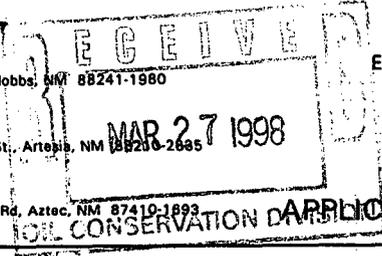


DHC 4/16/98

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

DISTRICT II
811 South First St., Artesia, NM 88200-2685

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410-1893



State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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

APPROVAL PROCESS:

Administrative Hearing

EXISTING WELLBORE

YES NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Phillips Petroleum Company, Address 5525 Hwy. 64, Farmington, NM 87401

Lease San Juan 30-5 Unit Well No. #47M Unit Ltr. - Sec - Twp - Rge F, Sec. 17, T30N, R5W, Rio Arriba County

OGRID NO. 017654 Property Code 009258 API NO. 30-039-25678 Spacing Unit Lease Types: (check 1 or more)
Federal 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)			7750' - 7896'
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 Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 1030 psi (est.)	a.	a. (24 hr SI) 1039 psi
	b. (Original) 1294 psi (est.)	b.	b. 3412 psi (est.)
6. Oil Gravity (^o API) or Gas BTU Content	1030 btu/ft ³		990 btu/ft ³
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 <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: estimate Rates: 400 mcf/d	Date: Rates:	Date: 3/16/98 Rates: 252 mcf/d
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? Yes No
If not, have all working, overriding, and royalty interests been notified by certified mail? Yes No
Have all offset operators been given written notice of the proposed downhole commingling? Yes No

11. Will cross-flow occur? Yes No 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. Yes No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? Yes No

13. Will the value of production be decreased by commingling? Yes 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: ORDER NO(S). R-10770

16. ATTACHMENTS:
- * C-102 for each zone to be commingling 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.
SIGNATURE Mark Stodola TITLE Reservoir Engr. DATE 3/23/98
TYPE OR PRINT NAME Mark Stodola TELEPHONE NO. (505) 599-3455

set II
1 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 AIT Number		2 Pool Code		3 Pool Name	
		71599		Basin Dakota	
4 Property Code		5 Property Name			6 Well Number
009258		SAN JUAN 30-5 UNIT			47-M
7 OGRID No.		8 Operator Name			9 Elevation
017654		PHILLIPS PETROLEUM COMPANY			6336

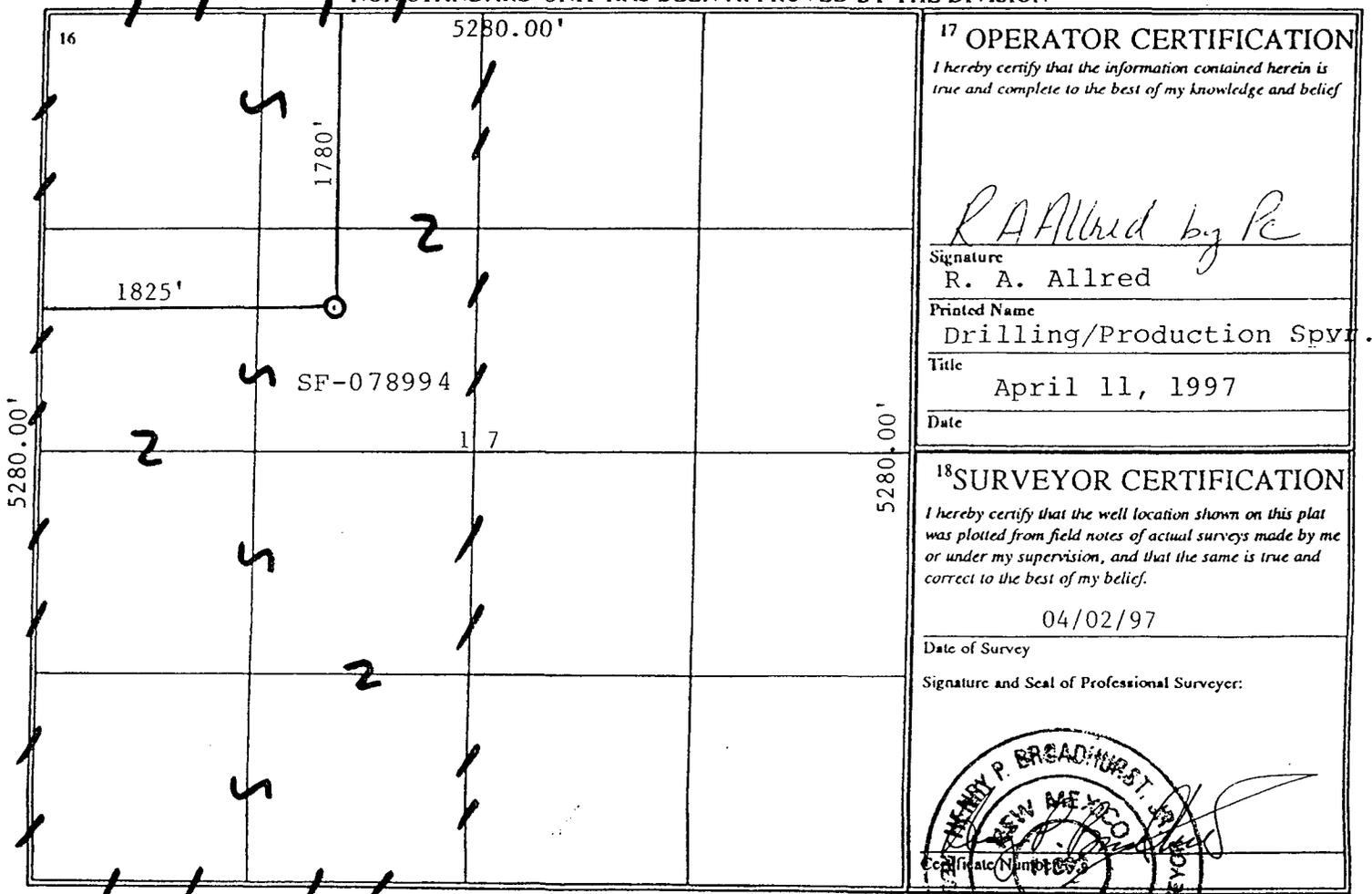
10 Surface Location

UL, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	17	30N	5W		1780	NORTH	1825	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
F									
12 Dedicated Acres		13 Joint or Infill	14 Consolidation Code		15 Order No.				
320		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

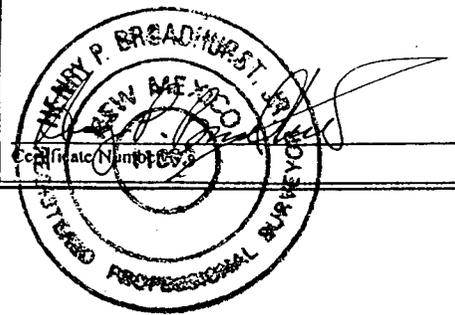


17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

R A Allred by R
Signature
R. A. Allred
Printed Name
Drilling/Production Spvr.
Title
April 11, 1997
Date

18 SURVEYOR 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.

04/02/97
Date of Survey
Signature and Seal of Professional Surveyor:



District I
 P.O. 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

1 APL Number		2 Pool Code 72319		3 Pool Name Blanco Mesaverde	
4 Property Code 009258		5 Property Name SAN JUAN 30-5 UNIT			6 Well Number 47-M
7 QCRID No. 017654		8 Operator Name PHILLIPS PETROLEUM COMPANY			9 Elevation 6336

10 Surface Location

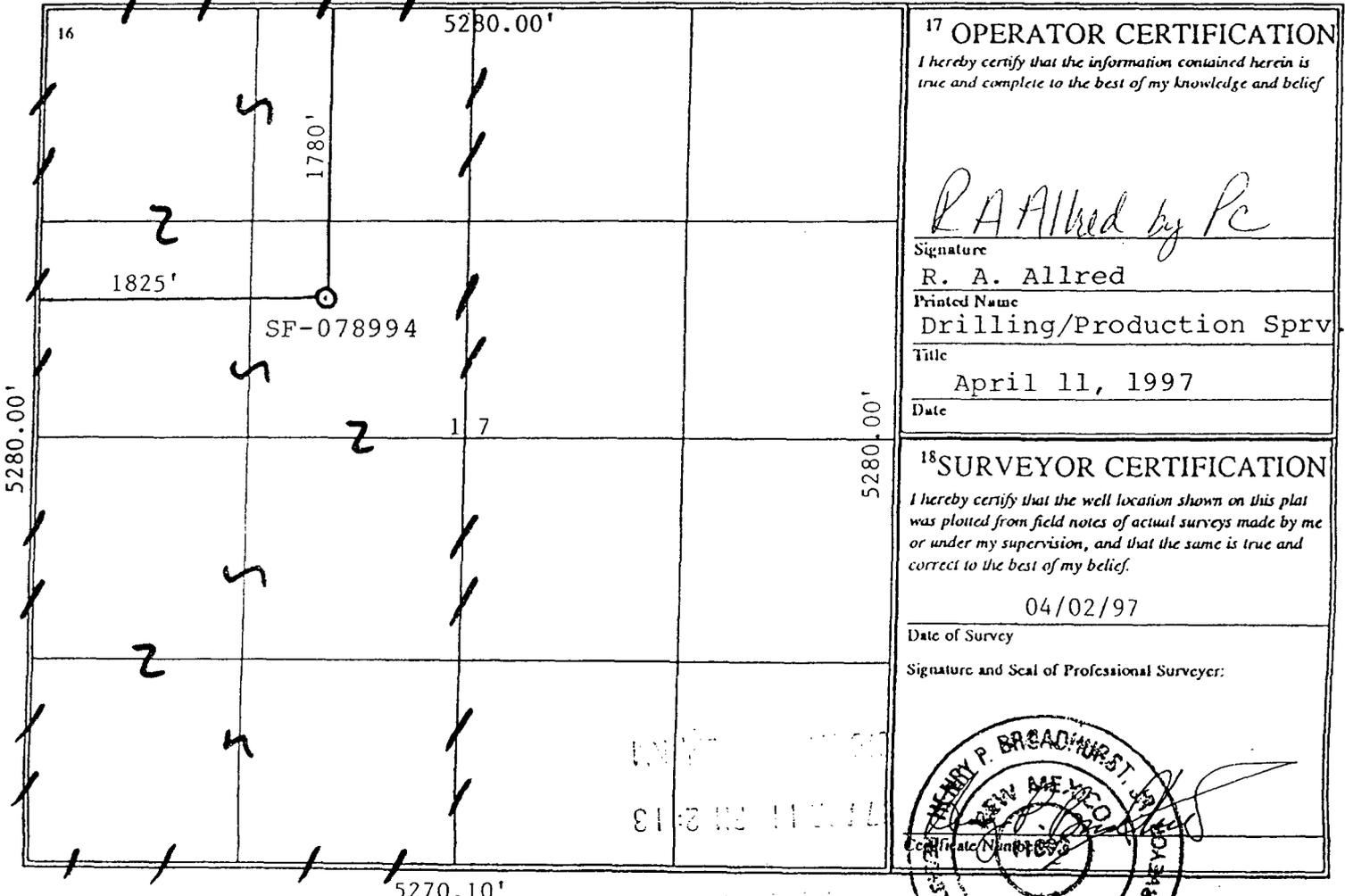
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	17	30N	5W		1780	NORTH	1825	WEST	RIO ARRIBA

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
F									

12 Dedicated Acres 320	13 Joint or Infill Y	14 Consolidation Code U	15 Order No.
---------------------------	-------------------------	----------------------------	--------------

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

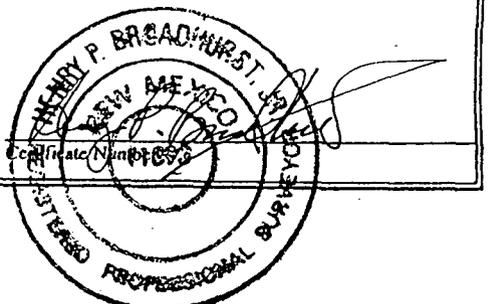


17 OPERATOR CERTIFICATION
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

R. A. Allred by PC
 Signature
 R. A. Allred
 Printed Name
 Drilling/Production Sprv.
 Title
 April 11, 1997
 Date

18 SURVEYOR 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.

04/02/97
 Date of Survey
 Signature and Seal of Professional Surveyor:





PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

March 24, 1998

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 #47M

Dear Sirs:

Phillips is proposing to utilize the subtraction method on the subject well for approximately six months after actual commingling occurs. After the six 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 that the Dakota interval has been producing for several months and that the production will not be stabilized on the Mesaverde for several months.

Dakota Production Forecast

April 1998	7,434	September 1998	7,115
May 1998	7,615	October 1998	7,288
June 1998	7,305	November 1998	6,991
July 1998	7,483	December 1998	7,161
August 1998	7,417	January 1999	7,099

For example, if the total volume for September 1998 were 13,420 mcf, then the Dakota would be allocated 7,115 mcf and the Mesaverde 6,305 mcf. And subsequently, the Dakota would be allocated $(7,115/13,420)$ or 53.02%, and Mesaverde would be allocated $(6,305/13,420)$ or 46.98%.

Sincerely,

PHILLIPS PETROLEUM COMPANY

Mark W. Stodola
Reservoir Engineer

MS/pc

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

Dakota Production Forecast for 30-5 Unit
Well #47M

Year	Month	Gas (MCF)
Apr. 98	1	7,434
May	2	7,615
Jun	3	7,305
Jul	4	7,483
Aug	5	7,417
Sep	6	7,115
Oct	7	7,288
Nov	8	6,991
Dec	9	7,161
1999	10	7,099
Feb	11	6,356
Mar	12	6,975
Apr	13	6,691
May	14	6,854
Jun	15	6,575
Jul	16	6,734
Aug	17	6,675
Sep	18	6,404

Initial Rate = 250 MCF/D

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 3/23/98

DAILY AVERAGE BY MONTH

User: MWSTODO

Wellzone F0623 02 Yr: 1997 Mth: 05 Property: 650402 SAN JUAN 30-5 DAKOTA UNIT-
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000047M
 Type: D (T-Total, D-Daily Avg) Field: 042233 BASIN
 Period: M (M-Mnthly, Y-Yrly, C-Cum) Resvr: 20079 DAKOTA NQ

ADJ	PRODUCED			DAYS		WELL		
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY
1997-05	0.00	0	0	0.00	0	82	11	2
1997-06	0.00	0	0	0.00	0	87	11	2
1997-07	0.00	0	0	0.00	0	50	11	2
1997-08	0.00	315	0	31.00	31	11	11	2
1997-09	0.00	303	0	30.00	30	11	11	2
* 1997-10	0.00	174	0	31.00	11	11	11	2
* 1997-11	0.00	178	0	30.00	30	11	11	2
1997-12	0.00	214	0	31.00	31	11	11	2
1998-01	0.00	233	0	31.00	31	11	11	2

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF4=PREV SCREEN PF12=LOG GRAPH

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

DATE: MARCH 18, 1998

WELL NAME: SAN JUAN 30-5 # 47M
FORMATION: DAKOTA

TYPE TEST: STATIC GRADIENT

COUNTY: RIO ARRIBA
STATE: NEW MEXICO

ELEVATION:	GL	CASING PRESSURE:	890
TOTAL DEPTH:	7880'	TUBING PRESSURE:	710
PERFORATIONS:	7750' TO 7897'	OIL LEVEL:	
TUBING SIZE:	2 3/8 TO 7759'	WATER LEVEL:	6963'
CASING SIZE:	TO	TEMPERATURE:	
PACKER:		AMERADA ELEMENT NUMBER:	87977
OTHER: BEGINING PRESSURE CAS @ 780,		RANGE:	0-2500
TUBING @ 480 MCF 210		WELL STATUS:	SHUT IN 25 HRS

INDIVIDUAL WELL DATA SHEET

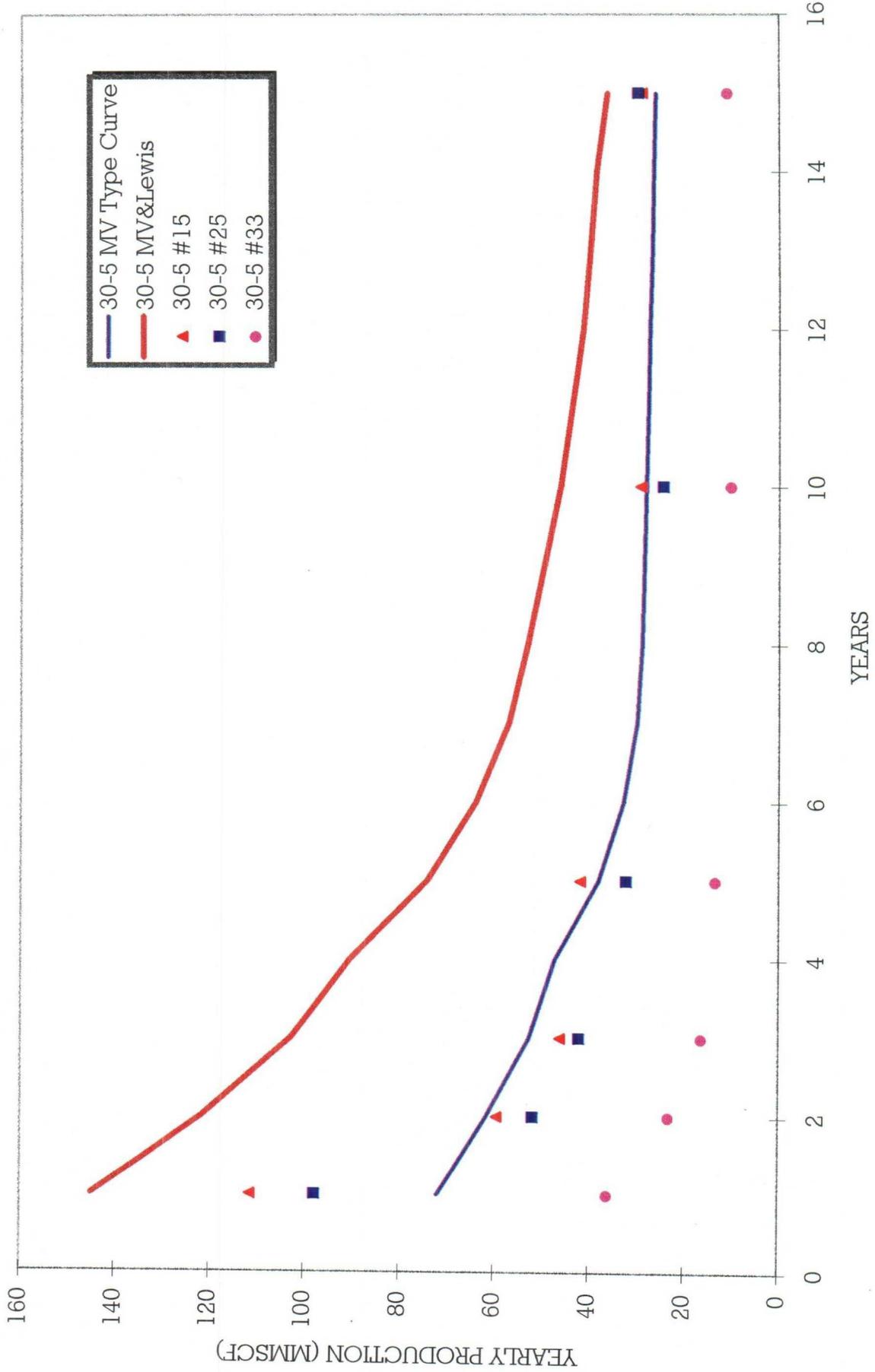
=====

FLOWING GRADIENT TRAVERSE

DEPTH IN FEET	PRESSURE PSIG	GRADIENT PSI/FOOT
0	705	
2000	730	0.013
4000	758	0.014
6000	784	0.013
7424	892	0.076
7624	965	0.365
7824	1039	0.370

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

30-5 UNIT MESAVERDE



PHILLIPS PETROLEUM SAN JUAN 30-5 # 47M

DATE: 03-18-98 STATIC GRADIENT

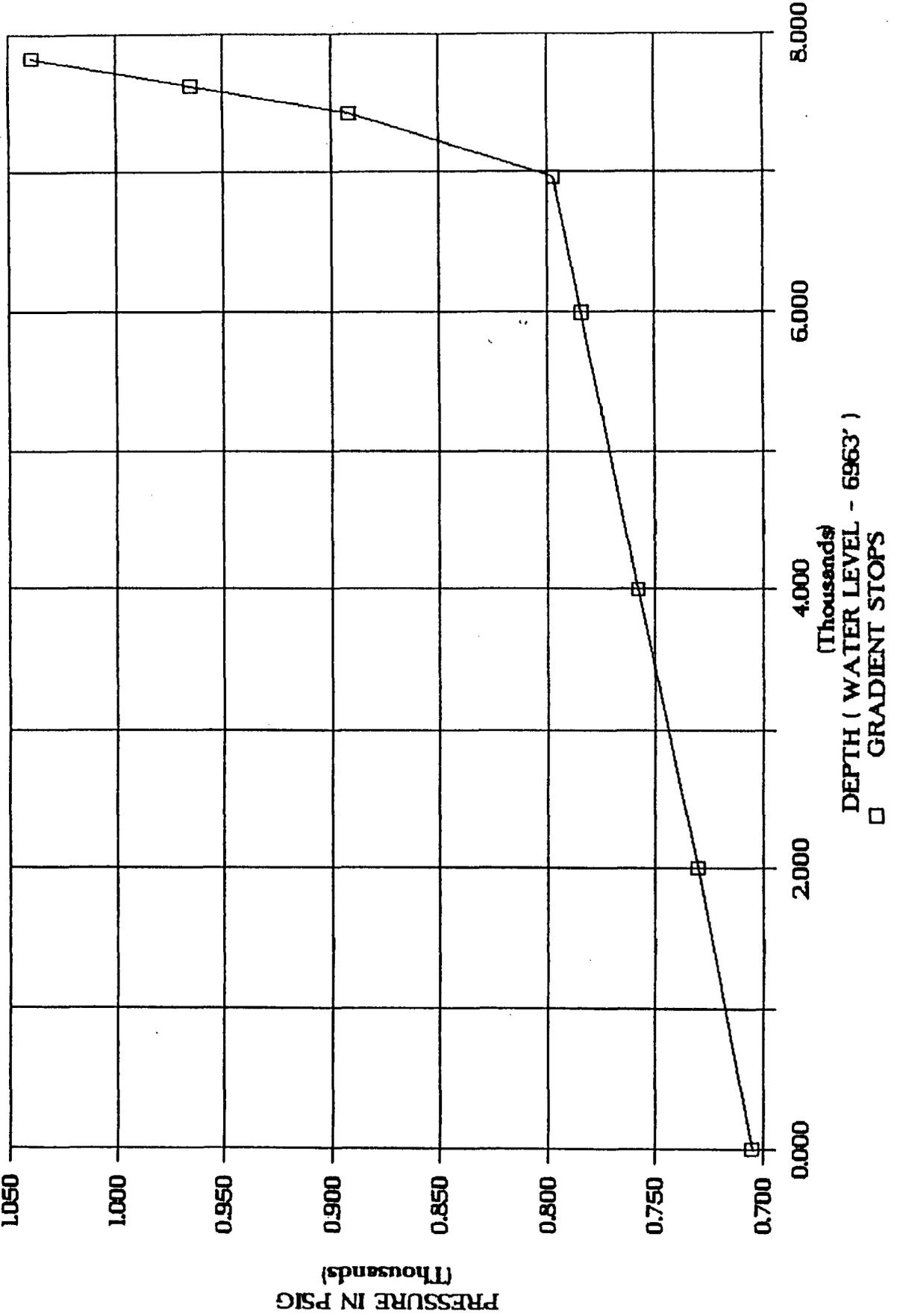


Exhibit 3.2

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 = $\frac{\text{Lower zone rate}}{\text{Commingled rate}}$
 - Upper zone allocation = $(\text{Commingled rate} - \text{Lower zone rate}) / \text{Commingled rate}$

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.