DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980	State of Nev Energy, Minerals and Natura	w Mexico al Resources Department	C Form C-107- New 3-12-
DISTRICT II	ISIGN OIL CONSERVA	· ·	APPROVAL PROCES
811 South First St., Artesia, MM-88210-2886	Santa Fe, New Me	acheco kico 87505-6429	X Administrative Heari EXISTING WELLBOI
	APPLICATION FOR DOW	NHOLE COMMINGLING	<u>X</u> YES
Phillips Petroleum C	Company 5525	Hwy. 64, Farmingt	con, NM 87401
Operator San Juan 30-5 Unit		Section 22, T30N,	R5W, Rio Arriba
Lease OGRID NO. 017654 Property Code		- Sec - Twp - Rge	County Jnit Lease Types: Icheck 1 or more) , 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)	4220' & 5998'		8002' & 8050'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	a. (Current)	8.	 824 psig (24 hr SI)
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones:	1030 psi (est.)		
Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Organa) 1294 psi (est.)	b.	b. 3412 psi (est.)
6. Oil Gravity ([°] API) or Gas BTU Content	1030 BTU/cu.ft.		1000 BTU/cű.ft.
7. Producing or Shut-In?			Producing
Production Marginal? (yes or no)	Yes		Yes
 If Shut-In, give date and oil/gas/ 	Date:	Date:	Date:
 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 	Rates:	Rates:	Rates:
estimates and supporting data	Date: Estimate	Date:	Date: Jan. 1997
 If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Rates: 420 mcfd	Rates:	Rates: 37 mcfd 0 bwpd
8. Fixed Percentage Allocation Formula -% for each zone	Cil: Gas: %	Dil: Ges: %	Oit: Gas: %
 If allocation formula is based using submit attachments with support of the submit attachment with support of the submit attachment with support of the suppor	pon something other than cur porting data and/or explaining	rent or past production, or is t	pased upon some other meth
10. Are all working, overriding, ar If not, have all working, overr Have all offset operators been			
11. Will cross-flow occur? x Y	es No If ves, are fluids	compatible, will the formations ula be reliable. X Yes	not be damaged, will any cro No (If No, attach explanati
12. Are all produced fluids from a			Yes No (see atta
13. Will the value of production b	1		es, attach explanation)
	Management has been notifie	d in writing of this application	<u> </u>
15. NMOCD Reference Cases for	Rule 303(D) Exceptions:	ORDER NO(S)	71
* Froduction curve fo * For zones with no * Data to support allo * Notification list of a	of each zone for at least one y production history, estimated p pocation method or formula.	its spacing unit and acreage de ear. (If not available, attach e production rates and supportin equired to support commingling	xplanation.) g data.
I hereby certify that the information			·
	1 Al	Staff Reservoi	
SIGNATURE Segn (- 7	to the	TITLE Engineer	DATE3-25-97

۰.

District I PO Box 1980, Hubba, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztee, 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 ³ Pool Code ³ Pool Name API Number 30-039-23173 72319 Blanco Mesaverde ⁴ Property Name ⁴ Property Code Well Number #90 009258 San Juan 30-5 Unit 'OGRID No. ¹ Operator Name ¹ Elevation 6670 Phillips Petroleum Company 017654 ¹⁰ Surface Location Feet from the North/South line Township Lot Ida East/West line UL or lot no. Section Range Feet from the County North 1120 East Rio Arriba 1535 22 30N 5W H ¹¹ Bottom Hole Location If Different From Surface Lot Ida Feet from the North/South line Feet from the East/West line UL or lot no. Section Township Range County H " Joint or Infill ¹⁴ Consolidation Code 15 Order No. 12 Dedicated Acres U 320 Y 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 ¹⁷ OPERATOR CERTIFICATION 16 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief 1120-Signature Sean C. Helton Printed Name Staff Reservoir Engineer SECTION 22 Title March 25, 1997 Date ¹⁸SURVEYOR 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 my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer: See Dakota C-102 dated 11-8-82 Certificate Number

* - STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

. -

L CONSERVATION DIVISI P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

		All distances mus		e cuter houndaties			·····
Operator			Leas	•,	-		Well No.
NORTHWEST	PIPELINE COR	PORATION		SAN JUAN 30-	-5 UNIT		90
Unit Letter	Section	Township		Range	County		
Н	22	30N		<u>SW</u>	Rio	Arriba	
Actual Footage Loc	cation of Well:						
1535	feet from the	North 11	ne and	1120 t	eet from the	East	line
Ground Level Elev:	Producing Fo	ormation	Pool				Dedicated Acreage:
6670	Dako	ta		Basin Dako	ta		320 Acres
		. 1) 1		1 . 1	1 - 1 - 1	.1	
I. Outline the	he acreage dedic	ated to the sub	ject well t	by colored penci	l or hachure	marks on	the plat below.
2. If more t	han one lease i	s dedicated to t	he well, or	itline each and i	identify the	ownership	thereof (both as to working
interest a	ind royalty).						
		····					
3. If more th	an one lease of	different owners	hip is dedi	cated to the we	ll, have the	interests of	of all owners been consoli-
dated by	communitization,	unitization, forc	e-pooling.	etc?			
		· · · ·					
X Yes	No If	answer is "yes;"	type of co	nsolidation	Uniti	zation	
	L		<i>·</i> · ·				
If answer	is "no," list the	e owners and tra	ct descript	ions which have	actually be	een consoli	dated. (Use reverse side of
	if necessary.)				·		
	-	med to the well w	ntil all int	oracto have had		tad (hu as	mmunitization, unitization,
	oling, or otherwis	e) or until a non-s	standard un	iit, eliminating s	such interes	ts, has bee	en approved by the Commis-
sion.							
						1	CERTIFICATION
	ļ						CERTIFICATION
	1			1			
	1					1 hereb	y certify that the information con-
				12		tained	herein is true and complete to the
	ł			ي تر		best of	my knowledge and belief.
	I	4. 22		·		\square	
	F					Van	C. Thompson
	1.			1.	2. A.	Name	
					20'	Paul C	. Thompson
	I			O	<u> </u>	Position	
	1	8. 2		l .		Drilli	ng Engineer
	I.			1	#	Compony	
	I			1	著奏	Northw	est Pipeline Corp
	1			1		Date	·····
		ec.		1 . 1		Novemb	er 12, 1982
	1			1			
	······						
	1	2		1			
	1			i .	45 A 44		by certify that the well location
	1		22	ļ			on this plat was plotted from field
ł	1			1			f actual surveys made by me or
	1			. 1		under m	y supervision, and that the same
	1	e alle alle alle alle alle alle alle al		1		ls truë	and correct to the best of my
	1			1		knowled	dge and belief.
							•.
	1	2					
	1			1	1 Sec. 19	Date Surv	aved - a line
·-	1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		1	с. Д		Z Carrier Aller X
				1			ber 8, 1982
	I			F	e velige		d Professional Engineer nd Surveyor
	l			1			-121/2
			19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	e di Santa		opt	appendent
	I					Fred	B. Kerr Jr.
	C					Certificat	eNol. Attan Vinde
	203	ale: 1"=1000"				3950	Asson's and

SAN JUAN 30-5 UNIT #90 DAKOTA

٠.

1		MONTHLY
		FORECAST
_	<u>MONTH</u>	<u>(MCF)</u>
	Mar-97	1751
1	Apr-97	1745
2	May-97	1738
3	Jun-97	.1731
4	Jul-97	1725
5	Aug-97	1718
6	Sep-97	1711
7	Oct-97	1705
8	Nov-97	1698
9	Dec-97	1692
10	Jan-98	1685
11	Feb-98	1679
12	Mar-98	1673
13	Apr-98	1666
14	May-98	1660
15	Jun-98	1654
16	Jul-98	1648
17	Aug-98	1642
18	Sep-98	1635

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

WELL NAME: SAN JUAN 30-5 # 90 Formation: Dakota

COUNTY: RIO ARRIBA STATE: NEW MEXICO

ELEVATION: GL TOTAL DEPTH: 8100' PBTD PERFORATIONS: 8002' TO 8050' TUBING SIZE: 2-3/8" TO 7978' CASING SIZE: TO PACKER: OTHER: CASING PRESSURE: 700 TUBING PRESSURE: 690 OIL LEVEL: WATER LEVEL: TEMPERATURE: AMERADA ELEMENT NUMBER: 86184 RANGE: 0-3500 WELL STATUS: SHUT IN 24 HOURS

DATE: MARCH 05. 1997

TYPE TEST: STATIC GRADIENT

INDIVIDUAL WELL DATA SHEET

STATIC GRADIENT TRAVERSE

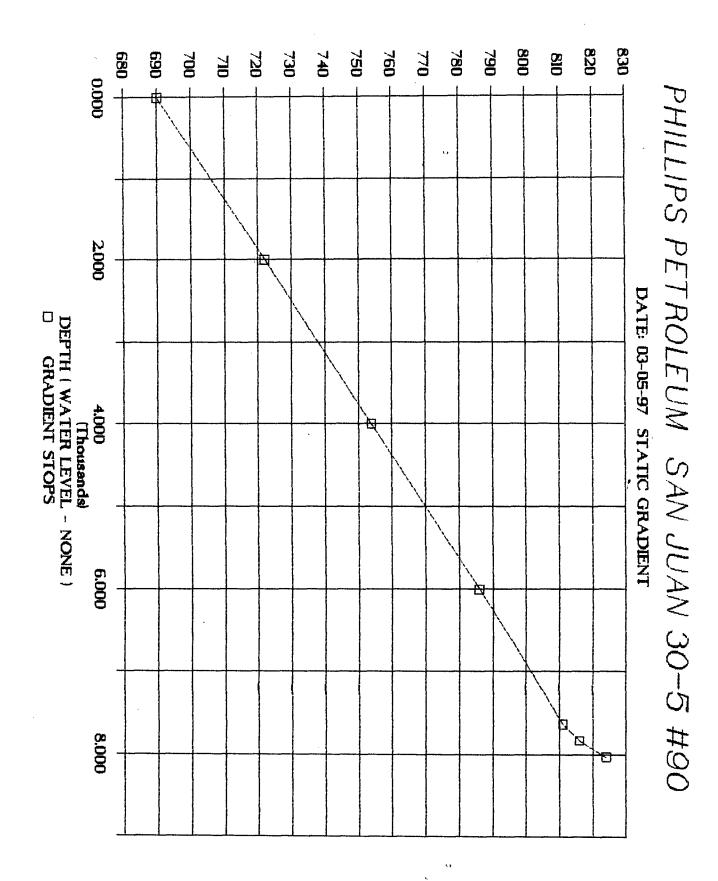
DEPTH IN FEET	PRESSURE PSIG	GRADIENT PSI/FOOT				
Ö	690					
2000	7 2 2	0.016				
4000	754	0.016				
6000	786	0.016				
7626	311	0.015				
7826	816	0,025				
8026	824	() "()4()				

NO CHANGE IN PRESSURE.

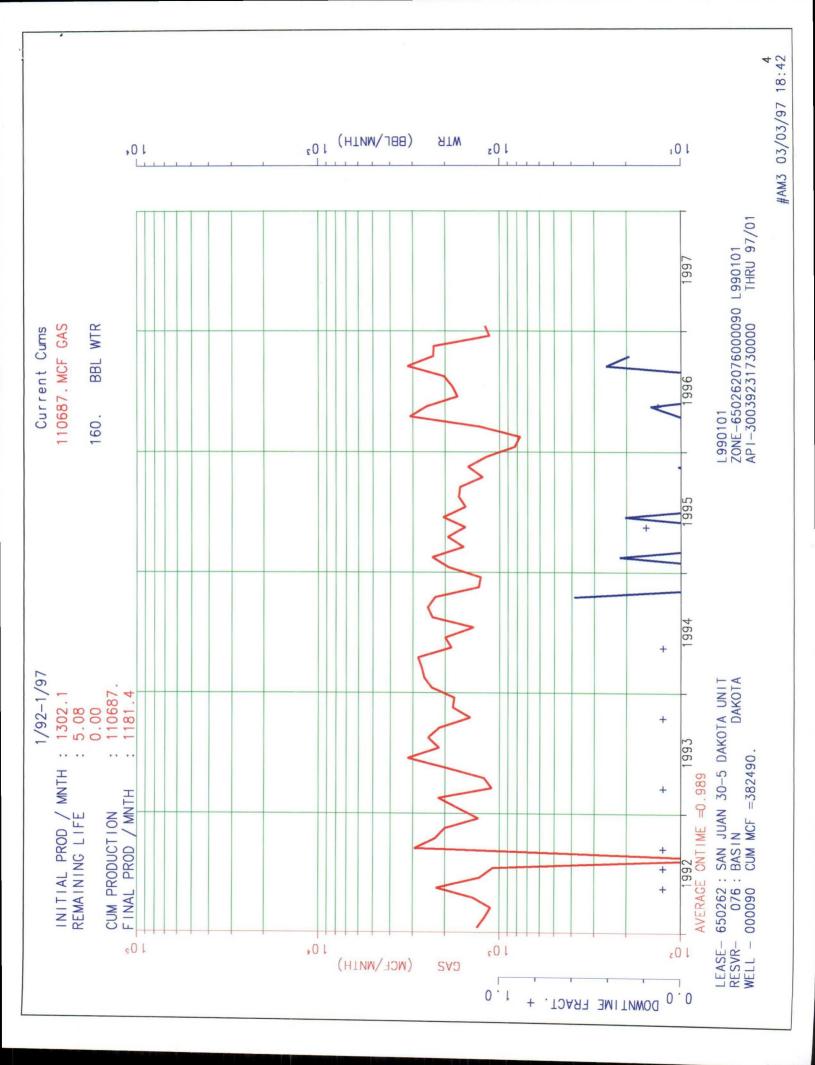
H & H WIRELINE SERVICE INC. P. O. BOX 899 FLORA VISTA. N. MEX. 87415 OPERATOR: CHARLES HUGHES UNIT NO. T-10

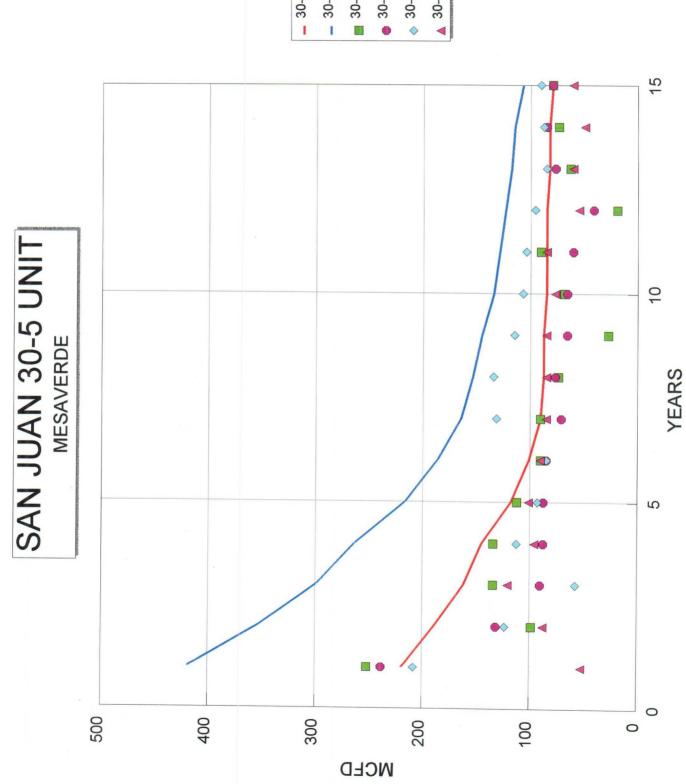
• • MEP81-01 Wellzone L990 Screen: 1 (1- Type: D (T- Period: M (M-	1 01 Yr: Prod, 2-] Total, D-	1996 Mt Inj, 3-B -Daily A	LY AVE h: 02 oth) vg)	RAGE BY Propert Well No Field:	MONTH xy: 650 b: 000 042		SIN	U	ate: 3 ser: # 5 DAKC	•60X		
ADJ			PRODU	CED				DAYS		- W	ELI	
FLG DATE	OIL	(BBL)	GAS	(MCF)	WATEI	R (BBL)	PR	OD	OP	ST	CL	ΤY
1996-02		0.00		23		0	29	.00	29	11	03	2
1996-03		0.00		41		0	31	.00	31	11	03	2
1996-04		0.00		100		0	30	.00	30	11	03	2
1996-05		0.00		93		0	27	.00	27	11	03	2
1996-06		0.00		54		0	30	.00	30	11	03	2
1996-07		0.00		59		0	31	.00	31	11	03	2
1996-08		0.00		63		0	31	.00	31	11	03	2
1996-09		0.00		101		0	30	.00	30	11	03	2
1996-10		0.00		75		0	31	.00	31	11	03	2
1996-11		0.00		72		0	30	0.00	30	11	03	2
1996-12		0.00		37		0	31	.00	31	11	03	2
1997-01		0.00		37		0	31	.00	31	11	03	2
PA1=ICE PA	2=Exit A	PF1=Help	1	PF3=End]	PF5=INI	TIAL C	UM :	PF11=0	JRAP	Ή	
Transfer->	1	PF7=Back	ward	PF8=Forv	ward 1	PF10=GR	AND ME	INU I	PF12=I	JOG	GRA	<i>1</i> ₽H

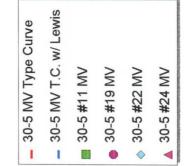
,



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

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.