DATE	. 9/29/99	BUSPENSE 10/19/99 ENGINEER DC LODGED BY MV TYPE DHC
		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 2040 South Pacheco, Santa Fe, NM 87505
	A	DMINISTRATIVE APPLICATION COVERSHEET
Tł	IS COVERSHEET IS	MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Appi	ication Acronyn [DHC-Downi [PC-Poo [1	ns: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] hole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] I Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase]
	[EOR-Quali	Tied Enhanced Oll Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF A [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD SEP 2 9 1993
	Check	c One Only for [B] or [C]
	[B]	Commingling - Storage - Measurement X DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	G For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	U Waivers are Attached
[3]	INFORMATI	ON / DATA SUBMITTED IS COMPLETE - Certification
I here	by certify that I	or personnel under my supervision, have read and complied with all sufficients. Dutes of

5

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. <u>I understand that any omission of data</u> (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.					
Clint Hutchinson	Chaton 1. Arthuison	Reservoir Engr.	9/28/99		
Print or Type Name	Signature	Title	Date		

DISTRICT I

.

Lease

P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II 811 South First St., Artesia, NM 88210-2835 DISTRICT III 1000 Rio Brezos Rd, Aztec, NM 87410-1693

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION**

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A New 3-12-96

APPROVAL PROCESS:

v	Administrative	Hearing
<u> </u>	Additionation	

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

EXISTING WELLBORE

¥ YES NO

Phillips	Petroleum	Company
Operator		

5 Hwy. 64, Farmington, NM 87401

San Juan 30-5 Unit 70 E

O, Sec. 9, 30N, 5W

Rio Arriba County

Spacing Unit Lease Types: (check 1 or more) API NO. _30-039-26028 009258 _, (and/or) Fee OGRID NO. 017654 Property Code _ Federal X_, State

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	72319 Blanco Mesaverde		71599 Basin Dakota
2. Top and Bottom of Pay Section (Perforations)			
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	8. ^(Current) 1030 (est.)	8.	a. 1274
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Original) 1294 (est.)	b.	ь. 3412
6. Oil Gravity ([°] API) or Gas BTU Content	1030		990
7. Producing or Shut-In?			Producing
Production Marginal? (yes or no)	Yes		Yes
 If Shut-In, give 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: Rates:	Date: Rates:	Date: Rates:
estimates and supporting data • If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Dete: Estimated Rates: 550 mcfd	Date: Rates:	Date: 8/31/99 Rates: 382 mcfd
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: %	Oil: Gas: %	Oil: Gas: %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? Yes X No Yes No Yes No

Will cross-flow occur? <u>X</u> Yes <u>No</u> If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. X Yes <u>No</u> (If No, attach explanation) 11. Will cross-flow occur?

ORDER NO(S).

<u>X</u> Yes ___ No 12. Are all produced fluids from all commingled zones compatible with each other?

13. Will the value of production be decreased by commingling?	Yes <u>_X_</u> No	(If Yes, attach explanation)
---	-------------------	------------------------------

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ___Yes ___No

15. NMOCD Reference Cases for Rule 303(D) Exceptions:

16. ATTACHMENTS

MENTS: 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 all offset operators. Notification list of working, overriding, and royalty interests for uncommon interest cases. Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. A 1 11 11

SIGNATURE	Unit	nt.	Hutches	274
OIGHATOTIC	<u> </u>			

TITLE Reservoir Engr. DATE 9/28/99

Clint Hutchinson TYPE OR PRINT NAME ___

TELEPHONE NO. (505) 599-3423

R-10770

The bus soon, source, the source source P.O. Drawer DD, Artenia, N.M. 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Artec, N.M. 87410

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088

thergy "Incrais & Natural Accounces Department

OIL CONSERVATION DIVISION RECEIVED

P.O. Box 2088 Santa Fe, NM 87504-2088

Instructions on back Lit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

		Ţ	VELL I	LOCATIO	N AND A	ACREAGE DED	ication, p	LAT		
¹ API	Number	Number Pool Code Pool Name								
			71	599		Basin Dak <u>ot</u> a	1.0.X	, ŗ.m		
*Property C	ode				*Proper	rty Name	(/		• 1	Well Number
009258	3				SAN JI	JAN 30-5				70E
OGRID No	D.				*Operat	tor Name				• Elevation
017654	1			PHI	LUPS PETRO	DLEUM COMPANY				6382'
		· · · · ·			¹⁰ Surfac	e Location	· · · · · · · · · · · · · · · · · · ·			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/Wei	at line	County
0	9	30-N	5W		820	SOUTH	1518	EAS	ST	RIO ARRIBA
L	L	L	¹¹ Botte	om Hole	Location	If Different Fro	om Surface			- I
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	e North/South line	Feet from the	East/Wes	rt line	County
0										
¹⁸ Dedicated Acre	s ¹⁸ Joint o	or Infill ¹⁴ (onsolidatio	n Code ¹⁶ 0	rder No.	l	<u> </u>	L		
320 S/	'2 I		U							
NO ALLOW	ABLE W	ILL BE A	SSIGNEI	TO THI	S COMPLE	FION UNTIL ALL	INTERESTS I	IAVE BI	EEN C	ONSOLIDATED
		ORAN	ON-STA	NDARD U	JNIT HAS	BEEN APPROVED	BY THE DI	ISION		
			<u></u>	- <u>r</u>						·····
16							17 0	PERATO	R CE	RTIFICATION
							I hereby certi	fy that the i	information	a contained herein is
							true end com	plete to the	bert of my	, Enouiedge and beilej
							\neg			
								· // /		1
							Signature	_AX	M	bypc
							Richa	rd Al	lred	01-
							Printed Na	me		v ar a d'Altrei
							<u>O</u> Drill	ing S	uper	<u>intende</u> nt
				\sim	E A		R 11-23-	-gR		
				y	070007		Date			
				Sr-	.010391		8 18 SUI	VEYOR	CER	FIFICATION
							I hereby certy	y that the w	ell location	shown on this plat
	4						Z was plotted fro	m field note upervision, a	s of actua and that th	i surveys made by m we same is true and
			Ĺ	1			correct to the	beet of my b	ellef.	
							97	20049AP.	RUC	
		7				7	Deto of Surv	CW HE	X	
		<u> </u>	-		6		Signafure of		it of a	Su veyor:
						4		(8 894		8
				1	۴	1518'			<\	
								My C		rish
						1		- ASS/BNA	LAN	
			N 89-44 E	5260.20			Certificate No	umber	1	
	<u>۴ معمد م</u>	//-		└─ /───	- /		<u> </u>			





PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401 5525 HWY. 64 NBU 3004

September 28, 1999

New Mexico Oil & Gas Conservation Div. 2040 South Pacheco Santa Fe, New Mexico 87505-6429

> Downhole Commingling Allocation Method On the San Juan 30-5 Unit #70E

Dear Sirs:

Phillips Petroleum is proposing to utilize the subtraction method on the subject well for approximately twelve months after actual commingling occurs. After the 12th month period we will convert to the ratio method as indicated in our commingling application. We believe this will be a more accurate method of allocating production considering the Dakota interval has been producing for months and that the production will not be stabilized on the Mesaverde for several months.

Dakota Production Forecast

October 1999	11432	November 1999	10329
December 1999	9980	January 2000	9335
February 2000	8197	March 2000	8236
April 2000	7494	May 2000	7289
June 2000	6648	July 2000	6481
August 2000	6481	September 2000	6116

For example, if the total volume for November 1999 were 21,377, then the Dakota would be allocated 10,329 mcfd and the Mesaverde 11,048 mcf. And subsequently, the Dakota would be allocated (10,329/21,377) or 48.32 % and the Mesaverde would be allocated (11,048/21,377) or 51.68%.

Sincerely,

PHILLIPS PETROLEUM COMPANY

Chinton Autor

Clint Hutchinson Reservoir Engineer

CH/pc

cc: OCD - Aztec BLM - Farmington NM Commissioner of Public Lands - Santa Fe

Dakota Production Forecast for 30-5 Unit Well #70E

۰.

Year	Month		Gas (MCF)
Oct-99		1	11432
Nov-99		2	10329
Dec-99		3	9980
Jan-00		4	9335
Feb-00		5	8197
Mar-00		6	8236
Apr-00		7	7494
May-00		8	7289
Jun-00		9	6648
Jul-00		10	6481
Aug-00		11	6116
Sep-00		12	5596
Oct-00		13	5474
Nov-00		14	5018
Dec-00		15	4918
Jan-01		16	4664
Feb-01		17	4009
Mar-01		18	4227

Initial Rate

382 MCF/D

Page: 1 Document Name: Tcpip_1

• •

M2Y67-01	PARPI – WELLZONE PRO MONTHLY TO	DUCTION BR TALS	OWSE	Dat Use	:e: 9 er: #)/23 \$W9F	8/99 2)
Wellzone Screen: 1 Type: T Period: M	F0644 01 Yr: 1999 Mth: 05 (1-Prod, 2-Inj, 3-Both) (T-Total, D-Daily Avg) (M-Monthly, Y-Yearly, C-Cumm)	Property: Well No: Field: Reserv:	650402 0000701 0422 20079	SAN JUAN E BASIN DAKOTA NÇ	30-5 2	5 DA	AKOJ	Γ Α
ADJ	PRODUCED -			DAYS -	 	 - V	VELI	
FLG DATE	OIL (BBL) GAS (MCF) WATER	(BBL)	PROD	OP	\mathbf{ST}	CL	$\mathbf{T}\mathbf{Y}$
* 1999-05	0.00 8,20	3	118	30.00	13	11	03	2
* 1999-06	0.00 16,33	2	40	30.00	30	11	03	2
* 1999-07	0.00 16,85	8	40	31.00	31	11	03	2

NO MORE	DATA	AVAILABLE		
PA1=ICE		PF1=Help	PF3=End	
		PF7=Backward	PF8=Forward	

PF10=Next Well PF11=Prev Well



.

30-5 Unit Mesaverde

PHILLIPS PETROLEUM COMPANY 5525 HWY 64 NBU 3004 FARMINGTON, NEW MEXICO 87401

DATE: SEPTEMBER 21, 1999

WELL NAME: SAN JUAN 30-5 # 70E FORMATION: DAKOTA TYPE TEST: STATIC GRADIENT

COUNTY: RIO ARRIBA STATE: NEW MEXICO

TOTAL DEPTH: 7839'	CASING PRESSURE: 1	175
PERFS: M.P. @ 7781'	TUBING PRESSURE: 7	725
TUBING SIZE: 2 3/8 TO 7812'	OIL LEVEL:	
CASING SIZE:	WATER LEVEL: 622	23'
PACKER:	TEMPERATURE:	
OTHER: 1.81 FN @ 7779'	ELEMENT NO.	
RAN PRESSURE @ 09:00	ELEMENT RANGE 0 TO 3	000

WELL STATUS: FLOWING SHUT IN

PRESSURE	GRADIENT
PSIG	PSI/FOOT
726	
759	0.017
790	0.016
821	0.016
1120	0.217
1196	0.380
1274	0.390
	PRESSURE PSIG 726 759 790 821 1120 1196 1274

RAN SLM @

H & H WIRELINE SERVICE INC. P. O. BOX 899 FLORA VISTA, NEW MEXICO 87415 OPERATOR: CHARLES HUGHES UNIT NO. T-10



PHILLIPS PETROLEUM SAN JUAN 30-5 # 70E DATE: SEPTEMBER 21, 1999

PRESSURE IN PSIG

· · ·

Exhibit 3.2

Production Allocation Methodology

- Adding New Zone to Existing Zone Initially Subtraction Method followed by Fixed Allocation Method
 - Subtraction Method (+/- 1st 12 months)
 - Forecast production rate by month for existing zone utilizing established decline curve for zone
 - Subtract forecasted rate from commingled rate to define new zone rate
 - Utilize subtraction method for +/- 12 months until new zone rate stabilizes, then utilize fixed allocation method with current rates
 - Fixed Allocation Method (after Subtraction Method)
 - Utilize forecasted rate from established decline curve for lower zone
 - Calculate upper zone rate by subtracting lower zone rate from commingled rate
 - Lower zone allocation = <u>Lower zone rate</u> Commingled rate
 - Upper zone allocation = (Commingled rate - Lower zone rate) / Commingled rate