

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 50 K 19-27N-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. 30-039-20155 Federal x 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. 547 psi (see attachment) (Original) b. 1323 psi (see attachment)	a. b.	a. 1078 psi (see attachment) b. 3193 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1196		BTU 1234
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 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). _____ 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 Wayne Fletcher TITLE: Production Engineer DATE: 03-08-99

TYPE OR PRINT NAME: Wayne Fletcher 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-1
Revised February 21, 19
Instructions on ba
Submit to Appropriate District Off
State Lease - 4 Cop
Fee Lease - 3 Cop

☐ AMENDED REPOI

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-20155		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 50					
7 OGRID No. 14538		8 Operator Name Burlington Resources Oil & Gas Company			
9 Elevation 6642 GR					

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
K	19	27N	4W		1500	South	1575	West	RA

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-W/321.48 DK-W/321.48	13 Joint or Infill	14 Consolidation Code	15 Order No.
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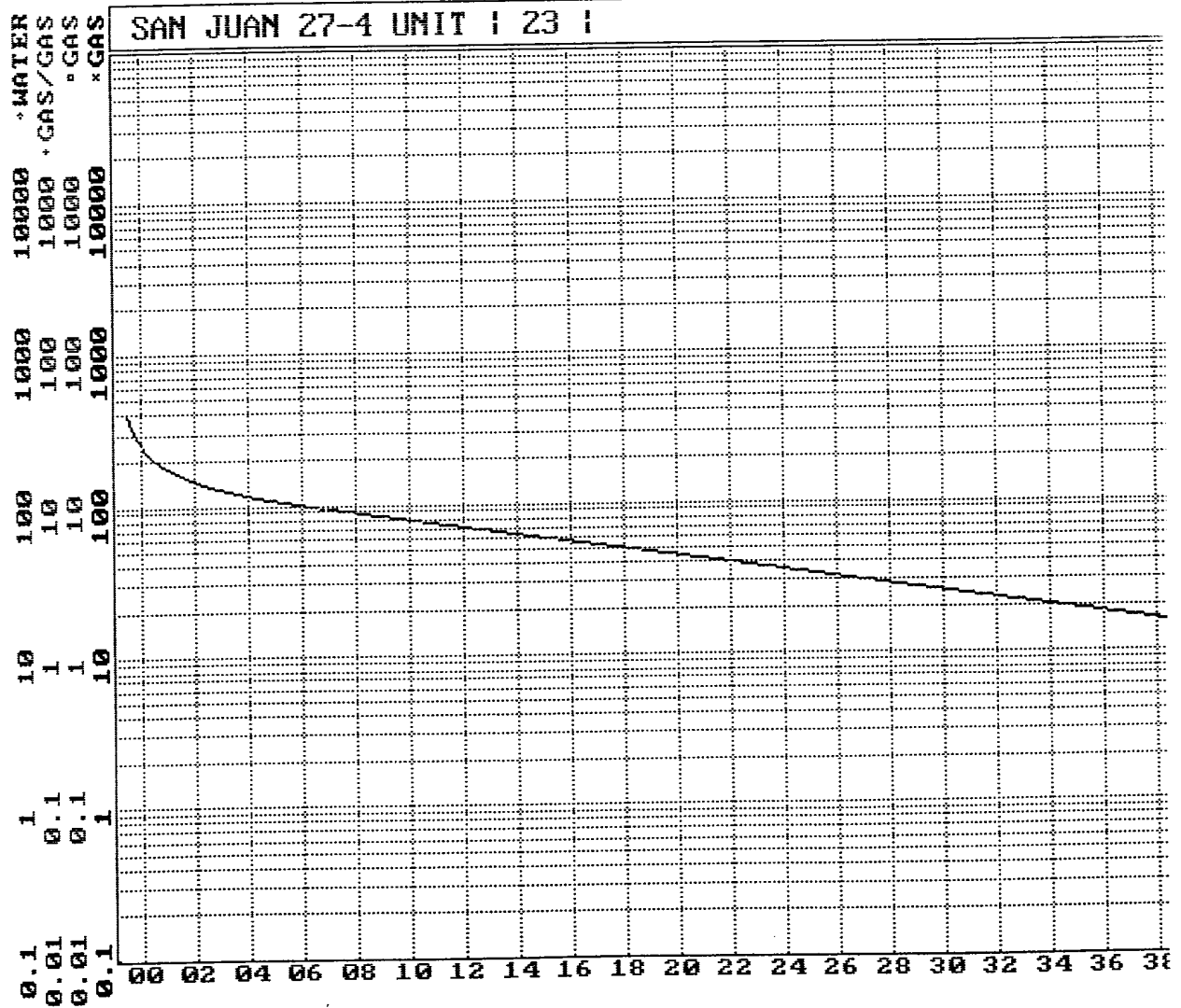
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 Original plat from David O. Vilyen 9-26-68 1575' 1500'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <u>Peggy Bradfield</u> Printed Name Regulatory Administrator Title Date	
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer:	
	Certificate Number	

San Juan 27-4 Unit #50

Expected Production Curve

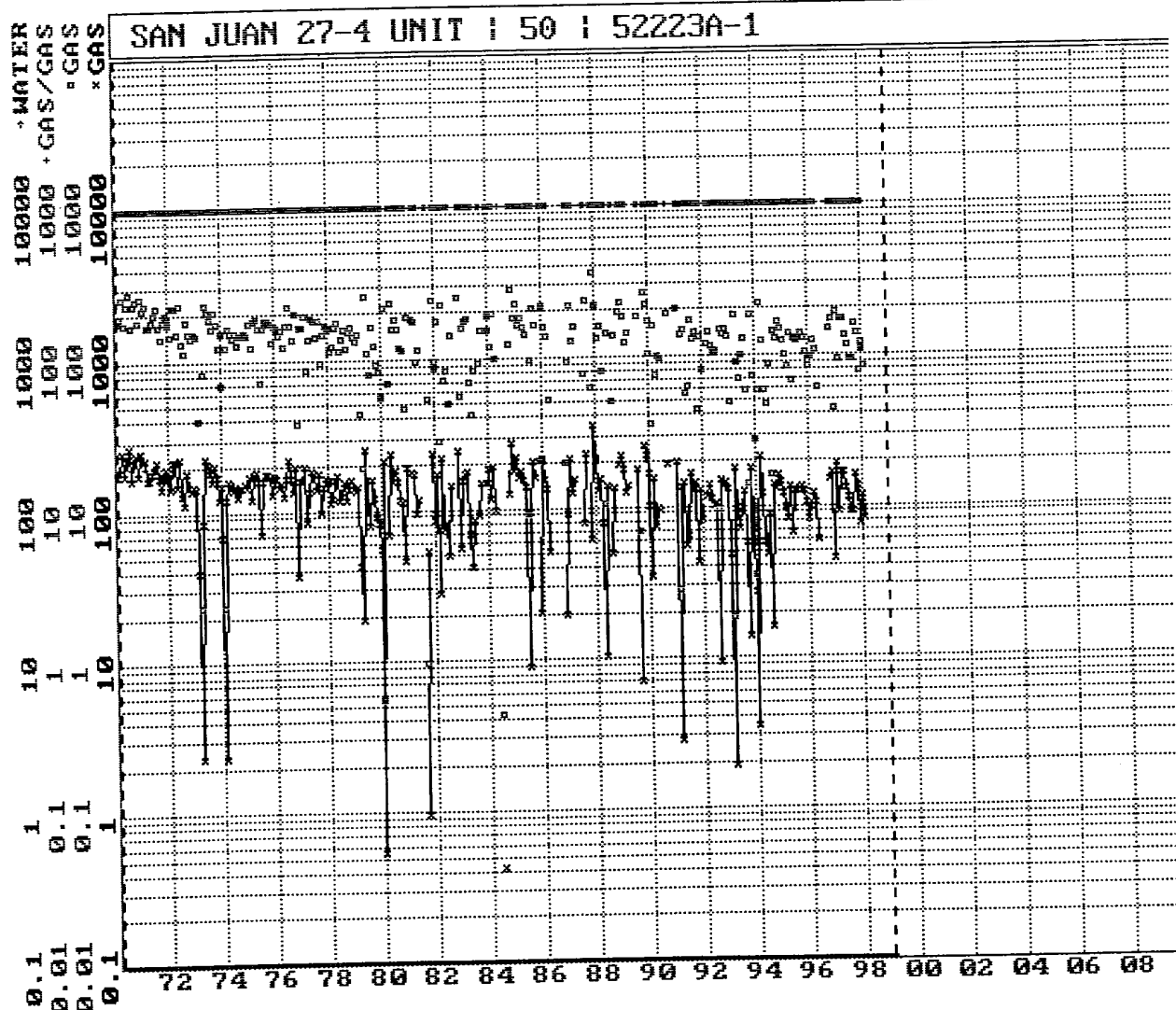
Mesaverde Formation



San Juan 27-4 Unit #50

Actual Production

Dakota Formation



San Juan 27-4 Unit #50

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	0.701	GAS GRAVITY	0.728
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.19	%N2	0.16
%CO2	0.89	%CO2	1.03
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5710	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)	472	SURFACE PRESSURE (PSIA)	853
BOTTOMHOLE PRESSURE (PSIA)	546.6	BOTTOMHOLE PRESSURE (PSIA)	1077.7
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.701	GAS GRAVITY	0.728
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.19	%N2	0.16
%CO2	0.89	%CO2	1.03
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5710	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)	1122	SURFACE PRESSURE (PSIA)	2470
BOTTOMHOLE PRESSURE (PSIA)	1323.2	BOTTOMHOLE PRESSURE (PSIA)	3193.3

Page No.: 1
 Print Time: Tue Mar 02 13:33:08 1999
 Property ID: 1228
 Property Name: SAN JUAN 27-4 UNIT | 23 | 53316B-1
 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
 ::::: :::::McF::::: :::::Psi:::::

11/16/59	0	1122.0
11/23/59	0	1109.0
10/06/60	26000	785.0
12/20/61	61000	650.0
08/06/62	73000	633.0
04/19/63	84000	630.0
10/22/64	105000	619.0
10/25/65	119000	561.0
04/19/66	126000	554.0
05/16/67	139000	550.0
05/02/68	149000	552.0
08/28/70	177163	502.0
04/08/71	185550	452.0
08/09/72	200982	448.0
12/06/83	311445	294.0
04/21/86	330787	394.0
09/08/89	350765	362.0
09/17/91	359451	460.0
10/01/91	359788	472.0

San Juan 27-4 Unit #50

Mesaverde Offset

Page No.: 1
 Print Time: Tue Mar 02 13:32:53 1999
 Property ID: 1262
 Property Name: SAN JUAN 27-4 UNIT | 50 | 52223A-1
 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
 ::::: :::::McF::::: :::::Psi:::::

12/17/68	0	2470.0
09/02/69	83956	1094.0
08/28/70	143160	1115.0
04/08/71	195067	1039.0
08/09/72	283264	980.0
08/20/73	334530	1031.0
06/24/75	428192	1058.0
07/06/77	548242	832.0
11/01/79	661096	897.0
04/20/81	721462	801.0
09/21/83	800756	996.0
06/05/85	872120	874.0
04/21/86	910438	923.0
10/13/88	985334	928.0
04/22/90	1047949	884.0
07/28/92	1116789	853.0

San Juan 27-4 Unit #50

Existing Dakota

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Cinco General Partnership
PO Box 451
Albuquerque, NM 87103-0451

x

Bedrock Limited Partners
PO Box 36480
Albuquerque, NM 87176

BURLINGTON
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3535 East 30th Street: (87402-8801)
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BURLINGTON
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SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Tempe LTD Partnership
c/o F.E. & M. K. Harrington
652 Fearington Post
Pittsboro, NC 27312

x

Harco LTD Partnership
PO Box 216
Roswell, NM 88202

BURLINGTON
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James V. Harrington
PO Box 13535
Albuquerque, NM 87192

x

Mary Jone Chappell
PO Box 1865
Corrales, NM 87048

BURLINGTON RESOURCES OIL AND GAS COMPANY

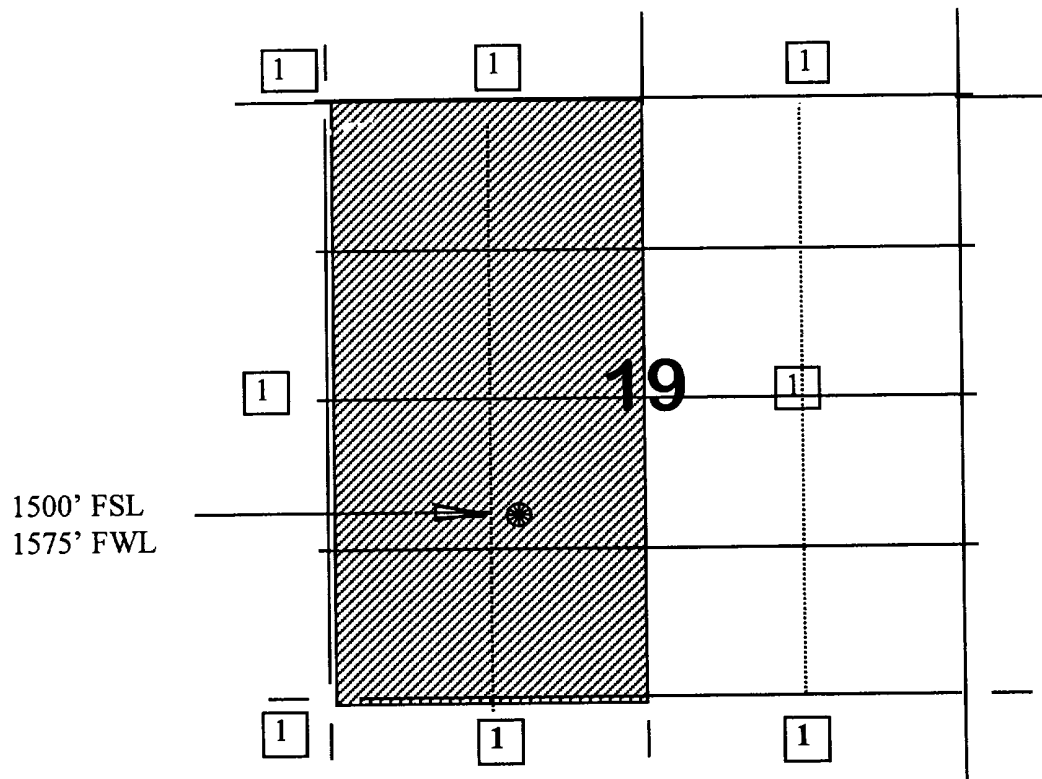
San Juan 27-4 Unit #50

OFFSET OPERATOR/OWNER PLAT

Mesaverde/Dakota Formations

Commingled well

Township 27 North, Range 4 West



1) Burlington Resources

San Juan 27-4 Unit #50
Blanco Mesaverde / Basin Dakota
27N - 4W - 19

