

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

Neudecker

#7

L 13-29-10

San Juan, New Mexico

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7355 API NO. 30-045-08255 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)	Proposed: 3975' - 4650'		6613' - 6786'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Will Flow After Completion		Flowing
5. Bottomhole Pressure (Current)	(Current)		(Current)
Oil Zones - Artificial Lift: Estimated Current	a. 608 psia @ 4313' Based on offset well		a. 692 psia @ 6700'
Gas & Oil - Flowing: Measured Current	(Original)		
All Gas Zones: Estimated or Measured Original	b. 1283 psia @ 4313' Based on offset well	b.	b. 2490 psia @ 6700'
6. Oil Gravity (°API) or Gas BTU Content	1223		1181
7. Producing or Shut-In?	Waiting on Completion		Producing
Production Marginal? (yes or no)	No		Yes
* If Shut-In and oil/gas/water rates of last production	Date: N/A (Zone not completed yet) Rates:	Date: Rates:	Date: N/A Rates:
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 water of recent test (within 60 days)	Date: N/A (Zone not completed yet)	Date: Rates:	Date: 5/9/98 109 MCFD, 0 BOD
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 ☐ No

15. NMOC 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 Kevin Midkiff TITLE Operations Engineer DATE 5/11/98TYPE OR PRINT NAME Kevin Midkiff TELEPHONE NO. (505) 326-9700

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION-
PO Box 2088
Santa Fe, NM 87504-2088

Instruction
Submit to Appropriate District
State Lease
Fee Lease

37 NOV 25 PM 2:24

☐ AMENDED

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045--08255	*Pool Code 72319/71599	*Pool Name Blanco Mesaverde/Basin Dakota
*Property Code 7355	*Property Name NEUDECKER	*Well 56
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	*Elm 56

10 Surface Location

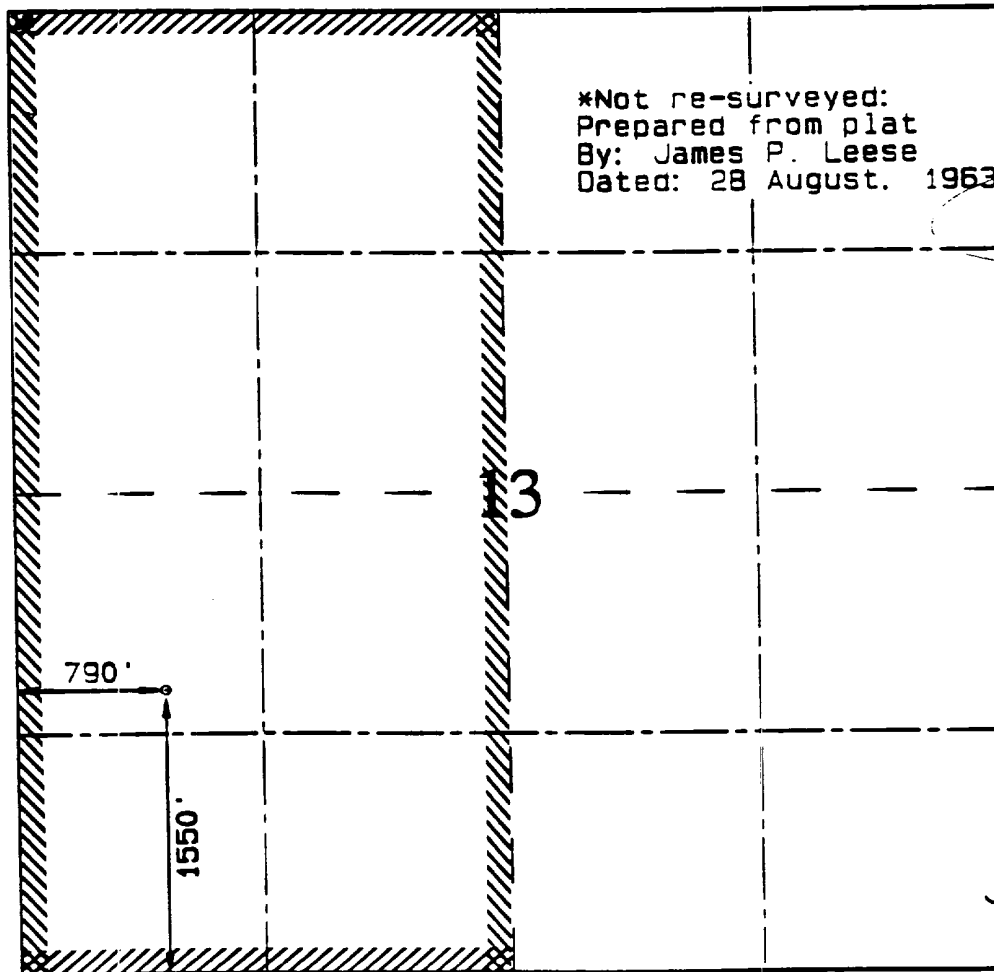
UL or lot no. L	Section 13	Township 29N	Range 10W	Lot 1st 1550	Feet from the South	North/South line 790	East/West line West
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line
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* Dedication Acres 14-W/320 DK-W/320	* Joint or Infill	* Consolidation Code	* Order No.
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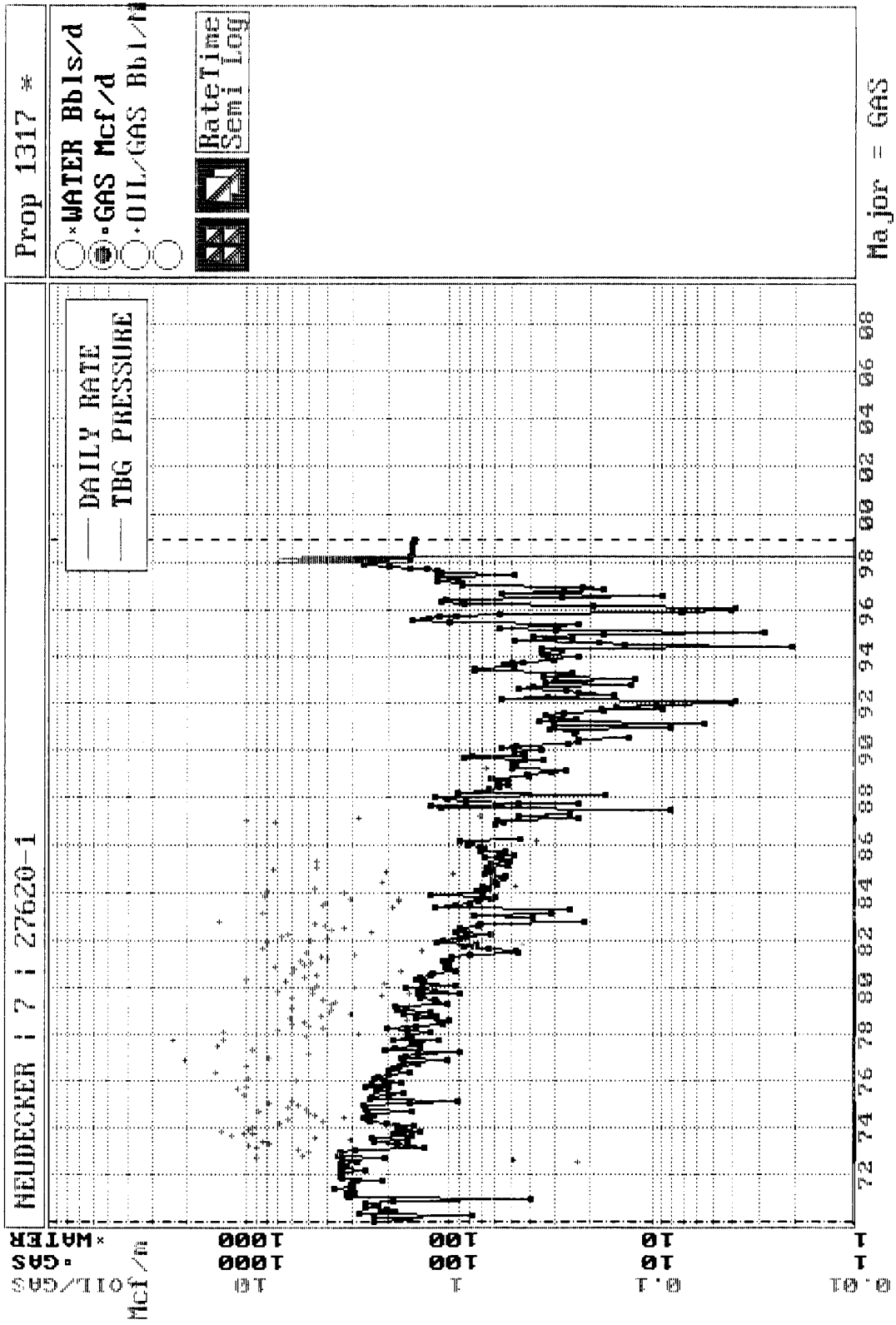
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

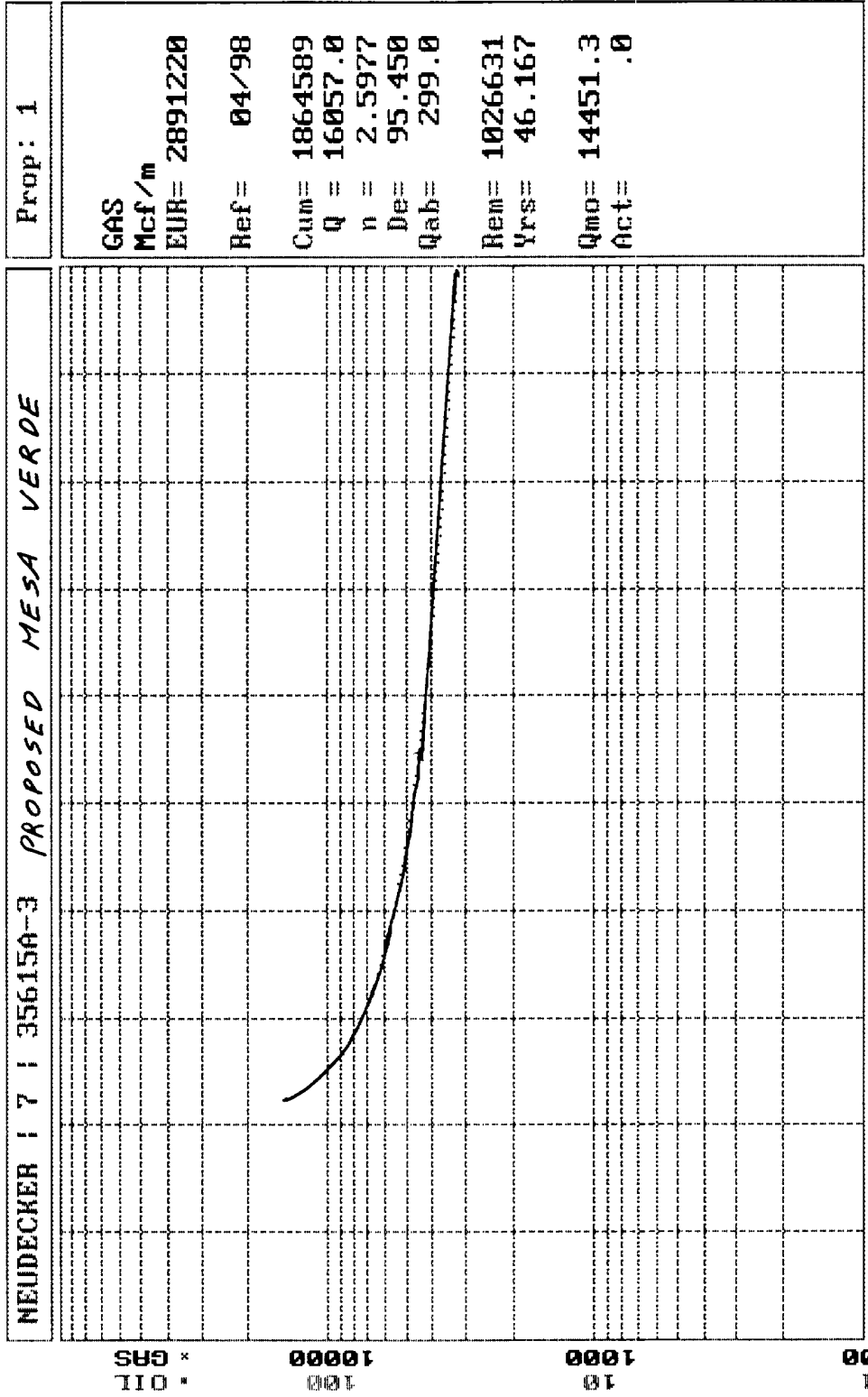
	*Not re-surveyed: Prepared from plat By: James P. Leese Dated: 28 August, 1963	17 OPERATOR CERTIFY I hereby certify that the information is true and correct to the best of my knowledge. <i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Admin Title 11-10-97 Date 18 SURVEYOR CERTIFY I hereby certify that the well location was plotted from field notes or actual survey by observation and that the correct to the best of my belief. OCTOBER 29, 1997 Date of Survey Signature and Seal of Surveyor NEALE C. EDWARDS NEW MEXICO 6257 Certificate Number
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Neudecker No. 7
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	0.705	GAS GRAVITY	0.698
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.3	%N2	0.26
%CO2	0.81	%CO2	1.6
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	4313	DEPTH (FT)	6700
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115	BOTTOMHOLE TEMPERATURE (DEG F)	146
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	541	SURFACE PRESSURE (PSIA)	582
BOTTOMHOLE PRESSURE (PSIA)	607.8	BOTTOMHOLE PRESSURE (PSIA)	692.4
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.705	GAS GRAVITY	0.698
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.3	%N2	0.26
%CO2	0.81	%CO2	1.6
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	4313	DEPTH (FT)	6700
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115	BOTTOMHOLE TEMPERATURE (DEG F)	146
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1125	SURFACE PRESSURE (PSIA)	2023
BOTTOMHOLE PRESSURE (PSIA)	1283.2	BOTTOMHOLE PRESSURE (PSIA)	2490.3

** The Mesa Verde information is based on data from the Lackey A No. 2 located in Sec. 12, UL-L, T29N R10W





Page No.: 1
 Print Time: Sat May 09 15:26:46 1998
 Property ID: 1317
 Property Name: NEUDECKER | 7 | 27620-1 *DAKOTA*
 Table Name: K:\ARIES\RR99PDP\TEST.DBF

<u>--DATE--</u>	<u>---CUM GAS---</u>	<u>M SIWHP</u>	
	<u>Mcf</u>	<u>Psi</u>	
10/08/63	0	2011.0	<i>Initial</i>
12/24/64	55000	1477.0	
08/05/65	125000	1446.0	
10/18/66	361000	1282.0	
02/16/67	421000	1141.0	
02/02/68	580000	1117.0	
12/16/70	898071	963.0	
08/14/71	975044	874.0	
09/08/72	1096431	759.0	
06/06/73	1163922	754.0	
05/06/75	1309298	645.0	
06/20/77	1450701	694.0	
06/18/79	1556665	718.0	
08/05/81	1644514	757.0	
07/18/83	1693211	747.0	
07/11/85	1740658	744.0	
10/04/88	1802141	676.0	
04/15/93	1853262	677.0	
<i>04/01/98</i>	<i>1990199</i>	<i>570</i>	<i>Current Based on Pressure Vs. Cum Gas Cur</i>

Page No.: 1

Print Time: Sat May 09 15:31:50 1998

Property ID: 10630 *OFFSET WELL LOCATED IN Sec. 12-L, T29N R10W*

Property Name: LACKEY A | 2 | 48287A-1

Table Name: K:\ARIES\RR99PDP\TEST.DBF *MESA VERDE*

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	<u>Mcf</u>	<u>Psi</u>

09/05/52	0	1103.0	<i>INITIAL</i>
07/19/53	74000	746.0	
04/15/54	135000	800.0	
06/15/55	218000	834.0	
04/23/56	275000	836.0	
05/15/57	334000	846.0	
05/06/58	385000	845.0	
01/07/59	426000	686.0	
04/14/59	444000	716.0	
04/14/60	499000	700.0	
04/13/61	556000	723.0	
07/11/62	614000	738.0	
02/04/63	643000	659.0	
07/16/64	702000	723.0	
08/04/65	754000	607.0	
07/22/66	799000	672.0	
07/25/67	847000	689.0	
08/12/68	898000	605.0	
08/10/70	1039413	699.0	
08/13/71	1078583	662.0	
05/11/72	1117089	636.0	
04/25/74	1218821	602.0	
06/01/76	1308447	616.0	
04/20/78	1384720	576.0	
05/19/80	1450236	600.0	
05/03/82	1508567	570.0	
06/19/84	1560419	569.0	
06/03/86	1550691	588.0	
12/03/86	1614277	604.0	
06/01/89	1656248	444.0	
02/18/91	1671350	469.0	
09/10/91	1674868	481.0	
04/15/93	1690296	488.0	
06/03/93	1691867	478.0	
04/01/98	1901352	529	<i>Current Based on Pressure Vs. Cum. Gas Cui</i>

Package Preparation Volume Data

DPNo: 27620

NEUDECKER

7

Form: DK

Supt: 60 KEN RAYBON

FF: 338 JOHNNY ELLIS

MS: 327 MIKE GOULD

Pipeline: EPNG

Plunger: No

Dual: No

Compressor: No

Ownership (No Trust)

Prior Year

Current Year

<u>Gas</u>			<u>Oil</u>			<u>Days</u>			
<u>GWI:</u>	40.4694%	40.4694%		<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>
<u>GNI:</u>	34.0070%	34.0070%	Jan	2,594	0.0	31	8,236	0.0	31
			Feb	2,608	0.0	28	9,499	0.0	28
			Mar	3,482	0.0	31	0	0.0	31
<u>Volumes</u>			Apr	2,764	0.0	30	0	0.0	0
<u>(Days On)</u>	<u>MCFD</u>	<u>BOPD</u>	May	3,486	0.0	31	0	0.0	0
7 Day Avg	150	0.0	Jun	1,398	0.0	24	0	0.0	0
30 Day Avg	109	0.0	Jul	3,295	0.0	31	0	0.0	0
60 Day Avg	54	0.0	Aug	3,502	0.0	31	0	0.0	0
3 Mo Avg	289	0.0	Sept	3,990	0.0	30	0	0.0	0
6 Mo Avg	226	0.0	Oct	4,802	0.0	31	0	0.0	0
12 MoAvg	164	0.0	Nov	6,121	0.0	30	0	0.0	0
			Dec	8,254	0.0	31	0	0.0	0
<u>Volumes</u>			Total	46,296	0.0		17,735	0.0	
<u>(Days in Month)</u>	<u>MCFD</u>	<u>BOPD</u>							
30 Day Avg	109	0.0							
60 Day Avg	54	0.0							
3 Mo Avg	289	0.0							
6 Mo Avg	224	0.0							
12 Mo Avg	161	0.0							

Print Form

Exit Volumes Data

Print Form

Exit Volumes Data

5/9/1998

FARMINGTON

1998 MONTHLY PRODUCTION FOR 27620

PHS030M1

NEUDECKER 7

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ICONE

DAYS =====				OIL =====			===== GAS =====							
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	31				01	8201	31	1181	15.025		26	
2	2	F	28				01	9427	28	1181	15.025		30	
3	2	F	31				01	12716	31	1181	15.025		40	
4														
5														
6														
7														
8														
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

00/00/00 00:00:00:0

PRS 05/05/98

FARMINGTON

ANNUAL PRODUCTION FOR 27620

PHS020M1

NEUDECKER 7

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

02 6912

6219

01 6912

826202

=====

YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1990		9524	9542	1830573	29	128
1991		9524	7918	1838491	26	154
1992		9524	9890	1848381	31	185
1993		9524	15496	1863377	47	232
1994		9524	9840	1873717	30	262
1995		9524	24328	1898045	77	339
1996		9524	14956	1913001	47	386
1997		9524	46854	1959855	147	533
1998		9524	30344	1990199	96	629

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

00/00/00 00:00:00:0

D03 09/02/89

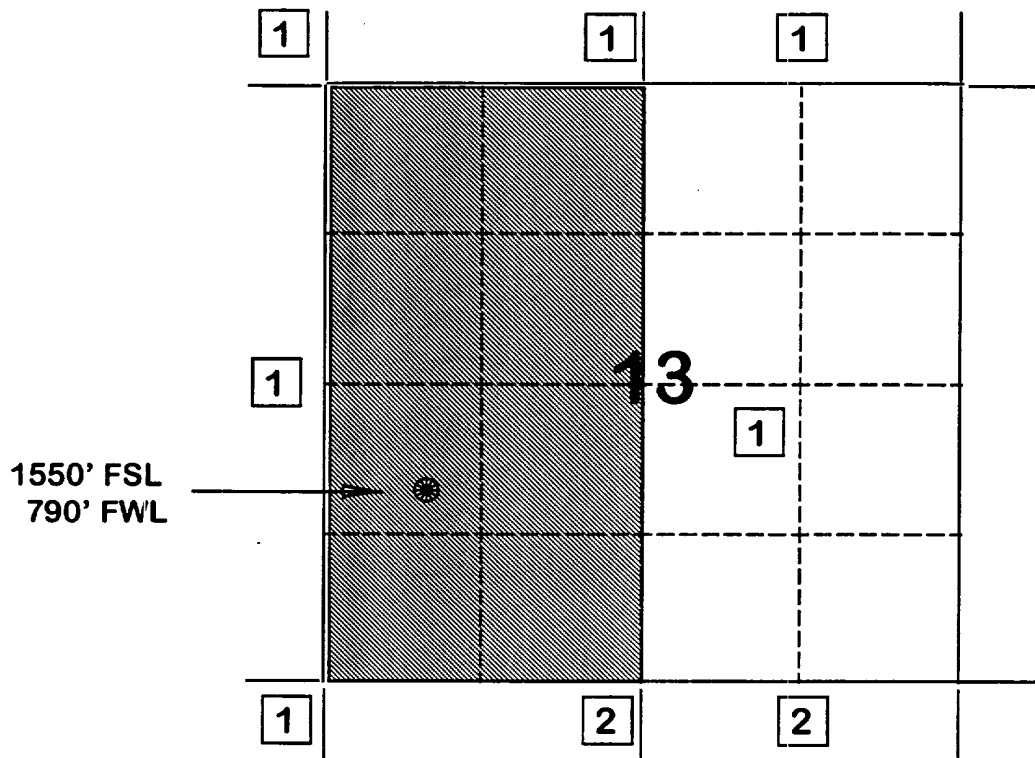
BURLINGTON RESOURCES OIL AND GAS COMPANY

Neudecker #7

OFFSET OPERATOR \ OWNER PLAT

Mesaverde/Dakota Formations Commingle Well

Township 29 North, Range 10 West



- 1) Burlington Resources Oil and Gas Company
- 2) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201

$DK \text{ / } MV$



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

ADMINISTRATIVE ORDER DHC-1971

Burlington Resources Oil & Gas Company
P.O. Box 4289
Farmington, New Mexico 87499

RECEIVED
JUN 19 1998

Attention: Ms. Peggy Bradfield

OIL CON. DIV.
DIV. 3

Neudecker No. 7

API No.- 30-045-08255

*Unit L, Section 13, Township 29 North, Range 10 West, NMPM,
San Juan County, New Mexico.*

*Blanco-Mesaverde (Prorated Gas - 72319), and
Basin-Dakota (Prorated Gas - 71599) Pools*

Dear Ms. Bradfield:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

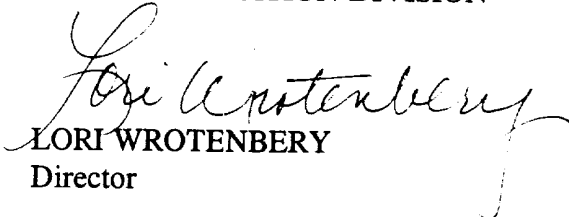
The applicant shall consult with the supervisor of the Aztec District Office of the Division upon completion and testing of the well in order to establish a fixed allocation of production from each of the commingled zones. Upon approval by the Division's District Office, the applicant shall submit the allocation formula to the Santa Fe Office of the Division.

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 12th day of June, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY
Director

S E A L

LW/DRC

cc: Oil Conservation Division - Aztec /
Bureau of Land Management-Farmington