JV,TE	9/29/99	SUBPENSE 10/19/99 ENGINEER DC LOODED BY KV TYPE DHC
•		ABOVE THES LINE FOR DIVISION USE ONLY
		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 2040 South Pacheco, Santa Fe, NM 87505
	l.	ADMINISTRATIVE APPLICATION COVERSHEET
TH	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
Appli	[PC-Poo	ms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] whole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] of Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase] [fied Enhanced Oil 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
	Chec [B]	k One Only for [B] or [C] Commingling - Storage - Measurement X DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2]	NOTIFICAT [A]	FION 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] **INFORMATION / DATA SUBMITTED IS COMPLETE - Certification**

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. I understand that any omission of data (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.

Olipt Untehinger	Chief 1. Hutchison		•
Clint Hutchinson	Mater L. Nulchuson	Reservoir Engr.	9/28/99
Print or Type Name	Signature	Title	Date

DISTRICT I P.O. Box 1980. Hobbs, NM 88241-1980 DISTRICT II 811 South First St., Artesia, NM 88210-2835 DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410-1693	Energy, Minerals and Natur OIL CONSERVA 2040 S. 1 Santa Fe, New Me	State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Mexico 87505-6429 PLICATION FOR DOWNHOLE COMMINGLING		
Phillips Petroleum Compar	ıy 5525	5 Hwy. 64, Farmington,	NM 87401	
Operator	Addres	18		
San Juan 30-5 Unit	71M D,	Sec. 22 30N, 5W	Rio Arriba	
Lesse OGRID NO. 017654 Property Code		· · · · · · · · · ·	County Unit Lease Types: (check 1 or more) (, State , (and/or) Fee	
	009230 Arr No0		<u> </u>	
The following facts are submitted in	Upper	Intermediate	Lower	

support of downhole commingling:	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	a. ^(Current) 1030 (est)	8.	a. 1264
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b.^(Original) 1294 (est.)	b.	ь. 3142
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)	Date: estimated Rates: 300 mcfd	Date: Rates:	Dete: 8/31/99 Rates: 554 mcfd
8. Fixed Percentage Allocation Formula -% for each zone	Oid: 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.

X Yes X No X Yes No X Yes No 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?

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

ORDER NO(S).

X 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?	<u> Yes 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. luton h- Atu

S	IG	N	۸	T	UR

_______ TITLE <u>Reservoir Engr.</u>______ DATE ______9/28/99

R-10770

TYPE OR PRINT NAME _____ Clint Hutchinson

_ TELEPHONE NO. (505) 599-3423

O. Drawer DD. ISTRICT III DOO Rio Brazos ISTRICT IV O Box 2088, Sa	Rd., Aztec,			_	1.0. DOX	Resources Departm DN DIVISION _R 2088 7504–2088 REAGE ^C DED	Submit CEIVED BLM	to Approp State Fee	structions on bac riate District Office Lease - 4 Copies Lease - 3 Copies MENDED REPORT
¹ AP	'I Number			Pool Code	T		Pool Nam		
				71599	В	asin Dakot	a'		
⁴ Property	1				^e Property SAN JUAN				• Well Number 71M
009258					Operator				* Elevation
				PI	-	EUM COMPANY			6493'
017654	4								0435
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	Location North/South line	Feet from the	East/West lin	ae County
D	22	30-N	5-W		824	NORTH	795	WEST	RIO ARRIBA
		l	¹¹ Dott	om Hole	Location I]
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West li	e County
D		-						-	
Dedicated Acr	es ¹³ Joint	or Infill 14	Consolidatio	n Code ¹⁶ 0	rder No.	L			
320 W/2 NO ALLOW	I		U						I CONSOLIDATED
	-/		ION-STA / N 89-45 E			EN APPROVED			
-							1		CERTIFICATION
824				1				• •	of my knowledge and belief
795'					1		8		
0		ł		1					
0		١							
		۱ 	L						
0		SF-0	L 78739					A AV	Ored
0		SF-0	L 78739						
0		SF-0	L 78739				Richa	ard All:	
		SF-0	L 78739				Richa Printed Nam	ard All:	red
	~	SF-0	L 78739				Richa Printed Nau Drill Title	ard All: me Ling Sup	red
		SF-0	L 78739	/ / / /			Richa Printed Nau Drill Title	ard All:	red
		SF-0	L 78739 L 2	22			Richa Printed Nau Drill Title Jl Dete	ard Alls me Ling Sup -23-98	red v
		SF-0	L ⁷⁸⁷³⁹ L 2	22			Richa Printed Nau Drill Title Jl- Dete 16 SUF	ard Alls me 23-98 RVEYOR C	red perintendent ERTIFICATION
		SF-0	L ⁷⁸⁷³⁹ L 2	22			Richa Printed Naz Drill Title Jl- Dete 18 SUF I hereby certify was plotted fro	ard Alls ne Ling Sup 23-98 EVEYOR C. 1 that the well lo m field notes of	red perintendent ERTIFICATION callon shown on this plat actual surveys made by me
		SF-0	L 78739 L 2				Richa Printed Naz Drill Title Jl- Dete 18 SUF I hereby certify was plotted fro	ard Alls ne Ling Sup -2398 RVEYOR C. y that the woll lo m field notes of apervision, and H	red perintendent ERTIFICATION callon shown on this plat
		SF-0	L 78739 L 2	22			Richa Printed Naz Drill Title Jl- Dete 18 SUF / hereby certify was plotted fro or under my an	ard Alls ne Ling Sup -2398 RVEYOR C. y that the woll lo m field notes of apervision, and H	red perintendent ERTIFICATION callon shown on this plat actual surveys made by me
		SF-0	L ⁷⁸⁷³⁹ L 2				Richa Printed Naz Drill Title J1 Date 16 SUF I hareby certify was plotted fro or under my an correct to the b	ard Alls me Ling Sup -2398 EVEYOR C. that the woll lo m field noise of apervision, and the set of my ballet ROY A.	red perintendent ERTIFICATION callon shown on this plat actual surveys made by me
		SF-0	2 ⁷⁸⁷³⁹ 2 2				Richa Printed Naz Drill Title Jl- Dete 16 SUF / hereby certify was plotted fro or under my an correct to the b	ard Alls ne Ling Sup -2398 EVEYOR C. that the well to m field notes of apervision, and the east of my balls apervision, and the rest of my balls apervision and the rest of my balls approximation of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest	red perintendent ERTIFICATION callon shown on this plat actual surveys made by me
	 	SF-0	2 ⁷⁸⁷³⁹ 2				Richa Printed Naz Drill Title Jl Dete 16 SUF / hereby certify was plotted fro or under my an correct to the b Date of Syrr Signature	ard Alls me Ling Sup -2398 EVEYOR C. that the woll lo m field noise of apervision, and the set of my ballet ROY A.	red perintendent ERTIFICATION callon shown on this plat actual surveys made by me
		SF-0	2 78739 2 2				Richa Printed Naz Drill Title Jl Dete 16 SUF / hereby certify was plotted fro or under my an correct to the b Date of Syrr Signature	ard Alls ne Ling Sup 23-98 EVEYOR C that the well lo m field notes of spervision, and the ert of my stick BOY A Social Profession Boy A BOY A	ERTIFICATION cation shown on this plat actual surveys made by me had the some is brue and
		SF-0	2 ⁷⁸⁷³⁹ 2				Richa Printed Naz Drill Title Jl Dete 16 SUF / hereby certify was plotted fro or under my an correct to the b Date of Syrr Signature	ard Alls ne Ling Sup -2398 EVEYOR C. that the well to m field notes of apervision, and the east of my balls apervision, and the rest of my balls apervision and the rest of my balls approximation of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest of the rest	red <u>perintendent</u> ERTIFICATION cation shown on this plat actual surveys made by me had the some is true and the some is true and
	· · ·	SF-0	2 78739 2				Richa Printed Naz Drill Title Jl Dete 16 SUF / hereby certify was plotted fro or under my an correct to the b Date of Syrr Signature	Ard Alls me Ling Sur -23-98 EVEYOR C. A that the soell lo m field notes of apervision, and fi erer of my take ROY A. BOY A.	red <u>perintendent</u> ERTIFICATION cation shown on this plat actual surveys made by me had the some is true and the some is true and

D 22 30 UL or lot no. Section Tow D Dedicated Acres 1 ¹³ Joint or Inf 320 W/2 I NO ALLOWABLE WILL	Yownship 30-N 11 Bott Yownship Range	*Pool Cod 7231 P Lot Idn Lot Idn Lot Idn on Code #0 D TO TH ANDARD	e 9 SAN JL Oper PHILLIPS PE 10 Surfa Feet from 824 Peet Locatio Feet from 0rder No.	Blanc berty Name JAN 30-5 rator Name TROLEUM ICE LOCA the North on If Diff the North	Ciù co Mesa UNIT COMPANY ition h/South line NORTH ferent Fro h/South line	Feet from the 795 OM Surface Feet from the INTERESTS HA	East/West line WEST East/West line	Well Number 71M Elevation 6493' County RIO ARRIBA County
 Property Code 009258 VOCRID No. 017654 UL ar lot no. Section Tow D 22 UL or lot no. Section Tow D D D D D D Interval of the section of the se	30-N 5-W ¹¹ Bott ¹⁰ Bott ¹⁰ Consolidatio U U U DE ASSIGNEI DR A NON-STA	7231 P Lot Idn tom Hole Lot Idn on Code #0 D TO TH ANDARD	9 Proj SAN JL Open PHILLIPS PE 10 Surfa Feet from 824 2 Location Feet from 0 Order No. IS COMPLI UNIT HAS	AN 30-5 rator Name TROLEUM ACE LOCA the North on If Diff the North	UNIT COMPANY Ation h/South line NORTH ferent Fro h/South line	Feet from the 795 OM Surface Feet from the	East/West line WEST East/West line	71M * Elevation 6493' County RIO ARRIBA County
009258 VOGRID No. 017654 UL ar lot no. Section Tow D 22 30 UL or lot no. Section Tow D "Dedicated Acres "Joint or Inf 320 W/2 I NO ALLOWABLE WILL OR	30-N 5-W ¹¹ Bott ¹⁰ Bott ¹⁰ Consolidatio U U U DE ASSIGNEI DR A NON-STA	P Lot Idn tom Hole Lot Idn on Code #0 D TO TH ANDARD	*Proj SAN JL *Open PHILLIPS PE ¹⁰ Surfa 824 Peet from 824 Peet from Order No. IS COMPLI UNIT HAS	AN 30-5 rator Name TROLEUM ACE LOCA the North on If Diff the North	UNIT COMPANY tion h/South line NORTH ferent Fro h/South line	Feet from the 795 OM Surface Feet from the INTERESTS HA	East/West line WEST East/West line	71M * Elevation 6493' County RIO ARRIBA County
009258 VOGRID No. 017654 UL ar lot no. Section Tow D 22 30 UL or lot no. Section Tow D "Dedicated Acres "Joint or Inf 320 W/2 I NO ALLOWABLE WILL OR	30-N 5-W ¹¹ Bott ¹⁰ Bott ¹⁰ Consolidatio U U U DE ASSIGNEI DR A NON-STA	Lot Idn tom Hole Lot Idn on Code 6 D TO TH ANDARD	SAN JL [•] Oper PHILLIPS PE ¹⁰ Surfa Feet from 824 2 Location Feet from Order No. IS COMPLI UNIT HAS	AN 30-5 rator Name TROLEUM ACE LOCA North In If Diff the North ETION UI	COMPANY tion h/South line NORTH ferent Fro h/South line	795 om Surface Feet from the INTERESTS HA	WEST East/West line	* Elevation 6493' County RIO ARRIBA County
VOGRID No. O 1 76 54 UL ar lot no. Section Tow D 22 30 UL or lot no. Section Tow D "Dedicated Acres "Joint or Inf 320 W/2 I NO ALLOWABLE WILL OR	30-N 5-W ¹¹ Bott ¹⁰ Bott ¹⁰ Consolidatio U U U DE ASSIGNEI DR A NON-STA	Lot Idn tom Hole Lot Idn on Code 6 D TO TH ANDARD	PHILLIPS PE ¹⁰ Surfa Peet from 824 Peet from Peet from Order No. IS COMPLI UNIT HAS	TROLEUM ace Loca the North on If Diff the North ETION U	tion h/South line NORTH ferent Fro h/South line	795 om Surface Feet from the INTERESTS HA	WEST East/West line	6493' County RIO ARRIBA County
UL or lot no. Section Tow D 22 30 UL or lot no. Section Tow D 9 Pedicated Acres 1 ¹³ Joint or Infr 320 W/2 I NO ALLOWABLE WILL OR	30-N 5-W ¹¹ Bott ¹⁰ Bott ¹⁰ Consolidatio U U U DE ASSIGNEI DR A NON-STA	Lot Idn tom Hole Lot Idn on Code 6 D TO TH ANDARD	¹⁰ Surfa Feet from 824 2 Locatio Feet from Order No. IS COMPLI UNIT HAS	the North In If Diff	tion h/South line NORTH ferent Fro h/South line	795 om Surface Feet from the INTERESTS HA	WEST East/West line	County RIO ARRIBA County
D 22 30	30-N 5-W ¹¹ Bott ¹⁰ Bott ¹⁰ Consolidatio U U U DE ASSIGNEI DR A NON-STA	on Code 40	SUFIE Feet from 824 e Locatio Feet from Order No. IS COMPLI UNIT HAS	the North n If Diff the North ETION U	h/South line NORTH ferent Fro h/South line	795 om Surface Feet from the INTERESTS HA	WEST East/West line	RIO ARRIBA
D 22 30	30-N 5-W ¹¹ Bott ¹⁰ Bott ¹⁰ Consolidatio U U U DE ASSIGNEI DR A NON-STA	on Code 40	Feet from 824 E Locatio Feet from Order No. IS COMPLI UNIT HAS	the North n If Diff the North ETION U	h/South line NORTH ferent Fro h/South line	795 om Surface Feet from the INTERESTS HA	WEST East/West line	RIO ARRIBA
UL or lot no. Section Tow D D D D D D D D D D D D D D D D D D D	¹¹ Bott Township Range Infill "Consolidatio U BE ASSIGNEI DR A NON-STA	D TO TH	E Locatio Feet from Order No. IS COMPLIUNIT HAS	If Diff	ferent Fro b/South line NTIL ALL	om Surface Feet from the	East/West line	County
D Dedicated Acres 320 W/2 I NO ALLOWABLE WILL OR 16	infill "Consolidatio U BE ASSIGNEI DR A NON-STA	D TO TH	Feet from Order No. IS COMPLIUNIT HAS	ETION U	h/South line NTIL ALL	Feet from the	VE BEEN O	
D Dedicated Acres 320 W/2 I NO ALLOWABLE WILL OR 16	infill "Consolidatio U BE ASSIGNEI DR A NON-STA	D TO TH	Feet from Order No. IS COMPLIUNIT HAS	ETION U	NTIL ALL	INTERESTS HA	VE BEEN O	
320 W/2 I NO ALLOWABLE WILL OR	U BE ASSIGNEI DR A NON-STA	D TO TH ANDARD	IS COMPL UNIT HAS					CONSOLIDATEI
и 00-02 Е 2280.0, И И		22				I hereby certify true and complete Signature Richard Printed Name Drillin Title 11-23- Date 18 SURV I hereby certify U was plotted from	that the information the to the best of m d Allred and Super 98 EYOR CER hat the well location field notes of actual revision, and that the soft actual for the field notes of actual revision and that the soft Arg	ERTIFICATION on contained herein is up knowledge and beli by intendent TIFICATION on shown on this plat al surveys made by m the same is true and the same is true and



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 #71 M

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	17056	November 1999	16283
December 1999	16600	January 2000	16374
February 2000	15117	March 2000	15949
April 2000	15231	May 2000	15532
June 2000	14834	July 2000	15129
August 2000	14930	September 2000	14262

For example, if the total volume for November 1999 were 26,083, then the Dakota would be allocated 16,283 mcfd and the Mesaverde 9,800 mcf. And subsequently, the Dakota would be allocated (16,283/26,083) or 62.43 % and the Mesaverde would be allocated (9,800/26,083) or 37.57%.

Sincerely,

PHILLIPS PETROLEUM COMPANY

Cliston h. Authinon

Clint Hutchinson Reservoir Engineer

CH/pc

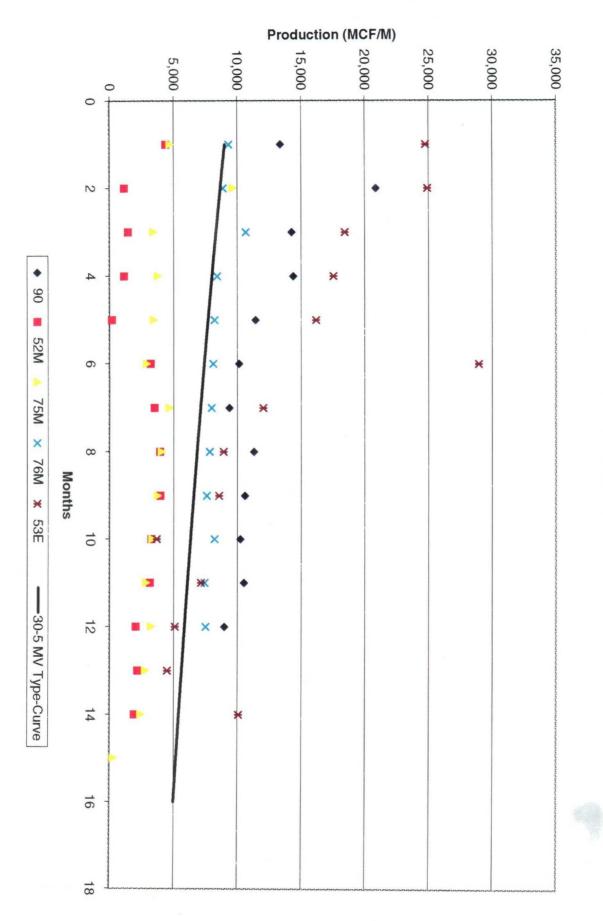
cc: OCD - Aztec BLM - Farmington NM Commissioner of Public Lands - Santa Fe

Year	Month	Gas (MCF)
Oct-99	1	17056
Nov-99	2	16283
Dec-99	3	16600
Jan-00	4	16374
Feb-00	5	15117
Mar-00	6	15949
Apr-00	7	15231
May-00	8	15532
Jun-00	9	14834
Jul-00	10	15129
Aug-00	11	14930
Sep-00	12	14262
Oct-00	13	14548
Nov-00	14	13898
Dec-00	15	14178
Jan-01	16	13995
Feb-01	17	12486
Mar-01	18	13656

Dakota Production Forecast for 30-5 Unit Well #71M

Initial Rate 554 MCF/D

•



•. •.

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 # 71M FORMATION: DAKOTA

TYPE TEST: STATIC GRADIENT

1100

1040

COUNTY: RIO ARRIBA STATE: NEW MEXICO

••,,

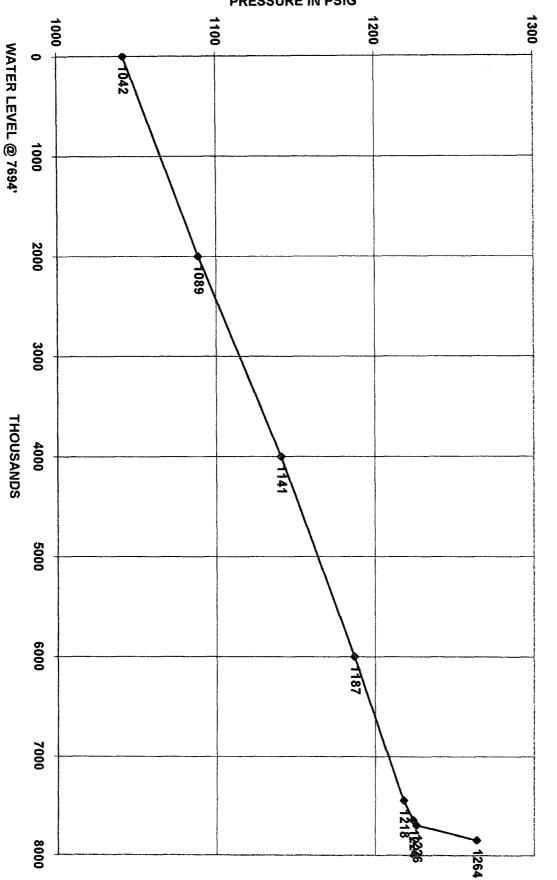
TOTAL DEPTH: 7959 CASING PRESSURE: PERFS: M.P. @ 7862' TUBING PRESSURE: TUBING SIZE: 2 3/8 TO 7874' OIL LEVEL: CASING SIZE: WATER LEVEL: 7694' PACKER: TEMPERATURE: ELEMENT NO. OTHER: 1.81 FN @ 7843' RAN PRESSURE @ 11:00 ELEMENT RANGE 0 TO 3000

WELL STATUS: SHUT IN

DEPTH IN	PRESSURE	GRADIENT
FEET	PSIG	PSI/FOOT
0	1042	
2000	1089	0.024
4000	1141	0.026
6000	1187	0.023
7443	1218	0.022
7643	1224	0.030
7843	1264	0.200

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 # 71M DATE: SEPTEMBER 21, 1999

PRESSURE IN PSIG

•:,

٠.

M2Y67-01	PARPI - WELLZONE PRO MONTHLY TO		Date: 9/23/99 User: #W9R
Screen: 1 (1 Type: T (1	0645 01 Yr: 1999 Mth: 06 1-Prod, 2-Inj, 3-Both) F-Total, D-Daily Avg) M-Monthly, Y-Yearly, C-Cumm)	Well No: 00007	1M 2 BASIN
ADJ FLG DATE * 1999-06 * 1999-07	PRODUCED - OIL (BBL) GAS (MCF 0.00 15,10 0.00 17,40	8 118	DAYS WELL - PROD OP ST CL TY 29.00 28 11 03 2 31.00 31 11 03 2

NO	MORE	DATA	AVAILABLE		
PA:	1=ICE		PF1=Help	PF3=End	
			PF7=Backward	PF8=Forward	

PF10=Next Well PF11=Prev Well 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)

. -r

- 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