

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 27-4 Unit

41

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. 30-039-2013500

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. 649 psi (see attachment) (Original) b. 1429 psi (see attachment)	a. b.	a. 921 psi (see attachment) b. 3101 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1167		BTU 1054
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 ☐ 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 ☐ No15. 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 *Sean F. Corrigan*

TITLE: Production Engineer

DATE: 3-29-99

TYPE OR PRINT NAME Sean Corrigan

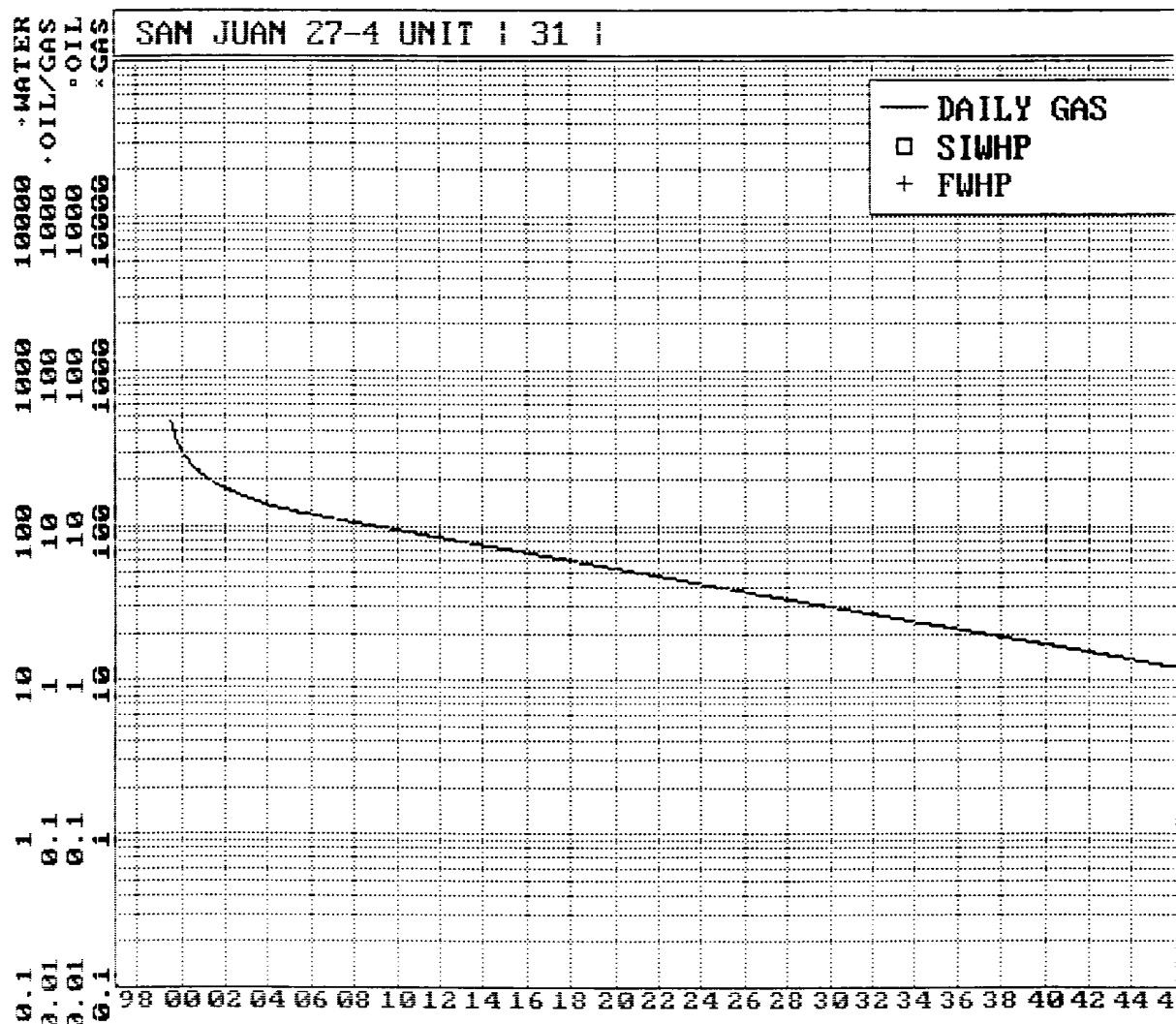
TELEPHONE NO.

(505) 326-9700

San Juan 27-4 Unit # 41

Expected Production

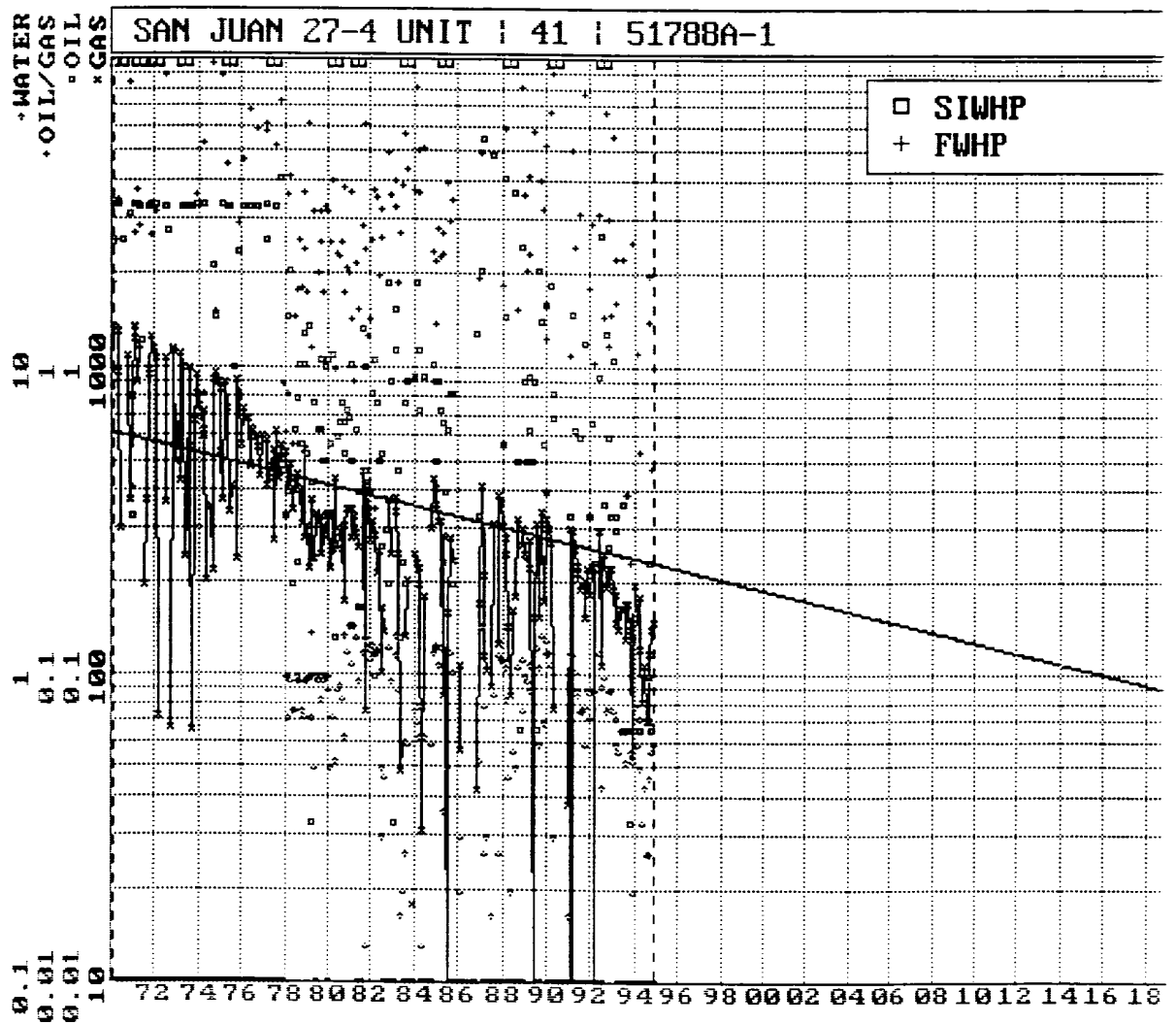
Mesaverde Formation



San Juan 27-4 Unit # 41

Actual Production

Dakota Formation



San Juan 27-4 Unit #41

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	0.685	GAS GRAVITY	0.62
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.53	%N2	0.36
%CO2	0.84	%CO2	1.48
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	7963	DEPTH (FT)	7963
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)	530	SURFACE PRESSURE (PSIA)	774
BOTTOMHOLE PRESSURE (PSIA)	648.5	BOTTOMHOLE PRESSURE (PSIA)	920.8
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.685	GAS GRAVITY	0.62
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.53	%N2	0.36
%CO2	0.84	%CO2	1.48
%H2S	0	%H2S	0
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BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1142	SURFACE PRESSURE (PSIA)	2569
BOTTOMHOLE PRESSURE (PSIA)	1429.2	BOTTOMHOLE PRESSURE (PSIA)	3100.5

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Property Name: SAN JUAN 27-4 UNIT | 31 | 50483A-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

07/20/61	0	1142.0
08/16/61	0	1132.0
12/12/62	73000	813.0
04/19/63	91000	801.0
04/29/64	153000	708.0
07/29/65	231000	655.0
08/01/66	284000	688.0
08/04/67	326000	627.0
05/10/68	356000	642.0
10/07/70	459909	579.0
07/22/71	495386	534.0
06/06/72	532784	522.0
06/04/74	615504	462.0
06/25/76	696258	479.0
08/02/78	776024	482.0
06/04/80	838679	442.0
04/30/82	886947	492.0
05/03/84	925864	540.0
10/21/86	986668	524.0
09/04/89	1062335	690.0
02/21/91	1093968	542.0
04/11/91	1095306	554.0
05/03/93	1134768	530.0

San Juan 27-4 Unit # 41

Mesaverde Offset

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Property Name: SAN JUAN 27-4 UNIT | 41 | 51788A-1
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Print Time: Wed Mar 03 13:17:49 1999

Property ID: 1251

Property Name: SAN JUAN 27-4 UNIT | 41 | 51788A-1

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

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

09/19/68	0	2569.0
05/29/69	88862	2359.0
06/09/70	518750	1235.0
05/03/71	728218	1390.0
02/09/72	911668	1484.0
05/16/73	1147116	1204.0
06/23/75	1609835	967.0
07/06/77	2024563	843.0
05/05/80	2414843	899.0
05/21/81	2522376	931.0
09/22/83	2686076	1007.0
06/06/85	2797281	941.0
05/19/88	2926802	1235.0
05/30/90	3076222	924.0
07/28/92	3185798	774.0

San Juan 27-4 Unit # 41

Existing Dakota

OK.

BURLINGTON RESOURCES OIL AND GAS COMPANY

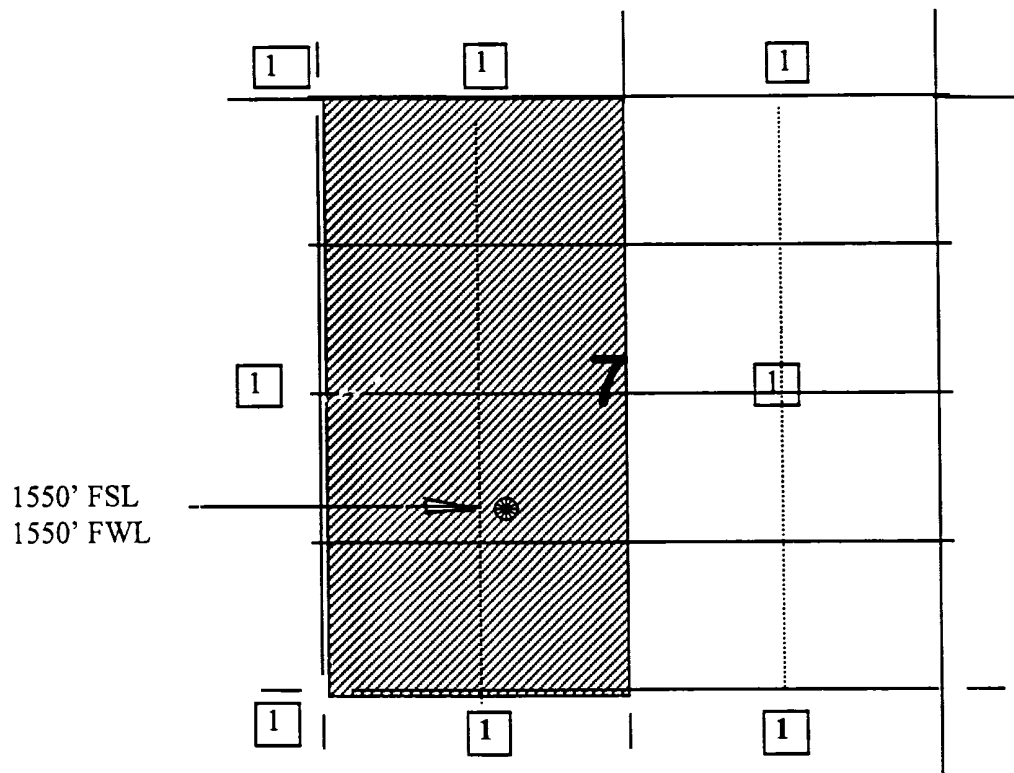
San Juan 27-4 Unit #41

OFFSET OPERATOR/OWNER PLAT

Mesaverde/Dakota Formations

Commingled well

Township 27 North, Range 4 West



1) Burlington Resources

