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

BUREAU OF LAND MANAGEN	•	es; November 30, 2000	
APPLICATION FOR PERMIT TO DRILL	5. Lease Serial NM - 01134		
a. Type of Work	ER NOV 29 PM 3: 13	6. If Indian, A	llotee or Tribe Name
lb. Type of Well Oil Well Gas Well Other	Single Zone X Multiple Zon		Agreement Name and No.
2. Name of Operator Phillips Petroleum Company	Grant of Ultrame	SJ 29-5	and Well No. Unit #59M
Ba. Address <u>5525 Highway 64, NBU 3004, Farmington, NM</u> 87401		1 9. API WEILIN	039-26581
1. Location of Well (Report location clearly and in accordance with any S At surface Unit I, 1898' FSL & 934' FEL	State equirements)*		Pool, or Exploratory and Blanco MV
At proposed prod. zone Same as above		a., M., or Bik. and Survey or 31, T29N, R5W	
14. Distance in miles and direction from nearest town or post office* 24 miles from Blan	co, NM	12. County or Rio Arriba	
15. Distance from proposed* location to nearest property or lease line, ft. 934'	16. No. of Acres in lease	17. Spacing Unit ded	licated to this well 2 - DK & MV
(Also to nearest drg. unit line, if any) 18. Distance from proposed location*	19. Proposed Depth	20. BLM/BIA Bond	
to nearest well, drilling, completed, applied for, on this lease, ft.	7874' — ES0048		ES0048
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will s 1 st Qtr 2001	start* 23. Estim	ated duration 20 days
	24. Attachments		20 days
The following, completed in accordance with the requirements of Onshore	Oil and Gas Order No. 1, shall be atta	ched to this form:	
 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 operat Item 20 above). 5. Operator certification. 6. Such other site specific i authorized officer.		
25. Signuature	Name (Printed/Typed)		Date
Title Sn. Regulatory/Propation Clark	Patsy Clugston		11/29/00
Sr. Regulatory/Proration Clerk Approved by (Signautre) /e/ Jim Lovato	Name (Printed/Typed)		Date JAN 2 6 2001
Title	Office		
Application approval does not warrant or certify that the applicant holds le	egal or equitable title to those rights in	the subject lease whic	h would entitle the applicant

*(Instructions on Reverse)

This worker is subject to technical and procedural neview encount to 45 CFR 3185.3 and appear pursuant to 43 CFR 5185.4.

TITEL THE ACTION OF AUTHORIZED ARE TO DONE TO DUT THE SERVICE WHEN ATTACHED TO ALLOW A SERVICE MENTS!

District I 14) Box 1980, Hobba, NM 88241-1980 District II **KII South First, Artesia, NM 88210** District III 1000 Rio Brazon Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources De

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

MOFESSIONAL

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

200 NOV 29 PM 3 13

District IV AMENDED REPORT 2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAN 1 Pool Cede 71599 Basin Dakota * Well Number ⁴ Property Name ⁴ Property Code 59M SAN JUAN 29-5 UNIT 009256 'Elevation_ 6484 Operator Name 'OGRID No. PHILLIPS PETROLEUM COMPANY 017654 Surface Location North/South line Feet from the East/West line County Feet from the Township Range Let Ida Ul, or lot no. Section RIO ARRIBA 1898 SOUTH 934 EAST 29N Bottom Hole Location If Different From Surface North/South line Feet from the East/West line County Feet from the Range Let Ida Township Section UL or lot no. H Consolidation Code 15 Order No. 13 Joint or Infill 12 Dedicated Acres 320 E/2 Y U 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 S89°44'E 5290.56 16 hereby certify that the information contained herein is and complete to the best of my knowledge and belief SF-078282 41 Patsy Clugston Printed Name FEE 5280.00 Sr. Regulatory/Proration Cler 11/29/00 18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat NM-011348 was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and 160.0 acres correct to the best of my belief. 08/29/2000 Date of Survey 868 4/A SF-078410-A 5280,001 S89°52'E

District 1

District II

District III

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Fee Lease - 3 Copies

MENDED REPORT

District IV 2040 South Pacheco, Santa Fe, NM 87505

1800 Ria Bruzon Rd., Aztec, NM 87416

14) Box 1960, Hobbs, NM 88241-1980

#11 South First, Artesia, NM ##219

20° NOV 27 PM 3 13 WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Numb	er	¹ Pool Code	³ Pool Name	
30-039-26	$c \rightarrow I$	72319	Blanco Mesaverde	
* Property Code 009256		SAN JU	1 Property Name AN 29-5 UNIT	* Well Number 59M
'OGRID No. 017654			Operator Name PETROLEUM COMPANY	' Elevation 6484 '

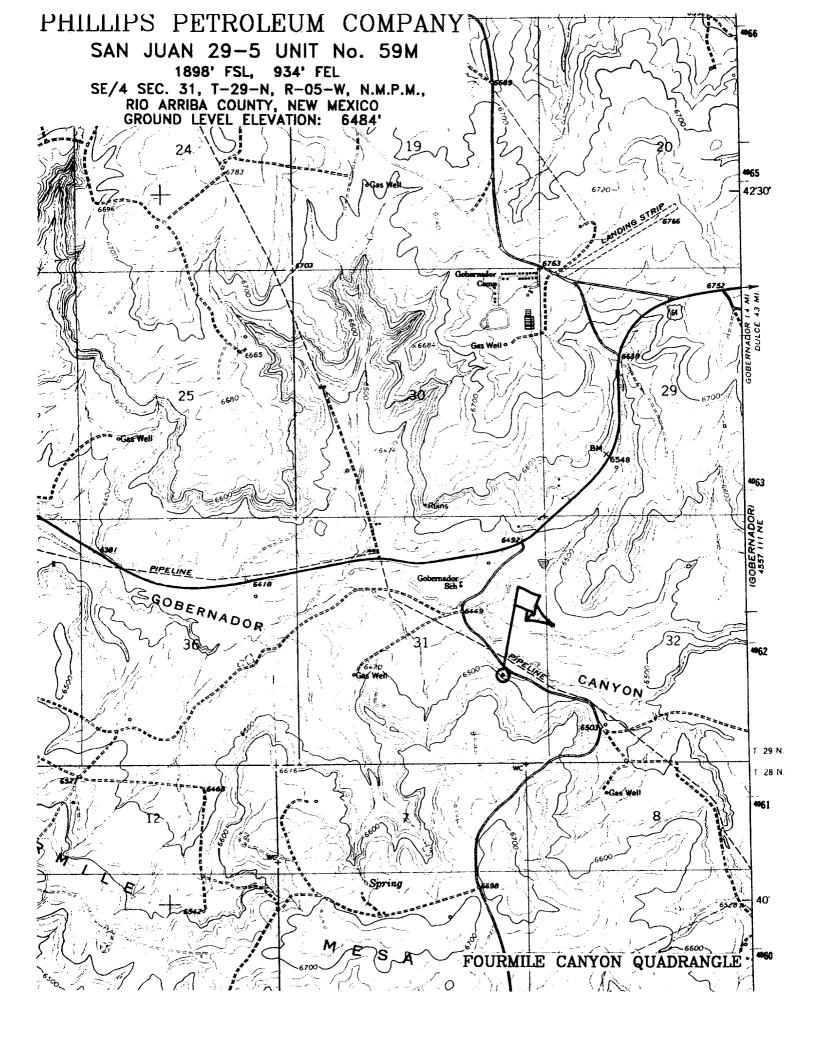
10 Surface Location North/South line Feet from the East/West line County Township Feet from the Range Lot Ida Section UL or lot so. RIO ARRIBA 934 **EAST** SOUTH 1898' 29N 11 Bottom Hole Location If Different From Surface Feet from the East/West line County North/South line Feet from the Range Lot Ida Towaship UL or lot so. Section 15 Order No. ¹⁴ Consolidation Code 13 Joint or Infill 12 Dedicated Acres U 320 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 **OPERATOR CERTIFICATION** 5290.561 16 S89°44'E hereby certify that the information contained herein is true and complete to the best of my knowledge and belief SF-078282 Patsy Clugston Printed Name Sr. Regulatory/Proration Cler 5280.00 FEE Title 11/29/00 Date Section 18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat NM-011348 was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and 160 Acre 9341 North correct to the best of my belief. 08/29/2000 Date of Survey JA∖ CH . SF-078410-

5280.001

S89°52'E

MOFESSIONAL



PHILLIPS PETROLEUM COMPANY

WE	LL NAME: <u>San Juan 29-5 I</u>	Jnit #59M MV/DK				
DRI	LLING PROGNOSIS					
1.		Unit I, 1898' FSL & 934' FEL				
	1	Section 31, T29N, R5W				
2.	Unprepared Ground Elevatio	n: <u>@ 6484' (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 depth is	<u>7874'</u> .				
6.	The estimated tops of import	ant geologic markers are as follows:				
	Naciamento - 1476'	Menefee Fm 5281'				
	Ojo Alamo - 2578'	Pt. Lookout - 5566'				
	Kirtland Sh - 2776'	Mancos Sh - 5761'				
	Fruitland Fm 3096'	Gallup Ss 6526'				
	Pictured Cliffs - 3378'	Greenhorn Ls 7549'				
	Lewis Shale - 3571'	Graneros Sh 7596'				
	Cliff House Ss - 5198'	Dakota Ss - 7724'				
7.	formations are expected to be					
		lamo - 2578' - 2776'				
		and - 3096' - 3378'				
		verde - 5198' - 5761'				
	Dakot	a - 7724' - 7874' —				
8.	The proposed casing program	n is as follows:				
	Surface String: 9-5/8", 32.3	3#, H-40 @ 320'				
	Intermediate String: 7", 20#,	J/K-55 @ 3696'				
	Production String: 4-1/2", 1	1.6#, I-80 or N-80 @ 7874' (TD)				
9.	Cement Program:					
· •	_	sx Type III cement with 2% bwoc CaCl2 + 1/4#/sx Cello-				
		mixed at 14.5 ppg with a 1.41 ft3/sx yield w/46.5% H2O or				
		ent to circulate to surface = 223 cf				

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

Intermediate String: Lead Cement: 443.5 sx Type III cement (35:65) POZ with 5#/sx

Gilsonite, 1/4 / 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 - 1051 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 1st 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: 328.3 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 -699 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 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 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.

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