DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

<u>DISTRICT II</u>

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

Phillips Petroleum Company

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

5525 Hwy. 64, Farmington, NM

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

APPROVAL PROCESS:

X Administrative __Hearing

87401

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

X YES __ NO

San Juan 29-5 Unit		Sec. 18, T29N, R5W	Rio Arriba				
OGRID NO. 017654 Property Code 009256 API NO. 30-039-20458 Federal X, State , (and/or) Fee							
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone				
Pool Name and Pool Code	72319 Blanco Mesaverde		71599 Basin Dakota				
Top and Bottom of Pay Section (Perforations)	4300' - 6030'		7869' - 8006'				
3. Type of production (Oil or Gas)	Gas	DECEIMED	Gas				
Method of Production (Flowing or Artificial Lift)	Flowing	JUN 2 6 1997	Flowing				
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 843 psi (est.) b. (Original) 1234 psi (est.)	OIL CON. DIV. DIST. 3	a. 1224 psi (est.) b.				
6. Oil Gravity (*API) or Gas BTU Content	1150 btu/cu. ft.		2981 psi (est.) 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:				
 If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Date: Estimate Rates: 438 mcfd	Date: Rates:	Date: 6/12/97 Rates: 120 mcfd				
Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: %	Oil: Gas: %	Cii: 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 method,							
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 No No No							
II. VVIII CEOSS-TIOW OCCUEZ X V	oo Na Maraa ee a	and the second s					
flowed production be recovered, and will the allocation formula be reliable. X Yes No (If No, attach explanation) 12. Are all produced fluids from all commingled zones compatible with each other? X Yes No 13. Will the value of production be described as a finite of production be described.							
 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 Public Lands or the United States Bureau of Land Management has been notified in writing of this application. Yes No 							
ORDER NO(S). R-10770							
* 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.							
hereby certify that the information above is true and complete to the best of my knowledge and belief. Staff Reservoir							
SIGNATURE Sees C #	elle	THIE Engineer	DATE6-25-97				
TYPE OR PRINT NAME Sean 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 Fc, 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

009256 San Juan 29-5 Unit		'Pool Name co Mesaverde	³ Pool Code 72319	i	*API Numb 30-039-20
Operator Name	Vell Number #55	•			• •
017654 Phillips Petroleum Company	Elevation		'Operator Name .ips Petroleum Company		

¹⁰ Surface Location

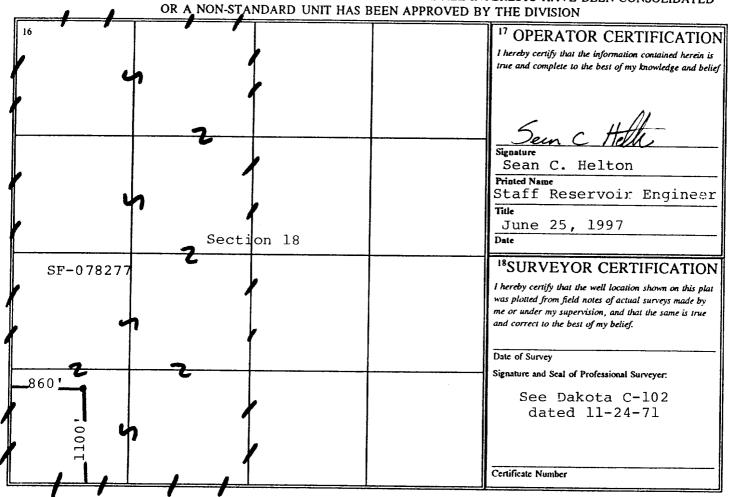
-	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
-	M	18	29N	5W		1100	South	860	West	Rio Arriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Dedicated Acre	s '3 Joint	or Infill 14	Consolidatio	n Code 15 C	rder No.	L	1	<u> </u>	<u> </u>	
320 acr	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.



NETTEXICO OIL CONSERVATION COMMISSICATION PLAT

Supersedes (+12) Effective (+1-F)

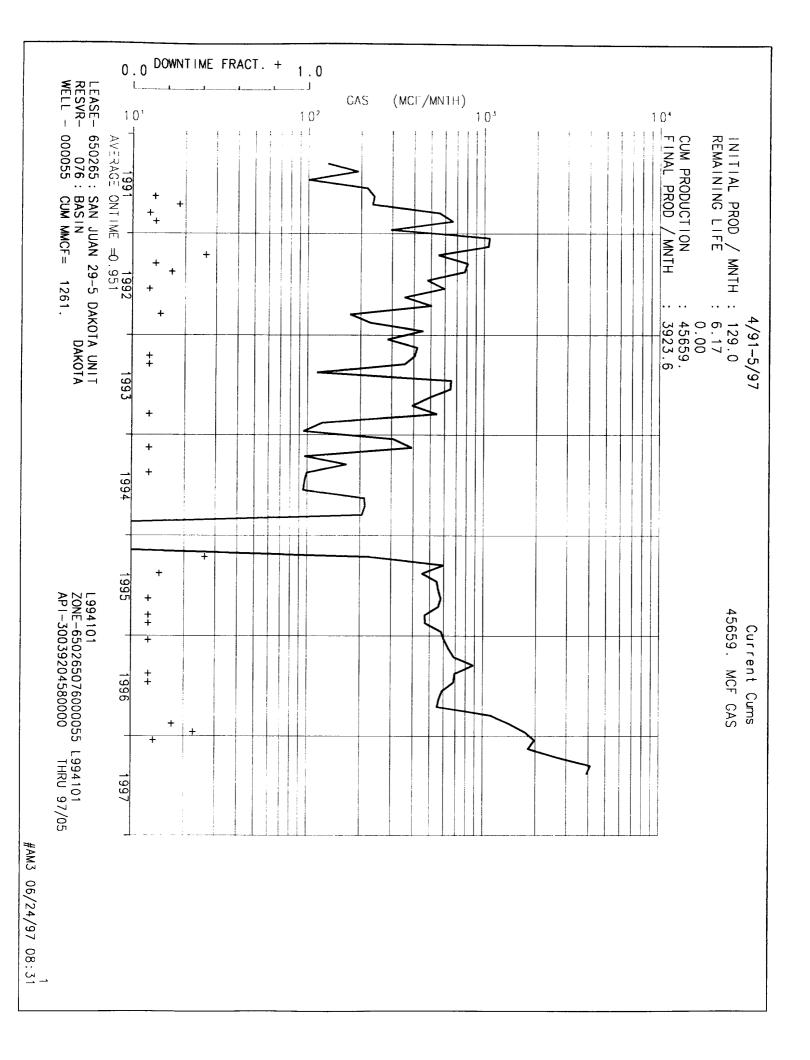
All distances must be from the outer boundaries of the Section EL PASO NATURAL GAS COMPANY SAN JUAN 29-5 UNIT (SF-078277) 18 М RIO ARRIBA 1100 SOUTH 860 WEST DAKOTA BASIN DAKOTA 320.00 3/8.97

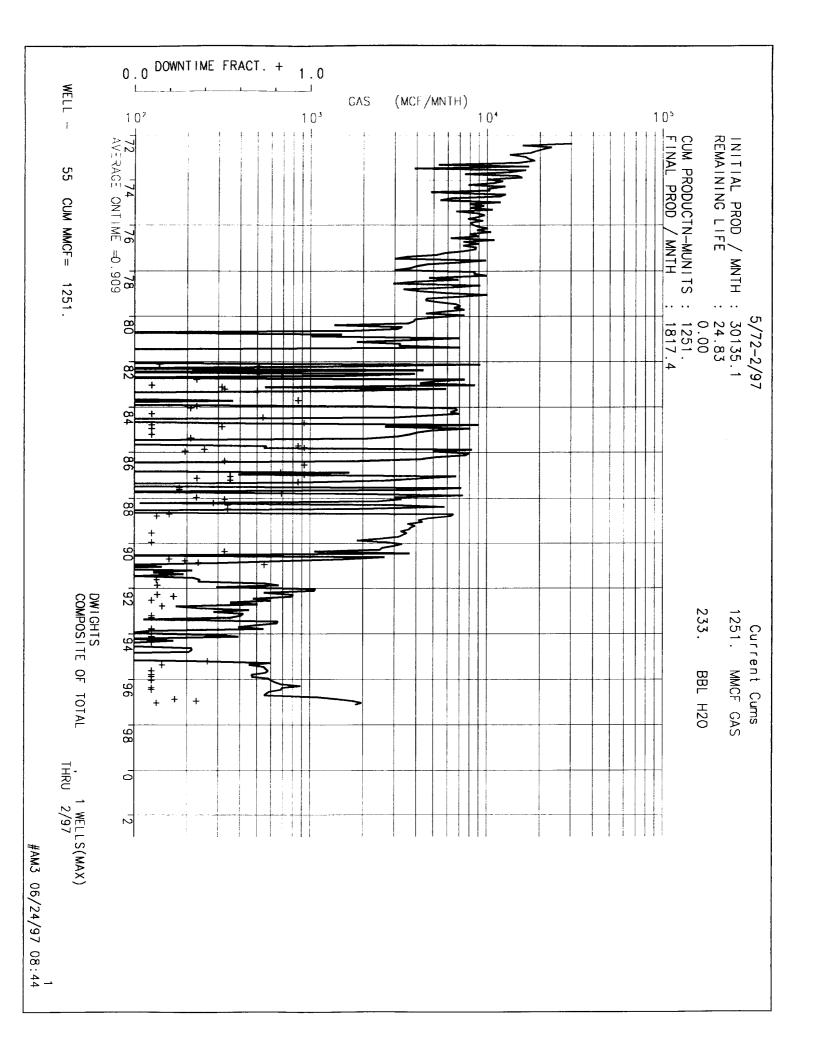
1. Outline the acreage dedicated to the subject well by colored pencil or hachuse marks on the plat in in The GITY 12 * 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof thath as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? X Yes No If answer is "yes." type of consolidation _______ Unitization If answer is "no." list the owners and tract descriptions which have actually been consolidated, the reverse side of No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Commission. I hereby certify that the information contained herein is true and complete to the FKE best of my knowledge and belief. Original Signed F. H. WOOD Petroleum Engineer El Paso Natural Gas Co. December 22, 1971 SECKTON 18 SF-078277 I hereby certify that the well location shows on this plat was platted from tield notes of actual servers made by me or under my supervision, and that the same knowledge and belief 860 NOVEMBER 24, 1971

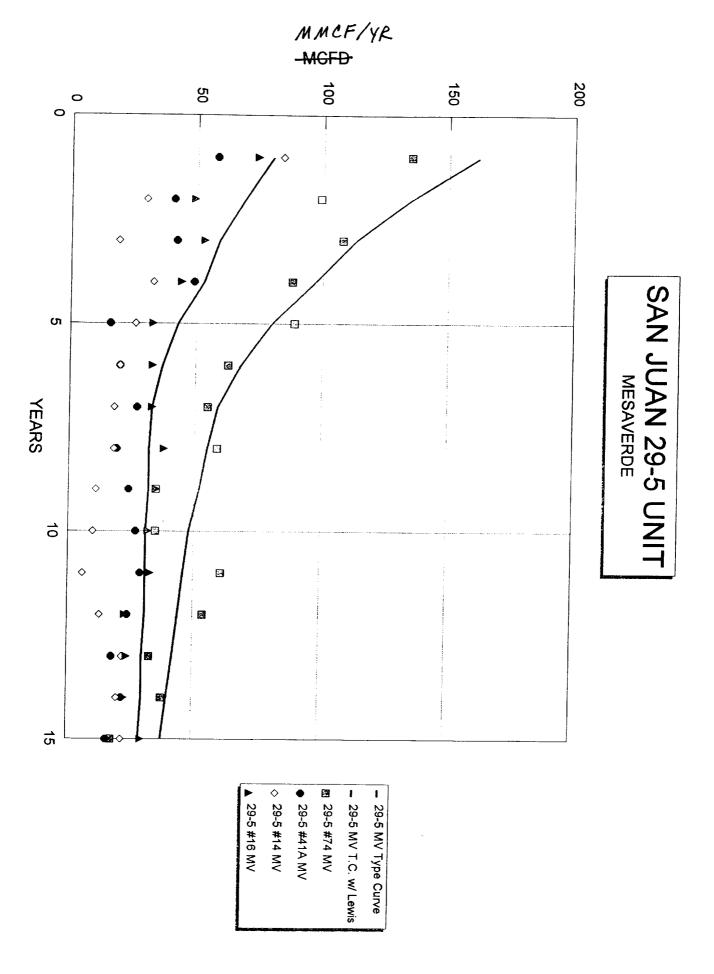
SAN JUAN 29-5 UNIT #55 DAKOTA

		MONTHLY		
		FORECAST		
	MONTH	(MCF)		
	Jun-97	3600		
1	Jul-97	3570		
2	Aug-97	3541		
3	Sep-97	3512		
4	Oct-97	3483		
5	Nov-97	3454		
6	Dec-97	3426		
7	Jan-98	3398		
8	Feb-98	3371		
9	Mar-98	3343		
10	Apr-98	3316		
11	May-98	3290		
12	Jun-98	3263		
13	Jul-98	3237		
14	Aug-98	3211		
15	Sep-98	3185		
16	Oct-98	3160		
17	Nov-98	3135		
18	Dec-98	3110		

		199701 199702 199703 199703 199704	M2Y60-02 PROPERTY: WELL NO: WELL NO: 199601 199602 199603 199604 199606 199606 199606 199607 199608 199609 199610 199611	P2Y42-R02 08:27:16
н	н	27 28 31 30		2
L994101 LIFE CUMULATIVE	L994101	27.00 28.00 31.00 30.00	PROD 000055 - 1 000055 - 1 00005 - 1 0005 - 1 00	
LIFE	SELECTION TOTAL	11 11 11 11 11 11 YEAR	SAN JUAN RESVR: ST CL II 03 11 03 11 03 11 03 11 03 11 03 11 03 11 03 11 03 11 03 11 03 11 03	I {4
CUMI	CTIO	11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 YEARLY TOTAL	AN JUAN 29-5 RESVR: DAKO ST CL TY III 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2 11 03 2	PHS PHS
ULATI	COL	=	STORY 29-5 D DAKOTA 7 R 2	PS PI
VE	PAL	20076 20076 20076 20076 20076 20076	PRODUCTION HISTORY FOR WELLZONE 5 - SAN JUAN 29-5 DAKOTA UNIT 5 RESVR: DAKOTA AYS AVS AVS AVS AVS AVS AVS AVS AVS AVS AV	TLIPS PETROLEUM COMP PHS SELECTION ENGINE CODUCTION DETAIL REPO
0.00	0.00	0.0000	UNIT OIL PRODUCTION PR 0.00	PHILLIPS PETROLEUM COMPANY PHS SELECTION ENGINE PRODUCTION DETAIL REPORT
1230381	23991	1922 1631 2635 3955 3899	WELL GAS ODUCTIO 58 85 69 65 52 113 134	fd 70
0	0	00000	DATE: 06/24/97 USER: SCHELTO 1 OF 1 WATER WATER 0 2 0 4 0 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DATE: 06/24/97 PAGE: 1







₽.ſ JidiAx∃

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