

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMSF078997
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator PHILLIPS PETROLEUM COMPANY Contact: PATSY CLUGSTON E-Mail: pclugs@ppco.com 21787		7. If Unit or CA Agreement, Name and No. 31327
3a. Address 5525 HWY. 64 FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 505.599.3454 Fx: 505-599-3442	8. Lease Name and Well No. SAN JUAN 30-5 UNIT 50M
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 660FSL 660FEL 36.83611 N Lat, 107.39140 W Lon At proposed prod. zone		9. API Well No. 30039 27085
14. Distance in miles and direction from nearest town or post office* 26 MILES E/NE OF BLANCO, NM		10. Field and Pool, or Exploratory BASIN DK & BLANCO MV
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660	16. No. of Acres in Lease 2560.00	11. Sec., T., R., M., or Blk. and Survey or Area p Sec 6 T30N R5W Mer NMP
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7863 MB 7863 TVD	12. County or Parish RIO ARRIBA
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6371 GL	22. Approximate date work will start 01/01/2003	13. State NM
23. Estimated duration 20 DAYS		17. Spacing Unit dedicated to this well 31934 E/PMV 320 5/2 OK
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGSTON	Date 10/22/2002
Title AUTHORIZED REPRESENTATIVE		
Approved by (Signature) David J. Mankiewicz	Name (Printed/Typed)	Date JAN 17 2003
Title Office		

Application approval does not warrant or certify 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 person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #15377 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".

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

NMOC

District I
190 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

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

AP Number 30-039-27085		Pool Code 72319	Pool Name Blanco Mesaverde
Property Code 009258	Property Name SAN JUAN 30-5 UNIT		Well Number 50M
OGRID No. 017654	Operator Name PHILLIPS PETROLEUM COMPANY		Elevation 6371'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	30N	5W		660'	SOUTH	660'	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P									

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
319.34 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

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District I
P.O. 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

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

1 APN Number 30-039-27085		2 Pool Code 71599	3 Pool Name Basin Dakota
4 Property Code 009258	5 Property Name 31327 SAN JUAN 30-5 UNIT		6 Well Number 50M
7 OGRID No. 017654	8 Operator Name 217817 PHILLIPS PETROLEUM COMPANY		9 Elevation 6371'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	30N	5W		660'	SOUTH	660'	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P									

12 Dedicated Acres 320	13 Joint or Infill Y	14 Consolidation Code U	15 Order No.
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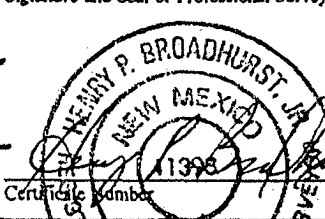
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	N89°57'W	5280.00'	
11	10	9	8
5280.00'			5265.48'
Section 6			
SF-080066			
North			N00°06'E
		SF-078997 2560.0 acres	660'
	N89°49'E	5289.24'	660'

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Patsy Clugston
Signature
Patsy Clugston
Printed Name
Sr. Regulatory/Proration Clerk
Title
April 3, 2001
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 belief.

03/07/01
Date of Survey
Signature and Seal of Professional Surveyer:


PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 30-5 Unit #50M (MV/DK)

DRILLING PROGNOSIS

1. Location of Proposed Well: Unit P, 660' FSL & 660' FEL
Section 6, T30N, R5W

Unprepared Ground Elevation: @ 6371' (unprepared)

3. The geological name of the surface formation is San Jose.
4. Type of drilling tools will be rotary
5. Proposed drilling depth is 7863'
6. The estimated tops of important geologic markers are as follows:

<u>Nacimiento - 1243'</u>	<u>Menefee Fm. - 5333'</u>
<u>Ojo Alamo -</u>	
<u>Kirtland Sh - 2673'</u>	<u>Mancos Sh - 6373'</u>
<u>Fruitland Fm. - 2943'</u>	<u>Gallup Ss. - 6823'</u>
<u>Pictured Cliffs - 3153'</u>	<u>Greenhorn Ls. - 7553'</u>
<u>Lewis Shale - 3403'</u>	<u>Graneros Sh. - 7668'</u>
<u>Cliff House Ss - 5273'</u>	<u>Dakota Ss - 7723'</u>

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Water:	<u>Ojo Alamo - 2573' - 2673'</u>
Gas & Water:	<u>Fruitland - 2943' - 3153'</u>
Gas:	<u>Pictured Cliffs - 3153' - 3403'</u>
	<u>Mesaverde - 5273' - 6373'</u>
	<u>Dakota - 7723' - 7863'</u>

8. The proposed casing program is as follows:

Surface String: 9-5/8", 32.3# H-40 @ 220' *

Intermediate String: 7", 20#, J/K-55 @ 3503' (J-55 will be used, unless the K-55 is the only casing available.)

Production String: 4-1/2", 11.6#, I-80 @ 7863' (TD)

* The surface casing will be set at a minimum of 220', but could be set deeper if required to maintain hole stability.

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: 444 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 = 1052 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: 243.8 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 = 566cf)

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 jts & 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 jts up.

San Juan 30-5 Unit #50M (MV/DK)

SURFACE CASING :

Drill Bit Diameter 12.25 "
Casing Outside Diameter 9.625 "
Casing Weight 36 ppf
Casing Grade H-40
Shoe Depth 220 '
Cement Yield 1.41 cuft/sk
Excess Cement 165 %

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

Cement Required 138.7 sx

SHOE 220 ', 9.625 ", 36 ppf, H-40

INTERMEDIATE CASING :

Drill Bit Diameter 8.75 "
Casing Outside Diameter 7 "
Casing Weight 20 ppf
Casing Grade J-55
Shoe Depth 3503 '
Lead Cement Yield 2.37 cuft/s
Lead Cement Excess 120 %
Tail Cement Length 211.5 '
Tail Cement Yield 1.4 cuft/sk
Tail Cement Excess 120 %

Casing / Casing Annulus Capacity 0.0296 bbl/ft 0.1660 cuft/ft

Hole / Casing Annulus Capacity 0.0268 bbl/ft 0.1503 cuft/ft

Casing Capacity 0.0405 bbl/ft 0.2272 cuft/ft

Lead Cement Required 444.0 sx

Tail Cement Required 50.0 sx

SHOE 3503 7 ", 20 ppf, J-55

PRODUCTION CASING :

Drill Bit Diameter 6.25 "
Casing Outside Diameter 4.5 "
Casing Weight 11.6 ppf
Casing Grade I-80
Top of Cement 3403 ' 100' inside intermediate casing
Shoe Depth 7863 '
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 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 293.8 sx

Tail Cement Required 20 sx

SHOE 7863 ', 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)

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.