

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 27-5 Unit

104M

E - 12-27N-05W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7454 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. 645 psi (see attachment) (Original) b. 1333 psi (see attachment)	a. b. DIST. 3	a. 1040 psi (see attachment) b. 3075 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1178		BTU 1079
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 * 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:
	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 ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). Reference Order R-10694 attached

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: 06-08-98TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

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

District II
PO Drawer 30, 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
Revised February 21,
Instructions on
Submit to Appropriate District
State Lease - 10
Fee Lease - 30

☐ AMENDED REF

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-039-	72319/71599	Blanco Mesaverde/Basin Dakota
Property Code	Property Name	Well Number
7454	SAN JUAN 27-5 UNIT	104M
GRID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	7322'

10 Surface Location

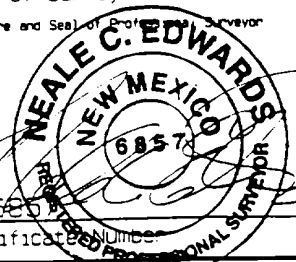
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Count
E	12	27N	5W		1400	NORTH	1070	WEST	RI ARRI

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	Count

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
MV-W/320, DK-N/320			

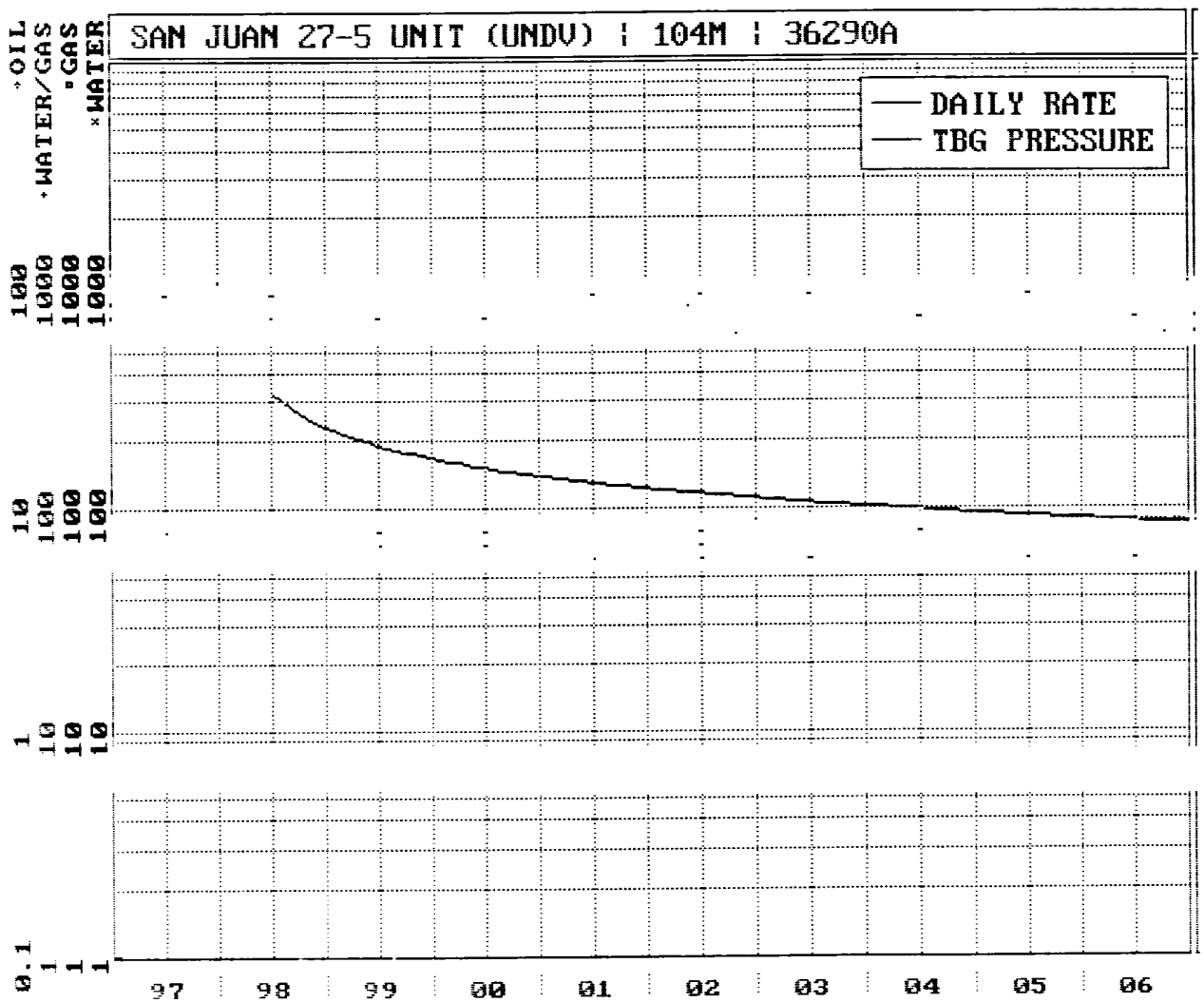
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

15 5314.98' 1400' 2536.38' 1070' NMSF-079491 2602.38' NMSF-079491 12 2628.78' 5338.74' 2783.88'	17 OPERATOR CERTIFICATE I hereby certify that the information contained hereon is true and complete to the best of my knowledge and belief. Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date 18 SURVEYOR CERTIFICATE I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made on or under my supervision and that the same is true and correct to the best of my belief. APRIL 2, 1998 Date of Survey Signature and Seal of Professional Surveyor  Certification Number
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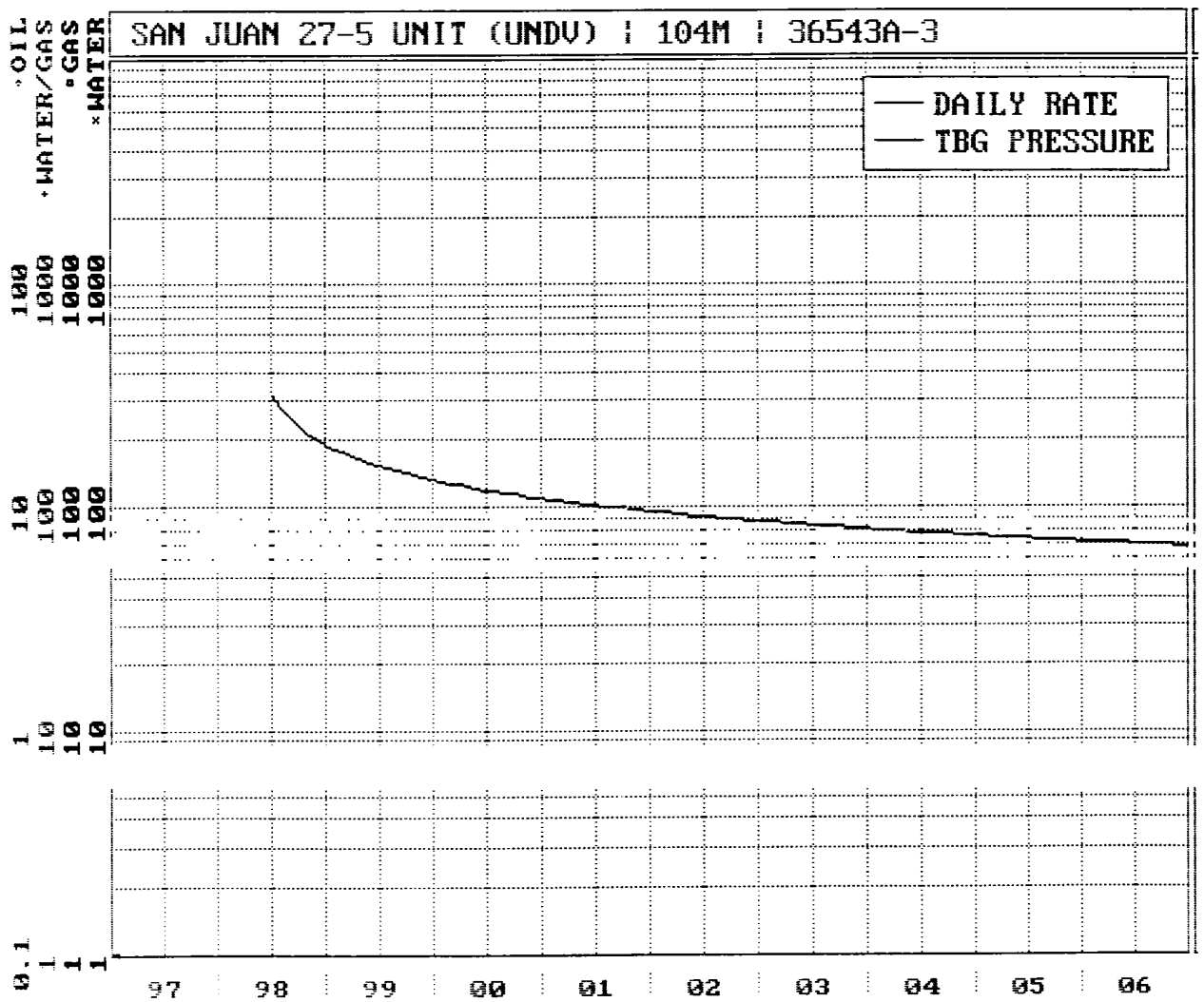
San Juan 27-5 Unit #104M

Expected Production Curve

Blanco Mesaverde



San Juan 27-5 Unit #104M
Expected Production Curve
Basin Dakota



San Juan 27-5 Unit #104M

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	0.69	GAS GRAVITY	0.633
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.22	%N2	0.26
%CO2	0.91	%CO2	1.37
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	6652	DEPTH (FT)	8305
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)	544	SURFACE PRESSURE (PSIA)	862
BOTTOMHOLE PRESSURE (PSIA)	644.9	BOTTOMHOLE PRESSURE (PSIA)	1040.1
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.69	GAS GRAVITY	0.633
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.22	%N2	0.26
%CO2	0.91	%CO2	1.37
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	6652	DEPTH (FT)	8305
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)	1105	SURFACE PRESSURE (PSIA)	2512
BOTTOMHOLE PRESSURE (PSIA)	1333.3	BOTTOMHOLE PRESSURE (PSIA)	3074.9

Page No.: 1

Print Time: Thu Jan 29 15:16:36 1998

Property ID: 1751

Property Name: SAN JUAN 27-5 UNIT | 99 | 52182A-1

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

--DATE-- M SIWHP

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San Juan 27-5 #104m

Dakota Offset

11/15/65	2512.0	-original
11/30/65	2511.0	
04/20/66	2511.0	
11/21/66	1796.0	
08/04/67	1487.0	
05/10/68	1395.0	
05/29/69	1344.0	
06/09/70	1355.0	
05/03/71	1213.0	
05/30/72	1222.0	
05/16/73	1151.0	
06/23/75	1117.0	
07/06/77	1019.0	
05/01/79	1009.0	
05/21/81	1014.0	
08/30/83	1189.0	
02/22/84	1178.0	
06/06/85	1239.0	
05/19/88	1275.0	
04/22/90	936.0	
07/28/92	833.0	
12/08/94	862.0	- current

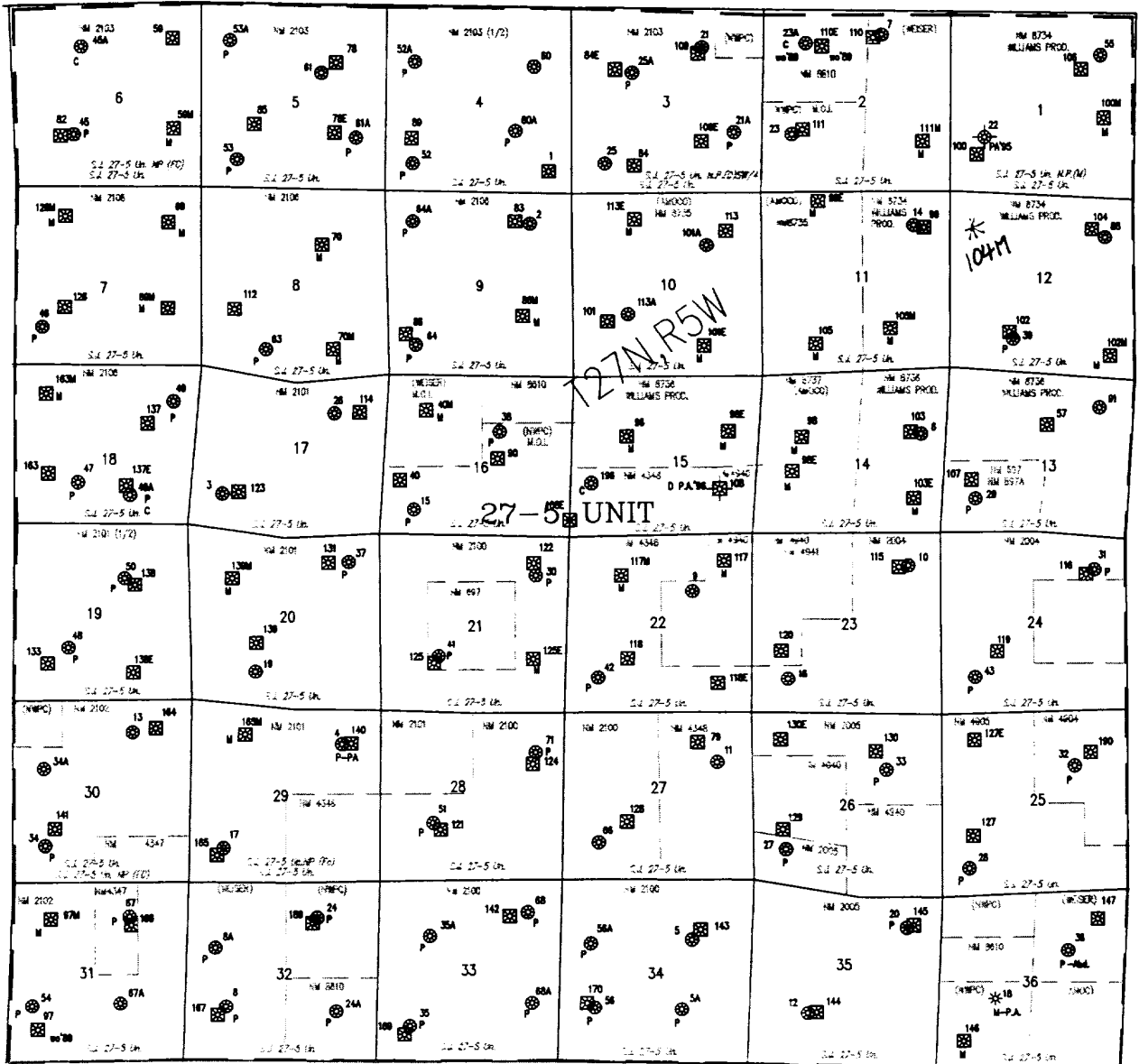
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Property ID: 3822
Property Name: SAN JUAN 27-5 UNIT | 14 | 51847A-1
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:Psi:

San Juan 27-5 #104M
mesaverde Offset

02/17/56	0.0	
03/01/56	1105.0	- original
05/01/56	1117.0	
05/06/58	821.0	
06/14/59	892.0	
06/14/60	715.0	
06/13/61	666.0	
07/31/62	604.0	
07/18/63	639.0	
01/02/64	684.0	
07/29/65	633.0	
08/01/66	625.0	
08/04/67	609.0	
05/10/68	624.0	
06/09/70	546.0	
05/03/71	532.0	
05/30/72	518.0	
08/07/74	501.0	
06/25/76	524.0	
08/02/78	596.0	
11/01/82	599.0	
04/07/86	566.0	
08/07/89	638.0	
05/20/91	612.0	
06/21/91	624.0	
05/03/93	544.0	- current

San Juan 27-5 Unit #104M
Blanco Mesaverde / Basin Dakota
27N-05W-12



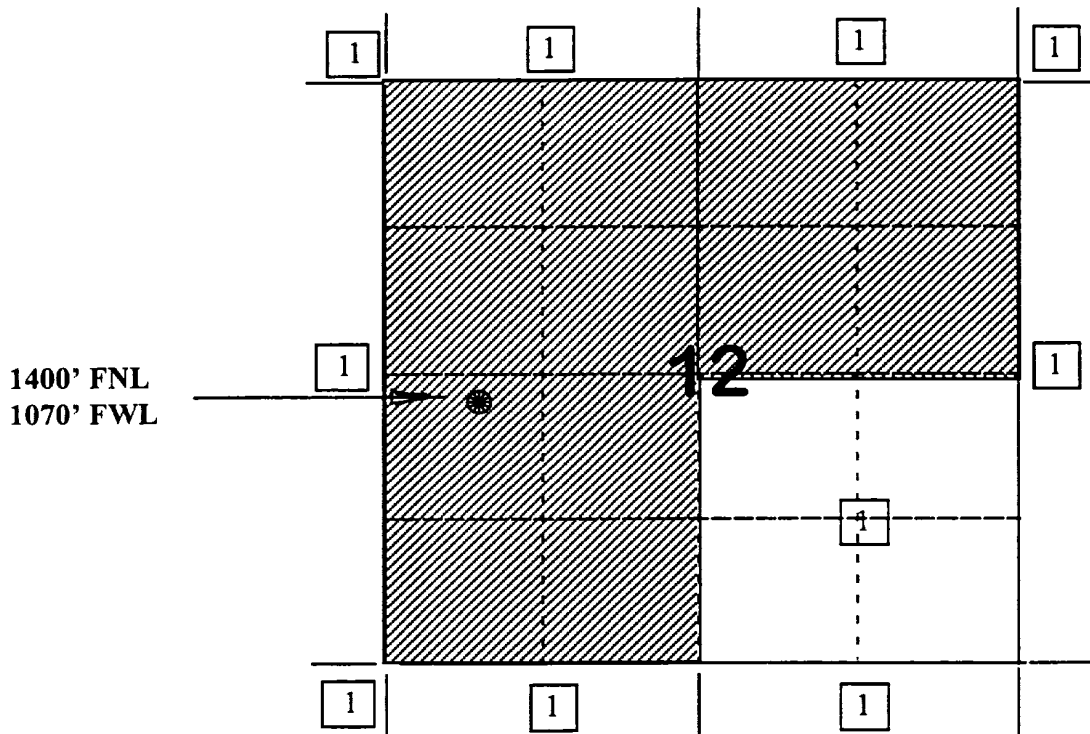
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-5 Unit #104M

OFFSET OPERATOR/OWNER PLAT

Mesaverde (W/2) / Dakota (N/2) Formations Commingle Well

Township 27 North, Range 5 West



1) Burlington Resources