

DATE IN 7/1/98	SUSPENSE 7/20/98	ENGINEER DC	LOGGED BY MW	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
2040 South Pacheco, Santa Fe, NM 87505



2027

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

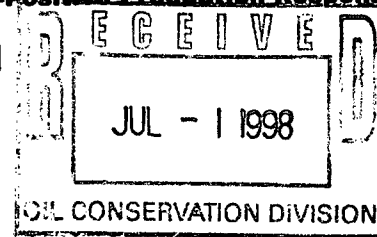
[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure 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] or [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 - 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.

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

YES ☐ NO ☒

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

San Juan 28-4 Unit

30M

O 31-28N-04W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7459 API NO. 30-039-not assigned 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	Blanco Mesaverde - 72319		Basin Dakota - 71599
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. 638 psi (see attachment) (Original) b. 1370 psi (see attachment)	a. b.	a. 1306 psi (see attachment) b. 3084 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1174		BTU 1044
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 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 ☐ No11. 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 ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ 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 ☐ No15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) ☐ Reference Order ☐

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 Sean Woolverton for SCW TITLE: Reservoir Engineer DATE: 06-26-98TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
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-
Revised February 21, 1998

Instructions on b
Submit to Appropriate District Of:
State Lease - 4 Co
Fee Lease - 3 Co

☐ AMENDED REPC

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-	¹ Pool Code 72319/71599	¹ Pool Name Blanco Mesaverde/Basin Dakota
¹ Property Code 7459	¹ Property Name SAN JUAN 28-4 UNIT	¹ Well Number # 30M
¹ OGRID No. 14538	¹ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	¹ Elevation 7239

¹⁰ Surface Location

UL or Lot No. O	Section 31	Township 28 N	Range 4 W	Lot Idn	Feet from the 760	North/South line SOUTH	Feet from the 1910	East/West line EAST	County RIO ARRI
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¹¹ Bottom Hole Location If Different From Surface

¹ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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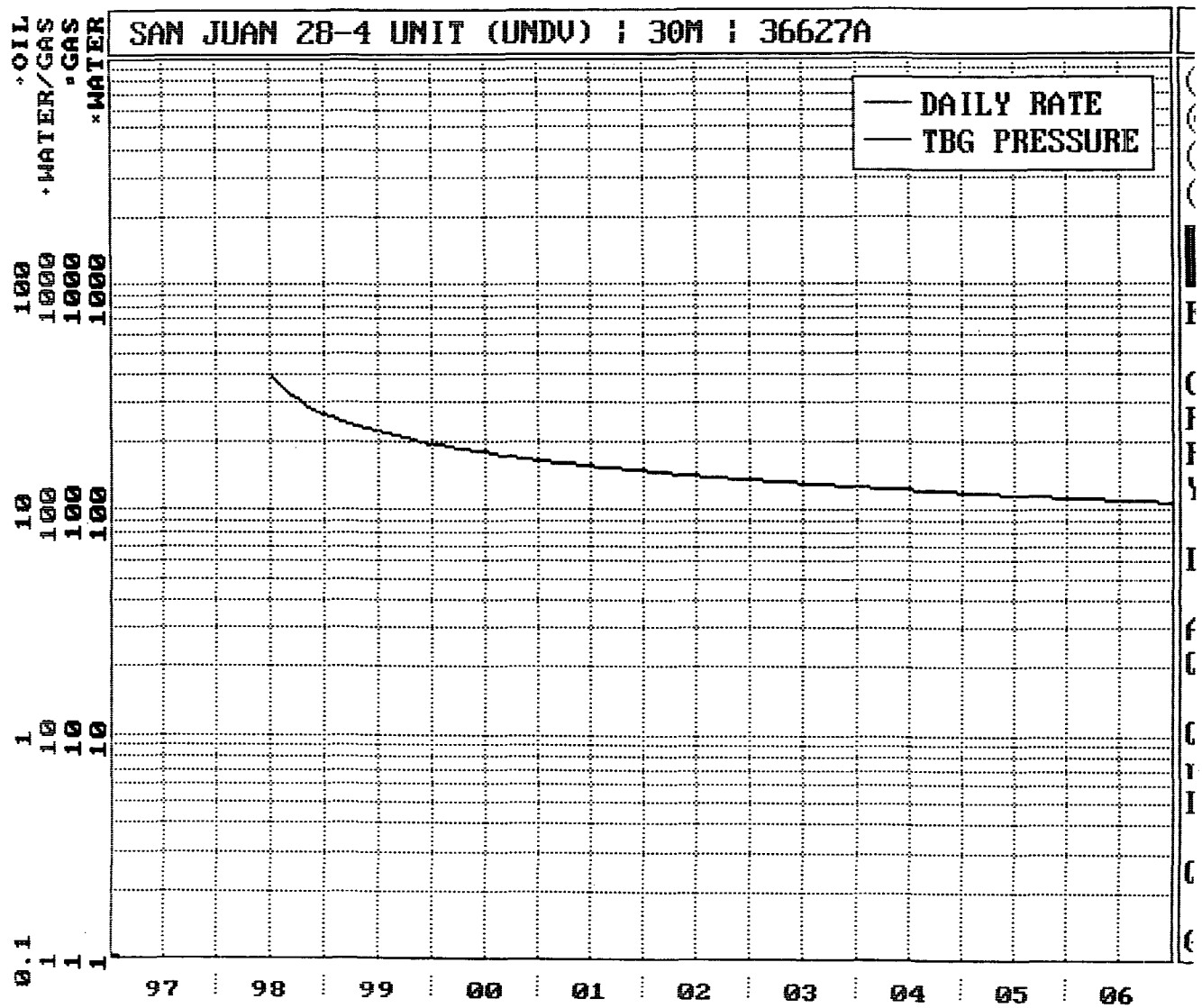
¹² Dedicated Acres MV-S/319.82 DK-E/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

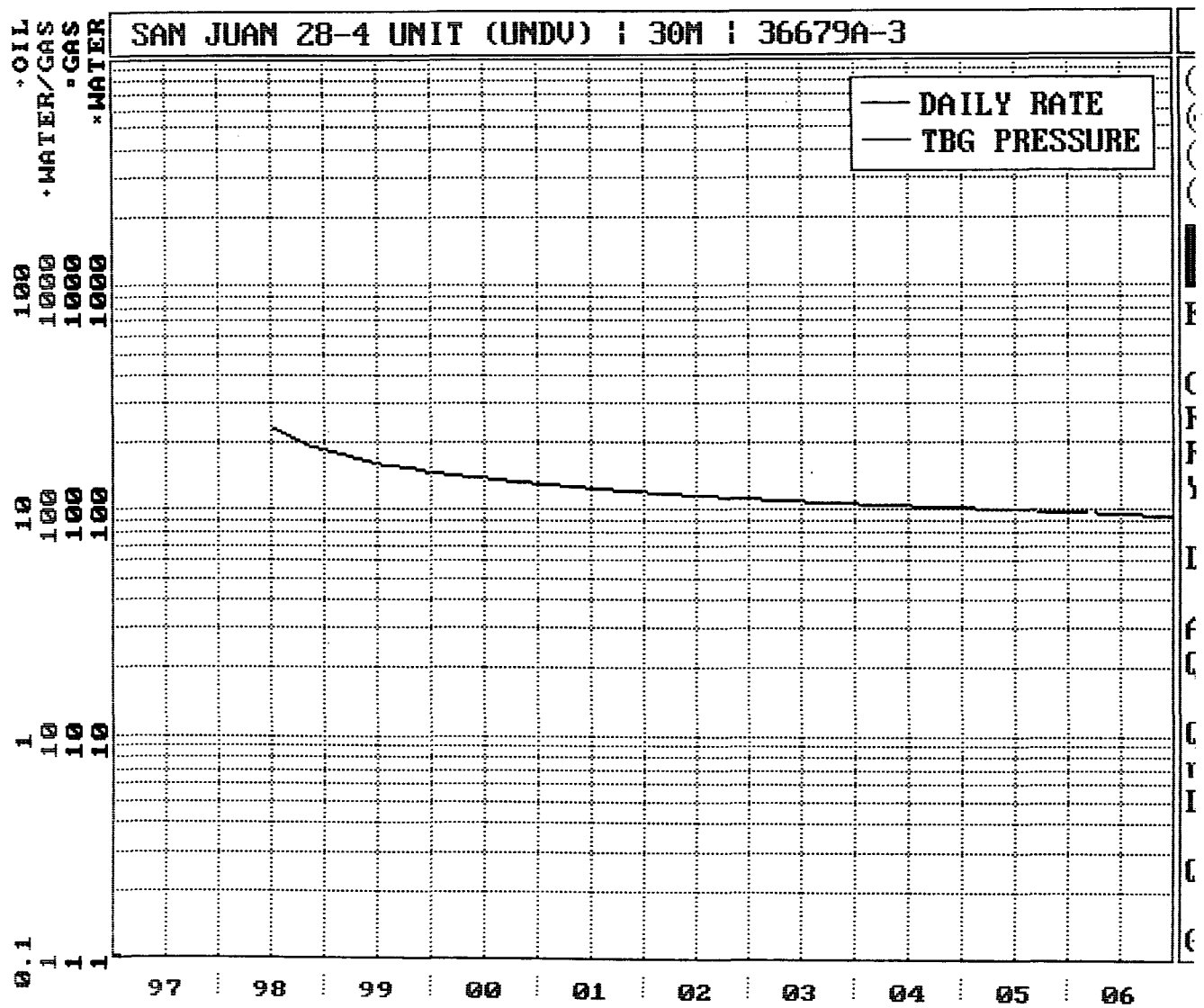
¹⁶ Lot 1	5275'(R)		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained here true and complete to the best of my knowledge and
Lot 2		NMSF - 079732	Signature <i>Peggy Bradford</i> Peggy Bradford Printed Name Regulatory Administrator Title 5-30-98 Date
Lot 3	5280'(R)	31 NMSF - 079732	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this was plotted from field notes of actual surveys made b or under my supervision, and that the same is true correct to the best of my belief. February 19, 1998 Date of Survey Signature and Seal of Professional Surveyor
Lot 4		760' 1910'	7016 7016 Certificate Number
	5277'(R)		

(R) - GLO Record

San Juan 28-4 Unit #30M
Expected Production Curve
Blanco Mesaverde



San Juan 28-4 Unit #30M
Expected Production Curve
Basin Dakota



SJ 28-4 Unit #30M

Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.689	GAS GRAVITY	0.612
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.14	%N2	0.28
%CO2	1.08	%CO2	1.48
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6516	DEPTH (FT)	8383
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	540	SURFACE PRESSURE (PSIA)	1084
BOTTOMHOLE PRESSURE (PSIA)	637.7	BOTTOMHOLE PRESSURE (PSIA)	1306.0
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.689	GAS GRAVITY	0.612
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.14	%N2	0.28
%CO2	1.08	%CO2	1.48
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6516	DEPTH (FT)	8383
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1139	SURFACE PRESSURE (PSIA)	2538
BOTTOMHOLE PRESSURE (PSIA)	1369.7	BOTTOMHOLE PRESSURE (PSIA)	3084.0

Page No.: 1
Print Time: Thu Feb 12 08:52:58 1998
Property ID: 3899
Property Name: SAN JUAN 28-4 UNIT | 11 | 51850A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP
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San Juan 28-4 Unit #30M

Mesaverde Offset

04/25/57	1139.0	<i>-original</i>
05/29/57	1138.0	
10/06/58	887.0	
10/22/59	673.0	
06/14/60	626.0	
06/13/61	627.0	
07/31/62	653.0	
01/07/63	667.0	
01/02/64	678.0	
07/29/65	606.0	
08/01/66	624.0	
08/04/67	611.0	
08/14/68	651.0	
06/09/70	658.0	
05/03/71	597.0	
05/30/72	547.0	
05/16/73	629.0	
08/07/74	668.0	
06/25/76	606.0	
08/02/78	659.0	
07/01/80	617.0	
05/20/82	659.0	
06/20/84	658.0	
04/21/86	676.0	
09/17/89	647.0	
02/18/91	632.0	
08/20/91	644.0	
11/01/93	540.0	<i>-current</i>

Page No.: 1
Print Time: Thu Feb 12 08:51:26 1998
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Table Name: K:\ARIES\RR98PDP\TEST.DBF

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10/10/67	2538.0	-original
08/14/68	1646.0	
05/29/69	1116.0	
06/09/70	1146.0	
05/03/71	1283.0	
05/30/72	1279.0	
05/16/73	1330.0	
06/23/75	1210.0	
07/06/77	1269.0	
05/01/79	1066.0	
05/01/81	1038.0	
06/05/85	1084.0	-current

San Juan 28-4 Unit #30M
Dakota Offset

[illegible]

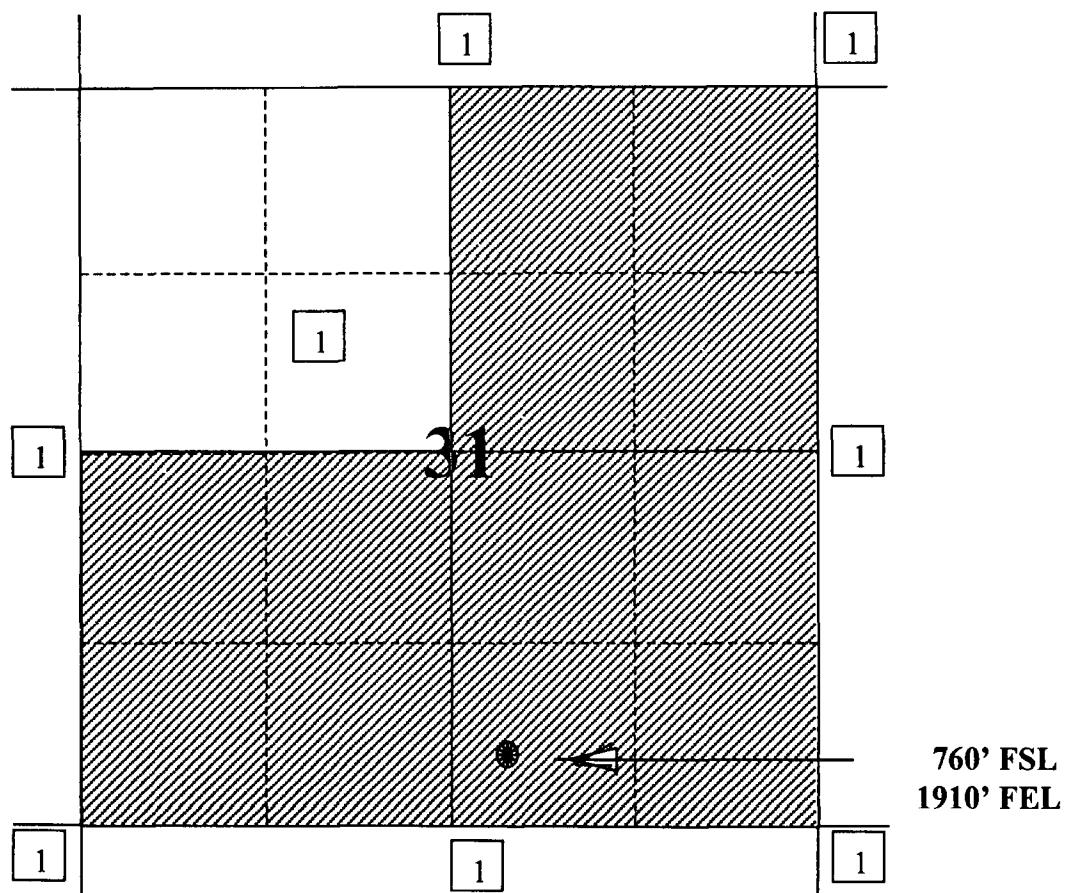
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-4 Unit #30M

OFFSET OPERATOR/OWNER PLAT

Mesaverde (S/2) / Dakota (E/2) Formations Commingle Well

Township 28 North, Range 4 West



1) Burlington Resources