CAUGUST 1999   DEPARTMENT OF THE INTERIOR   DEPARTMENT OF THE INTERIOR   DEPARTMENT OF THE INTERIOR   OMB NO. 1004-0136   Expires: November30, 2000	Form 3160-3					
BUREAU OF LAND MANAGEMENT  APPLICATION FOR PERMIT TO DRILL OR REENTER  5. Less-Scrial No. MNST600066  10. Type of Work	(August 1000)	FORM APPROVED				
Type of Work   DRILL   REPRITER   Colling		OMB NO. 1004-0136				
Indian, Alloteor Tribe Name   Continue   C		ORILL OR REENTER	5. Lease Serial No. NMSF080066			
2. Named Operator Phillips Petroleum Company 3a. Address 3b. PhoneNo. (include area code) 5525 Highway 64, NBU 3004, Farmington, NH 87401 505-599: 3454 4. Locationol well/Report location clearly and in accordance with any State equirements) 4. Distancer unless and direction from nearest towns or postoffice* 26 miles northeast of Blance Lim Received 4. Distancer unless and direction from nearest towns or postoffice* 26 miles northeast of Blance Lim Received 4. Distancer unless and direction from nearest towns or postoffice* 26 miles northeast of Blance Lim Received 4. Distancer unless and direction from nearest towns or postoffice* 26 miles northeast of Blance Lim Received 4. Distancer unless and direction from nearest towns or postoffice* 26 miles northeast of Blance Lim Received 4. Distancer unless and direction from nearest towns or postoffice* 26 miles northeast of Blance Lim Received 4. Distancer unless and the state of this well, Lisea, T. R. M., or Blk and Surveyor 4. Distancer unless and the state of this well, Lisea, T. R. M., or Blk and Surveyor 4. Distancer unless and the state of this well, Lisea, T. R. M., or Blk and Surveyor 4. Distancer unless and the state of this well, Lisea Line Line Line Line Line Line Line Line	The Transitivity of the Residence of the	EENTER 19 6 14	6. If Indian, Alloteeor Tribe Name			
Phillips Petroleum Company 3b. PhoneNo. (include area code) 5525 Highway 64, NBU 3004, Farmington, NM 87401 5526 Highway 64, N	Gas Well L Other	Single Zone X Multiple Zo	ne 7. Unitor CA AgreementNameand No. NMNM78419A, B & E			
4. Location Well Report location clearly and in accordance with any State equirements?  4. Location Well Report location clearly and in accordance with any State equirements?  4. Location Well Report location clearly and in accordance with any State equirements?  4. Location Well Report location clearly and in accordance with any State equirements?  4. Distance In til. 1, 1975; FSL & 775; FEL  At proposed prod. zone  4. Distance In miles and direction from nearest town or post office.  26 miles northeast of Blance Well Report Received 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Phillips Petroleum Company	•	8. Lease Name and Well No.			
At surface Unit I, 1975 FSL 8 775 FEL  At proposed prod. zone  At proposed prod. zone  Same as above  14. Distancerom proposed of miles northeast of Blance Will Heavy Proposed prod. zone  15. Distancerom proposed focation nearest property relaseline, ft.  16. Neg Acres in 183, 12 acres 1972 J. County or Parish 13. State property or leaseline, ft.  1775 Also to nearest property or leaseline, ft.  183, 12 acres 1972 J. County or Parish 19. State property or leaseline, ft.  183, 12 acres 1972 J. County or Parish 19. State property or leaseline, ft.  183, 12 acres 1972 J. County or Parish 19. State property or leaseline, ft.  183, 12 acres 1972 J. County or Parish 19. State property or leaseline, ft.  183, 12 acres 1972 J. County or Parish 19. Proposed property or leaseline, ft.  19. Proposed proph 20. BLM/BIA Bond No. on file property or leaseline, ft.  19. Proposed proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. State property or leaseline, ft.  19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proposed Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19. Proph 20. BLM/BIA Bond No. on file 1992 J. County or Parish 19.	5525 Highway 64, NBU 3004, Farmington, NM 8	7401 505-599-3454	9. API Well No			
At proposed prod. zone  Same as above  OCT 2001  I. Section 5. T30N, R5W  Section 5. T30N, R5W  RECEVED  I. 2. Countyor Parish  I. 3. State  Rio Arriba,  NM  RECEVED  I. 2. Countyor Parish  Rio Arriba,  NM  Rio Arriba,  Rio Arriba,  NM  Rio Arr	<ol> <li>Location of Well (Report location clearly and in accordance with At surface Unit I, 1975' FSL &amp; 775' FFI</li> </ol>	any State equirements)*				
44. Distancein miles and direction from nearest town or post office   26 miles northeast of Blance Will RECEIVED Rio Arrish 13. State   26 miles northeast of Blance Will RECEIVED Rio Arrish 13. State   16. Near Acres in 16. Near	A4	- anot	11. Sec., T., R., M., or Blk. and Surveyor			
15. Distancefrom proposed location to nearest property of lease line, ft.  (Also to nearestize, untiline, if any)  8. Distancefrom proposedocation* to nearestwell, drilling, completed, appliedor, on this lease, ft.  19. ProposedDepth**  19. ProposedDepth**  10. BLM/BIA Bond No. on file  19. ProposedDepth**  20. BLM/BIA Bond No. on file  19. Elevations(Show whetherDF, KDB, RT, GL, etc.  6419' Gl.  22. Approximatedatework willstart*  23. Estimatedduration  20 days  24. Attachments  15. Spacing Unitided to this well.  20. BLM/BIA Bond No. on file  21. Elevations(Show whetherDF, KDB, RT, GL, etc.  6419' Gl.  22. Approximatedatework willstart*  23. Estimatedduration  24. Attachments  25. Elevations of the following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:  Well plateertified by a registered surveyor.  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).  26. Such other site specific information and / oplans as may be required by the authorized officer.  27. Name(Printed/Typed)  Patsy Clugston  28. Patsy Clugston  29. Date  Patsy Clugston  20. BLM/BIA Bond No. on file  20. BLM/BIA Bond No. on file  20. BLM/BIA Bond No. on file  21. Setimated furation  22. Approximated attentive will start to expend the set of this well.  29. Complete the operation surveyor are visiting bond on file (see litem 20 above).  30. Such other site specification.  31. Such other starts are started to this form:  22. Approximated attentive the operation surveyor are visiting bond on file (see litem 20 above).  31. Set imated duration  20. BLM/BIA Bond No. on file  21. Bland to cover the operation surveyor are visiting bond on file (see litem 20 above).  32. Attachments  42. Bond to cover the operation surveyor.  43. Bond to cover the operation surveyor.  44. Bond to cover the operation surveyor.  45. Signature  46. Bond to cover the operation surveyor.  47. Surface Vo	14. Distancein miles and direction from nearest town or post of fice*	acceived	12. Countyor Parish 13 State			
location to nearest property or lease line, ft. (Also to nearesting, unit line, if any)  8. Distance from proposed ocation to nearest well, drilling completed, applied or, on this lease, ft.  19. Proposed Depth 20. BLM/BIA Bond No. on file ES0048  1. Elevations (Show whether DF, KDB, RT, GL, etc. 6419 GL 22. Approximate datework will start 4th Qtr 2001 23. Estimate diuration 20 days  24. Attachments  19. Proposed Depth 20. BLM/BIA Bond No. on file ES0048  20. BLM/BIA Bond No. on file ES0048  21. Elevations (Show whether DF, KDB, RT, GL, etc. 6419 GL 4th Qtr 2001 20. BLM/BIA Bond No. on file ES0048  22. Approximate datework will start 20. BLM/BIA Bond No. on file 20. BLM/BIA		OF COM PAR	Rio Arriba, NM			
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	nstructions on Panaged					

This action is subject to technical and procedural review pursuant to 43 CFR \$165.8 and opposit pursuant to 43 CFR \$165.4

CONTINUE OPERATIONS AUTHORIZED ARE GUIDELT TO COMPHANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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

-State of New Mexico
Energy Minerals & Austural 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

# 2040 South Pacheco Santa Fe, NM 87505

OIL CONSERVATION DIVISION #11 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV	MI., 742.00,	11114 11/1			Santa I C,	1111 07505			_	_	•
2040 South Pache	co, Santa l	Fe, NM 87505						•	L	MA ا	IENDED REPOR
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017654		<u> </u>		PHI		Location	1			04	19
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	<del></del>	1 1			ole Location	If Different Fr		ect from the	East/Wes	Lline	County
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្ត ម	J	,		1	158.12 acr	es <u>775'</u>	9	or under my si	upervision, ai	भ्ये प्रथा प्रा	l surveys made by me Le same is (rue and
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				*					TOPE	S. C.	

District I

PO Box 1980, Hobbs, NAI 88241-1980

District II

811 South First, Artesia, NM 88210

District III

S00°06'E

1000 Rio Brazos Rd., Aztec, NM 87410

## State of New Mexico Ene gr. Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-107 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copie:

was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and

ANOPERSIONAL

03/14/01

Signature and Scal of Professional Surveyor:

correct to the best of my belief.

Date of Survey

Fee Lease - 3 Copie:

District IV 2040 South Pache	co, Santa F	e, NM 8750	<b>)</b> 5					[		ENDED REPOR	
		V	VELL LO	CATIO	ON AND AC	REAGE DED	ICATION	PLAT			
30-03	317 Number 7		/	1 Pool C		Blanco Mesa	. 1 P	ool Name			
1 Property 009258					' Proper SAN JUAN 3				87M	* Well Number	
'ogrid 017654	No.			PHI		OLEUM COMPAN	<u> </u>		'Elevation 6419'		
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8		N89°	°57 <b>'</b> ₩	<b>5</b> 2	280.00'	5	hereby	certify that the in	formation	TIFICATION contained herein is knowledge and belief	
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<u></u>			Bect		080066		- 11			TIFICATION	

1158.12 acres

5279,34

N89°58'E

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 6419' 32 A 6766 309C 34 35 33 6633 Lagunc 81 Seco N. N. 6526 180 979 [31] iО' 6589× Driff Hole 8 078 Canyon EN PELINE W Lopez Lopez Lake ю77 PIPELINE 15 17 ESPINOSA RANCH QUADRANGLE

#### PHILLIPS PETROLEUM COMPANY

WELL	NAME:	San Juan 30-	-5 Unit #87M MV/DK						
DRILL	ING PROGNOSIS								
1.	Location of Proposed		I, 1975' FSL & 775' FEL on 5, T30N, R5W						
2.	Unprepared Ground	Elevation:	@ 6419' (unprepared).						
3.	The geological name of the surface formation is <u>San Jose</u> .								
4.	Type of drilling tools	s will be <u>rotar</u>	у.						
5.	Proposed drilling dep	oth is <u>7965'</u> .							
6.	The estimated tops o	f important geo	ologic markers are as follows:						
	Naciamento - 1493 Ojo Alamo - 248 Kirtland Sh - 265 Fruitland Fm. 307 Pictured Cliffs -324 Lewis Shale - 3529 Cliffhouse - 5339	9' 4' 8' 42'	Menefee - 5392'  Pt. Lookout - 5614'  Mancos Sh - 5945'  Gallup Ss - 6653'  Graneros Sh - 7643' 7686  Dakota Ss - 7686' 7815  CEN						
	-		nticipated water, oil, gas or other mineral bearing intered are as follows:						
	Water: Gas & Water: Gas:		2489' - 2645' 3078' - 3242' 5339' - 5945' 7815' - 7938'						
8.	The proposed casing	program is as f	follows:						
			5 @ 3674' (J-55 will be used, unless the K-55 is the						
	Production String: _								

\* 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). Circ vlake

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 1st, 2nd, 4th, 6th, & 8th its &

1 it. above surface casing.

Production:

None planned.

Turbulators:

Total Three (3) – on intermediate casing at 1<sup>st</sup> it. below the Ojo

Alamo and next 2 its 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.

drilling\BOPck.lst