

DATE IN 5/19/98	SUSPENSE 6/8/98	ENGINEER DC	LOGGED BY NV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 2040 South Pacheco, Santa Fe, NM 87505



1971

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

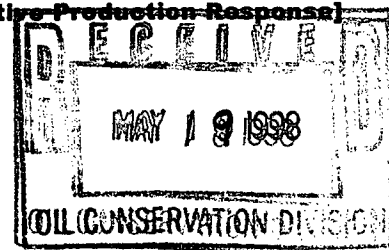
[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling
☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

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 Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 608 psia @ 4313' Based on offset well (Original) b. 1283 psia @ 4313' Based on offset well	a. b.	(Current) a. 692 psia @ 6700' 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 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 (Zone not completed yet) Rates:	Date: Rates:	Date: N/A Rates:
	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: % will be supplied upon completion	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

PO Box 1980, Hobbs, NM 88241-1980
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

Energy, Minerals & Natural Resources Department

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

Revised February
Instruction:
Submit to Appropriate District:
State Lease -
Fee Lease -

97 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 No. 7
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 585

10 Surface Location

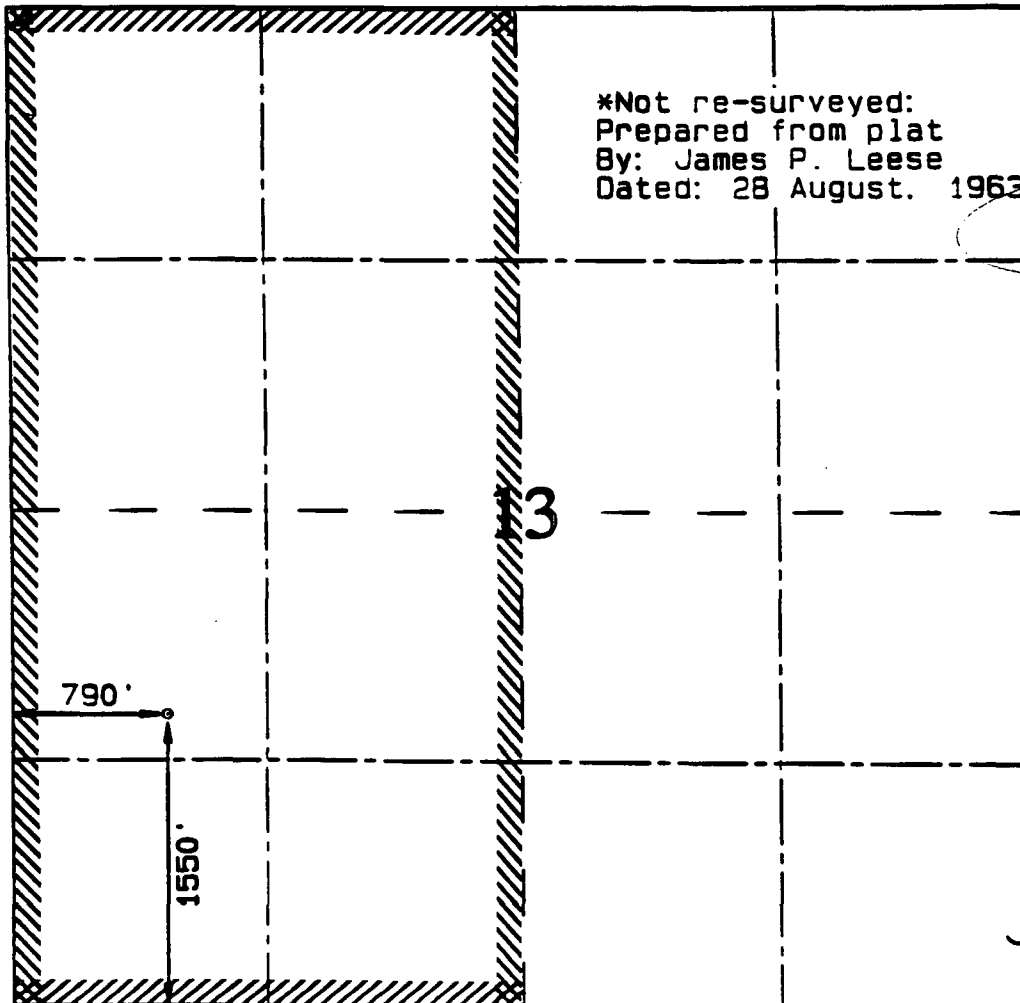

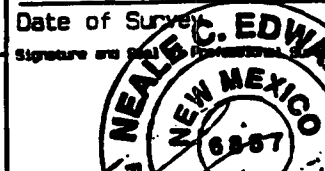
UL or lot no. L	Section 13	Township 29N	Range 10W	Lot 1/4	Feet from the 1550	North/South line South	Feet from the 790	East/West line West	SA
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line
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Dedicated Acreage 1/4-W/320 DK-W/320	Joint or Infill	Consolidation Code	Order No.
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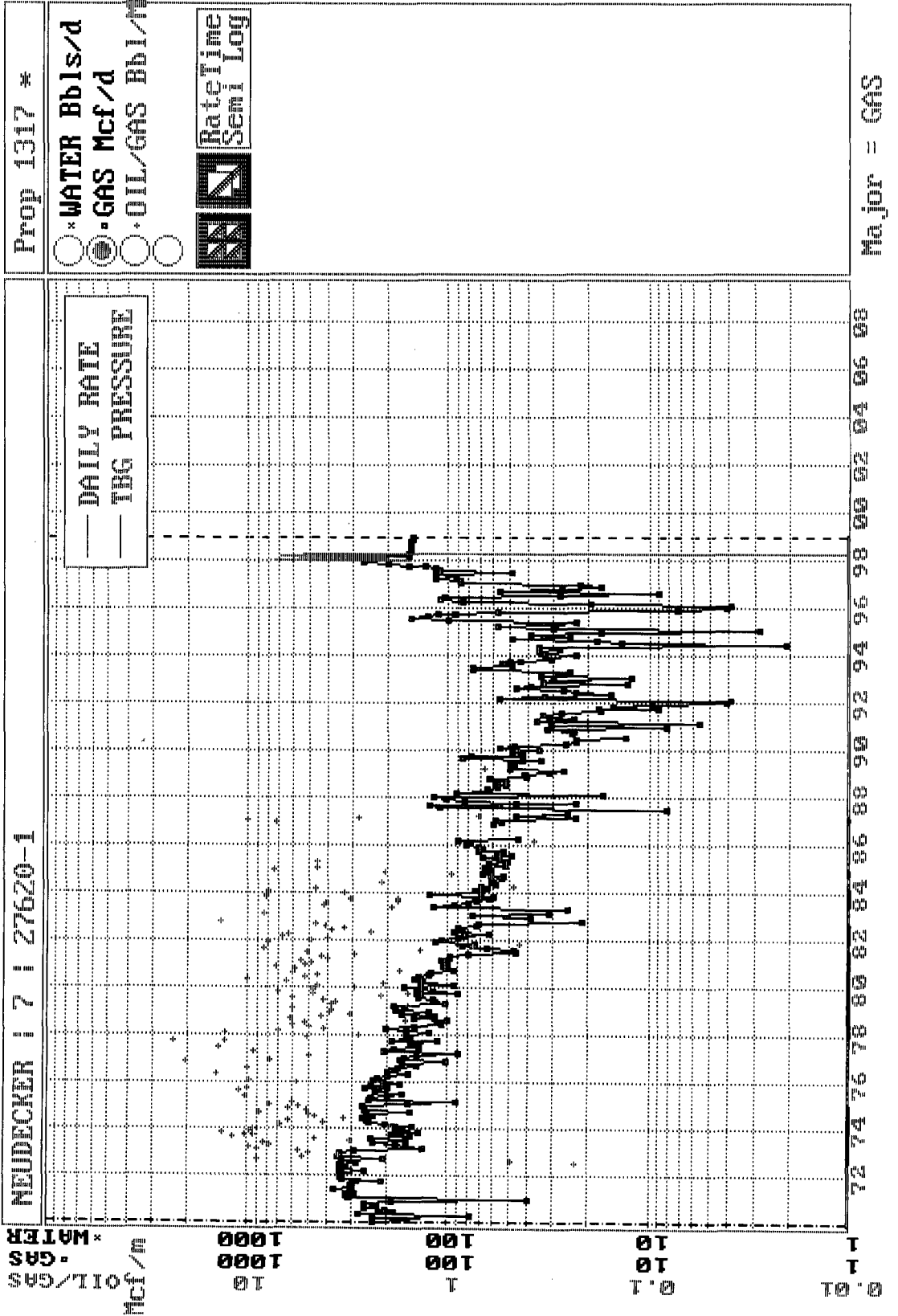
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>*Not re-surveyed: Prepared from plat By: James P. Leese Dated: 28 August, 1963</p>	<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge.</p> <p> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 11-10-97 Date</p> <p>18 SURVEYOR CERTIFICATION I hereby certify that the well location is as shown on this plat and that the same is correct to the best of my belief.</p> <p>OCTOBER 29, 1997 Date of Survey  Signature and Seal of Surveyor NEAL C. EDWARDS NEW MEXICO 6857 Certificate Number</p>
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Neudecker No. 7
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

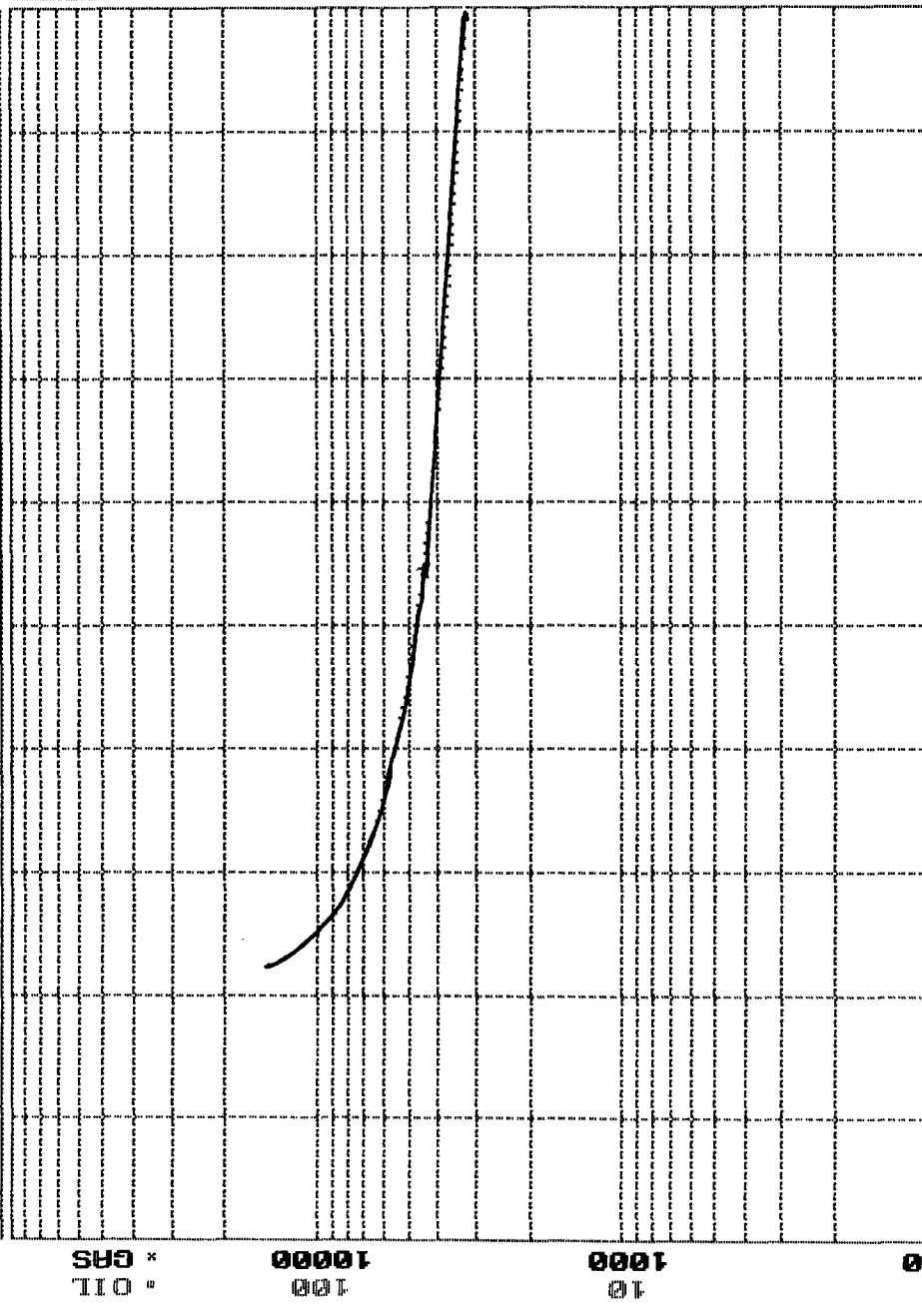
Mesaverde **		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.705	GAS GRAVITY	0.698
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.3	%N2	0.26
%CO2	0.81	%CO2	1.6
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	4313	DEPTH (FT)	6700
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (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



NEUDECKER : 7 : 35615A-3 PROPOSED MESA VERDE

Prop: 1



GAS
Mcf/m
EUR= 2891220
Ref= 04/98
Cum= 1864589
Q = 16057.0
n = 2.5977
De= 95.450
Qab= 299.0
Rem= 1026631
Yrs= 46.167
Qmo= 14451.3
Act= .0

Major=GAS

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

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

09/05/52	0	1103.0	<i>INITIAL</i>
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07/19/53	74000	746.0	
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04/15/54	135000	800.0	
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06/15/55	218000	834.0	
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04/23/56	275000	836.0	
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05/15/57	334000	846.0	
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05/06/58	385000	845.0	
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01/07/59	426000	686.0	
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04/14/59	444000	716.0	
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04/14/60	499000	700.0	
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04/13/61	556000	723.0	
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07/11/62	614000	738.0	
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02/04/63	643000	659.0	
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07/16/64	702000	723.0	
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08/04/65	754000	607.0	
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07/22/66	799000	672.0	
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07/25/67	847000	689.0	
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08/12/68	898000	605.0	
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08/10/70	1039413	699.0	
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08/13/71	1078583	662.0	
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05/11/72	1117089	636.0	
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04/25/74	1218821	602.0	
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06/01/76	1308447	616.0	
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04/20/78	1384720	576.0	
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05/19/80	1450236	600.0	
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05/03/82	1508567	570.0	
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06/19/84	1560419	569.0	
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06/03/86	1550691	588.0	
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12/03/86	1614277	604.0	
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06/01/89	1656248	444.0	
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02/18/91	1671350	469.0	
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09/10/91	1674868	481.0	
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04/15/93	1690296	488.0	
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06/03/93	1691867	478.0	
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04/01/98	1901352	529	<i>Current Based on Pressure Vs. Cum. Gas Curve</i>
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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		
	Gas	Oil			Days			Days
				MCF/M	BOPM		MCF/M	BOPM
					On			On
GWI:	40.4694%	40.4694%	Jan	2,594	0.0	31	8,236	0.0
GNI:	34.0070%	34.0070%	Feb	2,608	0.0	28	9,499	0.0
			Mar	3,482	0.0	31	0	0.0
			Apr	2,764	0.0	30	0	0.0
			May	3,486	0.0	31	0	0.0
			Jun	1,398	0.0	24	0	0.0
			Jul	3,295	0.0	31	0	0.0
			Aug	3,502	0.0	31	0	0.0
			Sept	3,990	0.0	30	0	0.0
			Oct	4,802	0.0	31	0	0.0
			Nov	6,121	0.0	30	0	0.0
			Dec	8,254	0.0	31	0	0.0
			Total	46,296	0.0		17,735	0.0
Volumes (Days On)								
	MCFD	BOPD						
7 Day Avg	150	0.0						
30 Day Avg	109	0.0						
60 Day Avg	54	0.0						
3 Mo Avg	289	0.0						
6 Mo Avg	226	0.0						
12 Mo Avg	164	0.0						
Volumes (Days in Month)								
	MCFD	BOPD						
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

5/9/1998

FARMINGTON

1998 MONTHLY PRODUCTION FOR 27620

PHS030M1

NEUDECKER

7

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

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	1863877	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

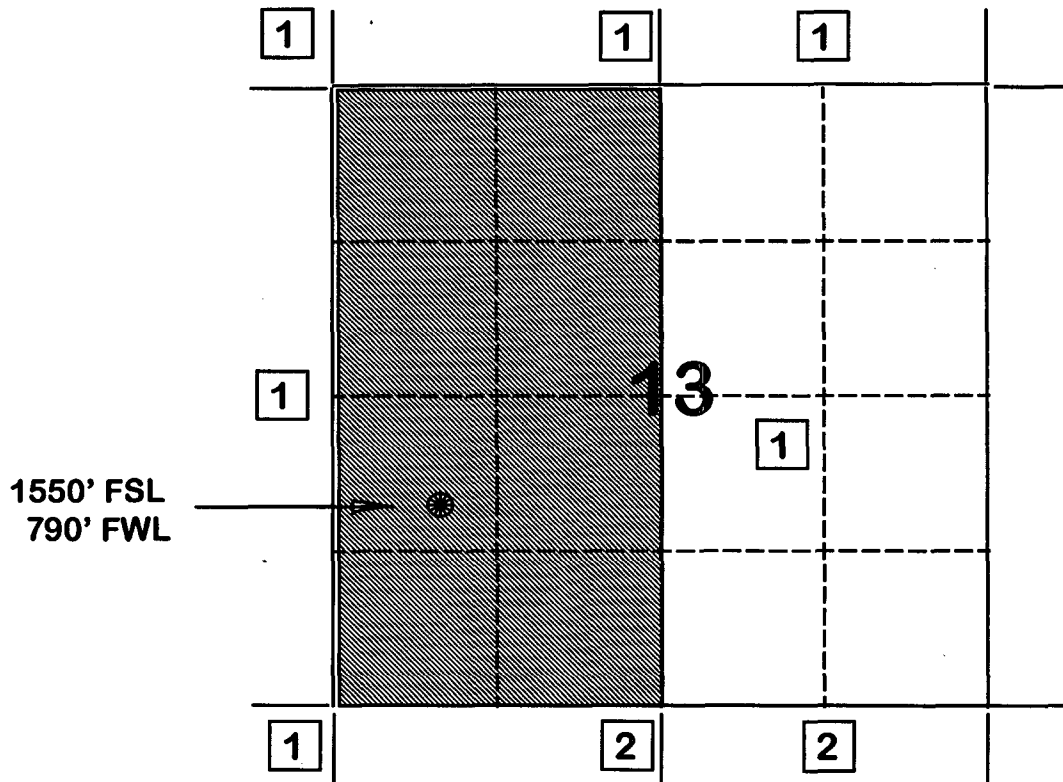
BURLINGTON RESOURCES OIL AND GAS COMPANY

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 / MV

Catanach, David

From: Catanach, David
Sent: Wednesday, June 10, 1998 1:15 PM
To: 'Peggy Bradfield'
Subject: Neudecker No. 7

Peggy,

Thanks for the cookies, they were delicious. I was reviewing your DHC application for the Neudecker No. 7 and found that the WI, RI and ORRI notice list was not included. Item No. 10 states that notice was given to these parties. Can you please tell me if they were notified and send me a notice list?

I'll hold this app until I hear from you.

By, the way, how was the raft trip?

Thanks,

David