

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 27-4 Unit

59M

I 04-27N-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 7452 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. 640 psi (see attachment) (Original) b. 1385 psi (see attachment)	a. b.	a. 999 psi (see attachment) b. 2760 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1160		BTU 1027
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 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 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 ☐ 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: 06-29-98TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

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

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		2 Pool Code		3 Pool Name	
30-039-		72319/71599		Blanco Mesaverde/Basin Dakota	
4 Property Code		5 Property Name			6 Well Number
7452		SAN JUAN 27-4 UNIT			# 59M
7 OGRID No.		8 Operator Name			9 Elevation
14538		BURLINGTON RESOURCES OIL & GAS COMPANY			7166

¹⁰ Surface Location

U/L or Lot No.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
I	4	27 N	4 W		1630	SOUTH	1010	EAST	RIO ARRI

¹¹ Bottom Hole Location If Different From Surface

[illegible]

28	Dedicated Acres	13
MV-E/319.	20	
DK-E/319.	20	

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

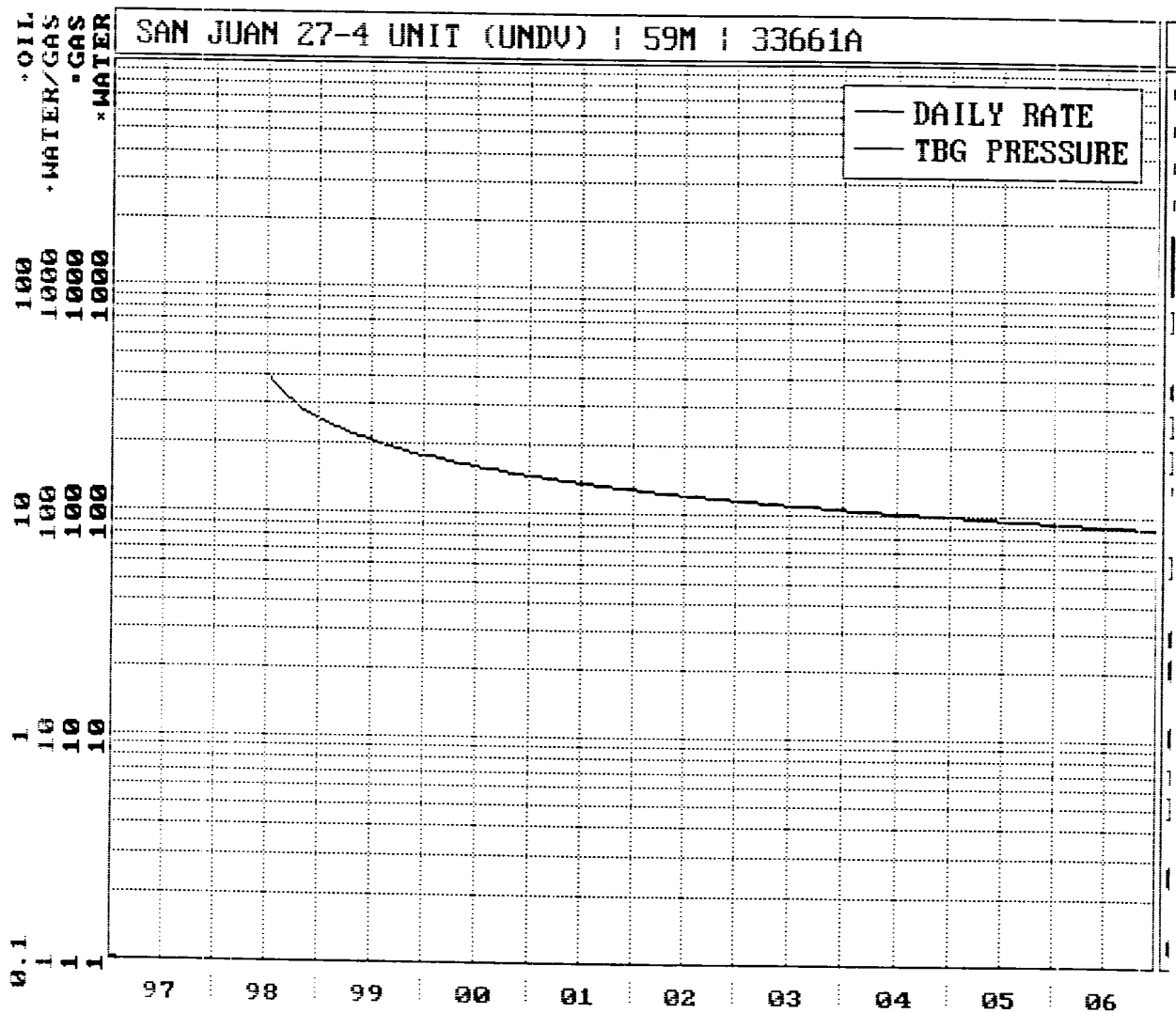
16	5280'(R)			17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained here is true and complete to the best of my knowledge and belief.</i> Signature _____ <u>Peggy Bradfield</u> Printed Name <u>Regulatory Administrator</u> Title _____ Date
Lot 4	Lot 3	Lot 2	Lot 1	
5267'(R) RECEIVED JUL 5 1998 OIL & GAS DIVISION		NMSF - 080668		18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this 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.</i> April 28, 1998 Date of Survey _____ Signature and Seal of Professional Surveyor _____
5274'(R)		1010' 1630'		7016 Certificate Number

(R) - GLO Record

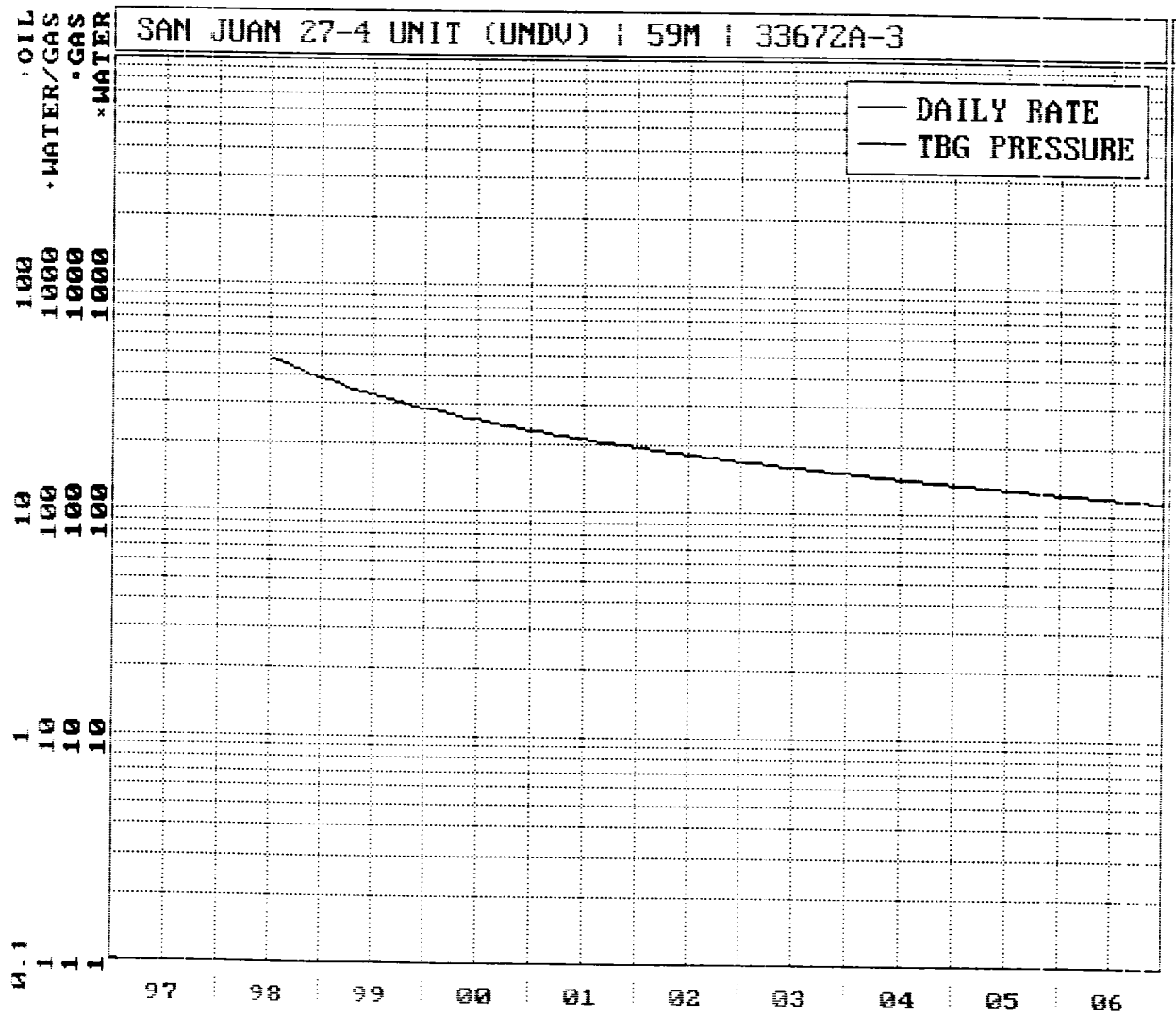
San Juan 27-4 Unit #59M

Expected Production Curve

Blanco Mesaverde



San Juan 27-4 Unit #59M
Expected Production Curve
Basin Dakota



SJ 27-4 Unit #59M
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	0.679	GAS GRAVITY	0.613
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.26	%N2	0.46
%CO2	0.92	%CO2	1.71
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5350	DEPTH (FT)	8458
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)	559	SURFACE PRESSURE (PSIA)	832
BOTTOMHOLE PRESSURE (PSIA)	639.5	BOTTOMHOLE PRESSURE (PSIA)	999.3
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.679	GAS GRAVITY	0.613
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.26	%N2	0.46
%CO2	0.92	%CO2	1.71
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5350	DEPTH (FT)	8458
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)	1193	SURFACE PRESSURE (PSIA)	2264
BOTTOMHOLE PRESSURE (PSIA)	1385.0	BOTTOMHOLE PRESSURE (PSIA)	2759.5

Page No.: 1
Print Time: Mon Jan 19 13:45:07 1998
Property ID: 11411
Property Name: SAN JUAN 27-4 UNIT | 18 | 52077A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP
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San Juan 27-4 #59M
Mesaverde Offset

07/08/58	1193.0	- original
09/11/58	1192.0	
12/14/58	795.0	
06/14/59	734.0	
06/14/60	712.0	
06/13/61	679.0	
01/20/62	676.0	
07/31/62	664.0	
01/07/63	659.0	
01/02/64	699.0	
07/29/65	655.0	
08/01/66	646.0	
08/04/67	624.0	
05/10/68	621.0	
06/09/70	587.0	
05/03/71	526.0	
05/30/72	496.0	
08/07/74	577.0	
02/20/81	562.0	
04/21/86	810.0	
09/04/89	795.0	
02/18/91	536.0	
08/20/91	548.0	
05/03/93	559.0	- current

Page No.: 2
Print Time: Mon Jan 19 13:45:07 1998
Property ID: 1655
Property Name: SAN JUAN 27-4 UNIT | 70 | 44637A-1
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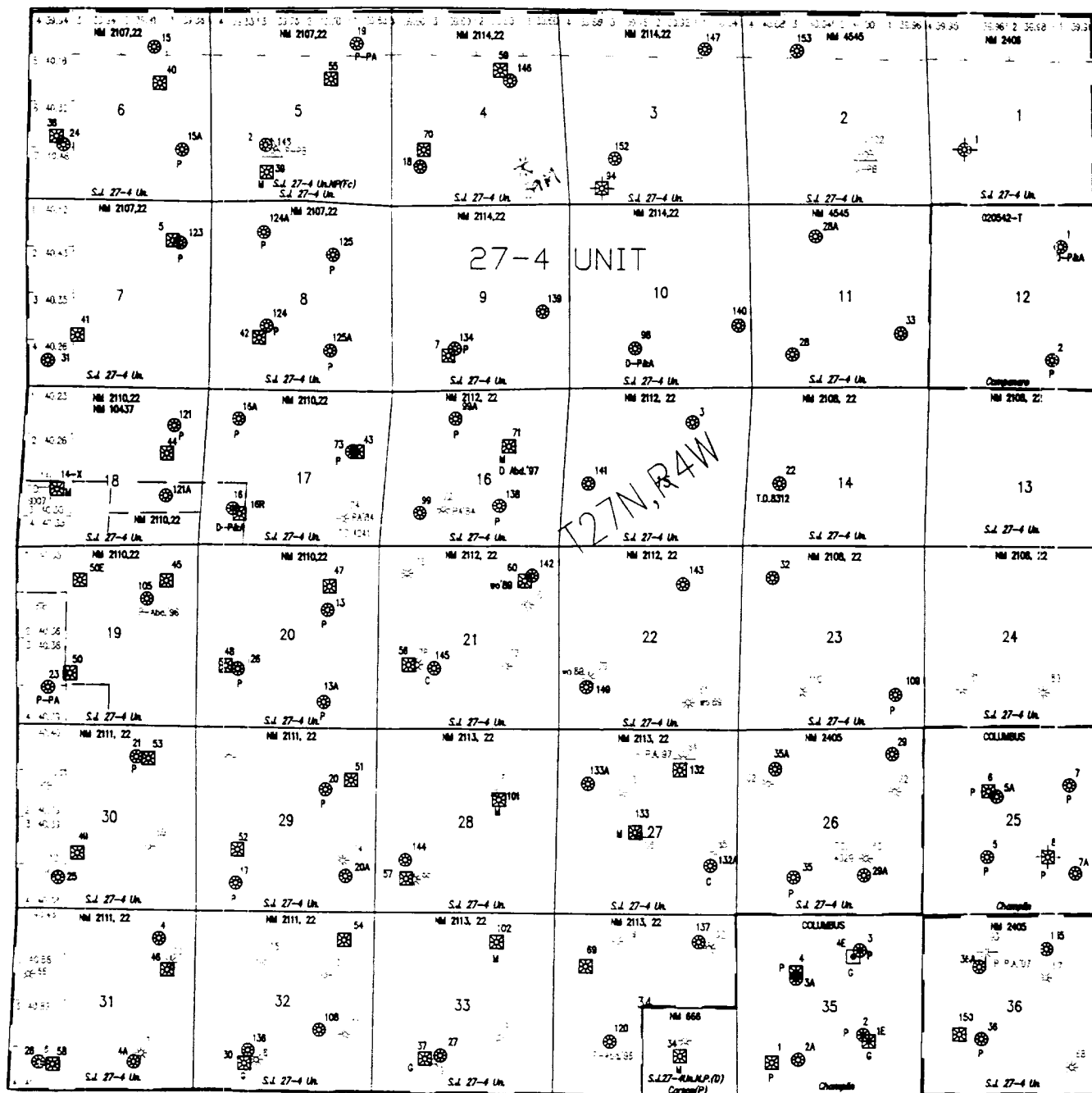
--DATE-- M SIWHP
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01/31/75	2264.0	-original
06/23/75	1412.0	
06/25/76	1027.0	
07/06/77	984.0	
06/05/85	856.0	
09/29/93	832.0	-current

San Juan 27-4 Unit -#59M

Dakota Offset

27N-04W-04



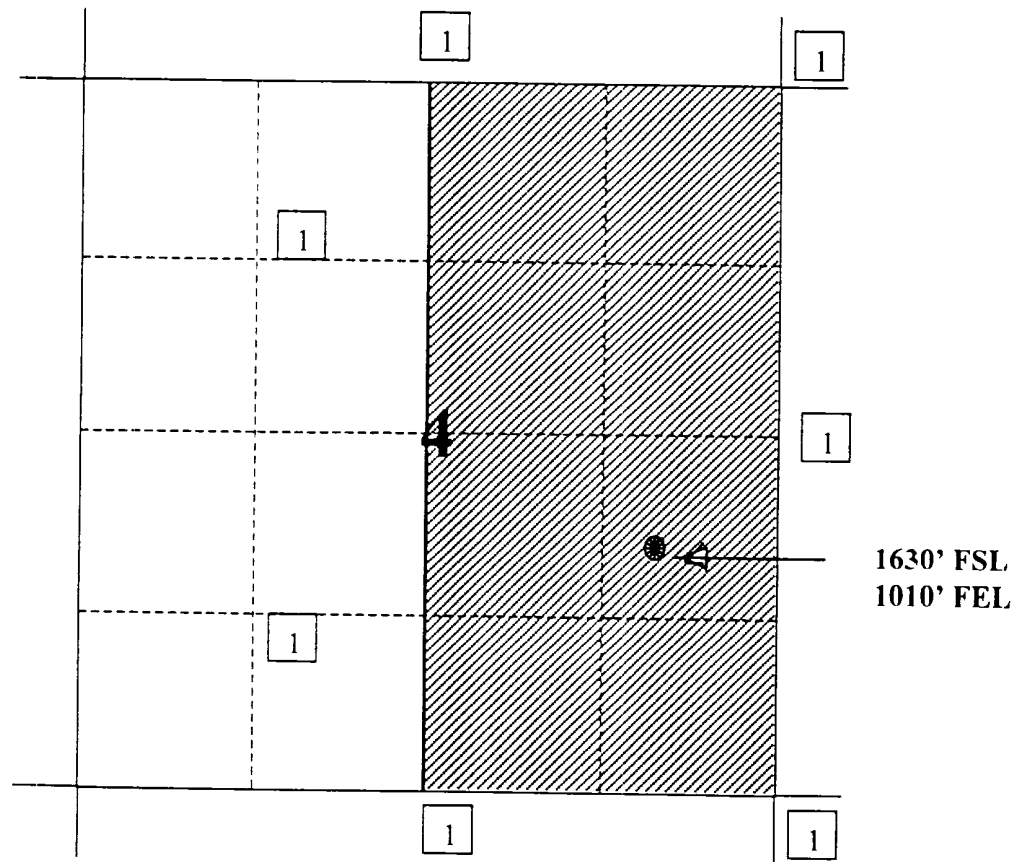
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #59M

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources