

DATE IN 5/19/98	SUSPENSE 6/8/98	ENGINEER DC	LOGGED BY MV	TYPE DHC
-----------------	-----------------	-------------	--------------	----------

ABOVE THIS LINE FOR DIVISION USE ONLY

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



1967

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]

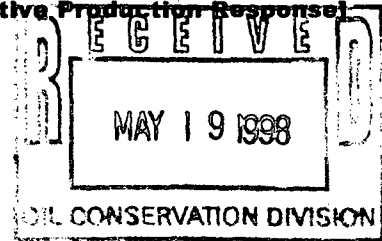
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

[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

Nye Federal Com

#1

L 8-29-10

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 7367 API NO. 30-045-08560 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: 3680' - 4585'		6492' - 6660'
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)
Oil Zones - Artificial Lift: Estimated Current	a. 500 psia @ 4133' Based on offset well	a.	a. 351 psia @ 6576'
Gas & Oil - Flowing: Measured Current	(Original)		
All Gas Zones: Estimated or Measured Original	b. 1612 psia @ 4133' Based on offset well	b.	b. 2421 psia @ 6576'
6. Oil Gravity (°API) or Gas BTU Content	1181 (Based on Offset Well)		1178
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 of recent test (within 60 days)	Date: NA (Zone not completed yet)	Date: Rates:	Date: 5/98 78 MCFD, 0.4 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 I
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

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 30-045-11994		*Pool Code 72319/71599	*Pool Name Blanco Mesaverde/Basin Dakota
*Property Code 18413	*Property Name NYE FEDERAL COM		*Well Number 1
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 5681'

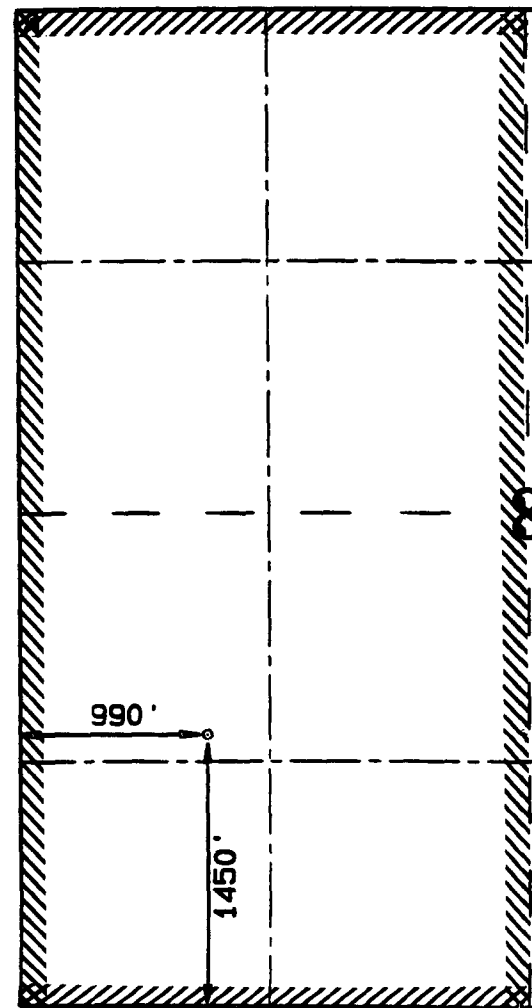
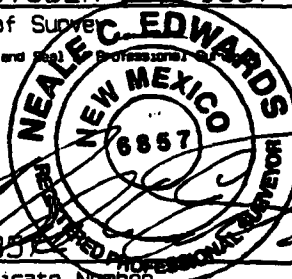
¹⁰ Surface Location

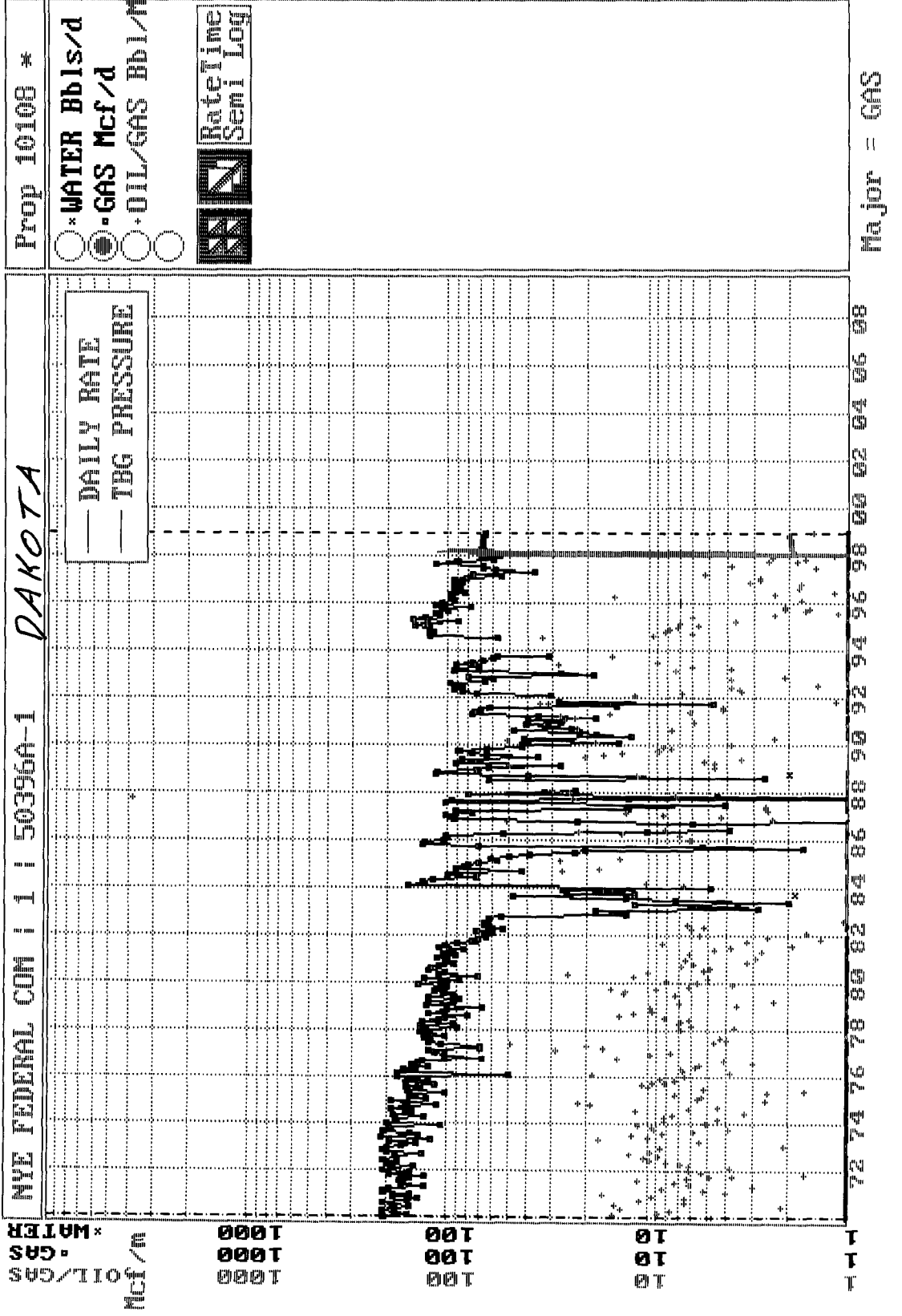
UL or lot no. L	Section 8	Township 29N	Range 10W	Lot Idn	Feet from the 1450	North/South line South	Feet from the 990	East/West line West	County SAN JUAN
--------------------	--------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	--------------------

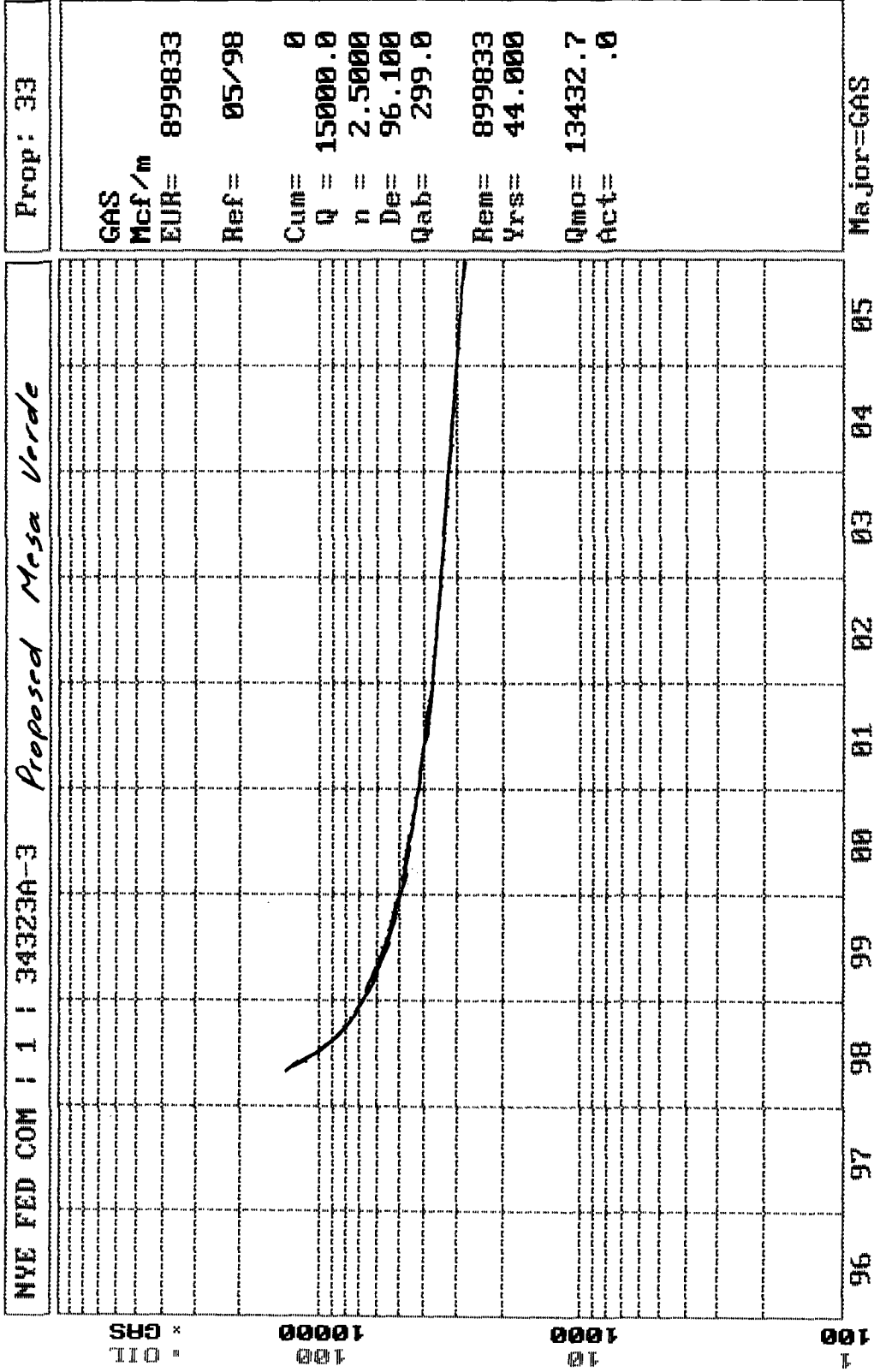
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicates Acres MV-W/312.94 DK-W/312.94		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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 27 October, 1960	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 Administrator Title 11-10-97 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. OCTOBER 29, 1997 Date of Survey Signature and Seal  Certificate Number





Nye Federal No. 1
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	0.674	GAS GRAVITY	0.68
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.68	%N2	0.27
%CO2	0.35	%CO2	1.7
%H2S	0	%H2S	0
DIAMETER (IN)	5	DIAMETER (IN)	5
DEPTH (FT)	4133	DEPTH (FT)	6576
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	113	BOTTOMHOLE TEMPERATURE (DEG F)	144
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	451	SURFACE PRESSURE (PSIA)	300
BOTTOMHOLE PRESSURE (PSIA)	500.4	BOTTOMHOLE PRESSURE (PSIA)	351.1
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.674	GAS GRAVITY	0.68
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.67	%N2	0.27
%CO2	0.35	%CO2	1.7
%H2S	0	%H2S	0
DIAMETER (IN)	5	DIAMETER (IN)	5
DEPTH (FT)	4133	DEPTH (FT)	6576
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	113	BOTTOMHOLE TEMPERATURE (DEG F)	144
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1424	SURFACE PRESSURE (PSIA)	1991
BOTTOMHOLE PRESSURE (PSIA)	1611.8	BOTTOMHOLE PRESSURE (PSIA)	2421.2

** The Mesa Verde information is based on data from the Nye Federal Com No. 3 located in Sec. 9, UL-E, T29N R10W

Page No.: 1

Print Time: Sat May 09 14:50:45 1998

Property ID: 11299

OFFSET WELL - LOCATION: Sec. 9-E, T29N R10W

Property Name: NYE FEDERAL COM | 3 | 53207B-1

MESA VERDE

Table Name: K:\ARIES\RR99PDP\TEST.DBF

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

03/05/62	0	1412.0
04/05/62	0	1411.0
07/15/63	10000	1277.0
12/05/63	14000	1172.0
07/16/64	21000	1069.0
08/04/65	32000	942.0
07/23/66	44000	866.0
02/15/67	51000	832.0
02/02/68	63000	832.0
02/04/69	76456	824.0
03/11/70	99382	773.0
08/13/71	121992	774.0
05/12/72	134075	650.0
06/04/73	154694	551.0
04/05/76	171019	786.0
05/09/77	196431	701.0
01/31/78	234049	660.0
01/31/79	255167	660.0
09/22/80	289244	702.0
05/18/82	328879	692.0
12/30/89	430238	680.0
12/05/94	452987	720.0

04/01/98 573841 439 Current Based on Pressure vs. Cum. Gas Curve

Page No.: 1

Print Time: Sat May 09 14:38:07 1998

Property ID: 10108

Property Name: NYE FEDERAL COM | 1 | 50396A-1

DAKOTA

Table Name: K:\ARIES\RR99PDP\TEST.DBF

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

01/16/61	0	1979.0	<i>Initial</i>
01/27/61	0	1978.0	
04/22/61	46000	1414.0	
02/01/62	103000	1563.0	
02/04/63	208000	1349.0	
02/07/64	326000	1203.0	
02/01/65	430000	1112.0	
12/10/65	528000	1119.0	
07/23/66	592000	840.0	
05/22/67	635000	849.0	
02/02/68	699000	864.0	
02/04/69	781084	831.0	
03/11/70	866666	747.0	
08/13/71	957824	740.0	
05/12/72	1005858	618.0	
06/04/73	1076250	535.0	
05/12/75	1190894	504.0	
05/09/77	1283304	515.0	
07/10/79	1371976	612.0	
05/18/81	1442911	624.0	
10/26/88	1585438	695.0	
10/23/90	1624409	475.0	
04/01/98	1814122	288	

Current based on Pressure vs. Cum. Gas Curve

FARMINGTON

ANNUAL PRODUCTION FOR 50396A

PHS020M1

NYE FEDERAL COM 1

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

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

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

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

PC DATE BBLS

PC DATE

MCF

DATE

BBLS

02 6912 9191

01 6912

849908

YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1990	112	14645	11097	1626498	51	441
1991	176	14821	13759	1640257	47	488
1992	71	14892	23913	1664170	8	496
1993	183	15075	20408	1684578		496
1994	205	15280	20471	1705049		496
1995	120	15400	42278	1747327		496
1996	109	15509	34383	1781710		496
1997	53	15562	26539	1808249		496
1998	17	15579	5873	1814122		496

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 11/19/87

FARMINGTON

1998 MONTHLY PRODUCTION FOR 50396A

PHS030M1

NYE FEDERAL COM 1

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	02	2		01	1688	31	1178	15.025			
2	2	F	28	02	3		01	1615	28	1178	15.025			
3	2	F	31	02	12		01	2570	31	1178	15.025			
4														
5														
6														
7														
8														
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 05/05/98

Form: DK

MS: 390 ERNIE MINERT

Compressor: No

Current Year

	<u>Gas</u>	<u>Oil</u>
GWI:	100.0000%	100.0000%
GNI:	84.0567%	84.0567%

Volumes

(Days On)

7 Day Avg	79	3.8
30 Day Avg	78	0.4
60 Day Avg	38	0.2
3 Mo Avg	61	0.1
6 Mo Avg	72	0.1
12 MoAvg	73	0.1

Volumes

(Days in Month)

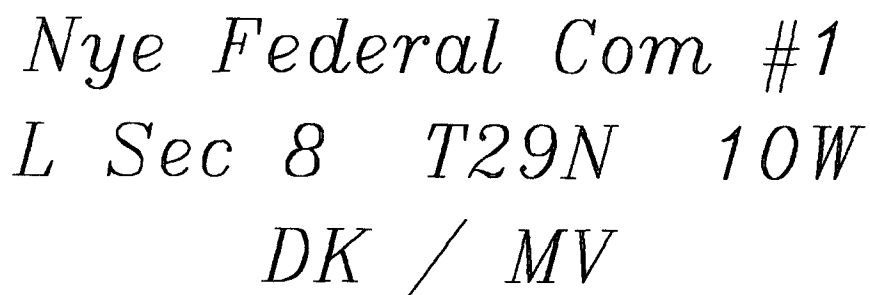
30 Day Avg	78	0.4
60 Day Avg	38	0.2
3 Mo Avg	61	0.1
6 Mo Avg	71	0.1
12 Mo Avg	72	0.1

			<u>Days</u>			<u>Days</u>
	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>
Jan	2,556	7.0	31	1,722	2.0	31
Feb	1,679	0.0	28	1,647	3.0	28
Mar	2,359	12.0	31	0	0.0	31
Apr	1,168	0.0	30	0	0.0	0
May	1,837	1.0	31	0	0.0	0
Jun	2,093	3.0	23.8	0	0.0	0
Jul	2,095	8.0	31	0	0.0	0
Aug	3,639	2.0	31	0	0.0	0
Sept	2,831	5.0	30	0	0.0	0
Oct	2,816	7.0	31	0	0.0	0
Nov	1,857	3.0	30	0	0.0	0
Dec	2,138	5.0	31	0	0.0	0
Total	27,068	53.0		3,369	5.0	

Print Form

Exit Volumes Data

5/9/1998

 DK / MV

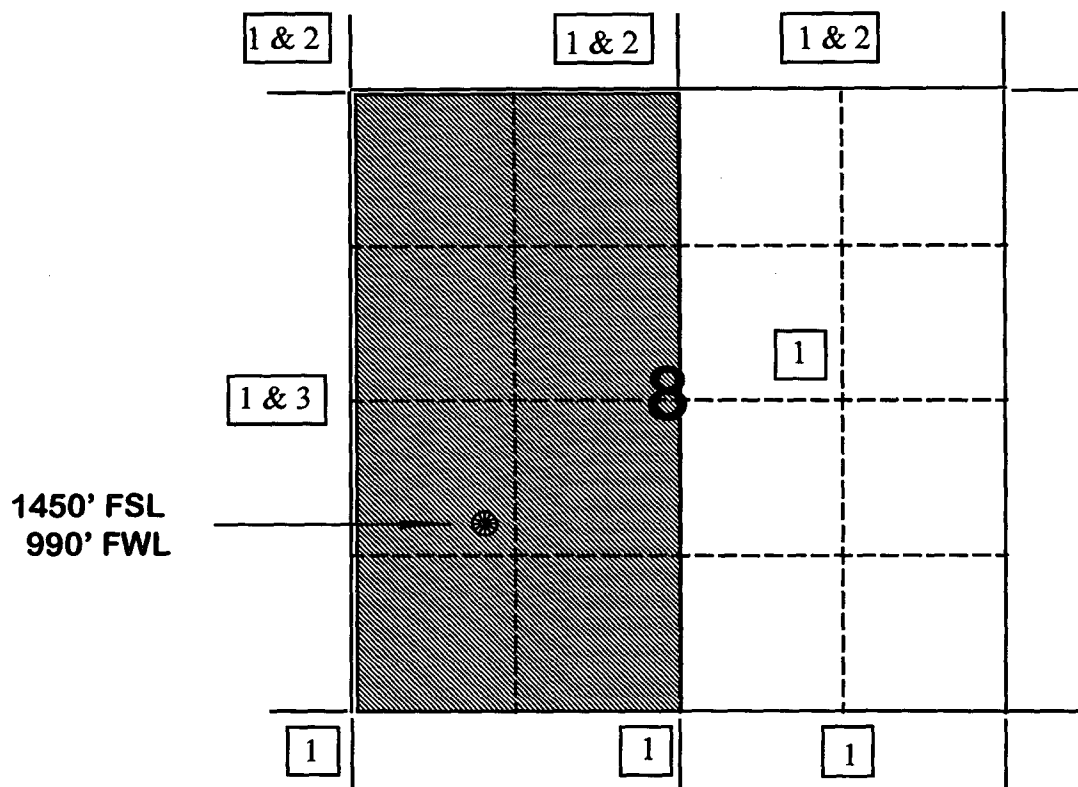
BURLINGTON RESOURCES OIL AND GAS COMPANY

NYE Federal Com 1

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 Co. - c/o Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) Conoco Inc. - c/o Donna Shuey
10 Desta Drive, Suite 100W
Midland, TX 79705-4500