

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 28-6 Unit

#203M

O Sec 7, T27N, R6W

Rio Arriba, New Mexico

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7462 API NO. 30-039-25451 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)	4850'-5757'		7454'-7658'
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. 394 psia @ 5304' (Original) b. 1282 psia @ 5304'		Measured a. 789 psia @ 7556' b. 3396 psia @ 7556'
6. Oil Gravity (°API) or Gas BTU Content	1248		1134
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		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: 4/6/98 Rates: 27 MCFD 0 BO, 0 BW	Date: Rates:	Date: 4/6/98 Rates: 131 MCFD, 0.8 BO, 0 BW
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: N/A Gas: N/A will be supplied upon completion	Oil: % Gas: %	Oil: N/A Gas: N/A 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. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10696

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 Kevin Midkiff TITLE Production Engineer DATE 06-08-98

TYPE OR PRINT NAME Kevin Midkiff TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, 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 C-10
Revised February 21, 1995
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-	Pool Code 72319/71599	Pool Name Blanco Mesa Verde/Basin Dakota
Property Code	Property Name San Juan 28-6 Unit	Well Number 203M
GRID No. 14538	Operator Name MERIDIAN OIL INC.	Elevation 6568'

10 Surface Location

UL or lot no. 0	Section 7	Township 27 N	Range 6 W	Lot Ids	Feet from the 1135	North/South line South	Feet from the 1790	East/West line East	County R.A.
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11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 320/320	13 Joint or Infill I	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 1259.28' 1305.48' 2610.96' 5227.86' 297.00' 1311.42' 2623.50' 1135' 1790'	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 Representative Title Date 5-19-94 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. Date of Survey Signature and Seal Certificate Number 6857
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*WATER
 •GAS
 OIL/GAS
 Mcf/m

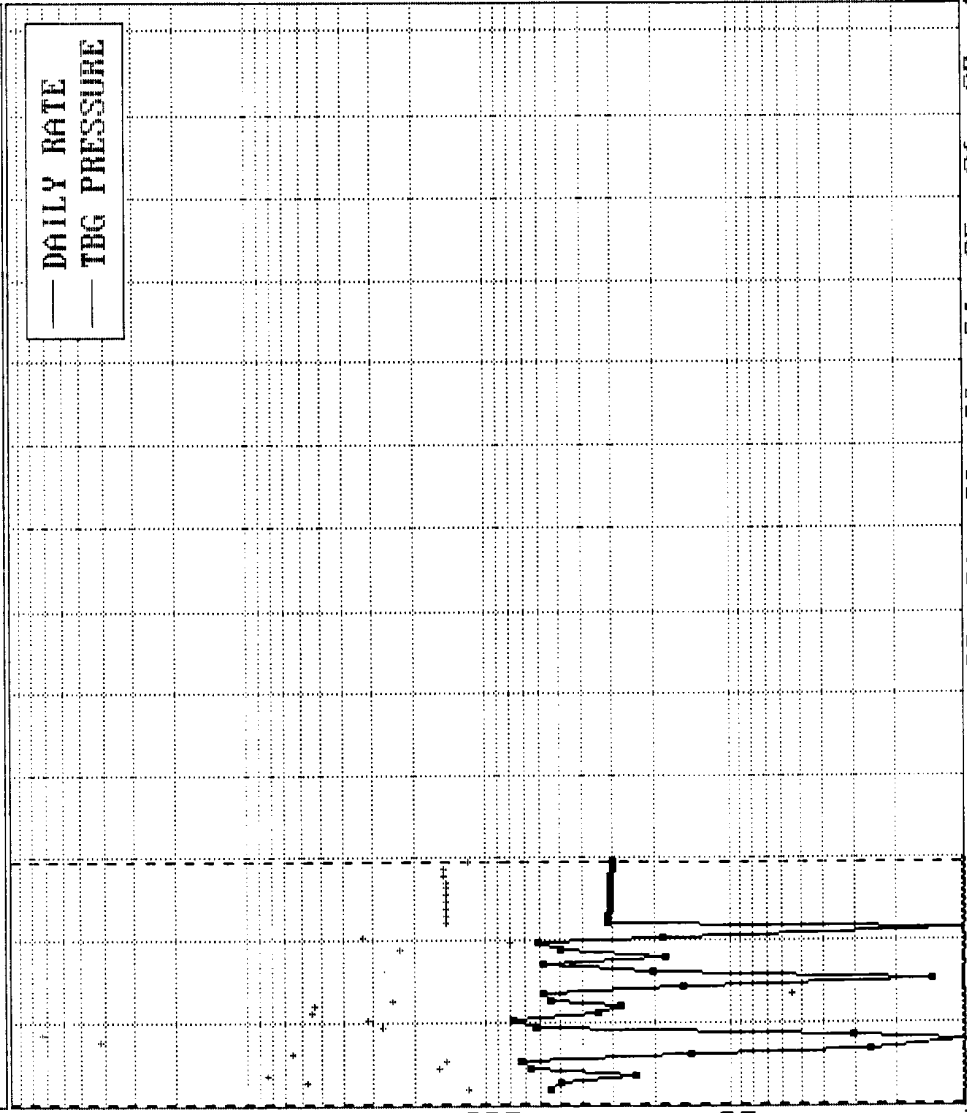
SAN JUAN 28-6 UNIT : 203M : 33694A-1 MESA VERDE

Prop 191 *

— DAILY RATE
 — TBG PRESSURE

○ *WATER Bbls/d
 ● •GAS Mcf/d
 ○ •OIL/GAS Bbl/d
 ○

RateTime
 Semi Log



Major = GAS

SAN JUAN 28-6 UNIT : 203M : 35543A-1 DAKOTA

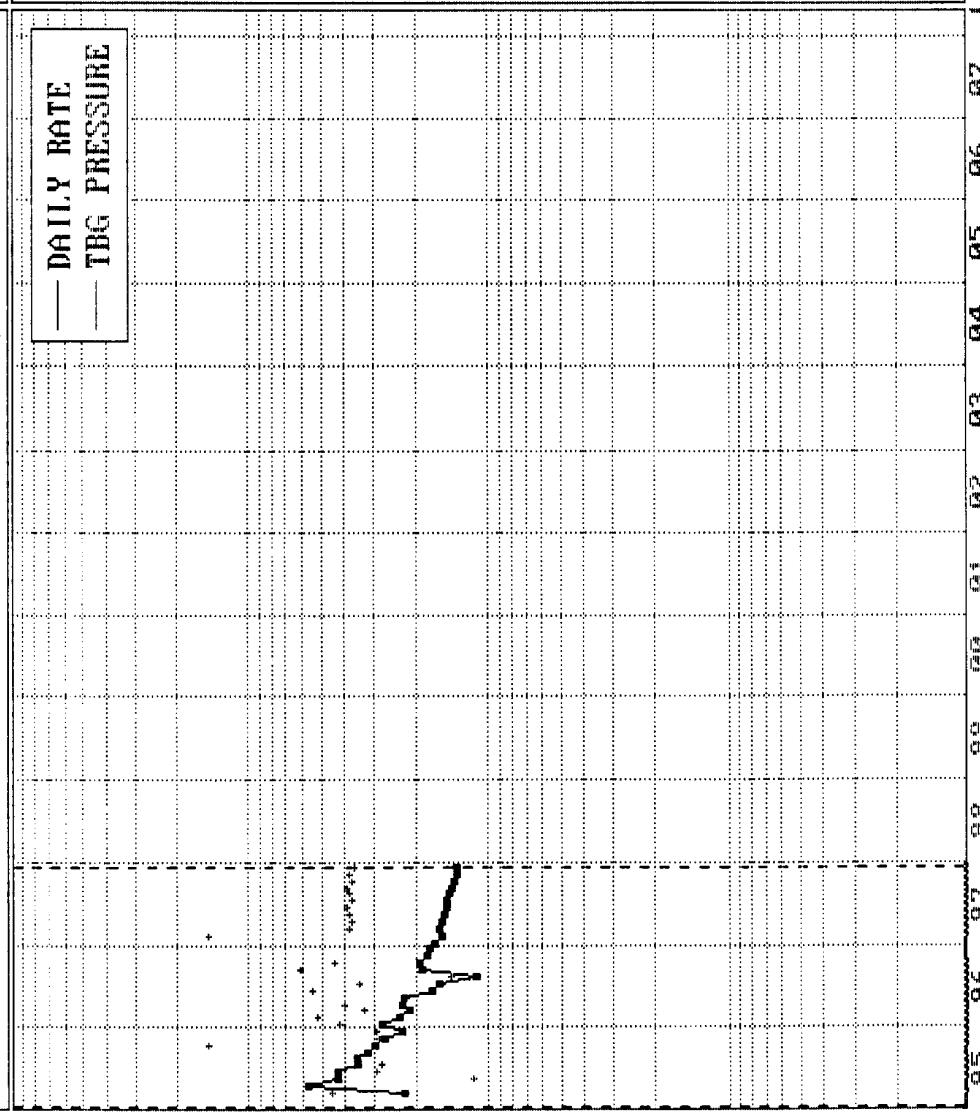
*WATER
• GAS
OIL/GAS
Mcf/m

— DAILY RATE
— TBG PRESSURE

RateTime
Semi Log

Prop 192 *

☐ *WATER Bbls/d
☒ • GAS Mcf/d
☐ • OIL/GAS Bbl/M



Major = GAS

Package Preparation Volume Data

DPNo: 33694A SAN JUAN 28-6 UNIT 203M Form: MV

Supt: 60 KEN RAYBON FF: 339 WARD ARNOLD MS: 307 SHELDON MONTOYA
Pipeline: EPNG Plunger: No Dual: Yes Compressor: No

<u>Ownership (No Trust)</u>			<u>Prior Year</u>			<u>Current Year</u>			
	<u>Gas</u>	<u>Oil</u>		<u>MCF/M</u>	<u>BOPM</u>	<u>Days On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>Days On</u>
GWI:	37.1949%	37.1949%							
GNI:	29.3156%	29.3156%	Jan	552	0.0	31	170	0.0	21.1
			Feb	0	0.0	23	0	0.0	27.5
			Mar	0	0.0	31	0	0.0	0
			Apr	0	0.0	30	0	0.0	0
			May	1,353	0.0	31	0	0.0	0
			Jun	860	0.0	19.9	0	0.0	0
			Jul	738	19.0	17	0	0.0	0
			Aug	1,372	0.0	31	0	0.0	0
			Sept	1,206	0.0	30	0	0.0	0
			Oct	1,075	0.0	21	0	0.0	0
			Nov	1,035	0.0	29.5	0	0.0	0
			Dec	974	0.0	31	0	0.0	0
			Total	9,165	19.0		170	0.0	
<u>Volumes (Days On)</u>									
	<u>MCFD</u>	<u>BOPD</u>							
7 Day Avg	12	0.0							
30 Day Avg	27	0.0							
60 Day Avg	19	0.0							
3 Mo Avg	27	0.0							
6 Mo Avg	40	0.0							
12 MoAvg	29	0.1							
<u>Volumes (Days in Month)</u>									
	<u>MCFD</u>	<u>BOPD</u>							
30 Day Avg	26	0.0							
60 Day Avg	15	0.0							
3 Mo Avg	24	0.0							
6 Mo Avg	32	0.0							
12 Mo Avg	24	0.1							

Print Form

Exit Volumes Data

4/8/1998

Package Preparation Volume Data

DPNo: 35543A

SAN JUAN 28-6 UNIT

203M

Form: DK

Supt: 60 KEN RAYBON

FF: 339 WARD ARNOLD

MS: 307 SHELDON MONTOYA

Pipeline: EPNG

Plunger: No

Dual: Yes

Compressor: No

Ownership (No Trust)

Gas Oil

GWl: 56.5619% 56.5619%

GNI: 46.1381% 46.1381%

Prior Year

Current Year

Days

Days

MCF/M

BOPM

On

MCF/M

BOPM

On

Jan

5,304

0.0

31

4,090

14.0

31

Feb

4,899

49.0

28

0

0.0

28

Mar

5,127

0.0

31

0

0.0

0

Apr

4,860

54.0

30

0

0.0

0

May

4,836

11.0

31

0

0.0

0

Jun

3,934

60.0

21.9

0

0.0

0

Jul

5,017

16.0

31

0

0.0

0

Aug

4,834

12.0

31

0

0.0

0

Sept

4,327

6.0

30

0

0.0

0

Oct

4,746

39.0

27.8

0

0.0

0

Nov

4,142

8.0

30

0

0.0

0

Dec

4,249

4.0

31

0

0.0

0

Total

56,275

259.0

4,090

14.0

Volumes

(Days On)

MCFD

BOPD

7 Day Avg

147

7.9

30 Day Avg

131

0.8

60 Day Avg

132

0.6

3 Mo Avg

136

0.3

6 Mo Avg

146

0.5

12 MoAvg

156

0.8

Volumes

(Days in Month)

MCFD

BOPD

30 Day Avg

131

0.8

60 Day Avg

132

0.6

3 Mo Avg

136

0.3

6 Mo Avg

145

0.5

12 Mo Avg

151

0.7

Print Form

Exit Volumes Data

4/8/1998

San Juan 28-6 Unit No. 203M
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Mesa Verde		Dakota	
<u>MV - Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.731	GAS GRAVITY	0.703
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.42	%N2	0.43
%CO2	0.65	%CO2	0.99
%H2S	0	%H2S	0
DIAMETER (IN)	6.366	DIAMETER (IN)	4
DEPTH (FT)	5304	DEPTH (FT)	7556
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	139	BOTTOMHOLE TEMPERATURE (DEG F)	178
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	343	SURFACE PRESSURE (PSIA)	650
BOTTOMHOLE PRESSURE (PSIA)	394.4	BOTTOMHOLE PRESSURE (PSIA)	788.7
<u>MV - Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.731	GAS GRAVITY	0.703
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.42	%N2	0.43
%CO2	0.65	%CO2	0.99
%H2S	0	%H2S	0
DIAMETER (IN)	6.366	DIAMETER (IN)	4
DEPTH (FT)	5304	DEPTH (FT)	7556
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	139	BOTTOMHOLE TEMPERATURE (DEG F)	178
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1088	SURFACE PRESSURE (PSIA)	2728
BOTTOMHOLE PRESSURE (PSIA)	1282.1	BOTTOMHOLE PRESSURE (PSIA)	3395.6

Page No.: 1
 Print Time: Fri May 08 14:25:10 1998
 Property ID: 1693
 Property Name: SAN JUAN 28-6 UNIT | 103 | 50502A-1
 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

Immediate Offset to San Juan 28-6 #203 M

DAKOTA

--DATE--	---CUM GAS--	M	SIWHP
	Mcf		Psi

09/06/61	0	2716.0	<i>Initial</i>
10/25/61	0	2715.0	
02/13/62	43000	1868.0	
07/18/63	179000	1498.0	
09/14/64	321000	1127.0	
09/01/65	427000	942.0	
02/24/66	470000	985.0	
03/07/67	559000	904.0	
05/27/68	649000	887.0	
12/28/70	836411	757.0	
07/07/71	875610	764.0	
05/30/72	928852	704.0	
05/09/73	981209	731.0	
05/23/75	1081947	765.0	
05/12/77	1191982	654.0	
06/25/79	1288926	715.0	
06/10/81	1396583	634.0	
06/02/83	1479342	709.0	
11/05/85	1586318	658.0	
08/04/88	1667071	771.0	
07/28/92	1783558	684.0	
04/01/98	1960881	638	<i>Current Based on Pressure vs. Cum. Gas</i>

Page No.: 1

Print Time: Fri May 08 14:25:27 1998

Property ID: 1879 *Immediate Offset to San Juan 28-6 #203M*

Property Name: SAN JUAN 28-6 UNIT | 54 | 49604A-1

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

Mesa Verde

--DATE-- ---CUM GAS-- M SIWHP
Mcf Psi

05/23/56	0	1076.0	<i>Initial</i>
06/05/56	0	1075.0	
12/07/56	63000	972.0	
11/23/57	336000	852.0	
10/14/58	548000	776.0	
03/14/59	599000	797.0	
08/29/60	890000	702.0	
02/13/62	1066000	705.0	
08/08/62	1117000	656.0	
03/04/63	1130000	692.0	
02/19/64	1209000	662.0	
03/01/65	1310000	631.0	
02/24/66	1390000	612.0	
03/07/67	1448000	596.0	
09/16/68	1516000	571.0	
10/16/70	1624523	528.0	
07/07/71	1672085	502.0	
05/30/72	1732932	467.0	
05/09/73	1806540	437.0	
07/23/74	1880374	444.0	
05/10/78	2011104	390.0	
06/10/80	2135935	371.0	
05/10/82	2191756	391.0	
05/31/93	2274690	406.0	

04/01/98 2388676 331 *Current based on Pressure vs. Cum Gas Plot*

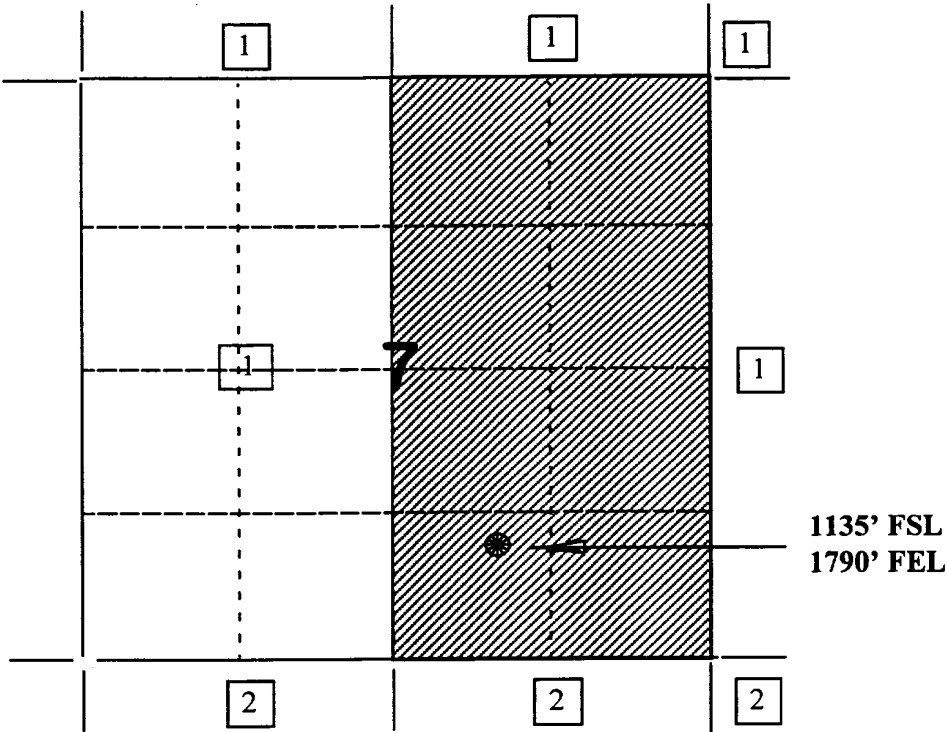
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-6 Unit #203M

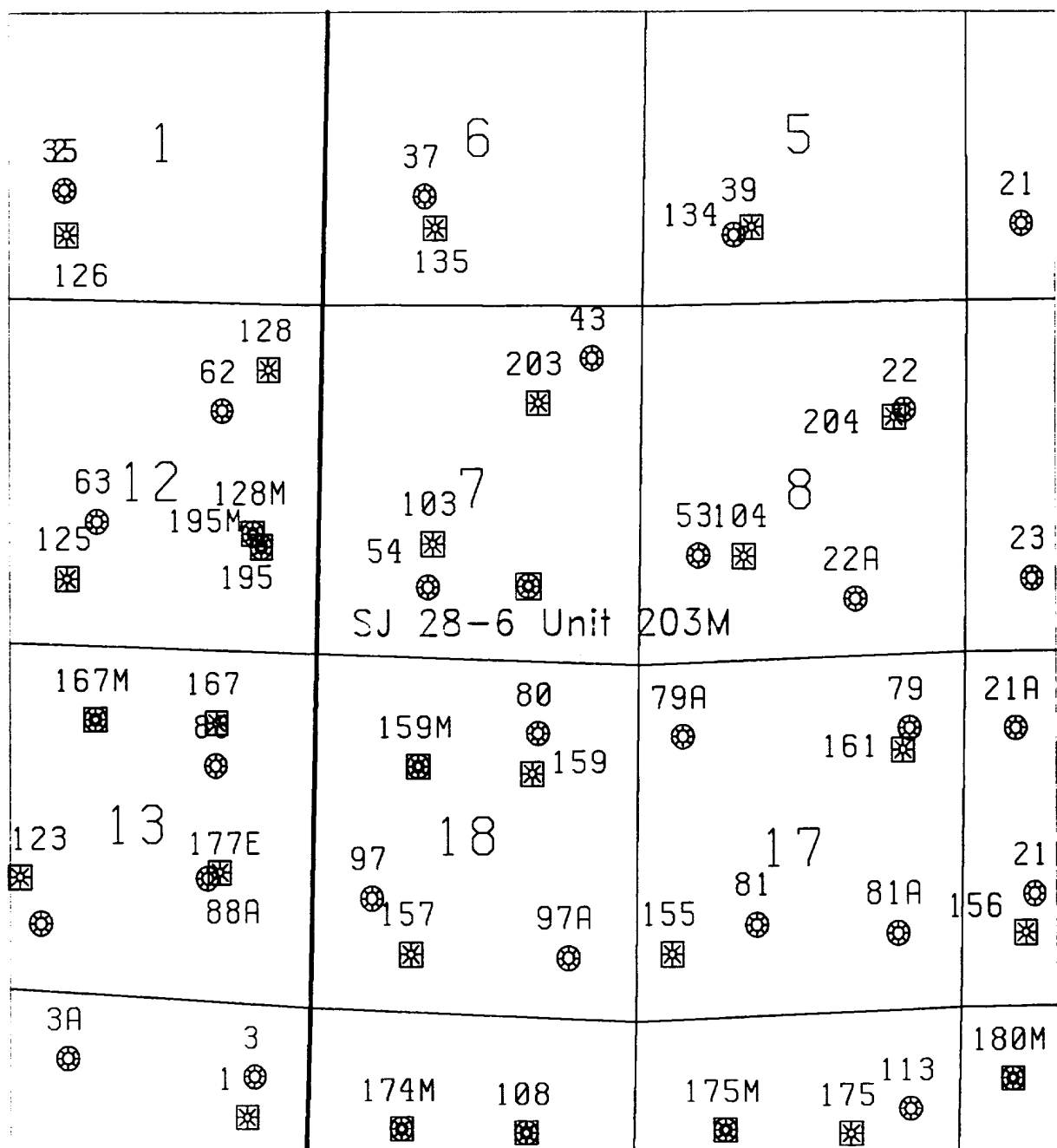
OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 6 West



- 1) Burlington Resources
- 2) Union Oil Company of California
SW Region Joint Venture Operations
P.O. Box 3100
Midland, TX 79702



PLH 4/28/98

SJ 28-6 Unit 203M
Sec. 7, T27N, R6W
Mesaverde/Dakota