI	IVIL
	Cement Required	292.8 sx		
	Tail Cement Required	20 sx		
	 	±0 3A		

1-80

SHOE

7866 ',

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)

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