

DATE IN 6/21/99	SUSPENSE 7/12/99	ENGINEER DC	LOGGED KN	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2393

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

- NSL NSP DD SD

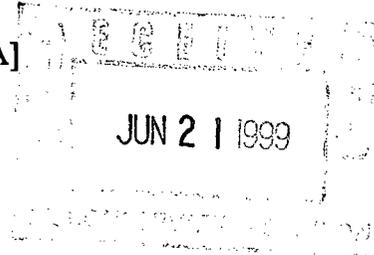
Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

- DHC CTB PLC PC OLS OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

- WFX PMX SWD IPI EOR PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] 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] For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

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, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Bradfield

Regulatory/Compliance Administrator

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

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 :

X Administrative Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

X YES NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

SAN JUAN 29-7 UNIT

167

M 32-29N-7W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7465 API NO. 30-039-2606100 Federal State X (and/or) Fee

Table with 4 columns: The following facts are submitted in support of downhole commingling, Upper Zone, Intermediate Zone, Lower Zone. Rows include Pool Name and Pool Code, Top and Bottom of Pay Section, Type of production, Method of Production, Bottomhole Pressure, Oil Zones - Artificial Lift, Gas & Oil - Flowing, All Gas Zones, Oil Gravity, Producing or Shut-In?, Production Marginal?, and Fixed Percentage Allocation Formula.

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? X Yes No. If not, have all working, overriding, and royalty interests been notified by certified mail? X Yes No. Have all offset operators been given written notice of the proposed downhole commingling? X Yes No.

11. 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)

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

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. X Yes No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

16. 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 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 Leonard J. Biemer Jr. TITLE Production Engineer DATE 6/17/99

TYPE OR PRINT NAME L. J. Biemer Jr. TELEPHONE NO. (505) 326-9703

District I,
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District II
PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

District III
1000 Rio Brazos Rd., Aztec, NM 87410

AMENDED REPORT

District IV
PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-26061		² Pool Code 71629/72359		³ Pool Name Basin Fruitland Coal/Blanco Pict.Cliffs	
⁴ Property Code 7465		⁵ Property Name SAN JUAN 29-7 UNIT			⁶ Well Number 167
⁷ GRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			⁹ Elevation 6763'

¹⁰ Surface Location

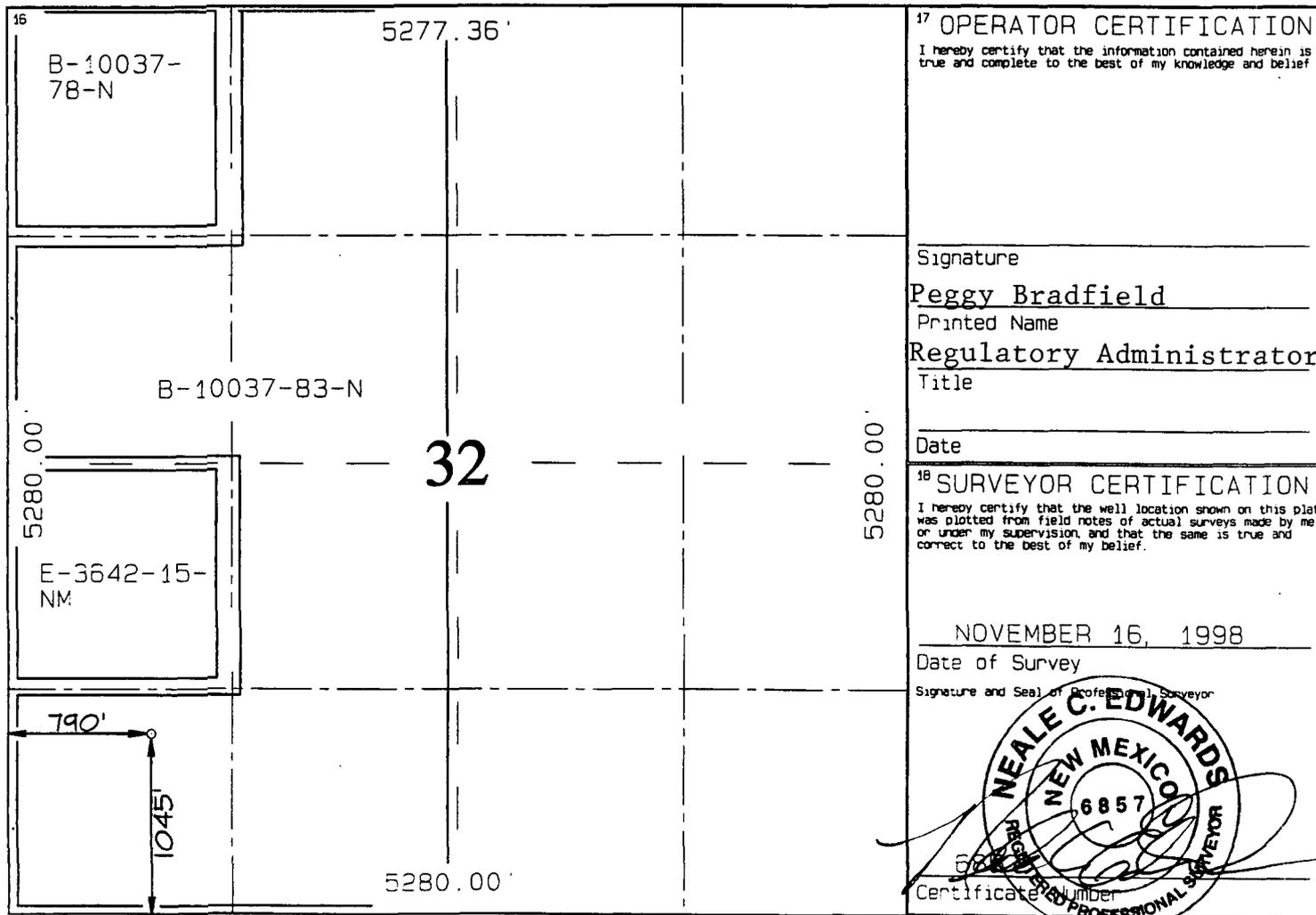
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	29N	7W		1045	SOUTH	790	WEST	RIO ARRIBA

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 Acres FTC-W/320 PC-160	¹³ Joint or Infill	¹⁴ Consolidation Code	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

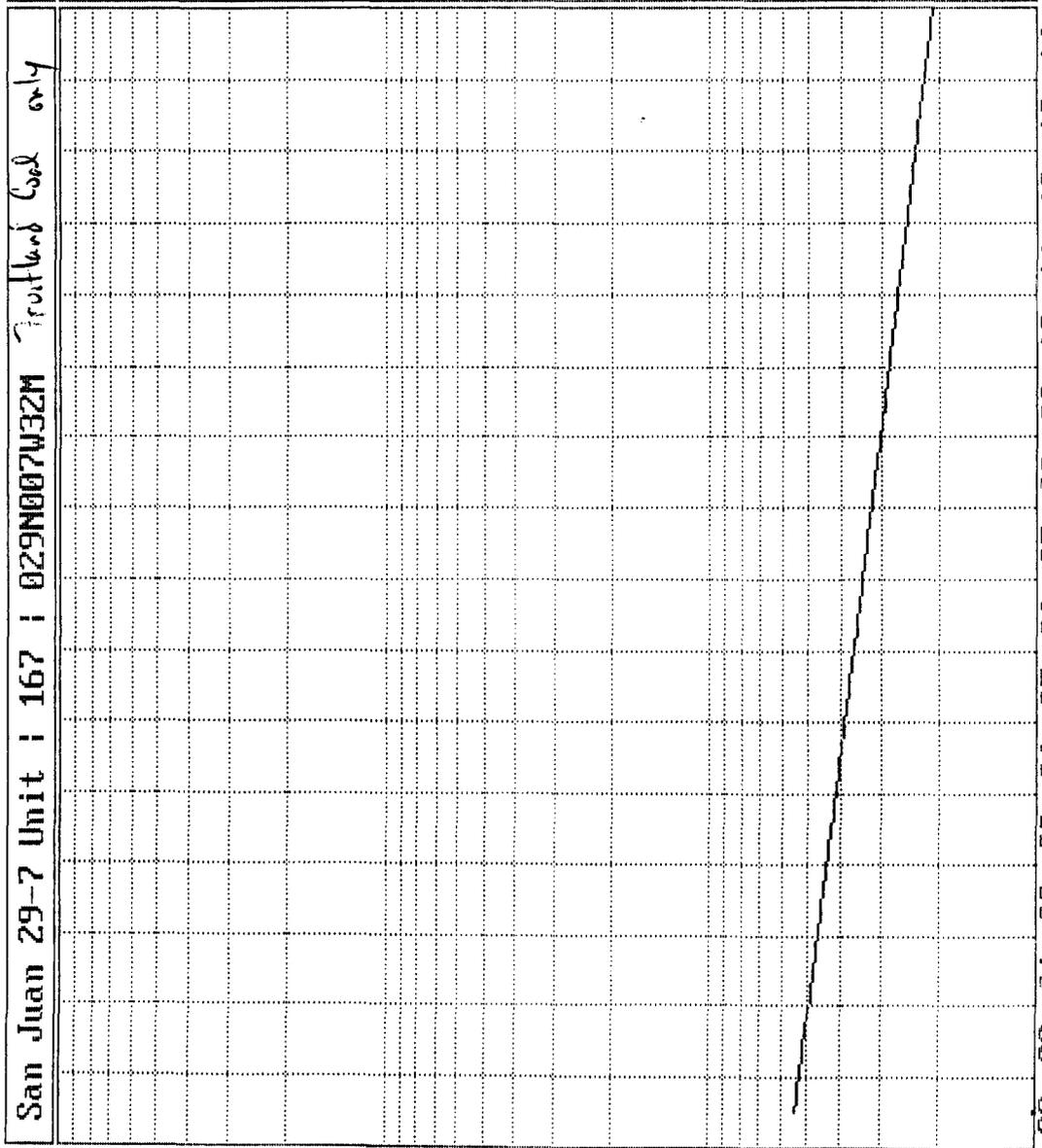


San Juan 29-7 Unit : 167 : 029N007W32M Fruitland Coal only

*GAS /d
 *OIL /d
 *OIL/GAS
 *WATER /d

RateTime
 Semi Log

EUR 235,958
 Cum 0
 Rem 235,958
 Rem% 100.0%
 Yrs 21
 Date 7/1/1999
 Act 0
 QMO 1,701
 Q 55
 n 0
 De 6
 Qab 15
 PutQual FCAUG



*GAS 1000
 *OIL 1
 *OIL/GAS 1
 *WATER 1

1000
 100
 10
 1

99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14

Major = GAS

San Juan 29-7 Unit i 167 i 029N007W32M Richard C/K's only

Prop 4

- GAS /d
- OIL /d
- OIL/GAS
- WATER /d

RateTime
Semi Log

EUR 466,018
Cum 0
Rem 466,018
Rem% 100.0%
Yrs 29.67

Date 7/1/1999

Act 0
Qmo 2,906

Q 94
n 0
De 6

Qab 15

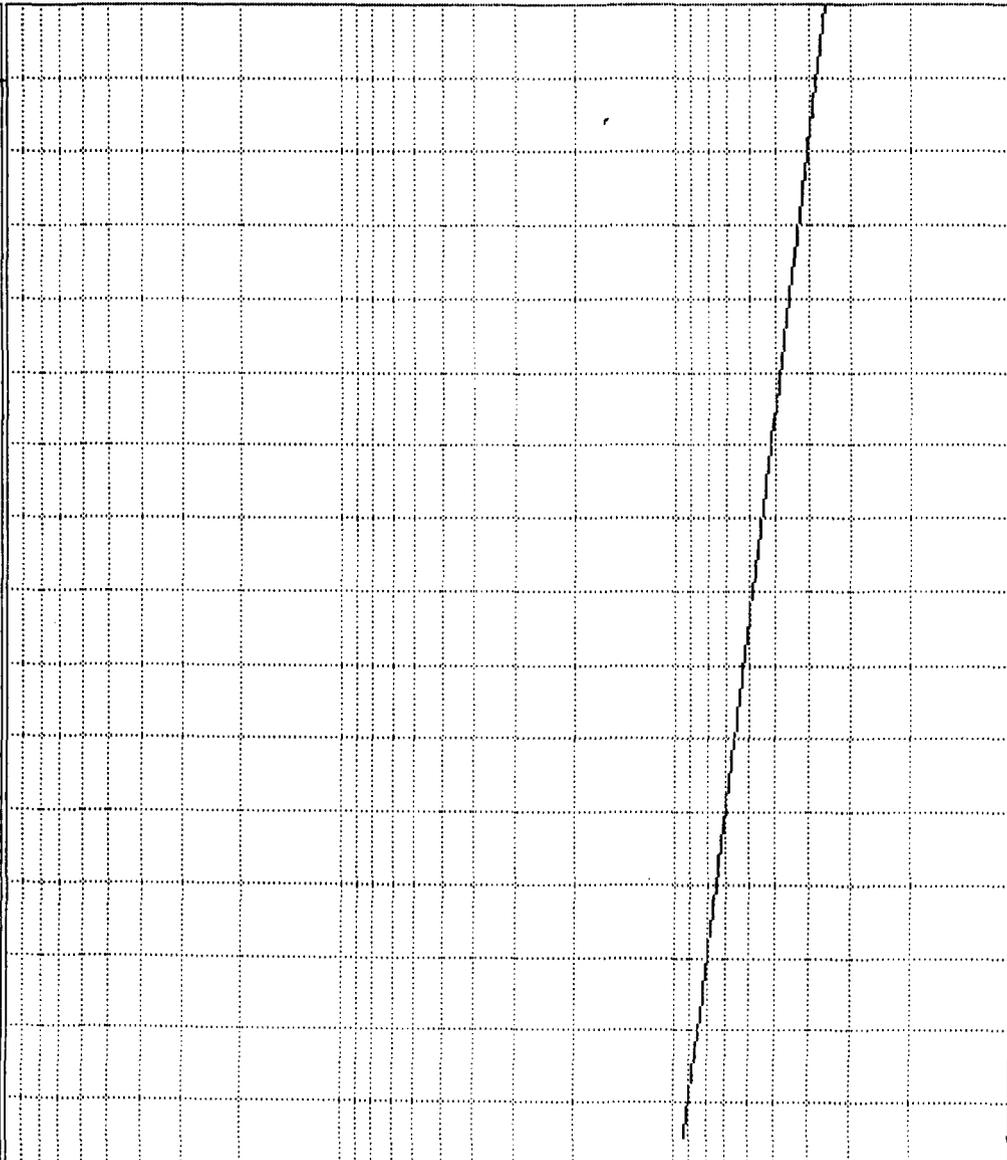
PutQual PCAVG

1000
1
1
1

100
10.1
10.1
1

10
10.1
10.1
1

10
10.1
10.1
1



99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14

Major = GAS

San Juan 29-7 Unit #167

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Fruitland Coal	Pictured Cliffs																																																
<u>FTC-Current</u>	<u>PC-Current</u>																																																
<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0.691</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0.43</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">1.06</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">4.05</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">3370</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">61</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">110</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">425</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">463.5</td></tr> </table>	GAS GRAVITY	0.691	COND. OR MISC. (C/M)	C	%N2	0.43	%CO2	1.06	%H2S	0	DIAMETER (IN)	4.05	DEPTH (FT)	3370	SURFACE TEMPERATURE (DEG F)	61	BOTTOMHOLE TEMPERATURE (DEG F)	110	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	425	BOTTOMHOLE PRESSURE (PSIA)	463.5	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 80%;">GAS GRAVITY</td><td style="text-align: right; border-bottom: 1px solid black;">0.691</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right; border-bottom: 1px solid black;">C</td></tr> <tr><td>%N2</td><td style="text-align: right; border-bottom: 1px solid black;">0.72</td></tr> <tr><td>%CO2</td><td style="text-align: right; border-bottom: 1px solid black;">0.47</td></tr> <tr><td>%H2S</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right; border-bottom: 1px solid black;">2.34</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right; border-bottom: 1px solid black;">3474</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">61</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right; border-bottom: 1px solid black;">110</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right; border-bottom: 1px solid black;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right; border-bottom: 1px solid black;">361</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">394.3</td></tr> </table>	GAS GRAVITY	0.691	COND. OR MISC. (C/M)	C	%N2	0.72	%CO2	0.47	%H2S	0	DIAMETER (IN)	2.34	DEPTH (FT)	3474	SURFACE TEMPERATURE (DEG F)	61	BOTTOMHOLE TEMPERATURE (DEG F)	110	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	361	BOTTOMHOLE PRESSURE (PSIA)	394.3
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BURLINGTON RESOURCES OIL AND GAS COMPANY

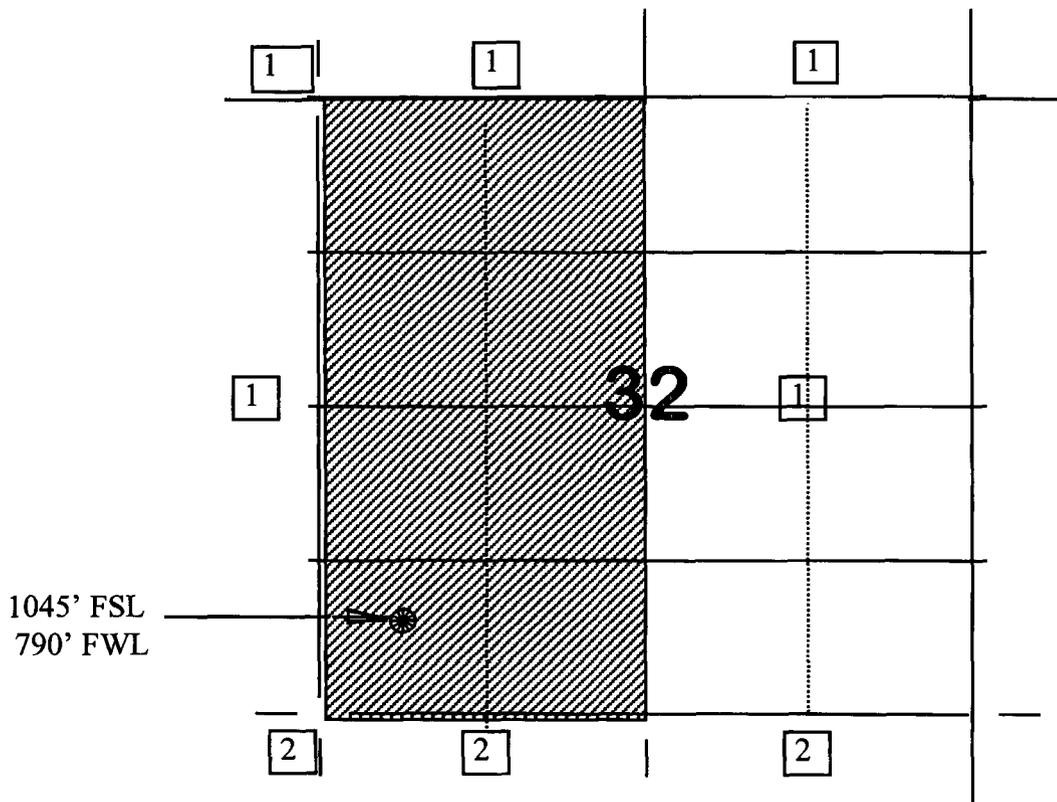
San Juan 29-7 Unit #167

OFFSET OPERATOR/OWNER PLAT

Fruitland Coal (W/2) & Pictured Cliffs (SW/4) Formations

Commingle well

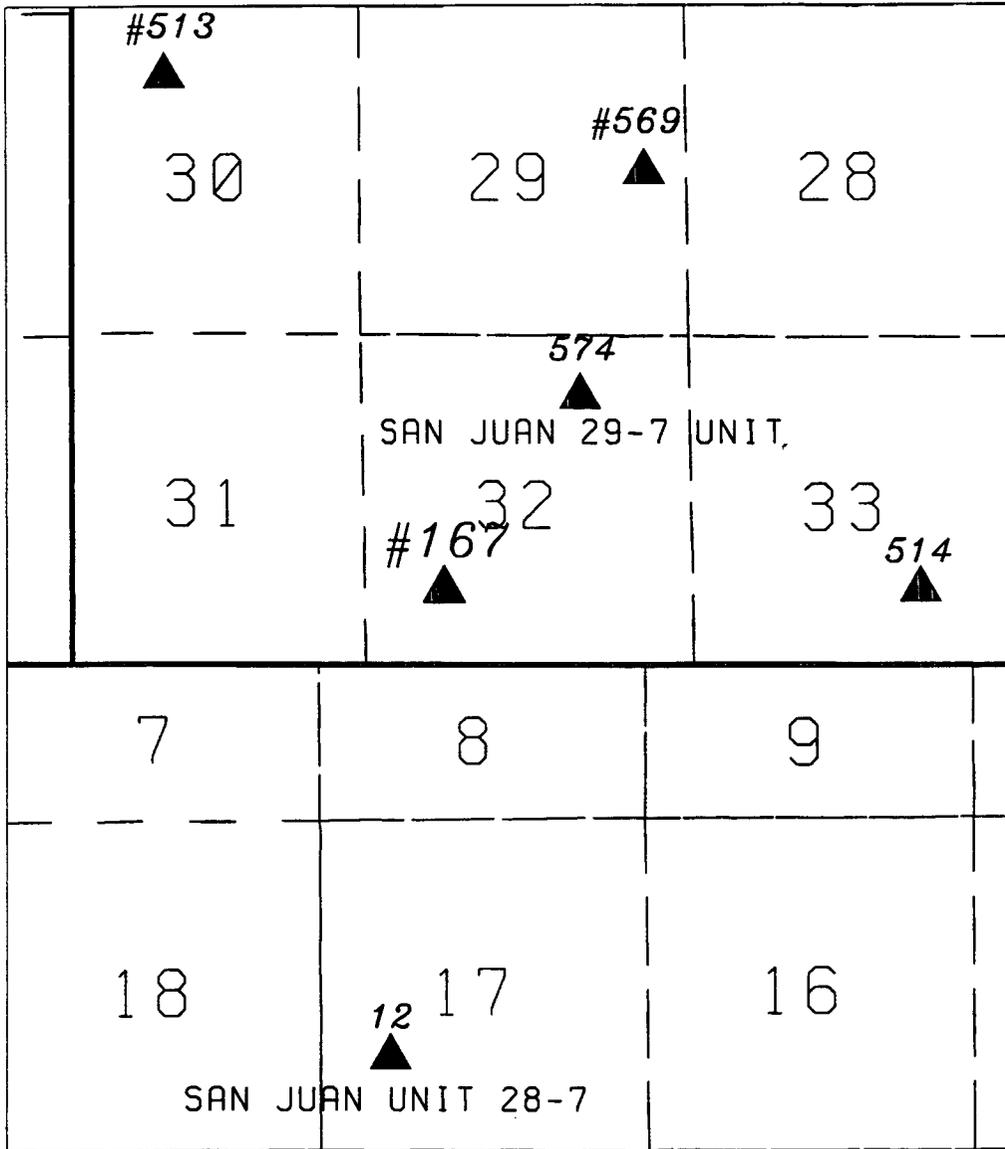
Township 29 North, Range 7 West



1) Burlington Resources

2) Conoco Inc.
10 Desta Drive, Suite 100W
Midland, Texas

R7W



T29N

T28N

San Juan 29-7 #167

T29N R7W Sec. 32

DATE: August 31, 1998

NAME: SAN JUAN 29-7 UNIT 167

FORM: PICTURED CLIFF

LOCATION

UNIT: M

SEC: 32

TWN: 29N

RNG: 7W

LEGEND

COMPLETION DATE

WELL NAME

EJUR/CUM(MMIF)

<p>[30]</p> <p>P&A 7/73</p> <p>San Juan 29-7 Unit 104 176/173 (99)</p>	<p>[29]</p>	<p>[28]</p>
<p>12/82</p> <p>San Juan 29-7 Unit 115 506/277 (99)</p> <p>8/72</p> <p>P&A 7/81</p> <p>San Juan 29-7 Unit 103 695/396 (99)</p> <p>SJ 29-7 Unit 118 113/108 (99)</p> <p>★ San Juan 29-8 Unit 167</p>	<p>8/93</p> <p>San Juan 29-7 NP 574 139/41 (99)</p> <p>[32]</p>	<p>[33]</p>
<p>[7]</p> <p>5/74</p> <p>San Juan 28-7 Unit 179 601/478 (99)</p>	<p>[8]</p> <p>4/82</p> <p>San Juan 28-7 Unit 20A 1070/417 (99)</p>	<p>[9]</p> <p>1/84</p> <p>San Juan 28-7 Unit 268 401/167 (99)</p>

T 29 N

T 28 N

R-7-W

176-83