TYPE DHC APP NO. 216451927

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APPLI	CATION CHECKLIST	
Т	HIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE		ND REGULATIONS
Appli:	[DHC-Dow [PC-Po	s: ndard Location] [NSP-Non-Standard Pro nhole Commingling] [CTB-Lease Com ool Commingling] [OLS - Off-Lease Sto	oration Uni¶ [SD-Simultaneous Ded mingling] [PLC-Pool/Lease Comm rage] [OLM-Off-Lease Measurem ressure Maintenance Expansion] njection Pressure Increase]	ingling] ent]
[1]	[A] Check	PPLICATION - Check Those Which Approximation - Spacing Unit - Simultaneous NSL NSP SD To One Only for [B] or [C] Commingling - Storage - Measurement December Of CTB PLC STORAGE - Disposal - Pressure Increase WFX PMX SWD	Dedication JUN 1 PC OLS OLM - Enhanced Oil Recovery	3 2002
	[D]	Other: Specify		
[2]	NOTIFICAT [A] [B] [C] [D]	ION REQUIRED TO: - Check Those W Working, Royalty or Overriding R Offset Operators, Leaseholders or Application is One Which Require Notification and/or Concurrent Ap U.S. Bureau of Land Management - Commissioner of	oyalty Interest Owners Surface Owner s Published Legal Notice proval by BLM or SLO	a.d./a.u
			neation of Fublication is Attached, an	id/Oi,
[3]		Waivers are Attached CURATE AND COMPLETE INFORM ATION INDICATED ABOVE.	MATION REQUIRED TO PROCI	ESS THE TYPE
	oval is accurate a cation until the re	TION: I hereby certify that the information of complete to the best of my knowledge equired information and notifications are sets the statement must be completed by an individual	I also understand that no action with ubmitted to the Division.	ll be taken on this
		RIA.		•
	Peterson or Type Name	Signature	Reservoir Engineer Title	6/12/02 Pote
1 1111t	от туро глание	Signature	btpeter@ppco.com e-mail Address	Date
			C IIIdii / Lddl C55	



June 11, 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 29-6 # 68

Dear Sirs,

Phillips Petroleum is proposing to commingle the Fruitland Coal and Mesaverde formations on the San Juan 29-6 # 68 (Reference Case No. R-11187). Currently the Mesaverde is producing independently 80 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. An initial gas rate of 220 mcfd 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 29-6 # 68 showing the 36 month forecast, a 36 month Mesaverde gas production forecast, estimated Fruitland Coal gas rate vs time plot for the 29-6 # 68 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

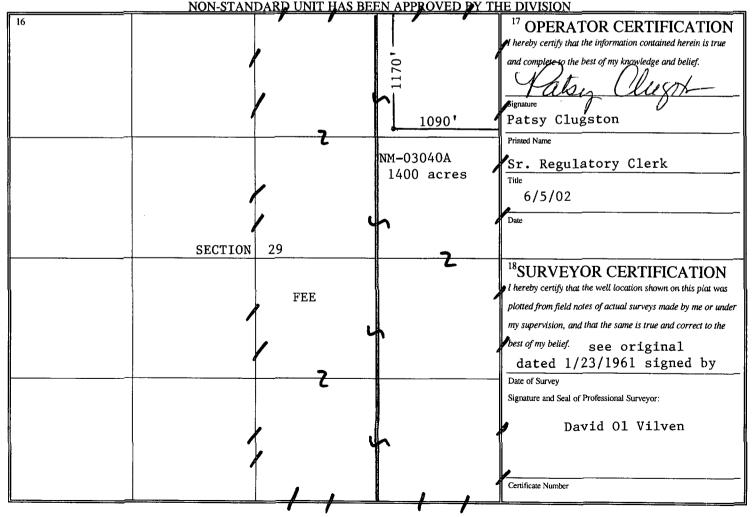
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT				
¹ API Number ² Pool Code ³		³ Pool Name		
30-039-07547		7162 <u>9</u>	Basin Fruitland Coal	
⁴ Property Code		⁵ P	roperty Name	⁶ Well Number
009257		San Juan 29-6 Unit		68
OGRID No.		*0	perator Name	⁹ Elevation

6289 PHILLIPS PETROLEUM COMPANY 017654 ¹⁰ Surface Location East/West line Feet from the North/South line Feet from the County UL or lot no. Section Township Range Lot Idn 1090' 1170' North East Rio Arriba 29 29N 6W ¹¹ Bottom Hole Location If Different From Surface Lot Idn Section Township North/South line Feet from the East/West line UL or lot no. Range Feet from the County Dedicated Acres 14 Consolidation Code 5 Order No. ¹³ Joint or Infill Y U 320 E/2

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A



NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Delication Plat

FEBRUARY 17, 1961 Date Section A. NM 03040-A EL PASO NATURAL GAS COMPANY 1 maser SAN JUAN 29-6 UNIT Operator 29-N Rame 6-W Unit Letter Section Town door MPM Well No. 1090 EAST 1170 NORTH Feet From Line Foot From Line. Located Dodge good Agency Acres G. L. Elevation 6279 RIO ARRIBA County BLANCO MESA VERDE MESA VERDE Poc! Name of Producing Formation 1. Is the Operator the only owner in the dedicated acrosse outlined on the play below? 2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No If answer is "yes", Tip of Con Fig. 3. If the answer to question two is "no", list all the owners and their respective interests below: Land Description 2 Owner U. S. GEOLOGICAL SU TA PREMINISTON! NEW MEN'S OIL CON. O DIST. 3 Note: All distances must be for Section B. This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief. 21 Pago Hatural Cas Company (Operator) Original Signed By: D.H. Oheim (Representative) FEE NM03040A (Address) SECT 29 Fernington, New Mexico

Scale 1 inches equal in the

This is to certify that the above plat was prepared from field notes of netral surveys made by me or under my supervision and that the accessing true and correct and of my knowledge and belief.

990 1320 1650 1940 2310 2640

(Seal)

Date Surveyed JANUARY 23, 1961

Farmington, New Mexico

<u>District I</u> 1625 N. Franch Drive, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

811 South First Street, Artesia, NM 88210

District III

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

TYPE OR PRINT NAME __

Oil Conservation Division

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

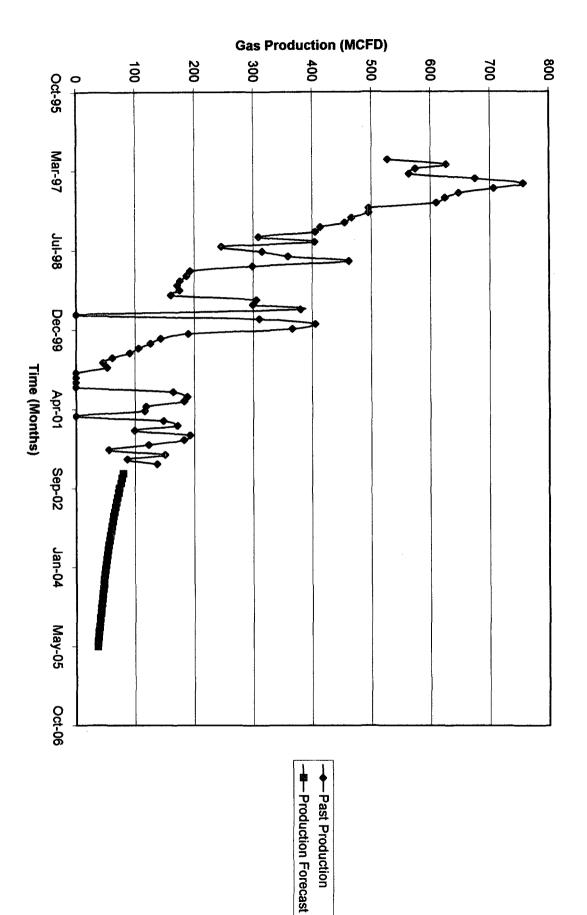
APPLICATION TYPE X Single Well Establish Pre-Approved Pools

APPLICATION FOR DOWNHOLE COMMINGLING

1011911	110	-Appic	veu i oois
EXIS	IIT?	NG WE	LLBORE
	37	37	NI.

PHILLIPS PETROLEUM COMPANY 5525 Hwy. 64, Farmington, NM 87401 Operator Address				
San Juan 29-6 Unit Lease		Section-Township-Range	County	
OGRID No. 17654 Property C	Code 0009257 API No. 30-	039-07547 Lease Type: X	Federal State Fee	
DATA ELEMENT	DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZO		LOWER ZONE	
Pool Name Basin Fruitland Coal Blanco Mesaverdo				
Pool Code 71629 72319				
Top and Bottom of Pay Section (Perforated or Open-Hole Interval) Est. Apprx. 2986' – 3058' 4085' – 5478				
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)			500 psi	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1100 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: 80 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	 e subtraction method on this wel	ll until we can establish a good f	ixed allocation percentage. See	
attached letter of explanation v		NAL DATA		
And all recording manualty and accounted	ing royalty interests identical in all co		V V- V	
	overriding royalty interest owners bee		Yes	
Are all produced fluids from all com	Are all produced fluids from all commingled zones compatible with each other? Yes X No			
Will commingling decrease the value of production? Yes No X				
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 X No				
NMOCD Reference Case No. applicable to this well: R-11187				
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 in true and complete to the best of my knowledge and belief.				
SIGNATURE DATE June 6, 2002				

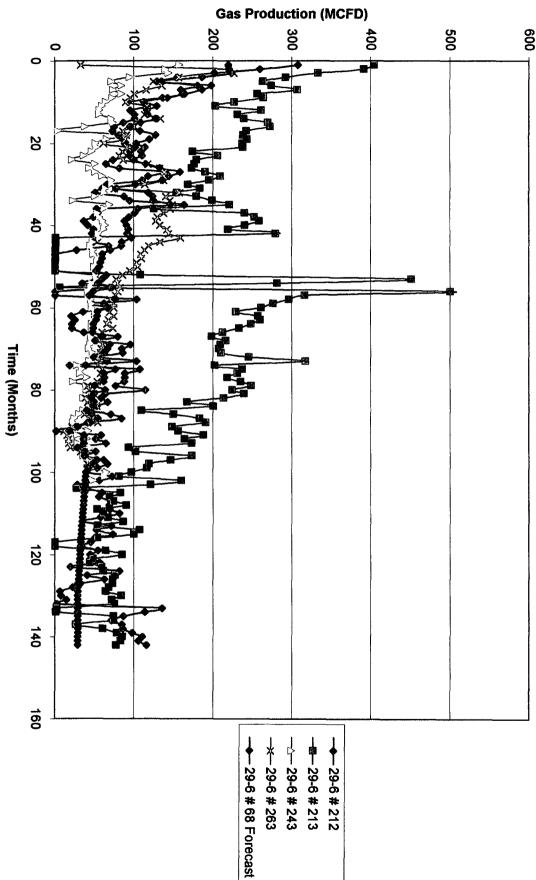
Brad Peterson TELEPHONE NO. (505) 599-3486 e-mail- btpeter@ppco.com



29-6 # 68 Mesaverde Production Forecast

		Average Rate	Monthly Volume
Month	Year	(MCFD)	(MMCF)
6	2002	79.28	2.38
7	2002	77.2	2.39
8	2002	75.2	2.33
9	2002	73.28	2.2
10	2002	71.44	2.21
11	2002	69.66	2.09
12	2002	67.95	2.11
1	2003	66.3	2.06
2	2003	64.71	1.81
3	2003	63.17	1.96
4	2003	61.69	1.85
5	2003	60.26	1.87
6	2003	58.88	1.77
7	2003	57.55	1.78
8	2003	56.26	1.74
9	2003	55.02	1.65
10	2003	53.81	1.67
11	2003	52.65	1.58
12	2003	51.52	1.6
1	2004	50.43	1.56
2	2004	49.37	1.43
3	2004	48.34	1.5
4	2004	47.35	1.42
5	2004	46.39	1.44
6	2004	45.45	1.36
7	2004	44.55	1.38
8	2004	43.67	1.35
9	2004	42.82	1.28
10	2004	41.99	1.3
11	2004	41.18	1.24
12	2004	40.4	1.25
1	2005	39.64	1.23
2	2005	38.9	1.09
3	2005	38.18	1.18
4	2005	37.49	1.12
5	2005	36.81	1.14
6	2005	36.14	1.08

29-6 # 68 Production Forecast for Fruitland Coal



29-6 # 68 Fruitland Coal Completion Economics

	Commingle with Mesaverde Case	New Drill Case
Rate of Return	39%	-1%
Payout	2.1 years	Never Pays Out
Net Present Value at 13%	\$72,900	- \$164,100
Capital Outlay	\$129,500	\$418,800
Net Investment/Barrel of Oil Equivalent	\$3.33	\$10.79

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