

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 27-4 Unit

5M

I 07-27N-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. 559 psi (see attachment) (Original) b. 1378 psi (see attachment)	a. b.	a. 1085 psi (see attachment) b. 3151 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1187		BTU 1102
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 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 ☐ 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: 06-29-98

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

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer 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
Revised February 2
Instructions
Submit to Appropriate District
State Lease - 4
Fee Lease - 3

☐ AMENDED R

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 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number # 5M
⁷ OORID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	⁹ Elevation 6950

¹⁰ Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	7	27 N	4 W		1470	SOUTH	840	EAST	RIO A

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	County

¹² Dedicated Acres
MV-E/320
DK-E/320

¹³ Joint or Infill

¹⁴ Consolidation Code

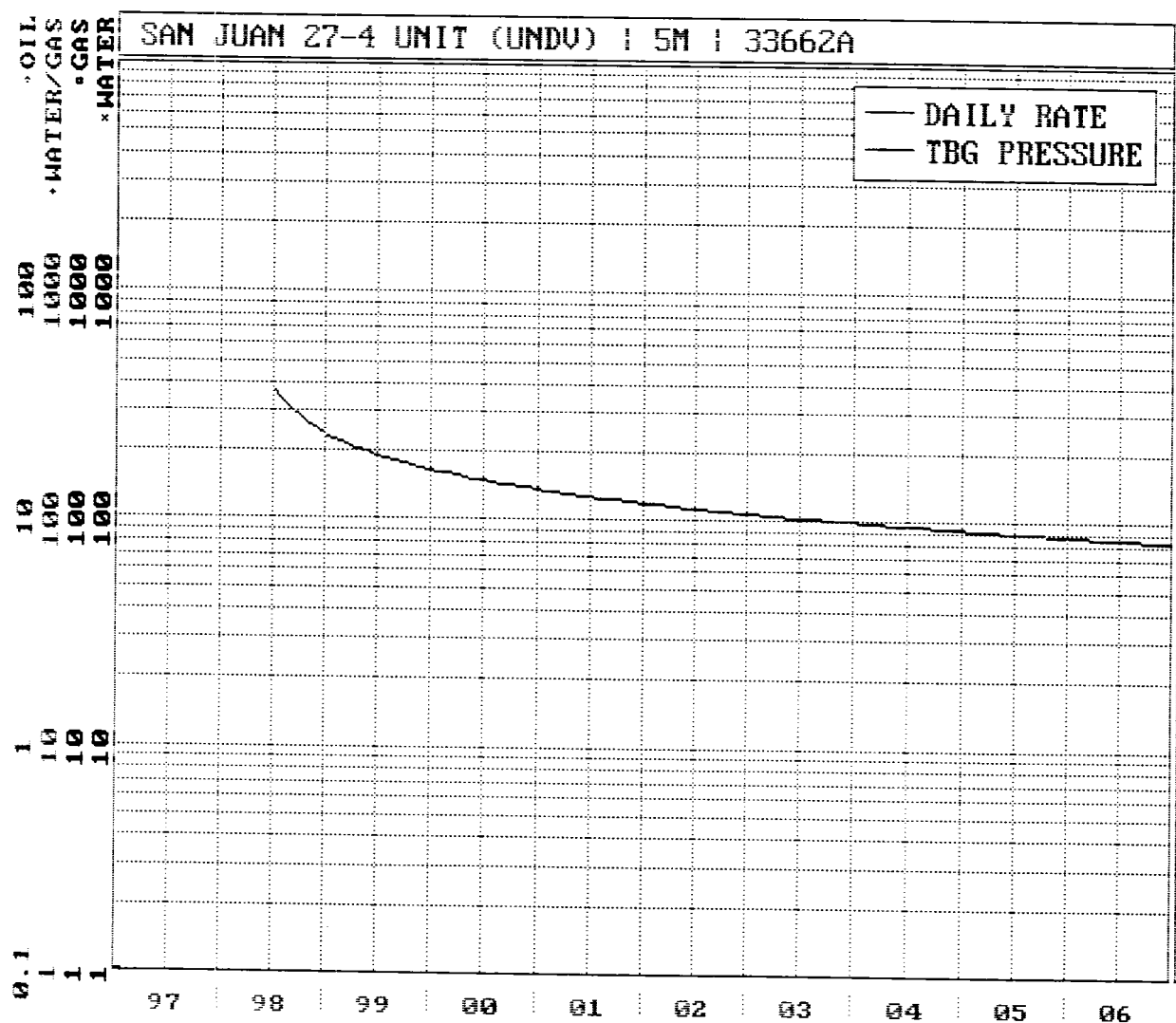
¹⁵ Order No.

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

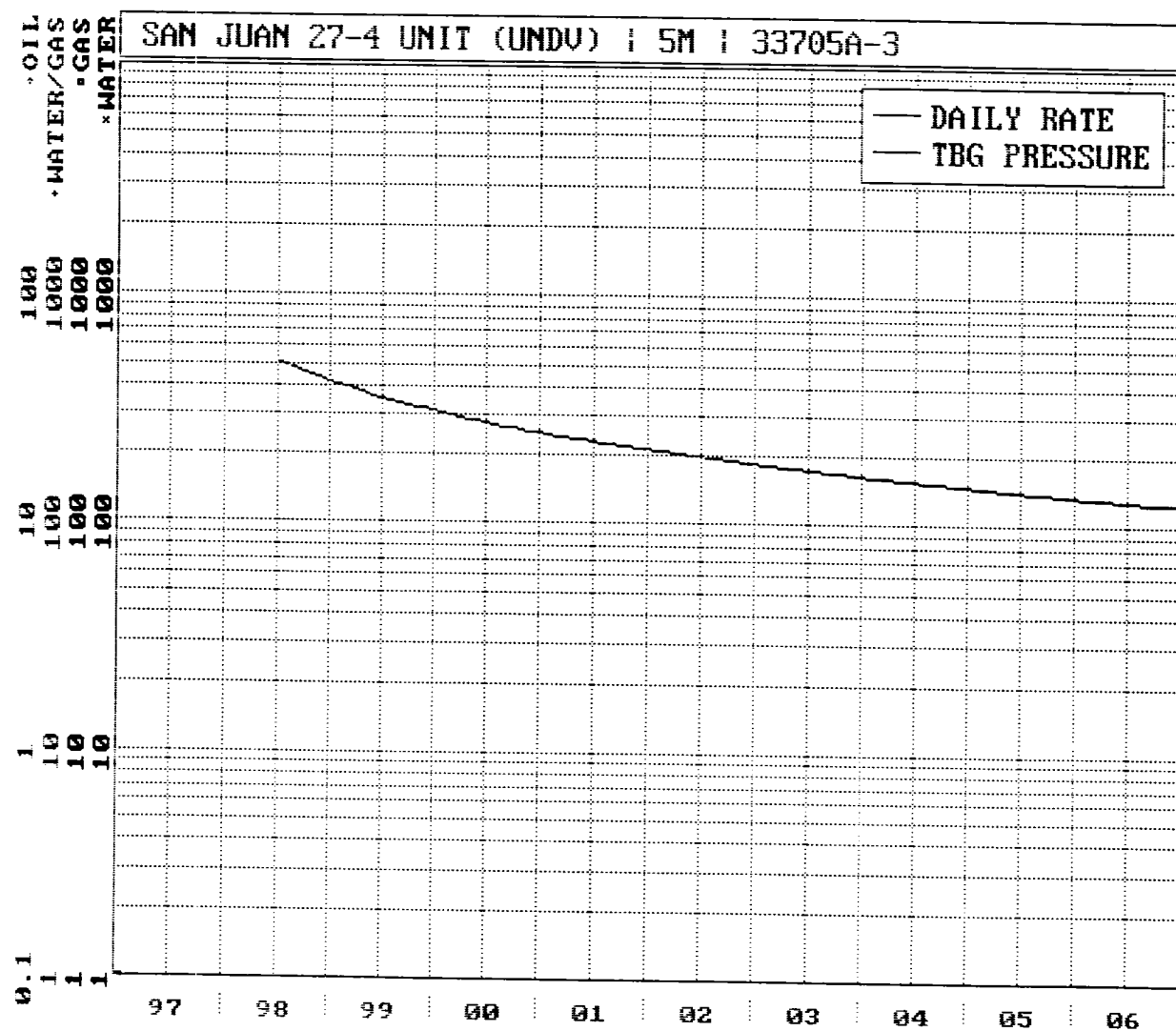
BLM Record 2602.38' 2783.88'	16	5298'(R)	7	5280'(R)	840'	1470'	7016	7016	7016
	Lot 1								
	Lot 2	NMSF - 080673							
	Lot 3								
	Lot 4								
								¹⁷ OPERATOR CERTIFICATE I hereby certify that the information contained true and complete to the best of my knowledge Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date ¹⁸ SURVEYOR CERTIFICATE I hereby certify that the well location shown was plotted from field notes of actual surveys or under my supervision, and that the same correct to the best of my belief. February 17, 1998 Date of Survey Signature and Seal of Professional Surveyor GARY D. VANDERKAM NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 7016 Certificate Number	

(R) - GLO Record

San Juan 27-4 Unit #5M
Expected Production Curve
Blanco Mesaverde



San Juan 27-4 Unit #5M
Expected Production Curve
Basin Dakota



SJ 27-4 Unit #5M
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	0.699	GAS GRAVITY	0.644
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.46	%N2	0.16
%CO2	0.96	%CO2	1.18
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2
DEPTH (FT)	6345	DEPTH (FT)	8312
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)	475	SURFACE PRESSURE (PSIA)	895
BOTTOMHOLE PRESSURE (PSIA)	558.9	BOTTOMHOLE PRESSURE (PSIA)	1085.4
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.699	GAS GRAVITY	0.644
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.46	%N2	0.16
%CO2	0.96	%CO2	1.18
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2
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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)	1147	SURFACE PRESSURE (PSIA)	2562
BOTTOMHOLE PRESSURE (PSIA)	1377.7	BOTTOMHOLE PRESSURE (PSIA)	3151.1

Page No.: 2

Print Time: Mon Jan 19 14:57:53 1998

Property ID: 3756

Property Name: SAN JUAN 27-4 UNIT | 123 | 53332A-1

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

--DATE-- M SIWHP

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San Juan 27-4 #5m

Mesavende Offset

08/24/77	1147.0	-original
01/10/78	649.0	
11/10/78	539.0	
10/03/79	464.0	
06/04/80	432.0	
11/01/82	509.0	
06/21/84	472.0	
11/06/86	408.0	
08/07/89	668.0	
03/18/91	504.0	
06/07/91	516.0	
05/31/93	475.0	- current

Page No.: 1

Print Time: Mon Jan 19 14:57:53 1998

Property ID: 1640

Property Name: SAN JUAN 27-4 UNIT | 5 | 49505A-1

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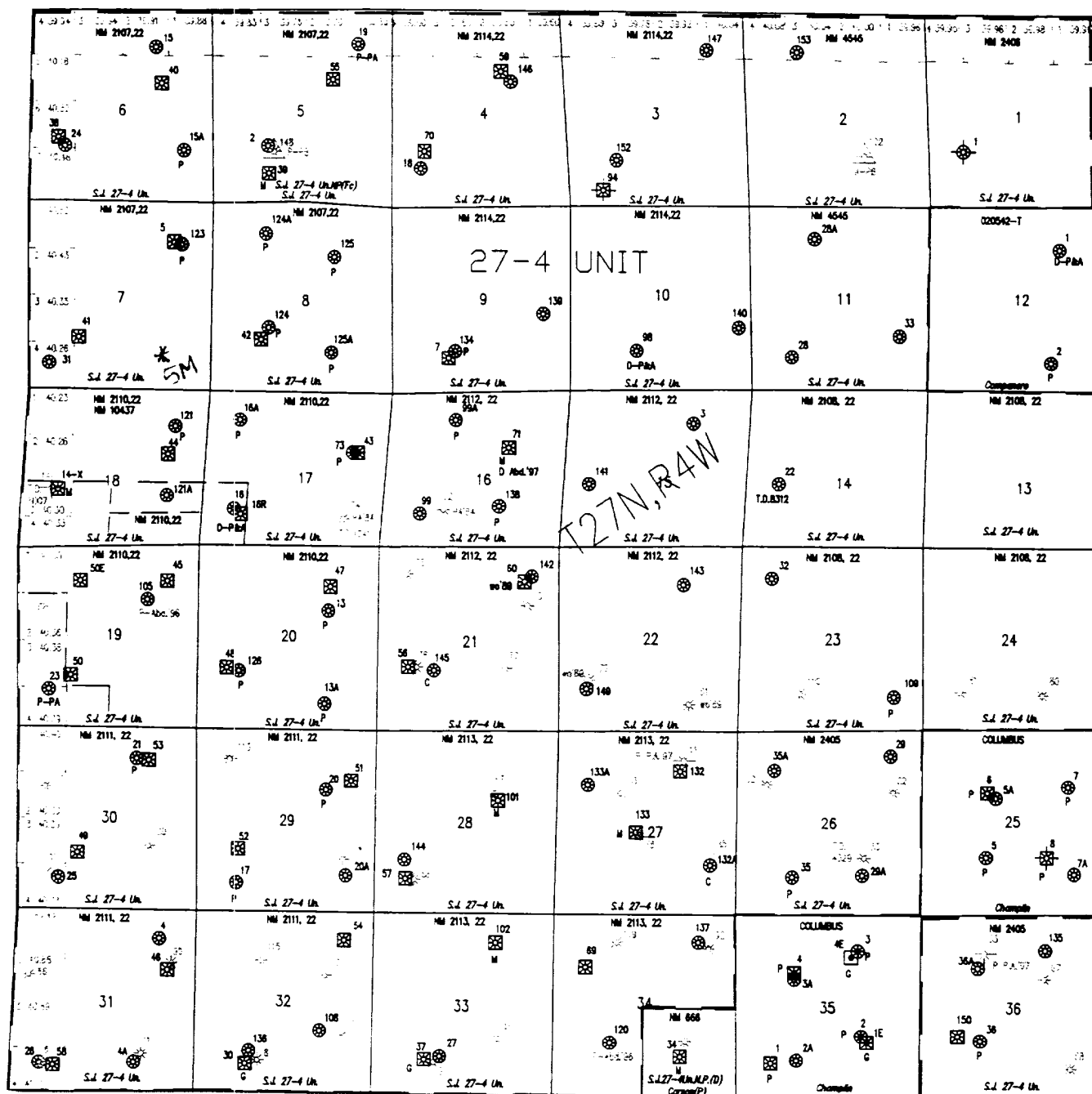
--DATE-- M SIWHP
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San Juan 27-4 #5m

Dakota Offset

09/14/55	2562.0	-original
06/14/59	1993.0	
09/22/60	1944.0	
06/13/61	1841.0	
07/31/62	1947.0	
01/07/63	1942.0	
01/02/64	1920.0	
01/26/65	1929.0	
08/01/66	1984.0	
08/04/67	1863.0	
05/10/68	1908.0	
06/09/70	1602.0	
05/03/71	1474.0	
05/30/72	1379.0	
06/23/75	1117.0	
07/06/77	1020.0	
10/03/79	690.0	
05/21/81	914.0	
06/06/85	895.0	-current

27N-04W-07



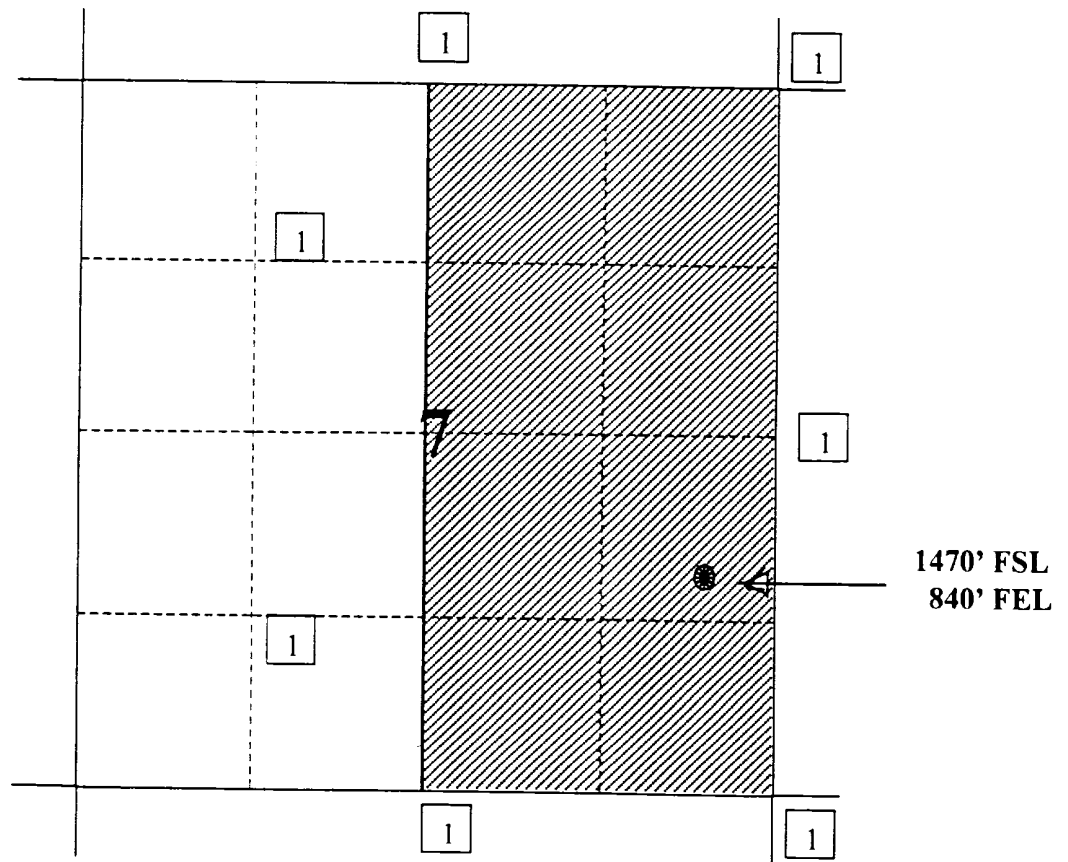
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #5M

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources