Fc m 3160-3 (August 1999) UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

BORDITO OF BILLS WILLIAM					
APPLICATION FOR PERMIT TO DRILL OR REENTER			5. Lease Serial No. NMNM12292		
. Type of Work X DRILL REENTER		6. If Indian, Al	6. If Indian, Allotee or Tribe Name		
1b. Type of Well Oil Well X Gas Well Other	Single Zone X Multiple Zone	NMNM7842	7. Unit or CA Agreement Name and No. NMNM78421A & B		
2. Name of Operator	*	8. Lease Name			
Phillips Petroleum Company	3b. Phone No. (include area cod		Unit #20M		
5525 Highway 64, NBU 3004, Farmington, NM 87401 505-599-3454		J. AFI WEILING	30-039-26992		
4. Location of Well (Report location clearly and in accordance with any State At surface Unit 1 (NWSF) 1980' FSI & 1973' FFI	ate equirements)*	10. Field and Po Basin Dk	ol, or Exploratory & Blanco MV		
OHIT 3, (NASE) 1900 13E & 1970 12E			11. Sec., T., R., M., or Blk. and Survey or Area		
At proposed prod. zone same as above			Section 3, T30N, R6W		
14. Distance in miles and direction from nearest town or post office*	1				
23 miles NE of Bland		Rio Arriba			
15. Distance from proposed* location to nearest property or lease line, ft. 1973'			nit dedicated to this well		
property or lease line, ft. 19/3 (Also to nearest drg. unit line, if any)	640.48 acres	320.32 E/2	320.32 E/2 - both MV & DK		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	0.BLM/BIA Bond No. on file			
applied for, on this lease, ft.	7847 '	ES0048			
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will star		23. Estimated duration		
6261' GL	November 2002	LING OPERATIONS A	20 days		
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	24 A 44a alamanta SUR	JECT TO COMPLIANC NERAL REQUIREMENT	E AALLU MI LVOLIED		
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System Lands, SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover the operation that the 20 above). 5. Operator certification. 6. Such other site specific in authorized officer.	ons unless covered by	s as may be required by the		
25. Signuature Name (Printed/Typed) Patsy Clugston			Date 4/23/02		
Title Sr. Regulatory/Proration Clerk			Date		
Approved by (Signautre) Name (Printed/Typed)			AUG 2 1 2002		
/s/ Charlie Beecham Title	Office		AUG Z L		
ACTING					
Application approval does not warrant or certify that the applicant holds le conduct operations thereon. Conditions of approval, if any, are attached.	gal or equitable title to those rights in	the subject lease whic	h would entitle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a United States any false, fictitious or fraudulent statements or representations	crime for any person knowlingly and as to any matter within its jurisdiction.	willfully to make to a	ny department or agency of the		
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District 1 18) Box 1980, Hobbs, NM 88241-1980

District II

311 South First, Artesia, NM 33210

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-1 Revised October 18, 19 Instructions on ba

Submit to Appropriate District Offi State Lease - 4 Cop-

Fee Lease - 3 Cop.

AMENDED REPOR 2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 Pool Code ³ Pool Name 71599 Basin Dakota 4 Property Code 3 Property Name * Well Number 009259 SAN JUAN 31-6 UNIT 20M 6261 Figration OGRID No. Operator Name PHILLIPS PETROLEUM COMPANY 017654 10 Surface Location Feet from the Lot Idn North/South line UL or lot no. Section Township Range Feet from the East/West line County 19801 SOUTH 19731 **EAST** RIO ARRIBA 30N 6W J 3 11 Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line UL or lot no. Range Feet from the East/West line Section Towaship County 12 Dedicated Acres " Joint or Infill 14 Consolidation Code 15 Order No. U 320.32 E/2Y NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 5280.001 OPERATOR CERTIFICATION West hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature atsy Clugston Printed Name Regulatory/Proration Clerk Title 10-8-01 Date Section 3 18SURVEYOR CERTIFICATION NM012292 640.48 acres I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me 1973' that the some is true and Sout 9/4/01 PROFESSION EZ 367 3 S89°56'E Certificate Number 5272 b8'

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-1 Revised October 18, 19 Instructions on ba Submit to Appropriate District Offi

State Lease - 4 Copi Fee Lease - 3 Copi

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PHILLIPS PETROLEUM COMPANY

WELL	NAME:	San Jua	n 31-6 Unit #20M (M	IV/DK)				
DRILI	LING PROGNO	SIS						
1.	Location of Proj		Unit J, 1980' FSL & 19		-			
		<u>S</u>	Section 3, T30N, R6W		-			
2.	Unprepared Gro	ound Elevation:	<u>@ 6261' (unr</u>	orepared) .				
3.	The geological name of the surface formation is <u>San Jose</u> .							
4.	Type of drilling	tools will be	rotary.					
5.	Proposed drillin	g depth is7	<u>847'</u> .					
6.	The estimated to	ops of importan	nt geologic markers are	as follows:				
	Nacimiento -	1006'	Menefee Fm	5237'	_			
	Ojo Alamo -	2235'	Pt. Lookout -		-			
	Kirtland Sh -		Mancos Sh -		- -			
	Fruitland Fm.	- 2765'	Gallup Ss	6750'	_			
	Pictured Cliffs	- 3134'	Greenhorn Ls.	- 7504'	_			
	Lewis Shale		<u> Graneros Sh</u>		_			
	Cliff House Ss	s - 5199'	Dakota Ss -	7677'	_			
7.		•	ich anticipated water, encountered are as follo	_	other mineral	bearing		
	Water:	Ojo Ala	mo - 2235' - :	2449'	_			
	Gas & Water:	Fruitlan	d - 2765' –	3134'	_			
	Gas:	Pictured	Cliffs - 3134' -	3244'	_			
		Mesave	rde - 5199' -		_			
		<u>Dakota</u>	- 7677' -	7847'	_			
8.	The proposed ca	asing program	is as follows:					
	Surface String:	9-5/8", 32.3#	H-40 @ 320' *					
	Intermediate St		/K-55 @ 3344' (J-5:	5 will be used	, unless the K-	55 is the		
	Production Strip			TD)				
	* The surface of to maintain hole		et at a minimum of 32	0', but could b	e set deeper if	required		

9. Cement Program:

Surface String: 197.6 sx Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx

Cello-flake + 60.6% FW (1.41 yield = 278 cf). Cirulate

Intermediate String: Lead Cement: 414.8 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 = 983 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: 253.2 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 = 587 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 (1.01 sield = 28 as

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 jts &

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 31-6 #20M (MV/DK)

SURFACE CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Shoe Depth

12.25 "
8.913
8.913
14.40
8.913

Cement Yield 1.41 cuft/sk Excess Cement 165 %

Hole / Casing Annulus Capacity 0.0558 bbl/ft 0.3132 cuft/ft

Cement Required 197.6 sx

SHOE 320 ', 9.625 ", 36 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 Yield
Tail Cement Yield
Tail Cement Excess
Tail Cement Yield
Tail Cement Yield
Tail Cement Excess
Tail Cement Yield
Tail Cement Excess
Tail Cement Yield
Tail Cement Excess
Tail Cement Excess

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

0.0296 bbl/ft 0.1660 cuft/ft
0.0268 bbl/ft 0.1503 cuft/ft
0.0405 bbl/ft 0.2272 cuft/ft

Lead Cement Required 414.8 sx Tail Cement Required 50.0 sx

SHOE 3344', 7", 20 ppf, J-55

PRODUCTION CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight

6.25 "
4.000
4.000
4.000

Casing Grade
Top of Cement
Shoe Depth

Shoe Depth
Cement Yield
Cement Excess
Tail Cement Length
Tail Cement Yield
Tail Cement Excess
Tail Cement Yield
Tail Cement Excess
Tail Cement Steel
Tail Cement Steel
Tail Cement Excess
Tail Cement Excess

 Casing / Casing Annulus Capacity
 0.0208 bbl/ft
 0.1168 cuft/ft

 Hole / Casing Annulus Capacity
 0.0183 bbl/ft
 0.1026 cuft/ft

 Casing Capacity
 0.0155 bbl/ft
 0.0872 cuft/ft

Cement Required 303.2 sx Tail Cement Required 20 sx

SHOE 7847', 4.5", 11.6 ppf, I-80

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)

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