


# APPLICATION FOR PERMIT TO DRILL OR REENTER


1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		6. If Indian, Allottee or Tribe Name	
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		7. Unit or CA Agreement Name and No. NMNM78419A, B & E	
2. Name of Operator Phillips Petroleum Company		8. Lease Name and Well No. San Juan 30-5 Unit #87M	
3a. Address 5525 Highway 64, NBU 3004, Farmington, NM 87401		9. API Well No. 30-039-26804	
3b. Phone No. (include area code) 505-599-3454		10. Field and Pool, or Exploratory Basin DK and Blanco MV	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface Unit I, 1975' FSL & 775' FEL  At proposed prod. zone same as above		11. Sec., T., R., M., or Blk. and Survey or Area Section 5, T30N, R5W	
14. Distance in miles and direction from nearest town or post office* 26 miles northeast of Blanco, NM		12. County or Parish Rio Arriba, NM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 775'		13. State NM	
16. No. of Acres in lease 158.12 acres		17. Spacing Unit dedicated to this well E/2 MV - 319.79 S/2-DK - 5.12 ac	
18. Distance from proposed location* to nearest well, drilling completed, applied for, on this lease, ft.		19. Proposed Depth 7965'	
20. BLM/BIA Bond No. on file ES0048		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6419' GL	
22. Approximate date work will start* 4th Qtr 2001		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:

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	Name(Printed/Typed)	Date
	Patsy Clugston	8/20/01
Title		
Sr. Regulatory/Proration Clerk		

Approved by (Signature) 	Name (Printed/Typed) David J. Mantkiewicz	Date 10/16/01
Title AFM minerals	Office FFO	

Application approval does not warrant or certify that 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.

\*(Instructions on Reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

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

**NMOCB**

District I  
P.O. Box 1980, Hobbs, NM 88241-1980  
District II  
#11 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

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

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-039-26804		2. Pool Code 71599		3. Pool Name Basin Dakota		
4. Property Code 009258		5. Property Name SAN JUAN 30-5 UNIT			6. Well Number 87M	
7. OGRID No. 017654		8. Operator Name PHILLIPS PETROLEUM COMPANY			9. Elevation 6419'	

10. Surface Location

UI, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	5	30N	5W		1975'	SOUTH	775'	EAST	RIO ARRIBA

11. Bottom Hole Location If Different From Surface

UI, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I									

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
320 S/2	U	I	

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'	
8		7		6	
5265.48'		Section 5		5278.02'	
S00°06'E		SF-080066 1158.12 acres		S00°10'E	
		N89°58'E		527.34'	

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  
4-3-01  
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 belief.

03/14/01  
Date of Survey  
Signature and Seal of Professional Surveyer:  
*Henry P. Broadhurst*  
Certificate Number  
PROFESSIONAL SURVEYOR

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
R11 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

APL Number <b>30-039-26 804</b>		Pool Code <b>72319</b>	Pool Name <b>Blanco Mesaverde</b>
Property Code <b>009258</b>	Property Name <b>SAN JUAN 30-5 UNIT</b>		Well Number <b>87M</b>
OGRID No. <b>017654</b>	Operator Name <b>PHILLIPS PETROLEUM COMPANY</b>		Elevation <b>6419'</b>

10 Surface Location

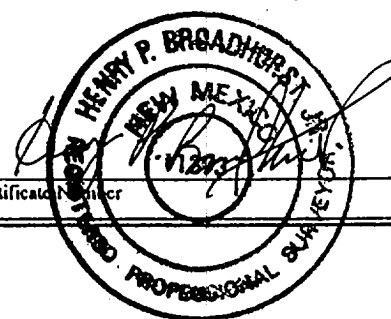
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>I</b>	<b>5</b>	<b>30N</b>	<b>5W</b>		<b>1975'</b>	<b>SOUTH</b>	<b>775'</b>	<b>EAST</b>	<b>RIO ARriba</b>

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
<b>I</b>									

Dedicated Acres <b>319.69 E/2</b>	Joint or Infill <b>Y</b>	Consolidation Code <b>U</b>	Order No.
--------------------------------------	-----------------------------	--------------------------------	-----------

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  8  5265.48'  S00°06'E	N89°57'W	5280.00'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  <i>Patsy Clugston</i> Signature <b>Patsy Clugston</b> Printed Name <b>Sr. Regulatory/Proration Clerk</b> Title <b>4-3-2001</b> Date	
	7	6		5
	Section 5			2
	SF-080066 1158.12 acres			5
N89°58'E		5279.34'	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.  <b>03/14/01</b> Date of Survey Signature and Seal of Professional Surveyor:   Certification Number	

# PHILLIPS PETROLEUM COMPANY

SAN JUAN 30-5 UNIT No.

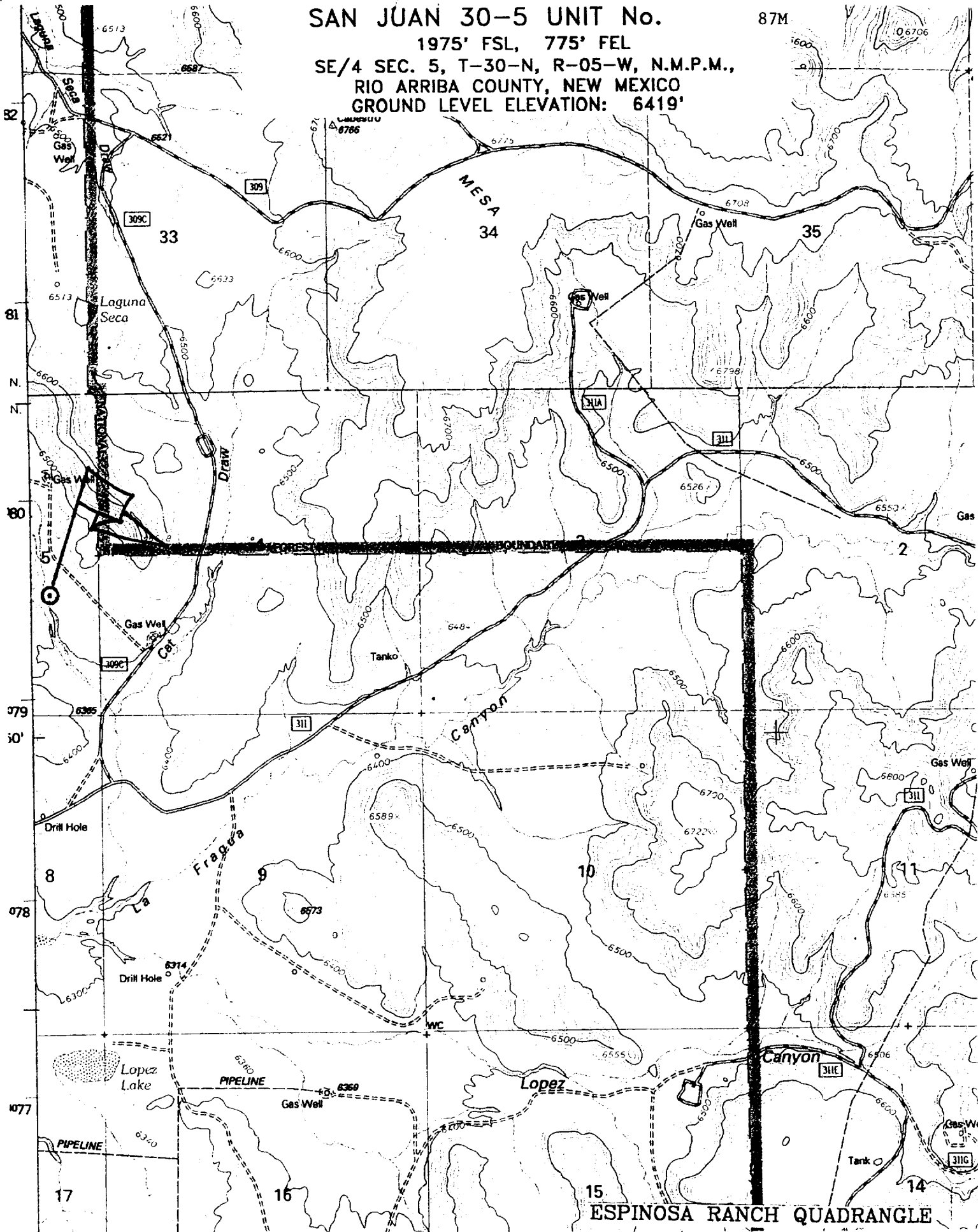
87M

1975' FSL, 775' FEL

SE/4 SEC. 5, T-30-N, R-05-W, N.M.P.M.,

RIO ARRIBA COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6419'



ESPINOSA RANCH QUADRANGLE

## PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 30-5 Unit #87M MV/DK

### DRILLING PROGNOSIS

1. Location of Proposed Well: Unit I, 1975' FSL & 775' FEL  
Section 5, T30N, R5W

2. Unprepared Ground Elevation: @ 6419' (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 7965'.

6. The estimated tops of important geologic markers are as follows:

<u>Nacimiento - 1498'</u>	
<u>Ojo Alamo - 2489'</u>	<u>Menefee - 5392'</u>
<u>Kirtland Sh - 2654'</u>	<u>Pt. Lookout - 5614'</u>
<u>Fruitland Fm. 3078'</u>	<u>Mancos Sh - 5945'</u>
<u>Pictured Cliffs - 3242'</u>	<u>Gallup Ss - 6653'</u>
<u>Lewis Shale - 3529'</u>	<u>Graneros Sh - <del>7643</del> 7686</u>
<u>Cliffhouse - 5339'</u>	<u>Dakota Ss - 7686' 7815' } CEH</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 - 2489' - 2645'</u>
Gas & Water:	<u>Fruitland - 3078' - 3242'</u>
Gas:	<u>Mesaverde - 5339' - 5945'</u>
	<u>Dakota - 7815' - 7938'</u>

8. The proposed casing program is as follows:

Surface String: 9-5/8", 32.3# H-40 @ 320' \*

Intermediate String: 7", 20#, J/K-55 @ 3674' (J-55 will be used, unless the K-55 is the only casing available.

Production String: 4-1/2", 11.6#, I-80 @ 7965' (TD)

\* 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 = 278 cf). *Circulate*

Intermediate String: **Lead Cement:** 461.9 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 = 1095 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).

**2<sup>nd</sup> Lead Cement:** 227.1 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 = 529 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 2<sup>nd</sup>, 4<sup>th</sup> & 6<sup>th</sup> joint

Intermediate: Total seven (7) – 10' above shoe, top of 1<sup>st</sup>, 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, & 8<sup>th</sup> jts & 1 jt. above surface casing.

Production: None planned.

Turbulators: Total Three (3) – on intermediate casing at 1<sup>st</sup> jt. below the Ojo Alamo and next 2 jts up.

## **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.*