

DATE IN 6/21/99	SUSPENSE 7/12/99	ENGINEER DC	LOGGED KN	TYPE DHC
--------------------	---------------------	----------------	--------------	-------------

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

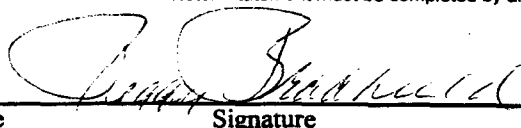
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public 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 :

☒ Administrative
☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ 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 ☒ (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	Basin Fruitland Coal - 71629 GAS		Blanco Pictured Cliffs - 72359 GAS
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
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	(Current) a. 463 psi (see attachment) (Original) b. 1063 psi (see attachment)	a. b.	a. 394 psi (see attachment) b. 1139 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1201		BTU 1188
7. Producing or Shut-In?	shut-in		shut-in
Production Marginal? (yes or no)	no		yes
* If Shut-In 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: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

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 communized 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). _____

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised February 21, 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

*API Number 30-039-26061		*Pool Code 71629/72359	*Pool Name Basin Fruitland Coal/Blanco Pict.Cliffs
*Property Code 7465	*Property Name SAN JUAN 29-7 UNIT		*Well Number 167
*CGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 6763'

¹⁰ Surface Location

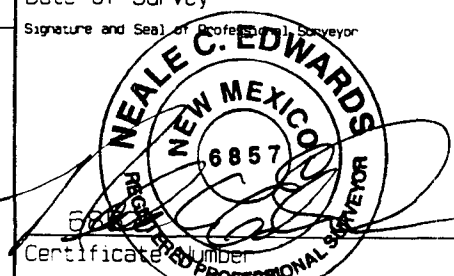
UL or lot no. M	Section 32	Township 29N	Range 7W	Lot Idn	Feet from the 1045	North/South line SOUTH	Feet from the 790	East/West line WEST	County RIO ARriba
--------------------	---------------	-----------------	-------------	---------	-----------------------	---------------------------	----------------------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

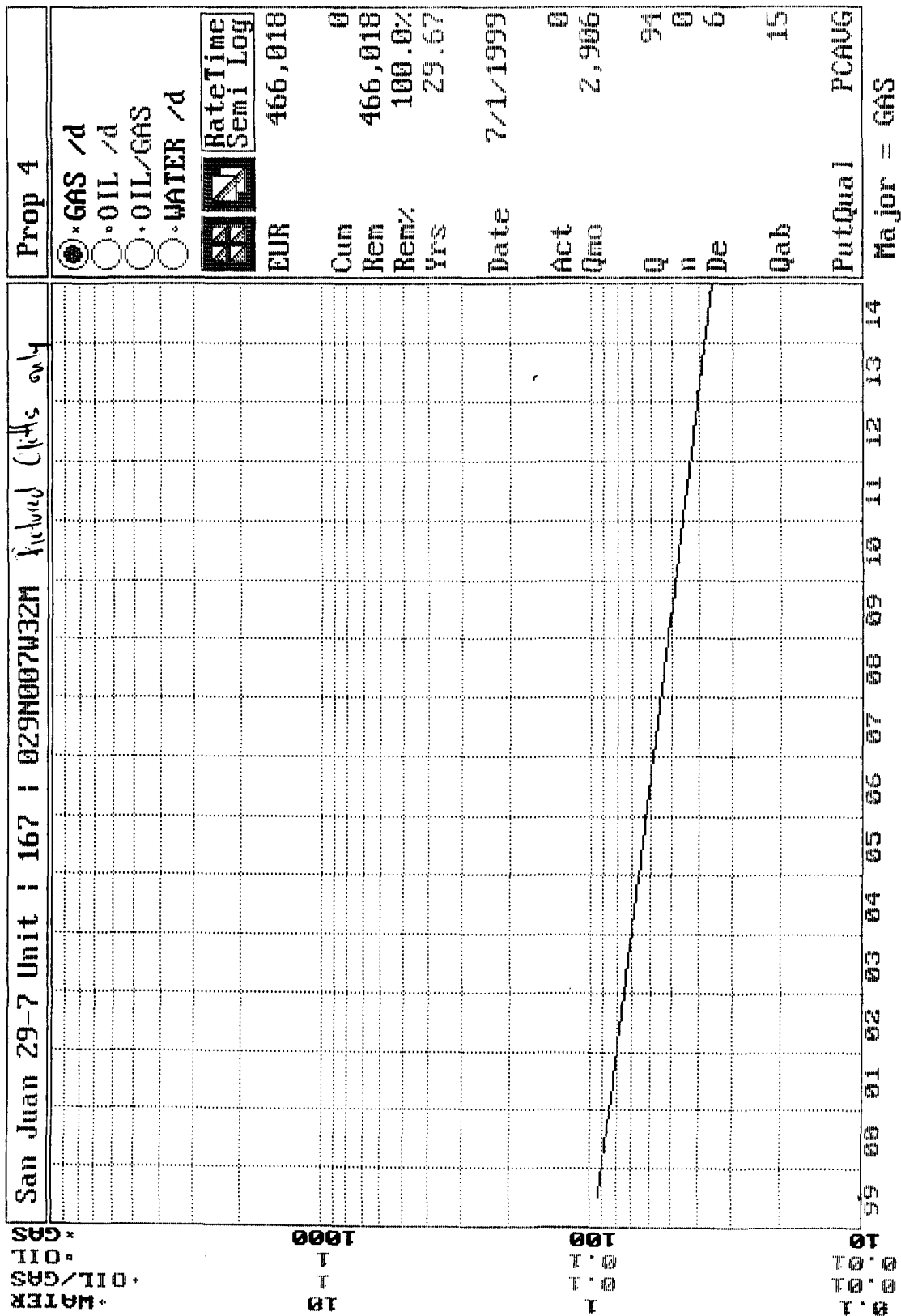
¹¹ Bottom Hole Location If Different From Surface

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-W7320 PC-160	¹³ Joint or Infill	¹⁴ Consolidation Code	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

¹⁶ B-10037-78-N	5277.36'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Peggy Bradfield Printed Name Regulatory Administrator Title 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. NOVEMBER 16, 1998 Date of Survey Signature and Seal of Professional Surveyor 
B-10037-83-N	32	
E-3642-15-NM	5280.00'	
790' 1045'	5280.00'	



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>	
GAS GRAVITY	0.691	GAS GRAVITY	0.691
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.43	%N2	0.72
%CO2	1.06	%CO2	0.47
%H2S	0	%H2S	0
DIAMETER (IN)	4.05	DIAMETER (IN)	2.34
DEPTH (FT)	3370	DEPTH (FT)	3474
SURFACE TEMPERATURE (DEG F)	61	SURFACE TEMPERATURE (DEG F)	61
BOTTOMHOLE TEMPERATURE (DEG F)	110	BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	425	SURFACE PRESSURE (PSIA)	361
BOTTOMHOLE PRESSURE (PSIA)	463.5	BOTTOMHOLE PRESSURE (PSIA)	394.3
<u>FTC-Original</u>		<u>PC-Original</u>	
GAS GRAVITY	0.691	GAS GRAVITY	0.63
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.43	%N2	0.72
%CO2	1.06	%CO2	0.47
%H2S	0	%H2S	0
DIAMETER (IN)	4.05	DIAMETER (IN)	2.34
DEPTH (FT)	3370	DEPTH (FT)	3474
SURFACE TEMPERATURE (DEG F)	61	SURFACE TEMPERATURE (DEG F)	61
BOTTOMHOLE TEMPERATURE (DEG F)	111	BOTTOMHOLE TEMPERATURE (DEG F)	129
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	966	SURFACE PRESSURE (PSIA)	1045
BOTTOMHOLE PRESSURE (PSIA)	1063.1	BOTTOMHOLE PRESSURE (PSIA)	1139.3

BURLINGTON RESOURCES OIL AND GAS COMPANY

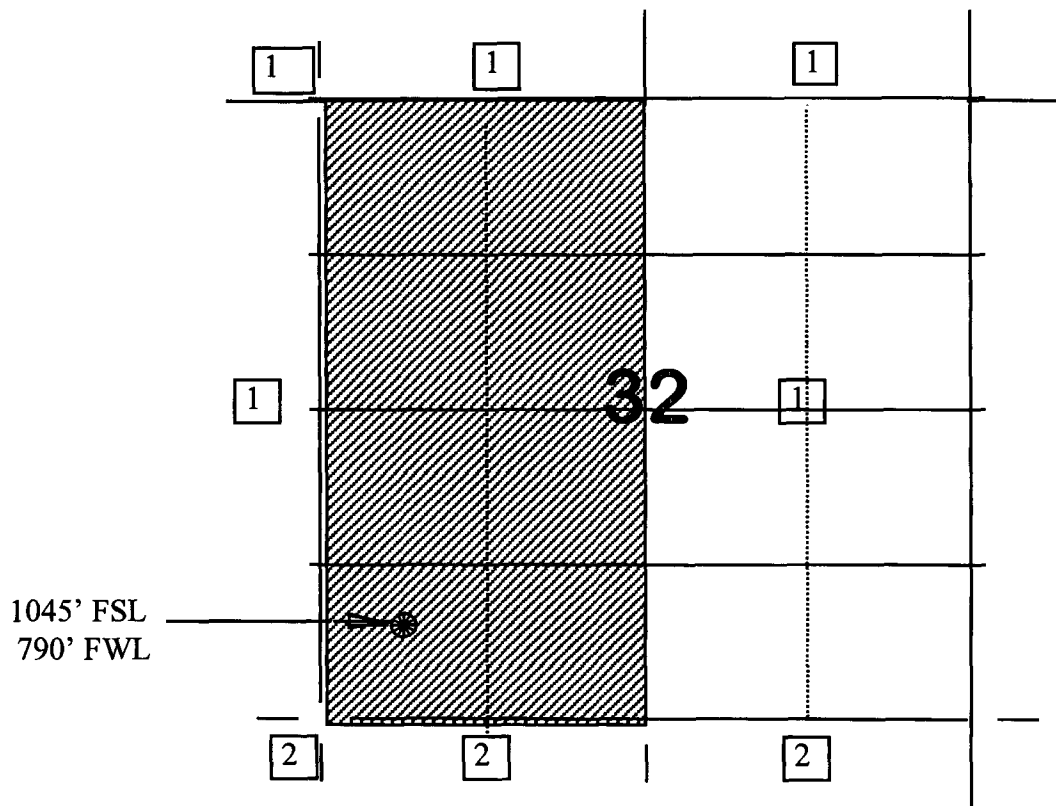
San Juan 29-7 Unit #167

OFFSET OPERATOR/OWNER PLAT

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

Commingle well

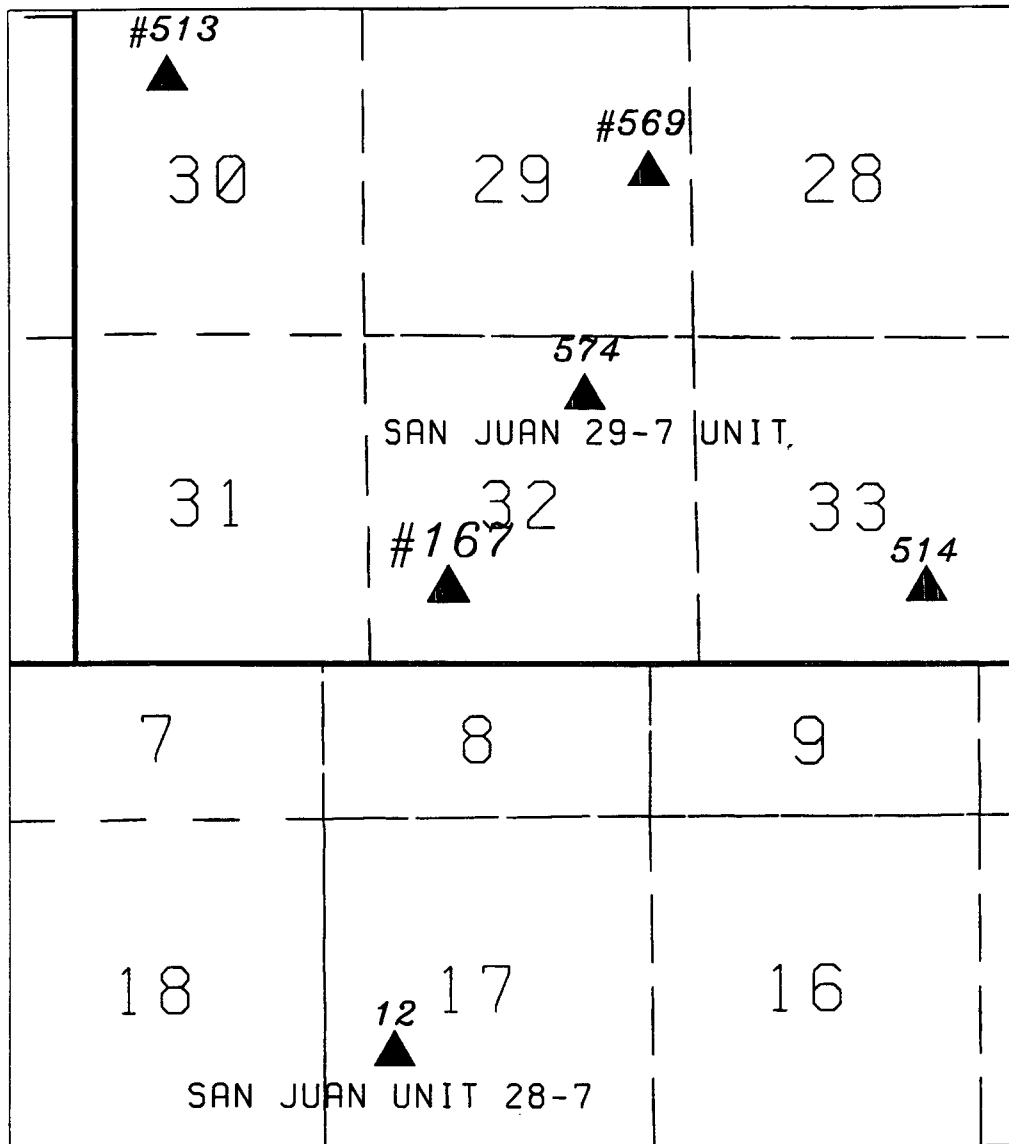
Township 29 North, Range 7 West



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

EUR/CUM(MMIF)

<p>[30]</p> <p>P&A 7/73</p> <p>San Juan 29-7 Unit 104 176/173 (ee)</p>	<p>[29]</p>	<p>[28]</p>
<p>12/82</p> <p>San Juan 29-7 Unit 115 506/277 (ee)</p> <p>8/72</p> <p>P&A 7/81</p> <p>San Juan 29-7 Unit 103 695/398 (ee)</p> <p>SJ 29-7 Unit 118 113/108 (ee)</p> <p>★ San Juan 29-8 Unit 167</p>	<p>8/93</p> <p>San Juan 29-7 NP 574 139/41 (ee)</p> <p>[32]</p>	<p>[33]</p>
<p>[7]</p> <p>5/74</p> <p>San Juan 28-7 Unit 179 601/478 (ee)</p>	<p>[8]</p> <p>4/82</p> <p>San Juan 28-7 Unit 20A 1070/417 (ee)</p>	<p>[9]</p> <p>1/84</p> <p>San Juan 28-7 Unit 268 401/167 (ee)</p>

R-7-W

76-83