Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

BUREAU OF 1	LAND MANAGEMENT	5. Lease Designation and Serial No.
	ND REPORTS ON WELLS	SF-078281
Do not use this form for proposals to drill	or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Tribe Name
Use "APPLICATION FOR	PERMIT - " for such proposals	
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well		San Juan 29-5 Unit
Oil X Gas Well Other		8. Well Name and No.
2. Name of Operator Phillips Petroleum Company		SJ 29-5 Unit #74
3. Address and Telephone No.		9. API Well No.
5525 Highway 64, NBU 3004, Fa	armington, NM 87401 505-599-3454	30-039-21029
4. Location of Well (Footage, Sec., T., R., M., or Survey De	escription)	10. Field and Pool, or exploratory Area
Unit L, 1450' FSL & 840' FWL		Blanco Mesaverde
Section 17, T29N, R5W		11. County or Parish, State
		Rio Arriba, NM
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, (
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other Add pay & Stimulate	Dispose Water
	Transpay or Commentato	(Note: Report results of multiple completion on Well
The abovementioned well was per	pertinent details, and give pertinent dates, including estimated date of starting cal depths for all markers and zones pertinent to this work.)* forated in the Lewis Shale zone of the r the details on perfs and stimulation	e Blanco Mesaverde
		97 6

Title Regulatory Assistant (This space for Federal of State office use) Approved by MAR 05 1997 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States and Company of the Uni

San Juan 29-5 #74 SF-078281; 1450' FSL & 840' FWL Section 17, T29N, R5W; Rio Arriba County, NM

Procedured used to add the Lewis Shale pay to existing Mesaverde formation and stimulate.

2/18/97

MIRU Big A #18. ND WH & NU BOPs. Test-Good. COOH w/2-3/8" production tubing. RU Bluejet & RIH w/RBP & set @ 4750'. Dumped 2 sx sand on top of RBP. COOH. PT RBP & casing. Good test. GIH & perf'd 1 spf 120° phasing as follows:

4665'-4670'	=	5'	=	5 holes
4598'-4603'	=	5'	=	5 holes
4535'-4545'	=	10'	=	10 holes
4452'-4457'	=	5'	=	5 holes
4315'-4320'	=	5'	=	5 holes
4280'-4290'	=	10'	=	10 holes
<u>4265'-4275'</u>	=	<u>10'</u>	=	10 holes
TOTALS		50'	=	50 HOLES

RIH w/4-1/2" Baker "C-1" Packer & set @ 4188'. Load casing w/2% Kcl & PT - Good. RU BJ and acidized with 1000 gal. of 15% Hcl Acid w/75 ball sealers. Balled off @ 5600 psi. Surged off balls. Released packer and knocked balls off. RU N_2 frac & flowback lines. BJ frac'd as follows:

75,000 gal of 2% Kcl water w/30# gel. 215,520 # 20/40 AZ sand 869,000 scf N_2 w/50% quality foam Sand ramped 1 to 6 ppg. Treating pressure Max-5600#, min. 5200#, avg. 5450#. Inj. rate 20 bpm, ISDP 3000#.

Immediate flowback for forced closure. Flowed back @ 86hrs on 1/4" choke. COOH Backer C-1 Packer. Clean out wellbore w/N₂. COOH w/4-1/2" RBP. GIH w/2-3/8" production tubing and laned @ 5808'. 4-1/2" Baker R-3 packer @ 4738' and Baker model "L" sliding sleeve @ 4183', blast jts to cover Lewis perfs @ 4185'-4738'. ND BOPs & NU WH. Opened sliding sleeve. RD & MO Big A 18 @ 2/26/97. Turned well back over to production department.

295#74ls.prc

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR RUPEAU OF LAND MANAGEMENT

FORM APPROVED

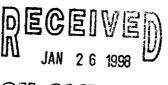
Budget Bureau No. 1004-0135 Expires: March 31, 1993

DIDDLIL	• · • • • · · · · · · · · · · · · · · ·	Expires. Maich 31, 1993
BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.
SUNDRY NOTICES A	ND REPORTS ON WELLS	SF-078281
	or to deepen or reentry to a different reservoir.	6. If Indian, Allottee or Tribe Name
Use "APPLICATION FOR	PERMIT - " for such proposals	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well		San Juan 29-5 Unit
Oil X Gas Other	,	8. Well Name and No.
2. Name of Operator		
Phillips Petroleum Company	•	SJ 29-5 Unit #74
3. Address and Telephone No.		9. API Well No.
•	ham Ally 07401 - 505 500 0454	30-039-21029
5525 Highway 64, NBU 3004, Farming4. Location of Well (Footage, Sec., T., R., M., or Survey De	ton, NM 87401 505-599-3454	10. Field and Pool, or exploratory Area
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Unit L, 1450' FSL & 840' FWL		Blanco Mesaverde
Section 17, T29N, R5W		11. County or Parish, State
		Rio Arriba. NM
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT	
TYPE OF SUBMISSION		
THE OF SOBMISSION	TYPE OF ACTION	N
Notice of Intent	Abandonment	Change of Plans
<u></u>	Recompletion	New Construction
X Subsequent Report	Plugging Back	
		Non-Routine Fracturing
Final Abandonment Notice	Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	X Other <u>Remove sliding sleev</u>	e Dispose Water
		(Note: Report results of multiple completion on Well
		Completion or Recompletion Report and Log form.)

In February 1997 the Lewis Shale pay was added to the existing Mesaverde interval. A packer and sliding sleeve in the tubing was placed across the Lewis Shale interval for testing. The packer and sliding sleeve were removed as follows:

1/8/9%

MIRU Big A #40. Closed sliding sleeve and set plug-in-"F"-nipple. ND.WH. installed BPV & NU BOPs. Unseat packer and POOH with packer and sliding sleeve. Land tubing @ 5805'. ND BOPs & NU WH. Pull BPV. PT tubing. Pumped off check. RD & MO. Turned well back over to production department.



OIL COM. DIV.

			1
14. I hereby consist that the faregoing is true and confect Signed	TitleRegulatory Assistant	Date 1-12-98	
(This space for Federal or state office use) Approved by Conditions of approval, if any:	Title	Ac Date —	=

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FARMINGTON DISTRICT OFFICE

* See Instruction or Reverse Side

Surm



^{13.} Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

District I

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

BII South First Street, Artesia, NM 88210

District III

District IV

1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

Fixed Allocation Percentage

than current or past production, supporting data or

explanation will be required.)

Oil

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505 APPLICATION TYPE X Single Well

Establish Pre-Approved Pools EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

LE COMMINGLING X Yes

PHILLIPS PETROLEUN	M COMPANY	5525 Hwy. 64, Farmington.	NM 87401
Operator		Address	
San Juan 29-5 Unit	#74	Unit L, Section 17, T29N, R5W	Rio Arriba
Lease	Well No.	Unit Letter-Section-Township-Range	County

OGRID No. 17654 Property Code 0009256 API No. 30-039-21029 Lease Type: X Federal State Fee

DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZONE Pool Name **Basin Fruitland Coal** Blanco Mesaverde Pool Code 71629 72319 Top and Bottom of Pay Section Est. Apprx. 3302' - 3424' 4275' - 5778' (Perforated or Open-Hole Interval) Method of Production **Flowing** Flowing (Flowing or Artificial Lift) Bottomhole Pressure

Note: Pressure data will not be required if the CENTED CONS. ON. n perforation in the lower zone is within 150% 1200 psi (est.) 500 psi of the depth of the top perforation in the upper zone) Oil Gravity or Gas BTU (Degree API or Gas BTU) 950 BTU 1150 BTU Producing, Shut-In or New Zone New Zone **Producing** Date and Oil/Gas/Water Rates of Last Production. Date: **New Zone** Date: Date: 5/23/02 applicant shall be required to attach production estimates and supporting data.) Rates: Rates: Rates: 110 mcfd & 1 bwpd, 1 bopd

NOTE: We will be utilizing the subtraction method on this well until we can establish a good fixed allocation percentage. See attached letter of explanation within application.

Gas

Oil

%

Gas

%

Oil

Gas

ADDITIONAL DATA

Yes NoX Yes_XNo
Yes X No
Yes No_X_
YesX No

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE						
SIGNATURE Prad	Keleson	_TITLE _	Reservoir Engineer	_DATE	June 11, 2002	
TYPE OR PRINT NAME	Brad Peterson	TELEPH	HONE NO. <u>(505)</u> 599-	<u>3486</u> ε	e-mail- btpeter@ppco.com	

June 12, 2002

New Mexico Oil & Gas Conservation Div. 1220 South St. Francis Drive Sante Fe, New Mexico 87504

> Application for Downhole Commingling On the San Juan 29-5 # 74

Dear Sirs,

Phillips Petroleum is proposing to commingle the Fruitland Coal and Mesaverde formations on the San Juan 29-5 # 74 (Reference Case No. R-10770). Currently the Mesaverde is producing independently 110 MCFD. Pending commingle approval, the Fruitland Coal will be completed. The Fruitland Coal will be tested for 4-6 months before commingling it with the Mesaverde.

A production forecast has been determined from stabilized Mesaverde production. After the zones are commingled, Phillips Petroleum is proposing to utilize the subtraction method for 24 months or until Fruitland Coal production stabilizes before a ratio between the Fruitland Coal and Mesaverde is established.

Future Fruitland Coal water and gas production were estimated by examining offset low rate Fruitland Coal wells. A gas rate inclining to 200 mcfd within six months of completion and an initial water rate of 2 bwpd were determined.

Economics for commingling the Fruitland Coal with the Mesaverde and for drilling a new well to complete the Fruitland Coal show completing the Fruitland Coal in this area is only economical by completing the Fruitland Coal in existing Mesaverde wells.

Attached is the C-102 and acreage dedication, Mesaverde gas rate vs time plot for the 29-5 # 74 showing the 36 month forecast, a 36 month Mesaverde gas production forecast, estimated Fruitland Coal gas rate vs time plot for the 29-5 # 74 showing offset production, and economics for commingling the Fruitland Coal with the Mesaverde and drilling and completing the Mesaverde.

Sincerely,

PHILLIPS PETROLEUM

Brad Peterson Reservoir Engineer

cc:

OCD - Aztec

BLM – Farmington

NM Commissioner of Public Lands – Sar.ta Fe

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102

Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

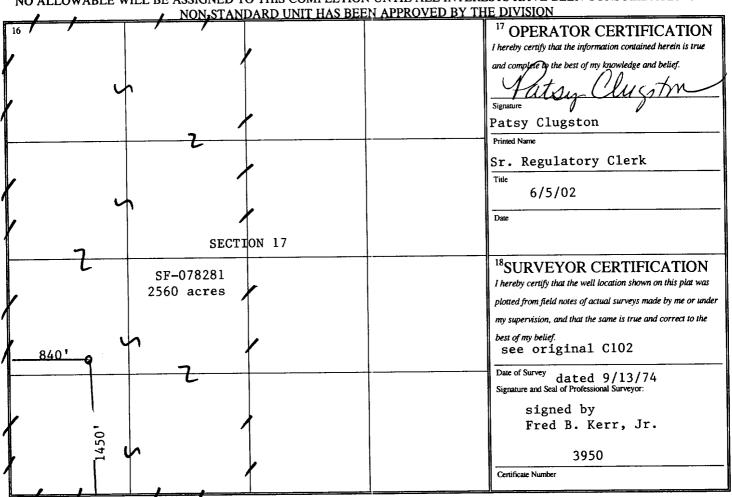
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 1 API Number Pool Code Basin Fruitland Coal 30-039-21029 71629 Well Number ⁵ Property Name ⁴ Property Code 74 San Juan 29-5 Unit 009256 ⁹ Elevation Operator Name OGRID No. 65621 PHILLIPS PETROLEUM COMPANY 017654

10 Surface Location East/West line Lot Idn Feet from the North/South line Feet from the County Township Range UL or lot no. Section 5W 29N 8401 ≀io Arriba 17 1450' South West

¹¹ Bottom Hole Location If Different From Surface East/West line County Lot Idn Feet from the North/South line Feet from the UL or lot no. Section Township Range 14 Consolidation Code 15 Order No. Joint or Infill 12 Dedicated Acres Y 320 W/2

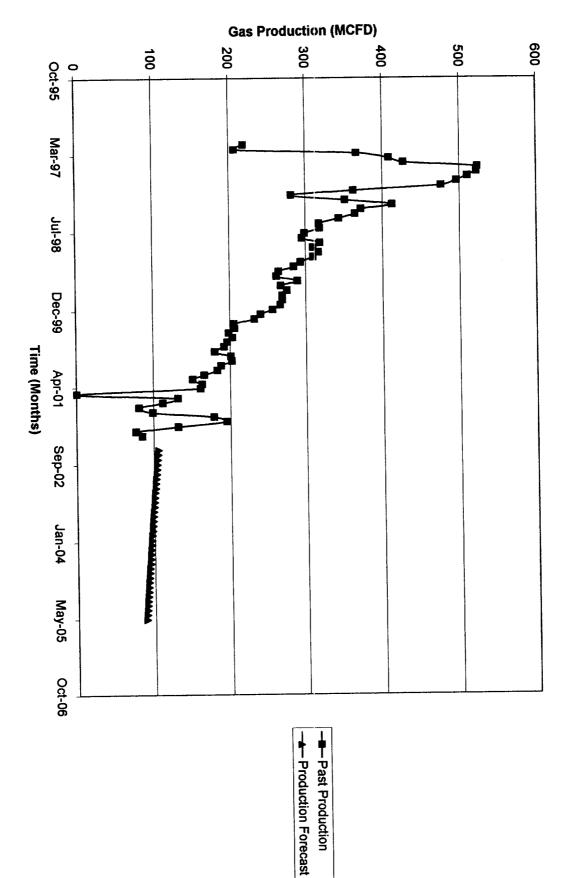
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A



Form C-102 Supersedes C-128 Effective 14-65

All distances must be from the outer boundaries of the Section.

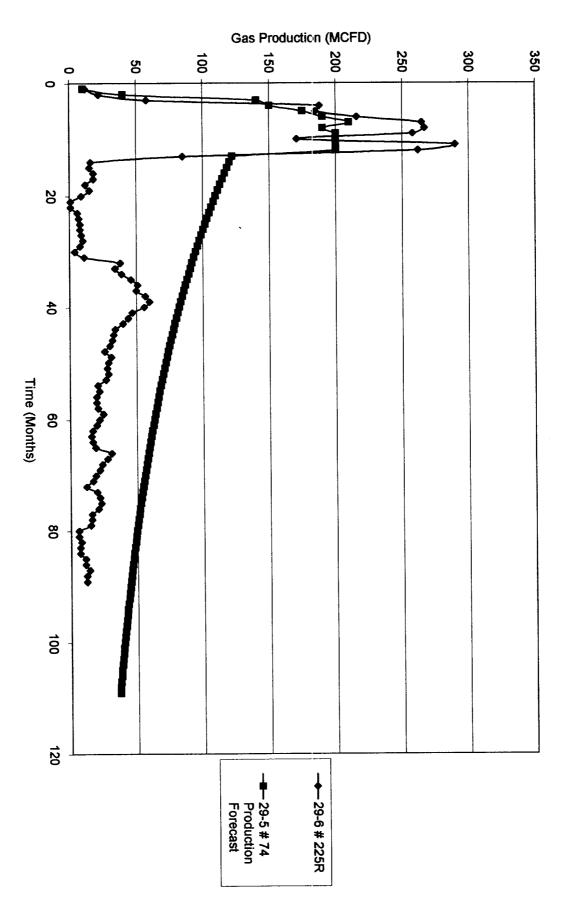
Northwest Pipeline Corporation San Juan 29-5 Unit 10	Northwest Pipeline Corporation San Juin 29-5 Unit The count Section Section Section Section Section Section Township The treatment of West The count	Operator			Lea	se	···		Well No.
Description	Section Township Force County Flat Township Flat Township T	· · · · · · · · · · · · · · · · · · ·						74	
Section Procession of Wells South Inno and Sho Inno the South Inno and Sho Inno Inno and Sho Inno Inno and Sho Inno Inno and Sho Inno Inno and In	Second S			Township			1		
1.150 test from the South The and Sho Second Lyre Elev. Poster production from the post Blanco Mesa Verde Blanco Mesa Verde Blanco Mesa Verde 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different cownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling-etc? Yes No If answer is "yes," type of consolication If answer is "no," list the gavego and royal descriptions which have actually been consolidated. (Use reverse side on this form if necessary.) 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, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained have been consolidated. Name of the position of the well unit all interests have been consolidated (by communitization, unitization 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 contained have been consolidated. Name of the position of the well unit all incommends and the second of the well unit all incommends and the second of the well unit all incommends and the second of the well unit all incommends and the second of the well unit all incommends and the second of the well unit all incommends and the second of the second of the well unit all incommends and the second of the second o	1.50 test from the SOuth time and ShO test from the West time 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both 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? 1. Yes XX No If answer is "yes," type of consolication If answer is "no," list the owners and truct descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) 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, eliminating such interests, has been approved by the Commission. CERTIFICATION 1 hereby certify that the information consolidated for the informati			29N		5W	Rio A	rriba	
Decision Production Production Post Production	Designment Fermetten Meas Verde		0	.41.		ın .	W	est.	11
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both 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? Yes XINO If answer is "yes," type of consolication If answer is "no," list the awners and tract descriptions which have actually been consolidated. (Use reverse side on this form if necessary.) 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, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information continued for the production and the production and the plant was platted from the nates of deuty and the plant was platted from the nates of actual plant of the pooling of the production of the pr	Sec Mosa Verde Blanco Mesa Verde 320 Acres		Teet trom the				t from the W		
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Sec 17 SF 078281 Sec 17 Sec 18 Sec 17 Sec 18 Sec 17 Sec 18 Sec	Sec 17 SF 078281 Sec 17 Sec 18 Sec 17 Sec 17 Sec 18 Sec 17 Sec 18 Sec 17 Sec 18 Sec 17 Sec 18 Sec 18 Sec 17 Sec 18 Sec 17 Sec 18 Sec 18 Sec 18 Sec 19 Sec 18 Sec 19 Sec	If answer this form in No allowa forced-poor	is "no," list the if necessary.) No If a	owners and tract dw 1/4 SW 1/4 Sw	e of co	ions which have a , T29N, R5W terests have been	consolidate	d (by communi	tization, unitization,
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Authorization, O.B. Whitenburg Position Drilling & Production Eng Company Northwest Pipeline Corp. Date September 20, 1974 Sec 17 I hereby certify that the well location shown on this plate was platted from the motes of actual surveys made by me under my supervision, and that the sails true and correct to the best of a knowledge and belief. Date Surveyed September 13, 1771 Registered Professional Englisher and/or Land Surveyor and/or Land Survey	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name of the best of my knowledge and belief. Name of the best of my knowledge and belief. Name of the best of my knowledge and belief. Name of the best of my knowledge and belief. Position Drilling & Production Eng. Company Northwest Pipeline Corp. Date September 20, 1974 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 knowledge and belief. Date Surveyed September 13, 1974 Registered Professional Conductives and/or Land Surveyor. Fred B. Kerr Jr. Certificate No. 3950	81011.						CE	PTIFICATION
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September 13, 1974 Registered Professional Engineer and/or Land Surveyor Fred B. Kevr Jr. Certificate No.	September 13, 1974 Registered Professional Engineer and/or Land Surveyor Fred B. Kerr Jr. Certificate No. 3950		1 			 		shown on this notes of actu under my sup- is true and	plat was plotted from field all surveys made by me or ervision, and that the same correct to the best of my
1 20EU 1 20EU	0 330 660 90 1320 1650 1980 2310 2640 2000 1500 1000 500 0 1 3730	1).50						September Registered Pro- and/or Land Su Fred B. 1 Certificate No.	lessional Engineer



29-5 # 74 Mesaverde Production and Forecast

29-5 # 74 Mesa Verde Production Forecast

			Monthly Volume
Month	Year	(MCFD)	(MMCF)
6	2002	106.64	106.91
7	2002	106.09	106.36
8	2002	105.55	105.82
9	2002	105.01	105.28
10	2002	104.48	104.74
11	2002	103.95	104.21
12	2002	103.42	103.68
1	2003	102.9	103.16
2	2003	102.38	102.64
3	2003	101.87	102.12
4	2003	101.36	101.61
5	2003	100.85	101.11
6	2003	100.35	100.6
7	2003	99.85	100.1
8	2003	99.36	99.6
9	2003	98.87	99.11
10	2003	98.38	98.62
11	2003	97.89	98.14
12	2003	97.41	97.65
1	2004	96.94	97.18
2	2004	96.46	96.7
3	2004	95.99	96.23
4	2004	95.53	95.76
5	2004	95.06	95.3
6	2004	94.61	94.83
7	2004	94.15	94.38
8	2004	93.7	93.92
9	2004	93.25	93.47
10	2004	92.8	93.02
11	2004	92.36	92.58
12	2004	91.92	92.14
1	2005	91.48	91.7
2	2005	91.04	91.26
3	2005	90.61	90.83
4	2005	90.19	90.4
5	2005	89.76	89.97
6	2005	89.34	89.55



29-5 # 74 Production Forecast for Fruitland Coal

29-5 # 74 Fruitland Coal Completion Economics

	Commingle with Mesaverde Case	New Drill Case
Rate of Return	33.8%	-3.0%
Payout	2.2 years	Never
Net Present Value at 13%	\$60,100	- \$186,500
Capital Outlay	\$129,500	\$421,000
Net Investment/Barrel of Oil Equivalent	\$3.47	\$11.27

The economics were ran using the same production forecast for the Fruitland Coal. Economics assumed the well would be fraced for both cases.