

District I
1625 N. French Drive, Hobbs, NM 88240

District II
811 South First Street, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A
Revised May 15, 2000

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

PHILLIPS PETROLEUM COMPANY

5525 Hwy. 64, Farmington, NM 87401

Operator

Address

San Juan 29-6 Unit

#68

Unit A, Section 29, T29N, R6W

Rio Arriba

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 17654 Property Code 0009257 API No. 30-039-07547 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 (Perforated or Open-Hole Interval)	Est. Apprx. 2986' - 3058'		4085' - 5478'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	800 psi (est.)		500 psi
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1100 BTU		1150 BTU
Producing, Shut-In or New Zone	New Zone		Producing
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: New Zone Rates:	Date: Rates:	Date: 5/23/02 Rates: 80 mcf/d & 1 bwpd, 1 bopd
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas ** / **	Oil Gas % %	Oil Gas ** / **

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.

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes _____ No ☒
Yes ☒ No _____

Are all produced fluids from all commingled zones compatible with each other?

Yes ☒ No _____

Will commingling decrease the value of production?

Yes _____ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

Yes ☒ No _____

NMOCD Reference Case No. applicable to this well: R-11187

Attachments:

- 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 working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

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 Brad Peterson TITLE Reservoir Engineer DATE June 6, 2002

TYPE OR PRINT NAME Brad Peterson TELEPHONE NO. (505) 599-3486 e-mail- btpeter@ppco.com



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

June 11, 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 29-6 # 68

Dear Sirs,

Phillips Petroleum is proposing to commingle the Fruitland Coal and Mesaverde formations on the San Juan 29-6 # 68 (Reference Case No. R-11187). Currently the Mesaverde is producing independently 80 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. An initial gas rate of 220 mcf/d 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 29-6 # 68 showing the 36 month forecast, a 36 month Mesaverde gas production forecast, estimated Fruitland Coal gas rate vs time plot for the 29-6 # 68 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 – Santa Fe

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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 30-039-07547	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 009257	⁵ Property Name San Juan 29-6 Unit	⁶ Well Number 68
⁷ OGRID No. 017654	⁸ Operator Name PHILLIPS PETROLEUM COMPANY	⁹ Elevation 6289'

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
A	29	29N	6W		1170'	North	1090'	East	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
A									

¹² Dedicated Acres 320 E/2	¹³ Joint or Infill Y	¹⁴ Consolidation Code U	¹⁵ Order No.
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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

16					17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Patsy Clugston</i> Signature Patsy Clugston Printed Name Sr. Regulatory Clerk Title 6/5/02 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. see original dated 1/23/1961 signed by Date of Survey Signature and Seal of Professional Surveyor: David Ol Vilven Certificate Number	

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Definition Plat

Section A.

Date **FEBRUARY 17, 1961**

Operator **EL PASO NATURAL GAS COMPANY** Lease **SAN JUAN 29-6 UNIT** NM **03040-A**
 Well No. **68** Unit Letter **A** Section **29** Township **29-N** Range **6-W** NMDM
 Located **1170** Feet From **NORTH** Line, **1090** Feet From **EAST** Line
 County **RIO ARriba** G. L. Elevation **6279** Dedication Acreage **320** Acres
 Name of Producing Formation **MESA VERDE** Pool **BLANCO MESA VERDE**

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?
 Yes ☒ No ☐
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes ☐ No ☐ If answer is "yes", the
3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Described

RECEIVED
FILED
 FEB 21 1961
 U. S. GEOLOGICAL SURVEY
 FARMINGTON, NEW MEXICO
 OIL CON. COM.
 DIST. 3

Section B.

Note: All distances must be from outer boundaries of section.

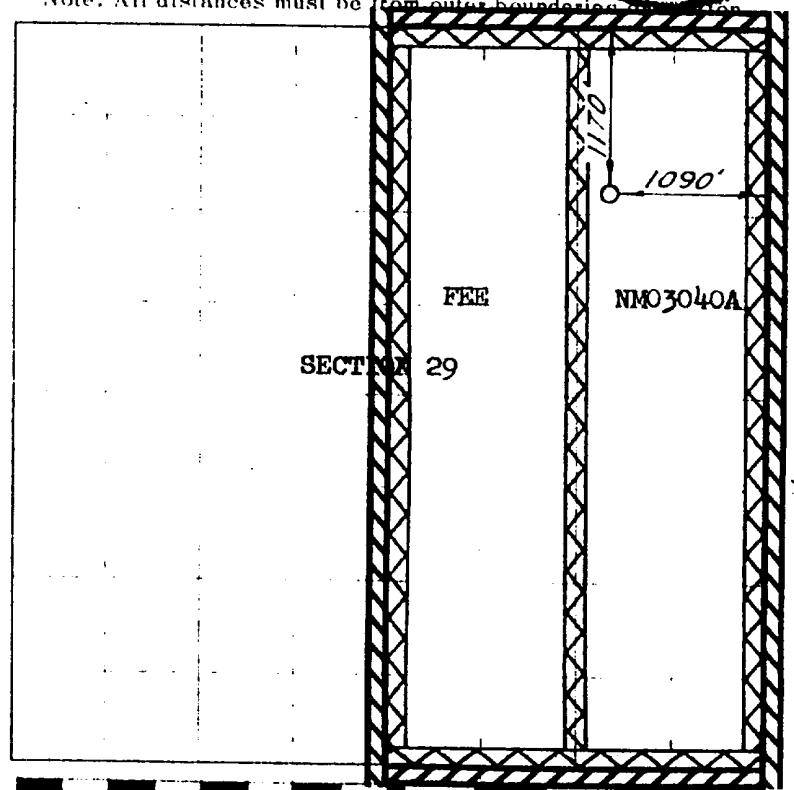
This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

El Paso Natural Gas Company
 (Operator)

Original Signed By: **D.H. Oheim**
 (Representative)

Box 990
 (Address)

Farmington, New Mexico



Scale: 1 inch = 400 feet

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the acreage is true and correct to the best of my knowledge and belief.

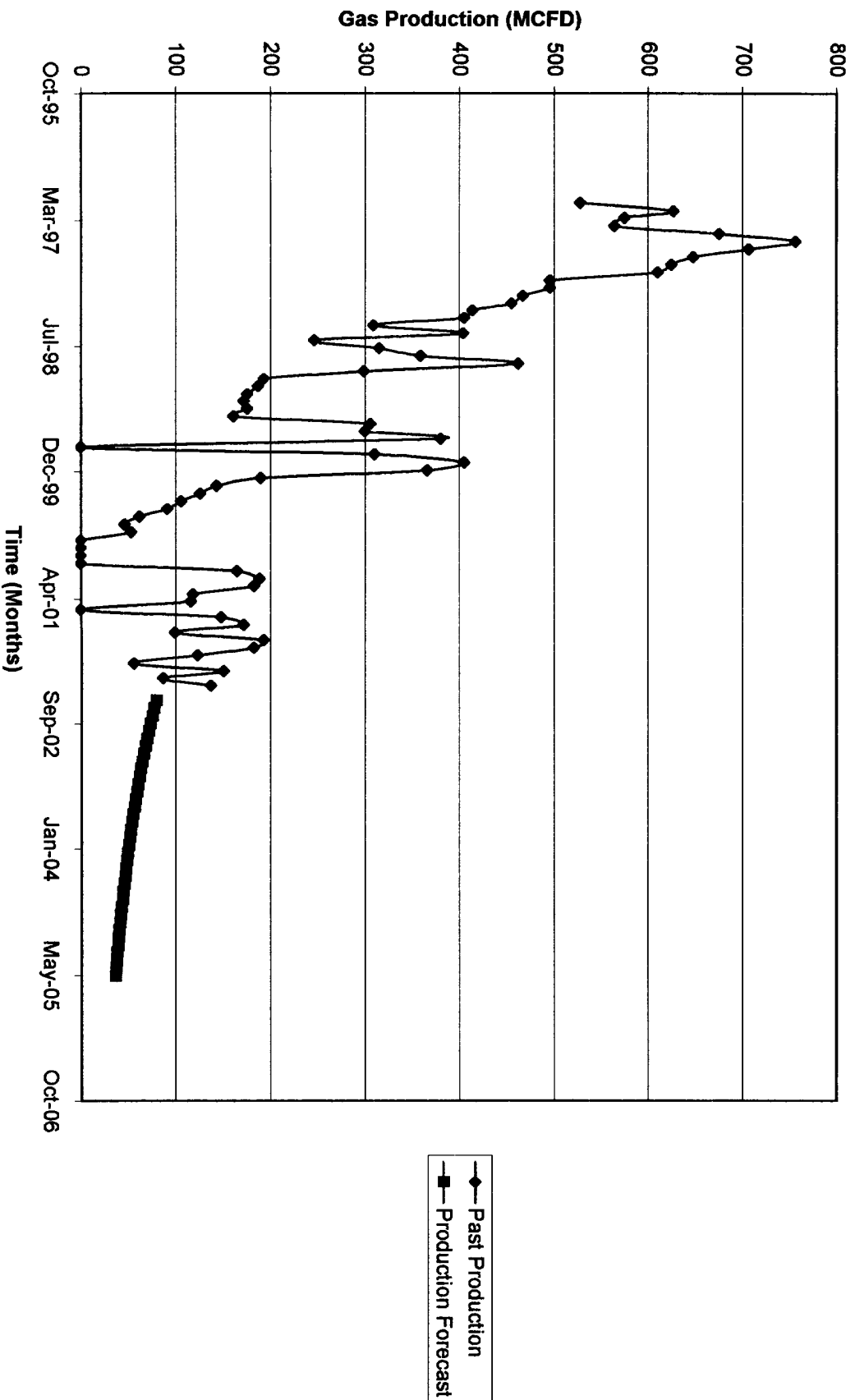
(Seal)

Farmington, New Mexico

Date Surveyed **JANUARY 23, 1961**

David A. Kilmer
 Registered Professional Engineer and/or Land Surveyor

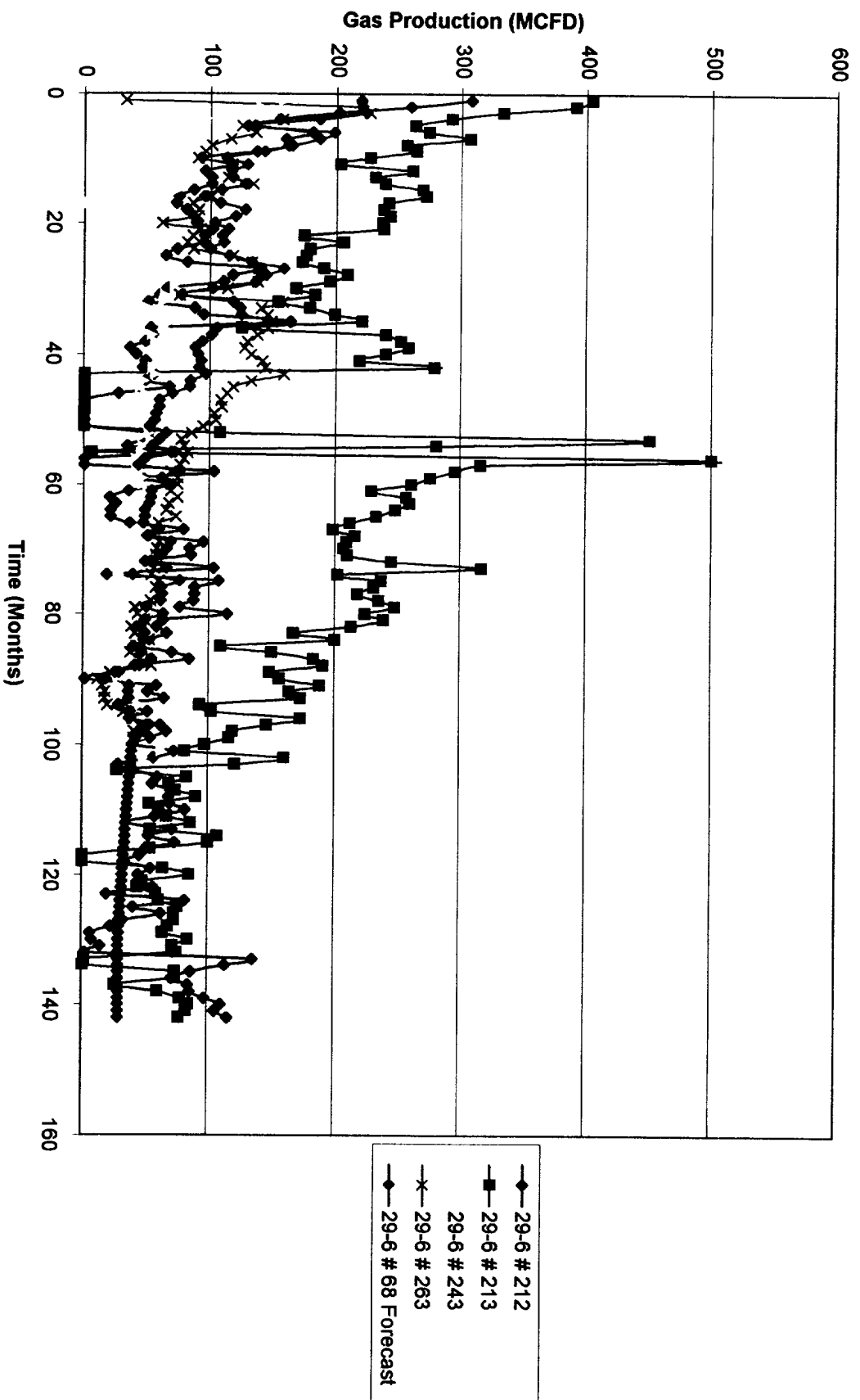
29-6 # 68 Mesaverde Production and Forecast



29-6 # 68 Mesaverde Production Forecast

Month	Year	Average Rate (MCFD)	Monthly Volume (MMCF)
6	2002	79.28	2.38
7	2002	77.2	2.39
8	2002	75.2	2.33
9	2002	73.28	2.2
10	2002	71.44	2.21
11	2002	69.66	2.09
12	2002	67.95	2.11
1	2003	66.3	2.06
2	2003	64.71	1.81
3	2003	63.17	1.96
4	2003	61.69	1.85
5	2003	60.26	1.87
6	2003	58.88	1.77
7	2003	57.55	1.78
8	2003	56.26	1.74
9	2003	55.02	1.65
10	2003	53.81	1.67
11	2003	52.65	1.58
12	2003	51.52	1.6
1	2004	50.43	1.56
2	2004	49.37	1.43
3	2004	48.34	1.5
4	2004	47.35	1.42
5	2004	46.39	1.44
6	2004	45.45	1.36
7	2004	44.55	1.38
8	2004	43.67	1.35
9	2004	42.82	1.28
10	2004	41.99	1.3
11	2004	41.18	1.24
12	2004	40.4	1.25
1	2005	39.64	1.23
2	2005	38.9	1.09
3	2005	38.18	1.18
4	2005	37.49	1.12
5	2005	36.81	1.14
6	2005	36.14	1.08

29-6 # 68 Production Forecast for Fruitland Coal



29-6 # 68 Fruitland Coal Completion Economics

	Commingle with Mesaverde Case	New Drill Case
Rate of Return	39%	-1%
Payout	2.1 years	Never Pays Out
Net Present Value at 13%	\$72,900	- \$164,100
Capital Outlay	\$129,500	\$418,800
Net Investment/Barrel of Oil Equivalent	\$3.33	\$10.79

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