

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 87410-1893

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

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

35M

J 33-28N-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. 651 psi (see attachment) (Original) b. 1402 psi (see attachment)		a. 1035 psi (see attachment) b. 3252 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1155		BTU 1009
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 Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	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 Sean Woolverton TITLE: Reservoir Engineer DATE: 06-26-98

TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KKK, 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-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

1 API Number 30-039-		2 Pool Code 72319/71599		3 Pool Name Blanco Mesaverde/Basin Dakota		
4 Property Code 7459		5 Property Name SAN JUAN 28-4 UNIT			6 Well Number # 35M	
7 OGRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			9 Elevation 7318	

10 Surface Location

11 UL or Lot No. J	12 Section 33	13 Township 28 N	14 Range 4 W	15 Lot Idn	16 Feet from the 1410	17 North/South line SOUTH	18 Feet from the 2050	19 East/West line EAST	20 County RIO ARRIBA
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11 Bottom Hole Location If Different From Surface

21 UL or lot no.	22 Section	23 Township	24 Range	25 Lot Idn	26 Feet from the	27 North/South line	28 Feet from the	29 East/West line	30 County
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31 Dedicated Acres
MV-S/320
DK-E/320

32 Joint or Infill

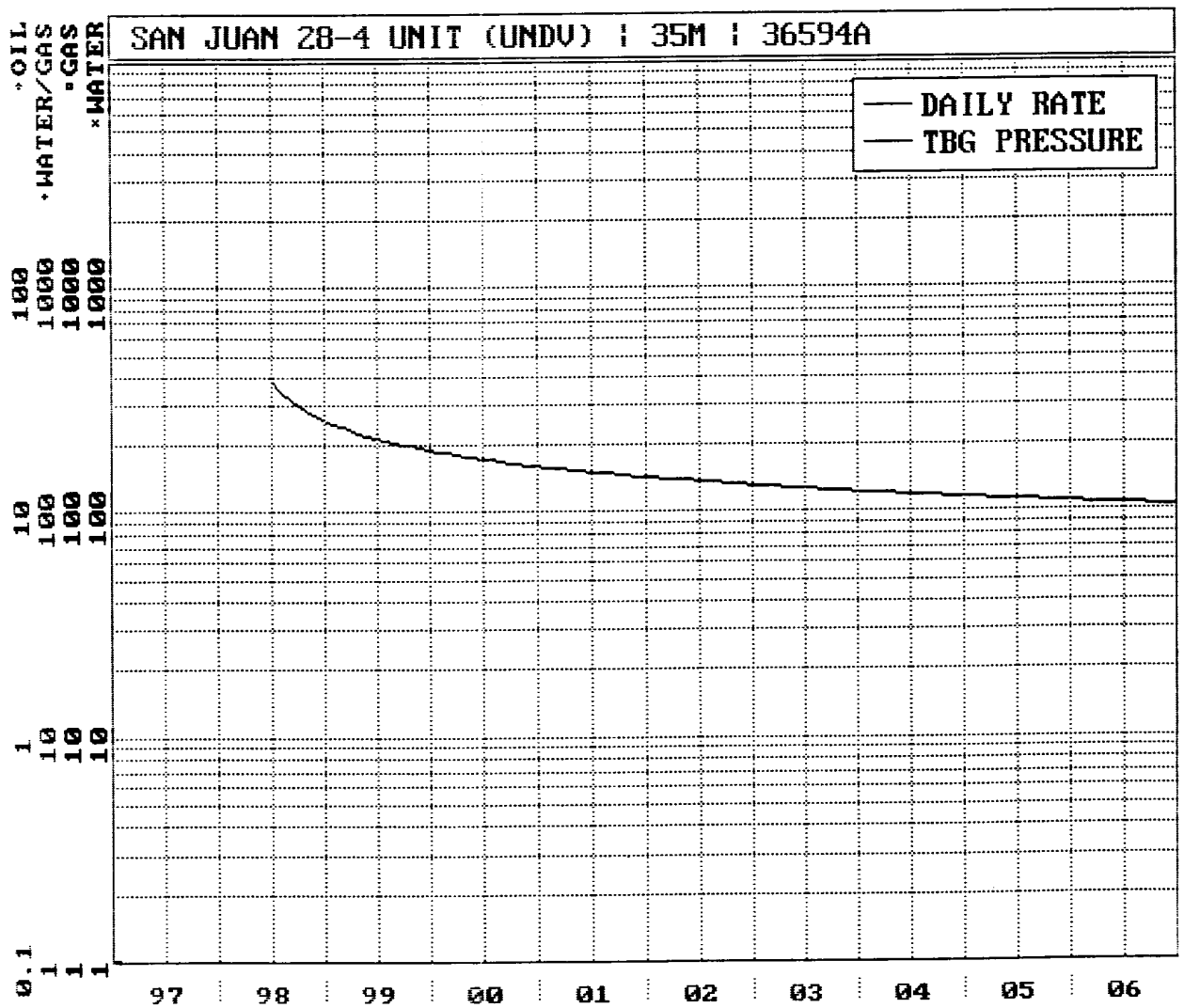
33 Consolidation Code

34 Order No.

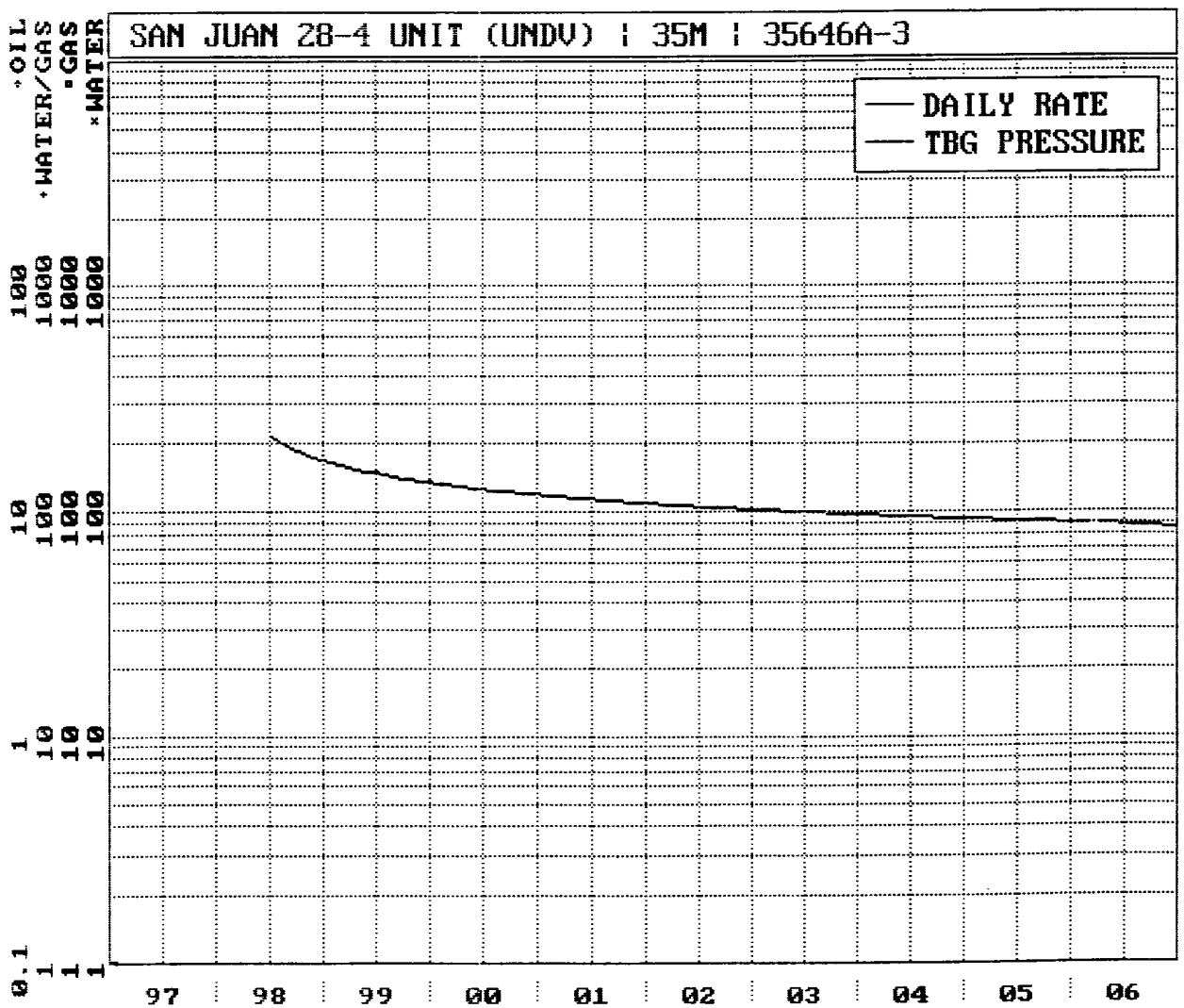
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 5271'(R) RECEIVED JUL 1 1998 OIL CON. DIV. DIST. 3 5280'(R)		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. April 23, 1998 Date of Survey Signature and Seal of Professional Surveyor  7016 Certificate Number	
33 NMSF - 079731A NMSF - 079731 NMSF - 079731 2050' 1410' 5280'(R)			

San Juan 28-4 Unit #35M
Expected Production Curve
Blanco Mesaverde



San Juan 28-4 Unit #35M
Expected Production Curve
Basin Dakota



SJ 28-4 Unit #35M

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	0.678	GAS GRAVITY	0.593
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.28	%N2	0.27
%CO2	1.07	%CO2	1.71
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6511	DEPTH (FT)	8638
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)	553	SURFACE PRESSURE (PSIA)	864
BOTTOMHOLE PRESSURE (PSIA)	651.2	BOTTOMHOLE PRESSURE (PSIA)	1035.1
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.678	GAS GRAVITY	0.593
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.28	%N2	0.27
%CO2	1.07	%CO2	1.71
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6511	DEPTH (FT)	8638
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)	1170	SURFACE PRESSURE (PSIA)	2685
BOTTOMHOLE PRESSURE (PSIA)	1402.0	BOTTOMHOLE PRESSURE (PSIA)	3251.6

Page No.: 1

Print Time: Thu Feb 12 11:06:56 1998

Property ID: 3900

Property Name: SAN JUAN 28-4 UNIT | 12 | 51851A-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP

■■■■■■■■■■ ■■■■■■■■ Psi■■■■■■■■

07/07/57	1170.0	-original
07/25/57	1169.0	
10/06/58	846.0	
10/22/59	678.0	
06/14/60	647.0	
06/13/61	633.0	
07/31/62	601.0	
07/18/63	611.0	
01/02/64	675.0	
07/29/65	604.0	
08/01/66	596.0	
10/27/67	736.0	
08/14/68	592.0	
06/09/70	550.0	
07/30/71	538.0	
05/30/72	532.0	
08/07/74	465.0	
06/25/76	562.0	
08/02/78	627.0	
07/01/80	546.0	
05/20/82	519.0	
06/20/84	633.0	
04/21/86	577.0	
09/17/89	647.0	
01/06/92	531.0	
11/01/93	559.0	-current

San Juan 28-4 Unit #35m
Mesaverde Offset

Page No.: 1

Print Time: Thu Feb 12 11:05:40 1998

Property ID: 1757

Property Name: SAN JUAN 28-4 UNIT | 33 | 52230A-1

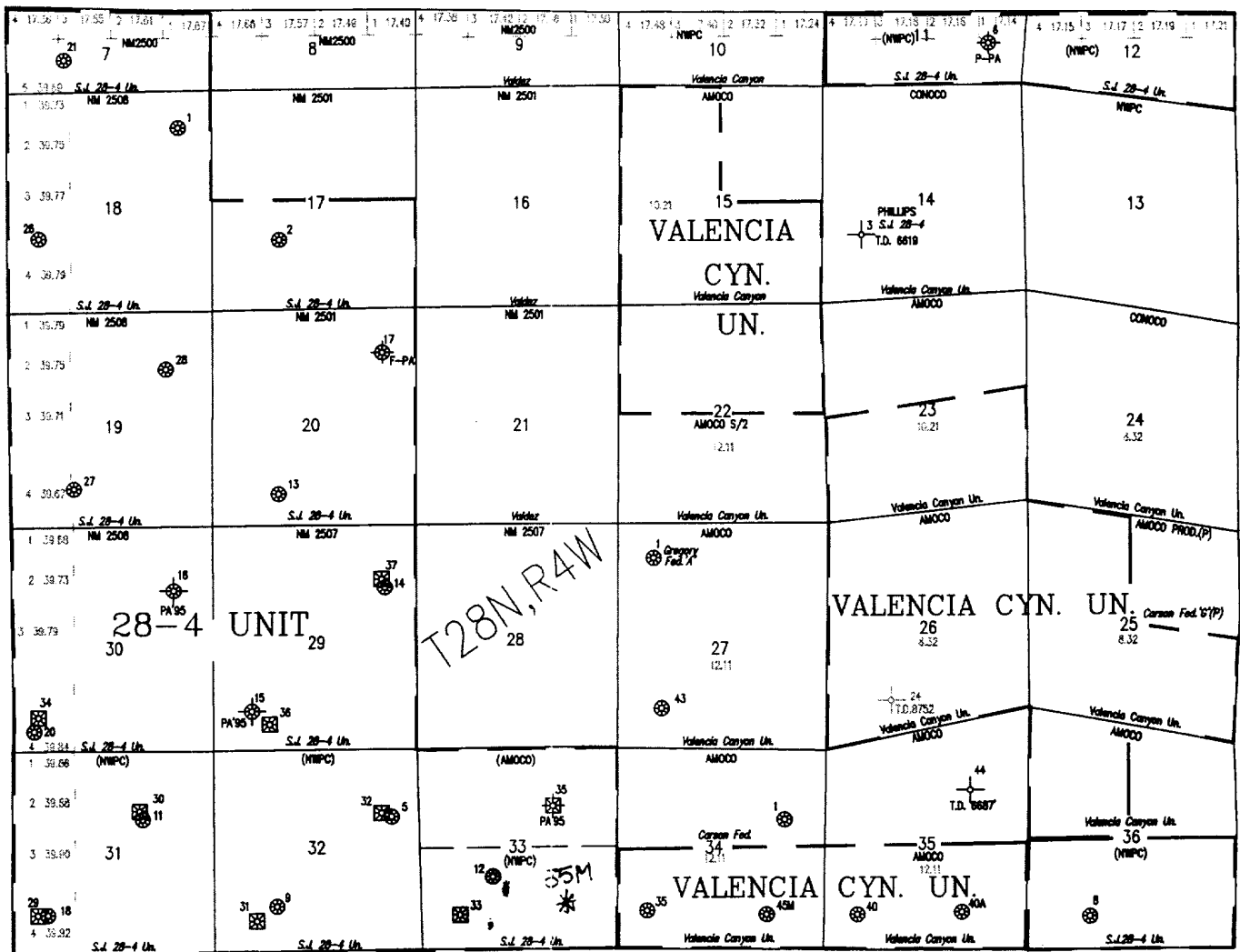
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--DATE-- M SIWHP
■■■■■■■■■■ ■■■■Psi■■■■

12/30/68	2685.0	original
05/29/69	2276.0	
06/09/70	1797.0	
05/03/71	1774.0	
05/30/72	1541.0	
05/16/73	1348.0	
06/23/75	1253.0	
05/01/81	682.0	
06/05/85	864.0	-current

San Juan 28-4 Unit #35M
Dakota Offset

San Juan 28-4 Unit #35M
Blanco Mesaverde / Basin Dakota
28N-04W-33



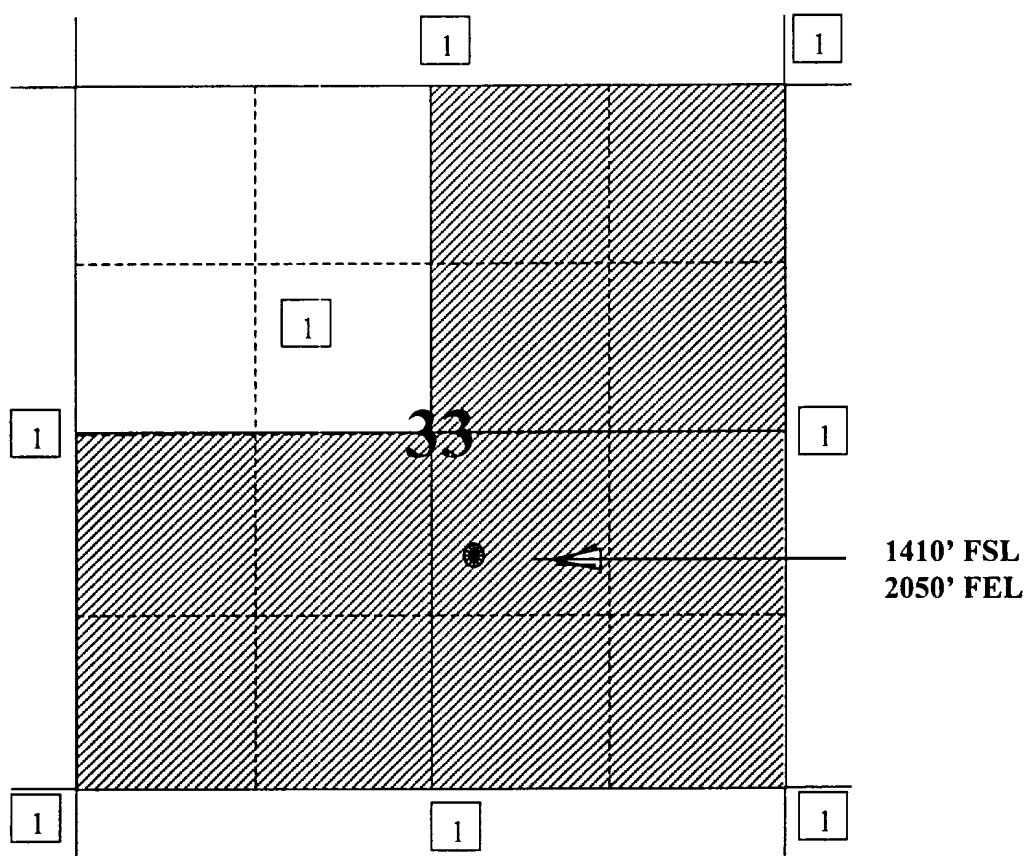
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-4 Unit #35M

OFFSET OPERATOR/OWNER PLAT

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

Township 28 North, Range 4 West



1) Burlington Resources