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671	3/02		ENGINEER	WJ	LOGGED N	KV	TYPE DHC	_ APP NO. 216451484
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		122		Engineeri t. Francis D	•		37505	
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		[D] Other	: Specify_					
[2]	NOTI						oly, or □ Does N terest Owners	lot Apply
		[B] 🗌 C	Offset Ope	rators, Leas	eholders o	or Surface (Dwner	
		[C] [A	Applicatior	n is One Wh	nich Requ	ires Publish	ed Legal Notice	2
		[D]]	Notification .S. Bureau of La	n and/or Co	ncurrent A	Approval by er of Public Lands	y BLM or SLO , State Land Office	
		[E] 🗍 H	For all of th	ne above, Pr	roof of No	otification o	r Publication is	Attached, and/or,
		[F]	Waivers are	e Attached				
[3]	SUBM	IT ACCURA	ΓE AND (COMPLET	'E INFOI	RMATION	REQUIRED	TO PROCESS THE TYPE

(4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative

approval is accurate and complete to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Brad Peterson	_ Brad beterrow	Reservoir Engineer	6/12/02
Print or Type Name	Signature	Title	Date
		btpeter@ppco.com	

e-mail Address

District I 1625 N. French Drive, Hobbs, NM 88240

District II

811 South First Street, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE <u>X</u> Single Well Establish Pre-Approved Pools EXISTING WELLBORE <u>X</u> Yes <u>No</u>

PHILLIPS PETROLEUM COMPANY Operator

5525 Hwy. 64, Farmington, NM 87401 Address

San Juan 29-5 Unit	#25	Unit G, Section 18, T29N, R5W	Rio Arriba
Lease	Well No.	Unit Letter-Section-Township-Range	County

OGRID No. <u>17654 Property Code</u> 0009256 API No. <u>30-039-07625</u> Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Basin Fruitland Coal		Blanco Mesaverde
Pool Code	71629		72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Est. Apprx.3240' – 3370'		4192' – 5798'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	1200 psi (est.)		500 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	950 BTU		1150 BTU
Producing, Shut-In or New Zone	New Zone		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production	Date: New Zone	Date:	Date: 5/23/02
estimates and supporting data.)	Rates:	Rates:	Rates: 70 mcfd & 1 bwpd, 1 bopd
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	** / **	% %	** / **

NOTE: We will be utilizing the subtraction method on this well until we can establish a good fixed allocation percentage. See attached letter of explanation within application.

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes Yes_X	No <u>X</u> No
Are all produced fluids from all commingled zones compatible with each other?	Yes_X	No
Will commingling decrease the value of production?	Yes	No <u>X</u>
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes <u>X</u>	_No
NMOCD Reference Case No. applicable to this well:		

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication. Production curve for each zone for at least one year. (If not available, attach explanation.)

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

	1 12	1	9	Ç		
SIGNATURE	flesson		Reservoir Engineer	DATE	June 11, 2002	
TYPE OR PRINT NAME	Brad Peterson	TELEPI	HONE NO. <u>(505)</u> 599-	3486	e-mail- btpeter@ppco.com	



June 12, 2002

New Mexico Oil & Gas Conservation Div. 1220 South St. Francis Drive Sante Fe, New Mexico 87504

> Application for Downhole Commingling On the San Juan 29-5 # 25

Dear Sirs,

Phillips Petroleum is proposing to commingle the Fruitland Coal and Mesaverde formations on the San Juan 29-5 # 25 (Reference Case No. R-10770). Currently the Mesaverde is producing independently 70 MCFD. Pending commingle approval, the Fruitland Coal will be completed. The Fruitland Coal will be tested for 4-6 months before commingling it with the Mesaverde.

A production forecast has been determined from stabilized Mesaverde production. After the zones are commingled, Phillips Petroleum is proposing to utilize the subtraction method for 24 months or until Fruitland Coal production stabilizes before a ratio between the Fruitland Coal and Mesaverde is established.

Future Fruitland Coal water and gas production were estimated by examining offset low rate Fruitland Coal wells. A gas rate inclining to 200 mcfd within six months of completion and an initial water rate of 2 bwpd were determined.

Economics for commingling the Fruitland Coal with the Mesaverde and for drilling a new well to complete the Fruitland Coal show completing the Fruitland Coal in this area is only economical by completing the Fruitland Coal in existing Mesaverde wells.

Attached is the C-102 and acreage dedication, Mesaverde gas rate vs time plot for the 29-5 # 25 showing the 36 month forecast, a 36 month Mesaverde gas production forecast, estimated Fruitland Coal gas rate vs time plot for the 29-5 # 25 showing offset production, and economics for commingling the Fruitland Coal with the Mesaverde and drilling and completing the Mesaverde.

Sincerely,

PHILLIPS PETROLEUM

Brad Peterson Reservoir Engineer

cc: OCD – Aztec BLM – Farmington NM Commissioner of Public Lands – Santa Fe District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 15, 2000 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039	r		² Pool Code 71629		Basin Fruitla	³ Pool Na and Coal	me			
⁴ Property Code 009256				⁵ Property Name San Juan 29-5 Unit					Well Nu 25	mber
⁷ OGRID No. 017654				⁶ Operator Name PHILLIPS PETROLEUM COMPANY					[°] Elevation 6500 [°]	
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the		Feet from the	East/West line		County
G	18	29N	5W		1650	North	1650'	East	Rio	Arriba

¹¹ Bottom Hole Location If Different From Surface

1	UL or lot no. G	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
[¹² Dedicated Acres	¹³ Joint or	r Infill 🔤 14 C	Consolidation	Code ¹⁵ Or	der No.				
	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

16		1		¹⁷ OPERATOR CERTIFICATION
		Í		I hereby certify that the information contained herein is true
		-	4	and complete to the best of my knowledge and belief.
		1650'		Laber Migh
		Ē		Signature
		~		Patsy Clugston
		C		Printed Name
		h	1650'	Sr. Regulatory Clerk
	7	•	SF-078281	Title
			2560 acres	June 5, 2002
				Date
	SECTION	18		
			0	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
			5	my supervision, and that the same is true and correct to the
				best of my belief.
	1	-		see original C102
·····		-t		Date of Survey dated 8/24/55
				Signature and Seal of Professional Surveyor:
				signed by
				James P. Leese
	<i>x</i>		Ψ	
				Certificate Number
L	<u> </u>			

	W MEXICO OIL CONSERVATION COMM ION
	Well Location and Agroage Doducation, Plat
ection A.	Date MARCH 28, 1958
ell No. 25-18 Unit Letter Q. ocated 1650 Feet From ounty RIO ARRIBA G. L. Same of Producing Formation	LINE CORPORATION Lease SAN JUAN 29-5 UNIT SF 078281 Section 18 Township 29-N Range 5-W NMI NORTH Line, 1650 Feet From BAST Lin Elevation 6500 Deducated Acresge 320 Acre MESA VERDE Pool BLANCO MESA VERDE e dedicated acreage outlined on the that below?
Yes Vie No If the answer to question one is " agreement or otherwise? Yes	"no", have the interests of all the owners been consolidated by community an No
. If the answer to question two is "n Owner	no", list all the owners and their respective interests in \mathbb{APR} 1 1958
· ··· · · · · · · · · ·	U. S. GEOLOGICAL SURV FARMINGTON, NEW MED
	nan an
Section B.	Note: All distances must be work over the work of the second states of the second seco
Chis is to certify that the information n Section A above is true and complet o the best of my knowledge and belie	
(Operator) Original signed by L. F. Stone (Representative)	1650'
(Address) Pacific Northwest Pipeline Corp. 4181/2 W. Broadway Farmington, New Mexico	SF 078281 SECTION 18

Scale 4 inches equal 1 mile

This is to certify that the above plat was propared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Sarveyed	AUGUST 24, 1955	
A	n P	
(Lamer 0	essional Engineer and for Land Survey	•••••
Gegestered Prot	essional Engineer and for Land Survey	: O F

SPA

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Farmington, New Mexico



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29-5 # 25 Mesaverde Production and Forecast

29-5 # 25 Mesa Verde Production Forecast

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		Average Rate	Monthly Volume	
Month	Year	(MCFD)	(MMCF)	
6	2002	70.48	2.11	
7	2002	70.24	2.18	
8	2002	70	2.17	
9	2002	69.76	2.09	
10	2002	69.52	2.16	
11	2002	69.28	2.08	
12	2002	69.05	2.14	
1	2003	68.81	2.13	
2	2003	68.58	1.92	
3	2003	68.35	2.12	
4	2003	68.12	2.04	
5	2003	67.89	2.1	
6	2003	67.66	2.03	
7	2003	67.43	2.09	
8	2003	67.21	2.08	
9	2003	66.98	2.01	
10	2003	66.76	2.07	
11	2003	66.53	2	
12	2003	66.31	2.06	
1	2004	66.09	2.05	
2	2004	65.87	1,91	
3	2004	65.65	2.04	
4	2004	65.44	1.96	
5	2004	65.22	2.02	
6	2004	65	1.95	
7	2004	64.79	2.01	
8	2004	64.58	2	
9	2004	64.37	1.93	
10	2004	64.15	1.99	
11	2004	63.94	1.92	
12	2004	63.74	1.98	
1	2005	63.53	1.97	
2	2005	63.32	1.77	
3	2005	63.12	1.96	
4	2005	62.91	1.89	
5	2005	62.71	1.94	
6	2005	62.5	1.88	

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29-5 # 25 Production Forecast for Fruitland Coal

29-5 # 25 Fruitland Coal Completion Economics

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	Commingle with Mesaverde Case	New Drill Case
Rate of Return	33.8%	-3.0%
Payout	2.2 years	Never
Net Present Value at 13%	\$60,100	- \$186,500
Capital Outlay	\$129,500	\$421,000
Net Investment/Barrel of Oil Equivalent	\$3.47	\$11.27

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The economics were ran using the same production forecast for the Fruitland Coal. Economics assumed the well would be fraced for both cases.