	and the second sec	DH	C 4/16/97			
<u>DISTRICT I.</u> P.O. BOX 1980, Hobbs, NM (1) (1) 2987 (1997)	State of Nev Energy, Minerals and Natura		Form C-107-A New 3-12-96			
DISTRICT II	OIL CONSERVA		APPROVAL PROCESS: X Administrative Hearing			
811 South First St., <del>Artesis, NM-88210-2835 DISTRICT III CONCERVATOR DIVIS</del> 1000 Rio Brezos Rd, Aztec, NM 87410-1693	APPLICATION FOR DOW					
Phillips Petroleum	Company 5	525 Hwy. 64, Farmin	ngton, NM 87401			
Operator San Juan 30-5 Unit Lease	#49 M, Well No. Unit Ltr.	Sec. 9, T30N, R5W	County			
OGRID NO. 017654 Property Code	<u>. 009258</u> арі no. <u>30</u>	-039-21830	X_, State, (and/or) Fee			
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)	4005' 5696'		7682' 7704'			
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	a. <sup>(Current)</sup> 1030 psi (est.)	a.	<sup>a.</sup> 939 psig (24 hr. SI)			
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	<sub>b.</sub> <sup>(Original)</sup> 1294 psi (est.)	b.	<sup>ь.</sup> 3412 psi (est).			
6. Oil Gravity ( <sup>°</sup> API) or Gas BTU Content	1030BTU/cu.ft.		1000 BTU/cu. ft.			
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 estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:			
<ul> <li>If Producing, give date andoil/gas/ water rates of recent test (within 60 days)</li> </ul>	Date: Estimate Rates:420 mcfd	Date: Rates:	Date: Jan, 1997 Rates: 67 mcfd 0 bwpd			
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: %	Oil: Gas: %	Oil: Gas: % %			
9. If allocation formula is based u submit attachments with sup	upon something other than curr porting data and/or explaining r	rent or past production, or is ba nethod and providing rate proje	ased upon some other method, actions or other required data.			
<ol> <li>Are all working, overriding, ar If not, have all working, overr Have all offset operators been</li> </ol>	nd royalty interests identical in iding, and royalty interests bee given written notice of the prop	all commingled zones? In notified by certified mail? posed downhole commingling?	Yes X No X Yes No X Yes No			
11. Will cross-flow occur? X Y flowed production be recovered	YesNo If yes, are fluids of ed, and will the allocation form	ula be reliable. A Yes l	No (If No, attach explanation)			
12. Are all produced fluids from all commingled zones compatible with each other? X Yes No (see attached) 13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation)						
14. If this well is on, or communitized with state or federal lands, either the Commissioner of Bublic Londo or the						
United States Bureau of Land Management has been notified in writing of this application. X Yes No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) R-10771						
16. ATTACHMENTS: * C-102 for each zon * Production curve fo * For zones with no p * Data to support allo * Notification list of a	te to be commingled showing it or each zone for at least one ye production history, estimated p preation method or formula	ts spacing unit and acreage dea ar. (If not available, attach ex roduction rates and supporting	dication. planation.) data.			
I hereby certify that the informatic	on above is true and complete t	to the best of my knowledge a	nd belief.			
SIGNATURE Seen C	Hella	Staff Reservoi TITLE <u>Engineer</u>	r			
TYPE OR PRINT NAME	n C. Helton	TELEPHONE NO. ( _	505 ) 599-3455			

, ,

.\*

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 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

[	API Numb	cr	T	<sup>3</sup> Pool Coo	le	<sup>3</sup> Pool Name					
30-039	-039-21830 72319 Blanco Mesaverde			72319 F			Blanco Mesaverde				
<sup>4</sup> Property 009258	Code							Well Number #49			
'OGRID	No		<sup>4</sup> Operator Name							* Elevation	
017654		Dhil	ling	Petrol	leum C					6	318
01/034			1103				Location				
	Section	Township	Barret	Lot Idn	Feet from		North/South line	Feet from the	East/Wes		County
UL or lot no.		1 1	Range		815	uc	South	1005	Wes		Rio Arriba
M	9	30N	5W	Lom Uol	<u> </u>		f Different Fro	l	wes	د 	INIO AILIN
	C	Truckin		Lot Ida	Feet from		North/South line	Feet from the	East/Wes	1 15	County
UL or lot no. M	Section	Township	Range	1.00 102	rect from	100	North/South ane	reet from the	Eastries		County
12 Dedicated Acr	val <sup>13</sup> Ioint		onsolidatio	n Code U	Drder No.		L	[			
320		y l	IJ								
<b></b>			<u>~</u>	D TO TH	IS COMPI	ETI	ON UNTIL ALL	INTERESTS H	AVE BEI	EN CO	NSOLIDATED
NO NELO							EEN APPROVED				
16	1			T		T		17 OPER	ATOR	CERT	<b><i>TIFICATION</i></b>
											contained herein is
1				1			×	true and com	plete to the b	est of my	knowledge and belief
	U	<b>1</b>									
	1	l		X							,11
		7						6		-H	The second
		l	•	1				Signature	nc	168	
	ļ			X				Sean C	Hel	ton	
· .		SECTION	9	1				Printed Nam		voir	Engineer
		•		1				Tille	Resel	<u></u>	Engineer
	9			1				March	25, l	997	
		-	•					Date			
			t -	1				<sup>18</sup> SURV	EYOR	CERT	IFICATION
								18			n shown on this plat
	1										l surveys made by at the same is true
	1							and correct to		-	a une sume is mae
	٦	¥ .		1							
?								Date of Surve			
U	·			1			·····	Signature and	Scal of Profe	ssional Su	urveyer:
10051				1				See D	akota	C = 10	12
	7 1	1		1					2-27·		
1	15-	•	-						-		
7	81										
			1					Certificate Nur	nber		

MEXICO OIL CONSERVATION COMMISS

Form C-102 Supersedes C-128 Effective 1-1-65

Construct       Lease       Main 1200       San Juan 30-5       Main 1200       149         MARCHINESS PIPELINE CORPORATION       San Juan 30-5       County RIO ARRIBA       149         Artual resorts location at only       90 NORTH       SWEST       County RIO ARRIBA       1200       100         Artual resorts Location at only       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         Construct at only       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         Construct at only       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         Construct at one       SOUTH       Ibe and       100       County RIO ARRIBA       200       1         10 attinue th and and participation of the south resolution of the south reso	All distances must be from the outer boundaries of the Section.						
Unit Latter       Fordure       Fordure       County       RIO ARRIHA         Mini Latter       30 NORTH       5 WEST       RIO ARRIHA         B15       test trap the       SOUTH       1005       foot trap.       WEST         Construction       Description       Basin Dakota       Delimited Accessed       320       construction         Construction       Description       Basin Dakota       Delimited Accessed       320       construction         Construction       Description       Basin Dakota       Delimited Accessed       320       construction         1. Outline the acruage dedicated to the subject well by colored pencil or hachure marks on the plat below.       1.       Interest than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interests and royalty).         3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners leen consolidated.       User reverse side this form in accessary). SULA, SULA SULA SULA SULA SULA SULA SULA SULA							
M     9     30 NORTH     5 WEST     RIO ARRIDA       Anual Former Landing of Entrance     SOUTH     Image and     1005     tool from the WEST       Central Land     Perturned Formation     Dakota     Basin Dakota     Defended According to an operation of the subject well by colored pencil or bachure marks on the plat holow.       2. If more than one lease is dedicated to the subject well in colored pencil or bachure marks on the plat holow.       3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated.       (If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated.       (Use reverse side this form if necessary).       SULA, SULA SEC. 9, T300 BSU       No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, etc?)       No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has here approved by the Commission.       SF=078997       100.5'       0       100.5'       0       100.5'       0       100.5'       0       100.5'			TION				49
B15       test tent for       SOUTH       1005       test from the       WEST         Cound (red Elder.)       Pretoring Personne       1001       Deltaded Accessed       20       10         B351       Dakota       Basin Dakota       20       10	М	9 30	NORTH			O ARRINA	
Consult provide the sense presence is in the subject well by colored pencil or hachure marks on the plat below.       20 <t< td=""><td>015</td><td>COUTU</td><td>line and</td><td>1005</td><td>at from the</td><td>WEST</td><td>11</td></t<>	015	COUTU	line and	1005	at from the	WEST	11
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachart marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interest and royalty).</li> <li>If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?</li> <li>Yes No If answer is "yes?" type of consolidation</li> <li>If answer is "no?" list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary). SU/A, SWA Sec. 9, T30N BSW.</li> <li>No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, unitization, some and and unit, eliminating such interests, has been approved by the Commission.</li> <li>CERNIFICANOM</li> <li>I hareby certify that the information de to the well.</li> <li>O.B. Whitenburg</li> <li>Positor</li> <li>Profitors</li> <li>Profitors</li> <li>Profitors</li> <li>Profitors</li> <li>Profitor de the well base of an anon-store due to the test of a monower much by the comparison of the row of the plate weighted to the comparison.</li> <li>Profitors</li> <li>Profit or the test of an anone the plat weight be into the comparison of the row of the plat weighted to the comparison of the row of of the ro</li></ol>						Deli	
<ul> <li>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to workin interest and royalty).</li> <li>3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? <ul> <li>Yes</li> <li>No</li> <li>If answer is "ho?" list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if accessary). SU/A, Su, Su/A, Su/A, Su, Su/A, Su, Su/A, Su, Su/A, Su, Su, Su, Su, Su, Su, Su, Su, Su, Su</li></ul></li></ul>	6318	Dakota		Basin Dakota			320 Acres
dated by communitization, unitization, force-pooling, ctc?            Yes         No         If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.)_SU/4, SU/4, SU/4, Sec., 9, TSON RSU          No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitratio forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Connai sion.             CERNIFICATION	2. If more than a	one lease is dedicated	-			-	
this form if necessary.)_SW/4, SW/4 Sec. 9, T30N R5W No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitizatio forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information con- tained herein is true and complete to fined herein is play as plotted from the complete fined and prover to the best of m hereing agreest to the best of m hereing agreest to the best of m hereing agreest bound. 1005' O	dated by comm	nunitization, unitization	, force-poolin	g. etc?	have the into	crests of all	owners been consoli-
<ul> <li>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</li> <li>O.B. Whitenburg</li> <li>Position:</li> <li>Production &amp; Drilling Englished Company</li> <li>Northwest Pipeline Corp.</li> <li>Date</li> <li>March 7, 1975</li> <li>I hereby certify that the information contained by net of the best of my knowledge and belief.</li> <li>SF=078997</li> <li>SF=078997</li> <li>Date</li> <li>1005' O.</li> <li>Part of the best of my knowledge and belief.</li> <li>Date</li> <li>Date</li> <li>Date of the best of my knowledge and belief.</li> <li>Date of the best of my knowledge and belief.</li> <li>Date of the best of my knowledge and belief.</li> <li>Date of the best of my knowledge and by net of the best of my knowledge and by net of the best of my knowledge and by net of the best of my knowledge and belief.</li> </ul>	this form if new No allowable w forced-pooling,	cessary.) <u>_SW/4,_SW/</u> vill be assigned to the v	4 Sec. 9, 1 well until all i	T30N R5W	consolidated	(by communi	tization, unitization,
Jaines PS: Leese						I hereby certify toined herein is best of my know OBUI OB. Whiter Position Production Company Northwest Date I hereby certif shown on this p Hores of actual under my superv to the pind ep know large and to ate Surveyed . 27 Fe egistered Proff I for Los i curt	that the information con- strue and complete to the viedge and belief.

## SAN JUAN 30-5 UNIT #49 DAKOTA

.

· `

.

	MONTH	MONTHLY FORECAST (MCF)
	Mar-97	2062
1	Apr-97	2061
2	May-97	2061
3	Jun-97	2061
4	Jul-97	2060
5	Aug-97	2060
6	Sep-97	2060
7	Oct-97	2059
8	Nov-97	2059
9	Dec-97	2059
10	Jan-98	2058
11	Feb-98	2058
12	Mar-98	2058
13	Apr-98	2057
14	May-98	2057
15	Jun-98	2057
16	Jul-98	2056
17	Aug-98	2056
18	Sep-98	2056

PHILLIPS PETROLEUM COMPANY 5525 HWY 64 NBU 3004 FARMINGTON. NEW MEXICO 87401 DATE: MARCH 05, 1997 WELL NAME: SAN JUAN 30-5 # 49 FORMATION: DAKOTA TYPE TEST: STATIC GRADIENT COUNTY: RIO ARRIBA STATE: NEW MEXICO CASING PRESSURE: 760 TUBING PRESSURE: 610 ELEVATION: ΘL TOTAL DEPTH: 7754' PBTD PERFORATIONS: 7682' TO 7704' OIL LEVEL: TUBING SIZE: 2-3/8" TO 7672' WATER LEVEL: 7044 ' CASING SIZE: ΤO TEMPERATURE: PACKER: AMERADA ELEMENT NUMBER: 86184 OTHER: RANGE: 0-3500 WELL STATUS: SHUT IN 24 HOURS INDIVIDUAL WELL DATA SHEET STATIC GRADIENT TRAVERSE

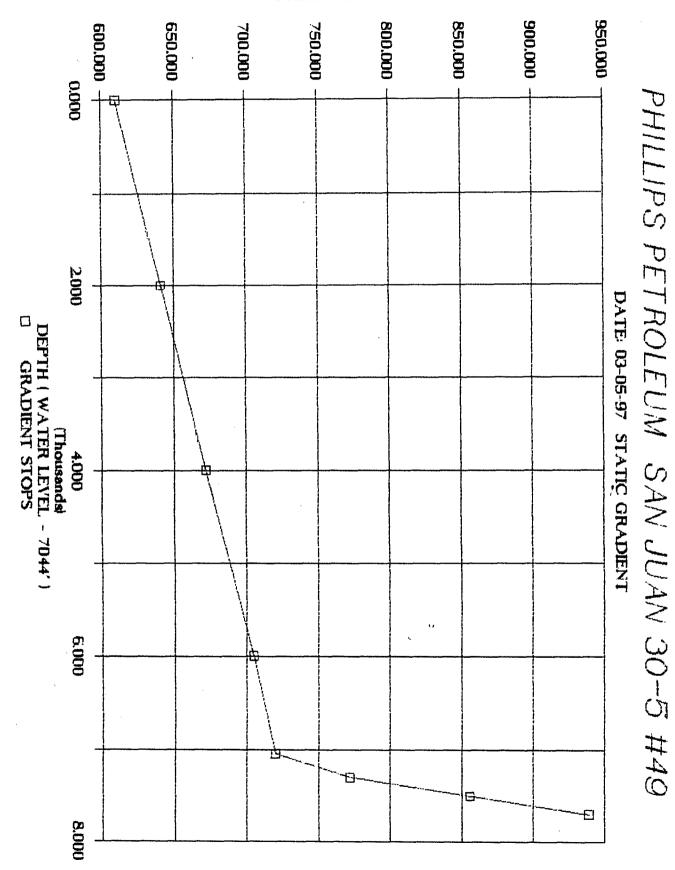
DEPTH IN FEET	PRESSURE PSIG	GRADIENT PSI/FOOT
Ō	61 O	
2000	641	0.015
4000	672	0.015
6000	705	0.016
7293	772	0.051
7493	856	0.420
7693	939	0.415

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

e 1

• •

.

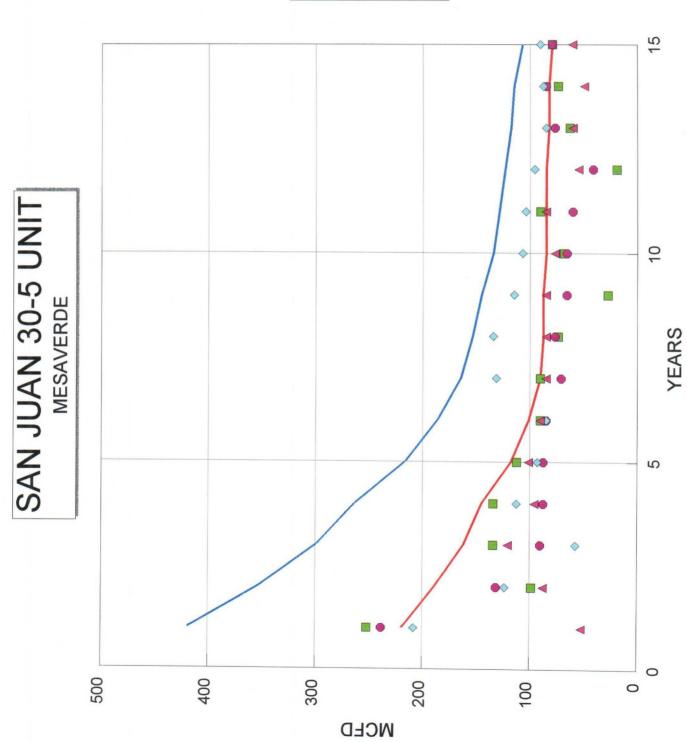


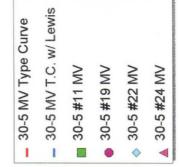
PRESSURE IN PSIG

Screen: 1 (1- Type: D (T-		h) Well No: ;) Field:	NTH 650262 SAN 000049	U - JUAN 30 SIN	Date: 3/06/97 User: #60X 5 DAKOTA UNIT
ADJ	P	RODUCED		DAYS	5 WELL -
FLG DATE	OIL (BBL)		ATER (BBL)	PROD	OP ST CL TY
1996-02	0.00	40	0	29.00	29 11 03 2
1996-03	0.00	74	0	26.00	26 11 03 2
1996-04	0.00	45	0	30.00	30 11 03 2
1996-05	0.00	219	0	4.00	4 11 03 2
1996-06	0.00	136	0	20.00	20 11 03 2
1996-07	0.00	75	0	31.00	31 11 03 2
1996-08	0.00	60	0	31.00	31 11 03 2
1996-09	0.00	71	0	15.00	15 11 03 2
1996-10	0.00	81	0	31.00	
1996-11	0.00	74	. 0	30.00	30 11 03 2
1996-12	0.00	64	0	31.00	31 11 03 2
1997-01	0.00	67	. 0	31.00	31 11 03 2
PA1=ICE PA	A2=Exit PF1=Help	PF3=End	PF5=INI7	TIAL CUM	PF11=GRAPH
Transfer->	PF7=Backwa	rd PF8=Forward	d PF10=GRA	AND MENU	PF12=LOG GRAPH

,

2 #AM3 03/03/97 18:41 (HINM/188) **MTR** 105 101 001 102 L988601 ZONE-650262076000049 L988601 API-30039218300000 THRU 97/01 1997 112831. MCF GAS BBL WTR Current Cums 1996 + 120. 995 ++ 1994 + 1/92-1/97 LEASE- 650262 : SAN JUAN 30-5 DAKOTA UNIT RESVR- 076 : BASIN WELL - 000049 CUM MCF =376057. : 2092.1 : 5.08 0.00 : 112831. 2117.3 +++ 1993 + INITIAL PROD / MNTH REMAINING LIFE 1992 | AVERAGE ONTIME =0.924 + FINAL PROD / MNTH CUM PRODUCTION + s0L +01 102 105 (MCE/WATH) CAS 0.1 0.0 DOWNTIME FRACT. +





• `

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

#### Attachment

## OCD Form C-107A (3/12/96)

Item No. 12 - additional explanation:

Based on water analysis from the Mesaverde and Dakota zones and discussions with the chemical treating/analysis company the water from these two zones are compatible. Lab analysis of the individual waters from both the Mesaverde and Dakota formations resulted in positive scaling indices for barium sulfate. There was a slight increase in the barium sulfate scaling index of the combined waters relative to the scaling index of the individual waters.

None of the waters, combined or individual, had meaningful scaling tendencies and combined with the fact that typical water production from either of these zones in San Juan 30-5 are 0-1 BWPD and no barium sulfate scale has been detected to date, no negative impacts to the formations are anticipated.