

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

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

119M

24-27N-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. 531 psi (see attachment) (Original) b. 1355 psi (see attachment)	a. b.	a. 1066 psi (see attachment) b. 3152 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1173		BTU 1193
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). 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: 06-08-98

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

District I
PO Box 1990, Hobbs, NM 88241-1990

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1030 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 2,
Instructions c
Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED RE

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-		*Pool Code 72319/71599	*Pool Name Blanco Mesaverde/Basin Dakota
*Property Code 7454	*Property Name SAN JUAN 27-5 UNIT		*Well Number 119M
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 6609'

¹⁰ Surface Location

U. or lot no. 0	Section 24	Township 27N	Range 5W	Lot 100	Feet from the 1045	North/South line SOUTH	Feet from the 1665	East/West line EAST	Cont. R. ARR.
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¹¹ Bottom Hole Location If Different From Surface

U. or lot no.	Section	Township	Range	Lot 100	Feet from the	North/South line	Feet from the	East/West line	Cont.
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¹² Dedicated Acres MV-E/320, DK-S/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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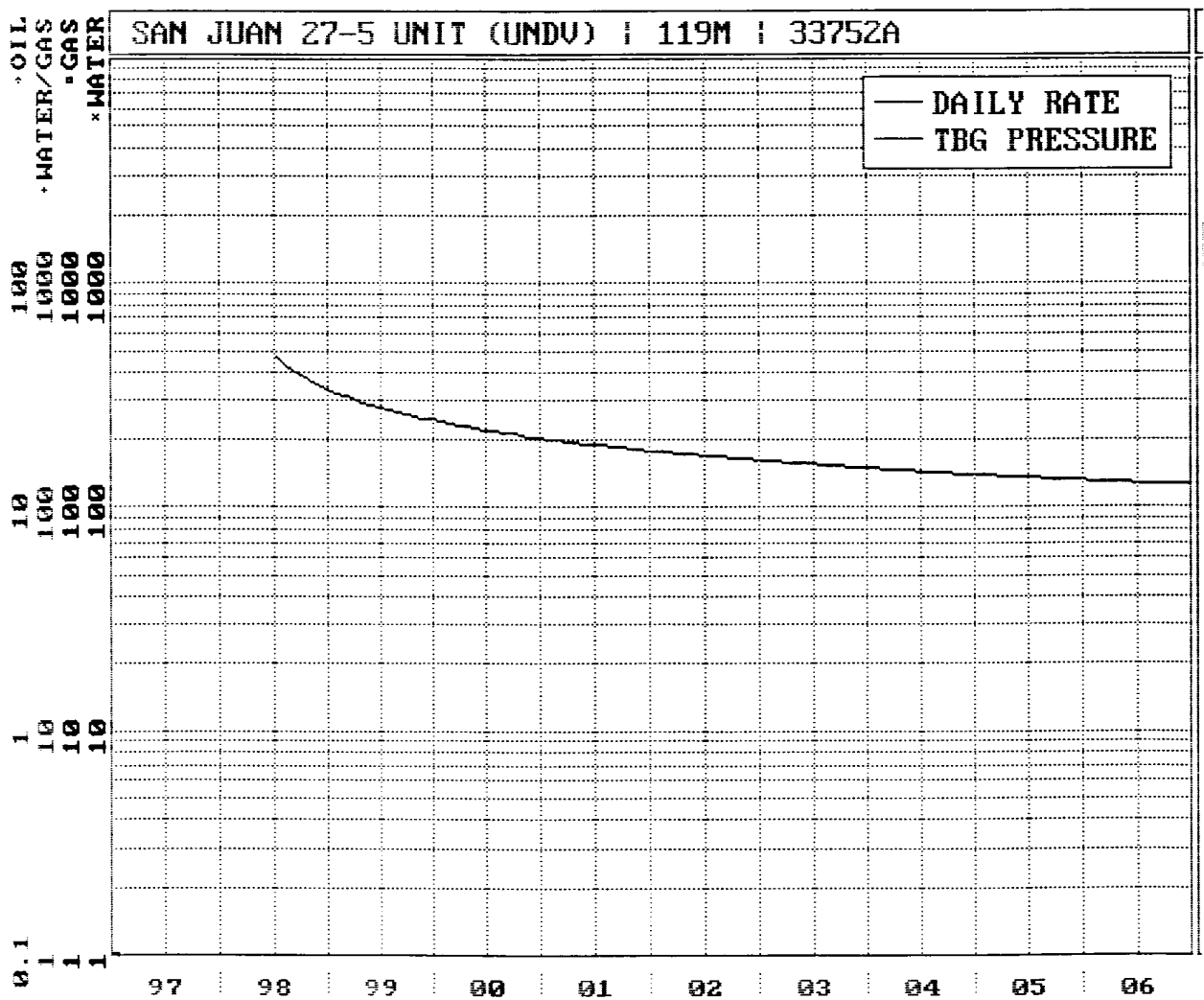
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 2647.92' RECEIVED JUN 9 1998 OIL CON. DIV. DIST. 3	¹⁷ OPERATOR CERTIFICATE I hereby certify that the information contained 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 or under my supervision, and that the same is true and correct to the best of my belief. APRIL 8, 1998 Date of Survey Signature and Seal of Neale C. Edwards NEALE C. EDWARDS NEW MEXICO 6851 PROFESSIONAL SURVEYOR Certificate No.
2690.82' NMSF-079492B 24 FEE 2640.00' 2638.68'	2640.00' 1665' 1045' 2638.68'

San Juan 27-5 Unit #119M

Expected Production Curve

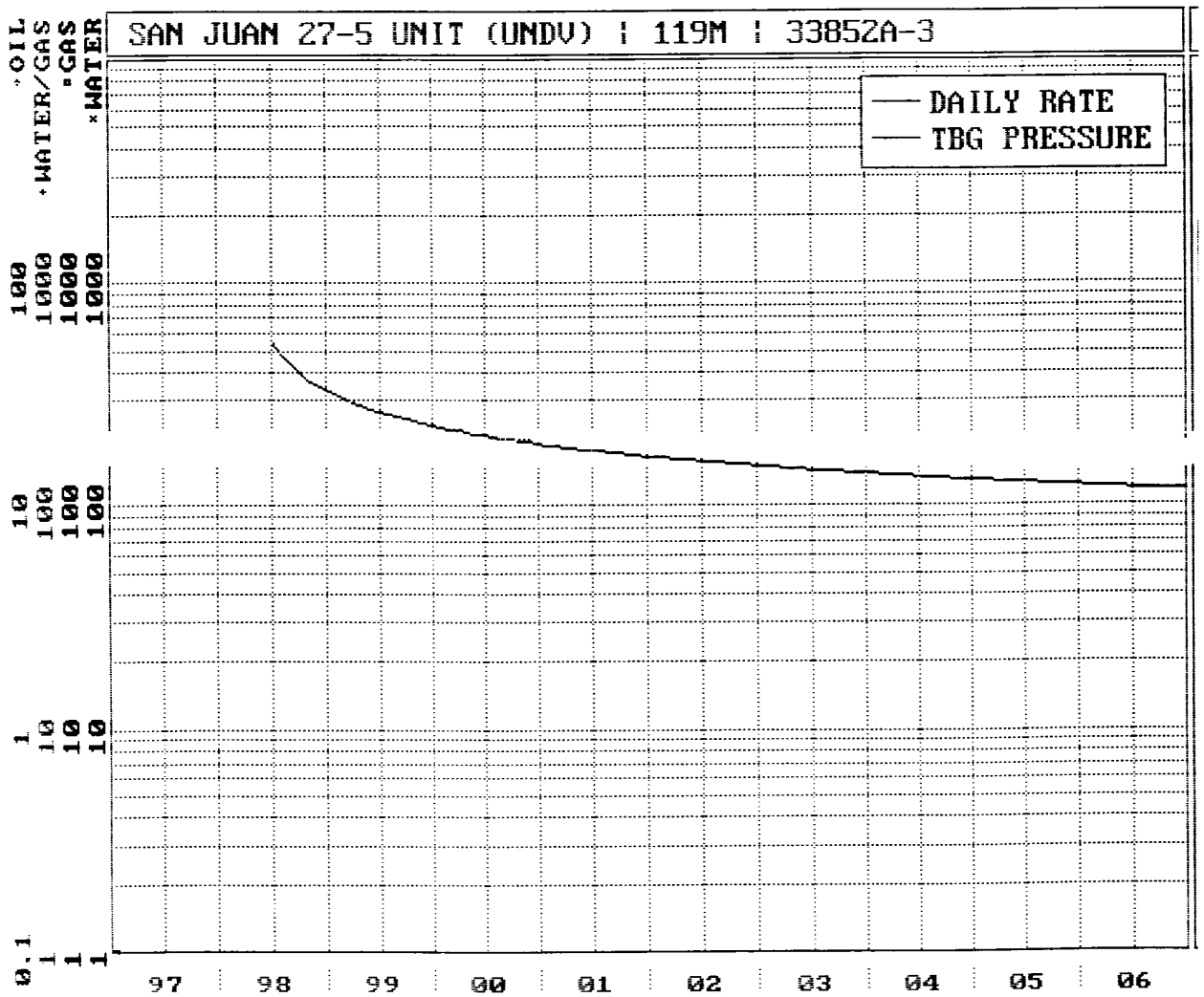
Blanco Mesaverde



San Juan 27-5 Unit #119M

Expected Production Curve

Basin Dakota



San Juan 27-5 Unit #119M

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	0.684	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.24	%N2	0.24
%CO2	0.73	%CO2	1
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5780	DEPTH (FT)	8682
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)	460	SURFACE PRESSURE (PSIA)	853
BOTTOMHOLE PRESSURE (PSIA)	531.3	BOTTOMHOLE PRESSURE (PSIA)	1065.9
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.684	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.24	%N2	0.24
%CO2	0.73	%CO2	1
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5780	DEPTH (FT)	8682
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)	1152	SURFACE PRESSURE (PSIA)	2470
BOTTOMHOLE PRESSURE (PSIA)	1354.9	BOTTOMHOLE PRESSURE (PSIA)	3151.5

Page No.: 1
Print Time: Thu Feb 05 11:16:51 1998
Property ID: 1641
Property Name: SAN JUAN 27-4 UNIT | 50 | 52223A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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■■■■■■■■■■ ■■■Psi■■■

12/17/68	2470.0	- original
09/02/69	1094.0	
08/28/70	1115.0	
04/08/71	1039.0	
08/09/72	980.0	
08/20/73	1031.0	
06/24/75	1058.0	
07/06/77	832.0	
11/01/79	897.0	
04/20/81	801.0	
09/21/83	996.0	
06/05/85	874.0	
04/21/86	923.0	
10/13/88	928.0	
04/22/90	884.0	
07/28/92	853.0	- current

SJ 27-5 #119M
DK Offset

Page No.: 1
Print Time: Thu Feb 05 10:19:49 1998
Property ID: 3843
Property Name: SAN JUAN 27-5 UNIT | 32 | 53363B-1
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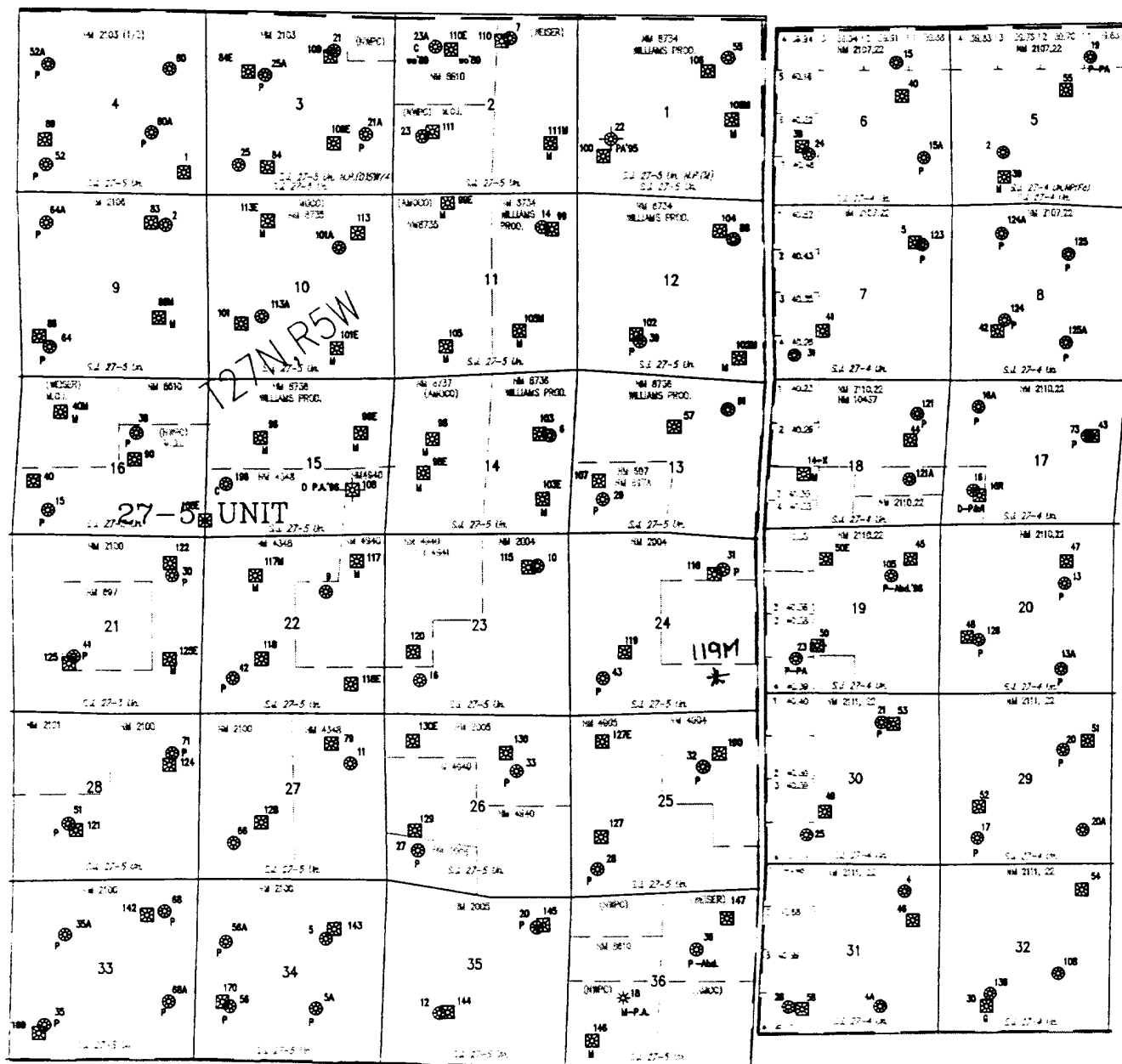
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08/27/58	1152.0	-original
10/07/58	1151.0	
09/22/59	722.0	
05/29/60	690.0	
05/28/61	642.0	
08/06/62	610.0	
04/19/63	617.0	
10/22/64	614.0	
05/10/65	612.0	
04/19/66	562.0	
05/16/67	573.0	
05/02/68	544.0	
08/28/70	522.0	
04/08/71	451.0	
08/09/72	449.0	
12/06/83	409.0	
11/04/86	466.0	
09/08/89	559.0	
08/20/91	680.0	
05/03/93	460.0	-current

SJ 27-5 #119M

MV offset

San Juan 27-5 Unit #119M
Blanco Mesaverde / Basin Dakota
27N-05W-24



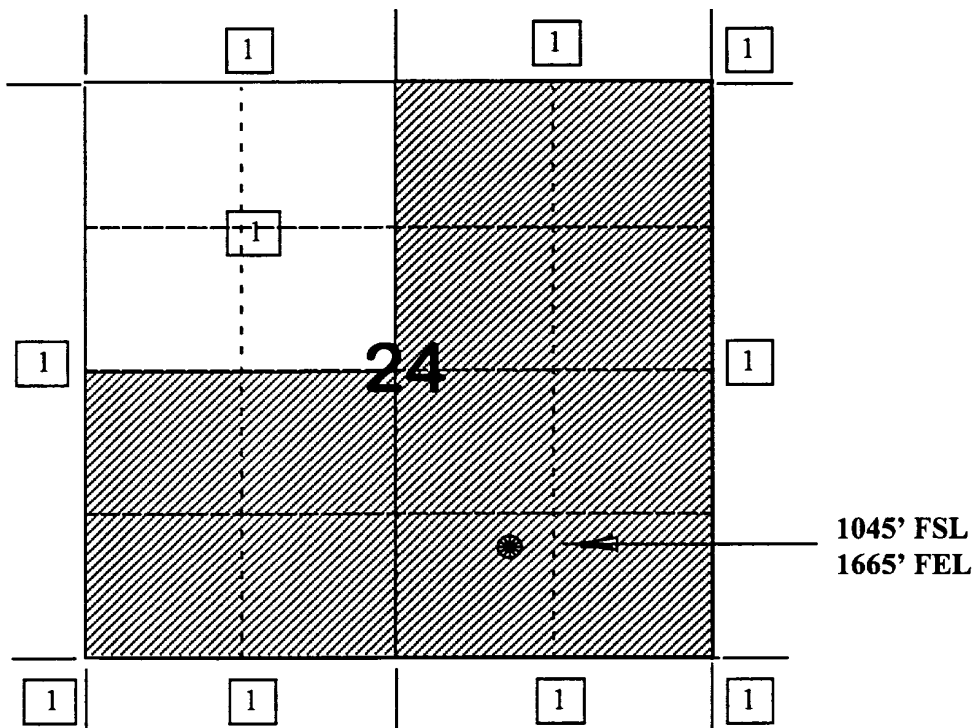
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-5 Unit #119M

OFFSET OPERATOR/OWNER PLAT

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

Township 27 North, Range 5 West



1) Burlington Resources