

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

Kaime

2M

D 20-26N-06W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7477 API NO. 30-039-XXXXX 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	Otero Chacra - 82329	Blanco Mesaverde - 72319	Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	will be supplied upon completion	6568-6667
3. Type of production (Oil or Gas)	gas	gas	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	flowing	flowing
5. Bottomhole Pressure	(Current) a. 421 psi (see attachment)	a. 467 psi (see attachment)	a. 901 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1032 psi (see attachment)	b. 1928 psi (see attachment)	b. 3047 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1146	BTU 1247	BTU 1171
7. Producing or Shut-In?	shut in	shut in	shut in
Production Marginal? (yes or no)	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: n/a Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: n/a Rates:	Date: n/a 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: % 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 ☐ No15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). ☐ Reference Order ☐

16. ATTACHMENTS:

- * For zones with no production history, assumed production
- * 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

TELEPHONE NO.: (505) 326-9871

TITLE: Production Engineer

DATE: 03-08-99

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-
Revised February 21, 1998
Instructions on 1
Submit to Appropriate District Of
State Lease - 4 Co
Fee Lease - 3 Co

☐ AMENDED REPC

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code		Pool Name	
30-039-		72319/82329/71599		Basin Dakota	
Property Code		Property Name			Well Number
7477		KAIME			2M
OGRID No.		Operator Name			Elevation
14538		BURLINGTON RESOURCES OIL & GAS COMPANY			6633'

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
0	20	26N	6W		790'	NORTH	955	WEST	RIO ARRI

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		13 Joint or Infill		14 Consolidation Code		15 Order No.	
MV-N/320							
DK-N/320 Cha - 160							

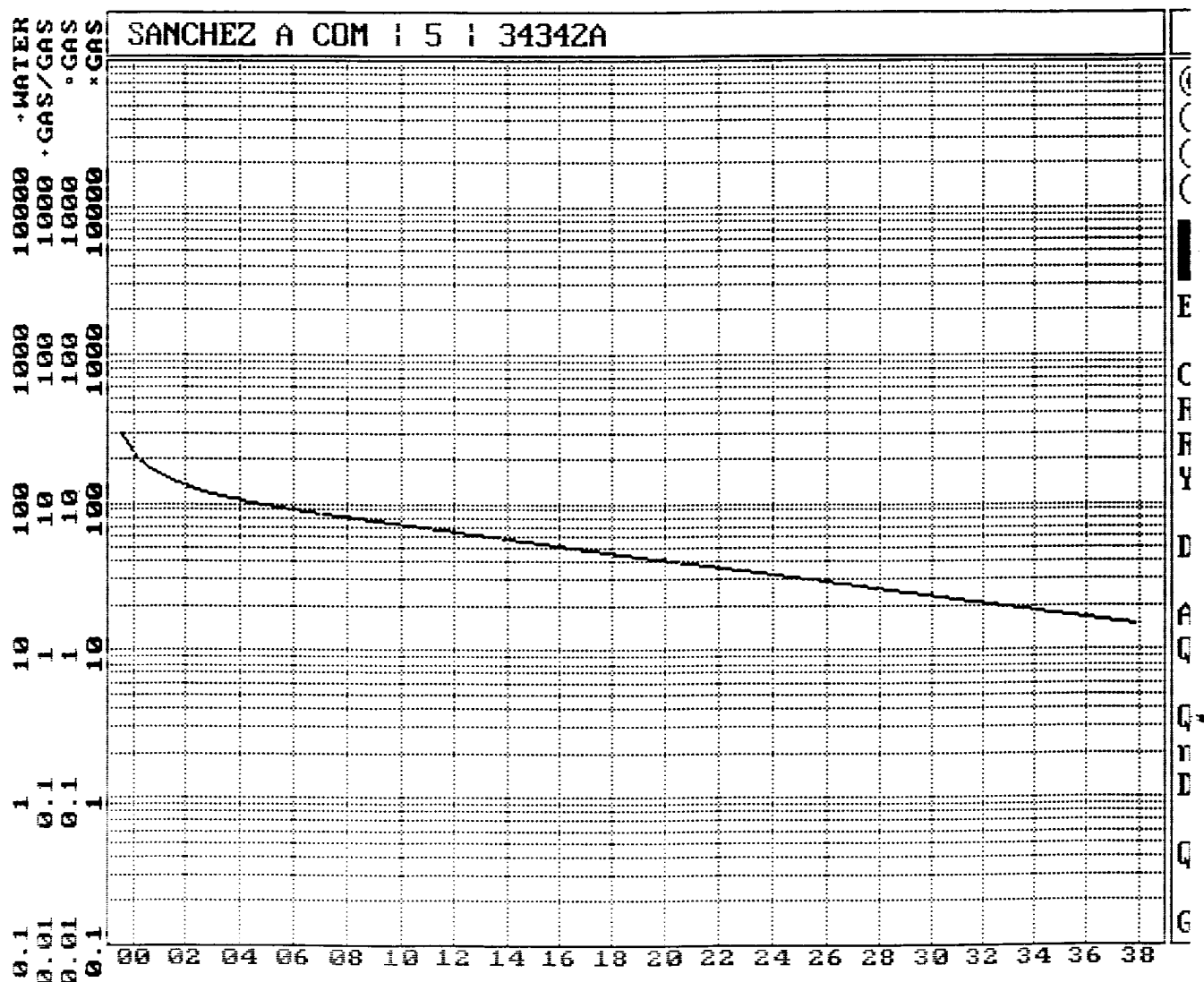
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16		5292.54'		17 OPERATOR CERTIFICATION	
Obt		FEE		I hereby certify that the information contained here is true and complete to the best of my knowledge and belief.	
955'		SF-079302-A		Signature Peggy Bradfield	
5321.58'		20		Printed Name Regulatory Administrator	
		SF-079304-A		Title 1-27-99	
		5411.34'		Date	
		5286.60'		18 SURVEYOR CERTIFICATION	
				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made or under my supervision, and that the same is true and correct to the best of my belief.	
				DECEMBER 23, 1998	
				Date of Survey	
				Signature and Seal of Professional Surveyor	
				NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR	
				Certificate Number	

Kaime #2M

Expected Production Curve

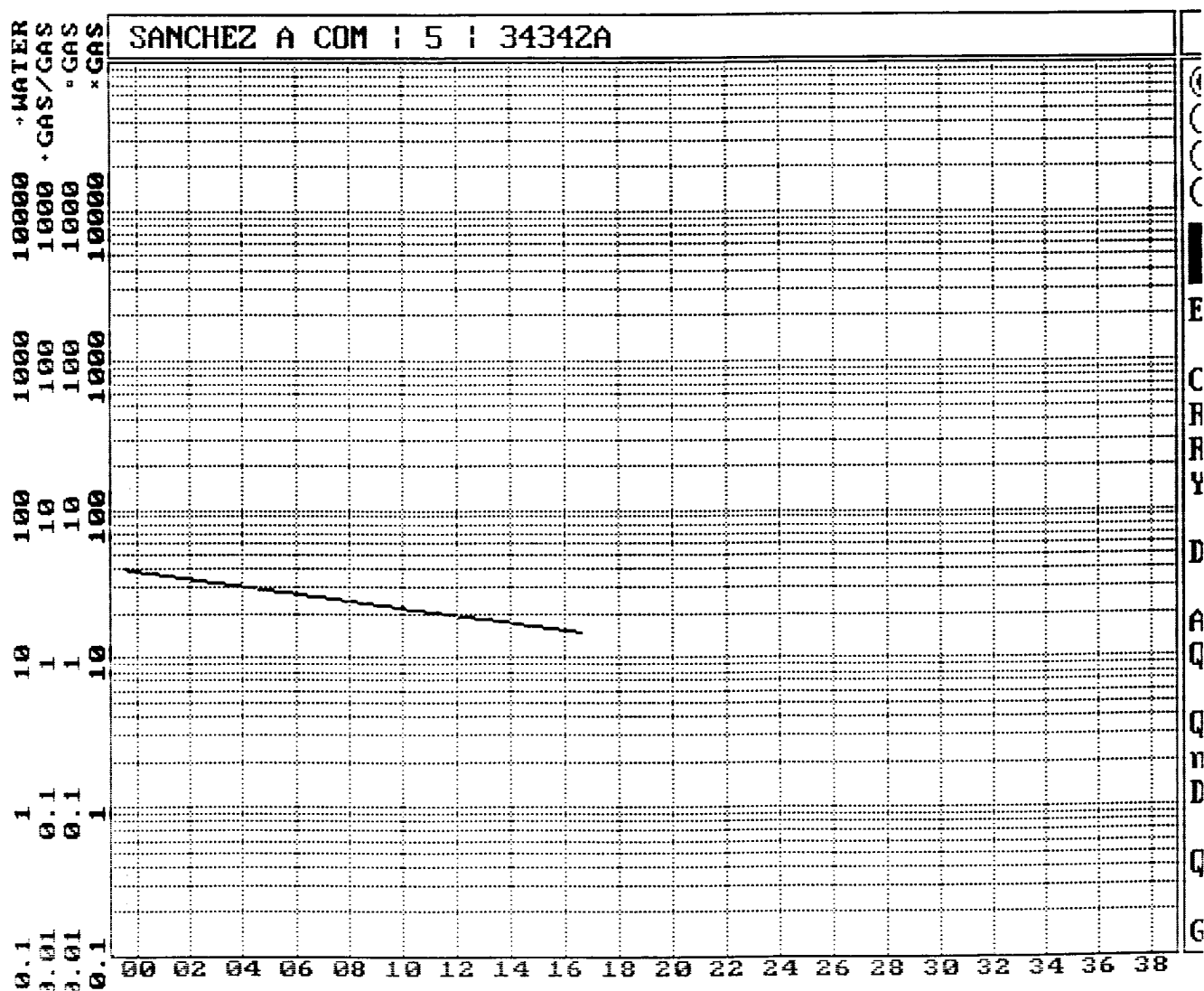
Mesaverde Formation



Kaime #2M

Expected Production Curve

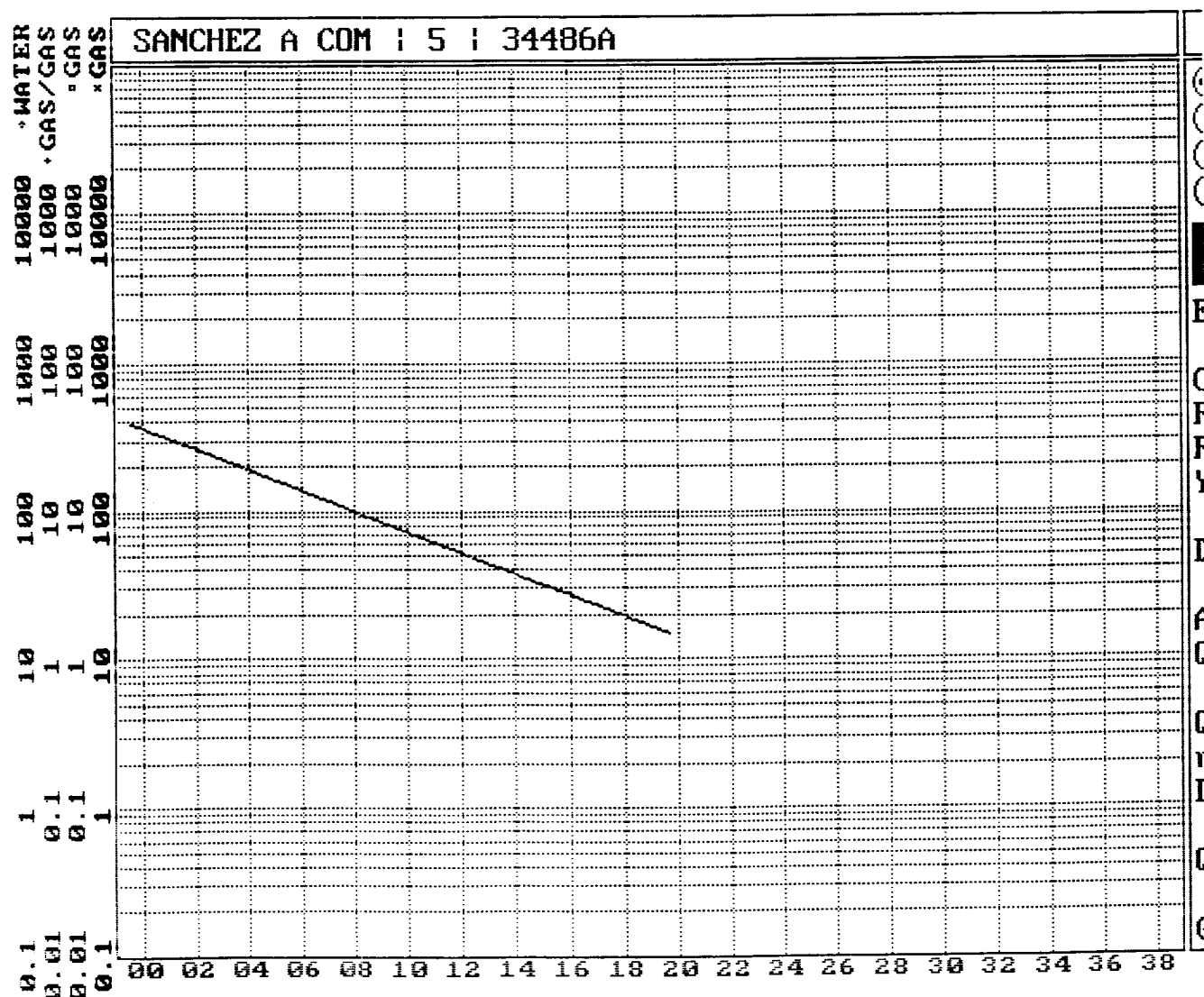
Chacra Formation



Kaime #2M

Expected Production Curve

Dakota Formation



Page No.: 2
Print Time: Mon Feb 08 07:27:13 1999
Property ID: 7901
Property Name: SANCHEZ A | 3 | 53555B-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

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

06/17/68	0	954.0
10/25/68	12000	709.0
05/29/69	48932	539.0
03/05/70	89042	472.0
07/14/71	140815	457.0
08/01/72	180799	391.0
08/28/73	213530	380.0
02/21/75	254951	397.0
04/28/75	259422	394.0
03/01/93	514552	384.0

Kaime #2M

Chacra Offset

Page No.: 1
Print Time: Mon Feb 08 08:18:47 1999
Property ID: 158
Property Name: VAUGHN | 12M | 54439A-1
Table Name: Q:\ARIES\FDBAR367\TEST.DBF

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

12/10/85	0	1520.0
02/10/86	68962	1257.0
05/05/86	115170	565.0
10/08/87	525228	563.0
02/25/90	747649	592.0
03/29/92	951654	462.0
05/31/94	1111609	385.0

Kaime #2M

Mesaverde Offset

Page No.: 1
Print Time: Mon Feb 08 08:19:26 1999
Property ID: 155
Property Name: KLEIN | 27 | 43963A-1
Table Name: Q:\ARIES\FDBAR367\TEST.DBF

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

09/20/78	0	2473.0
12/04/78	30459	1464.0
06/18/79	89015	1494.0
09/03/80	206954	1228.0
06/11/81	258732	1167.0
10/19/83	392940	968.0
12/04/85	510477	1002.0
12/05/88	628424	1012.0
04/09/90	685688	750.0

Kaime #2M

Dakota Offset

Kaime #2M
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Chacra		Mesaverde	
<u>CH-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.661	GAS GRAVITY	0.737
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.52	%N2	0.3
%CO2	0.23	%CO2	1.01
%H2S	0	%H2S	0
DIAMETER (IN)	2.875	DIAMETER (IN)	2.375
DEPTH (FT)	3908	DEPTH (FT)	7184
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	384	SURFACE PRESSURE (PSIA)	385
BOTTOMHOLE PRESSURE (PSIA)	421.2	BOTTOMHOLE PRESSURE (PSIA)	466.6
<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.661	GAS GRAVITY	0.737
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.52	%N2	0.3
%CO2	0.23	%CO2	1.01
%H2S	0	%H2S	0
DIAMETER (IN)	2.875	DIAMETER (IN)	2.375
DEPTH (FT)	3039	DEPTH (FT)	7184
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	954	SURFACE PRESSURE (PSIA)	1520
BOTTOMHOLE PRESSURE (PSIA)	1032.1	BOTTOMHOLE PRESSURE (PSIA)	1928.3

Kaime #2M

Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Dakota	
<u>DK-Current</u>	
GAS GRAVITY	0.685
COND. OR MISC. (C/M)	C
%N2	0.26
%CO2	0.84
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6958
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	750
BOTTOMHOLE PRESSURE (PSIA)	901.0

<u>DK-Original</u>	
GAS GRAVITY	0.685
COND. OR MISC. (C/M)	C
%N2	0.26
%CO2	0.84
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	6958
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2473
BOTTOMHOLE PRESSURE (PSIA)	3046.5

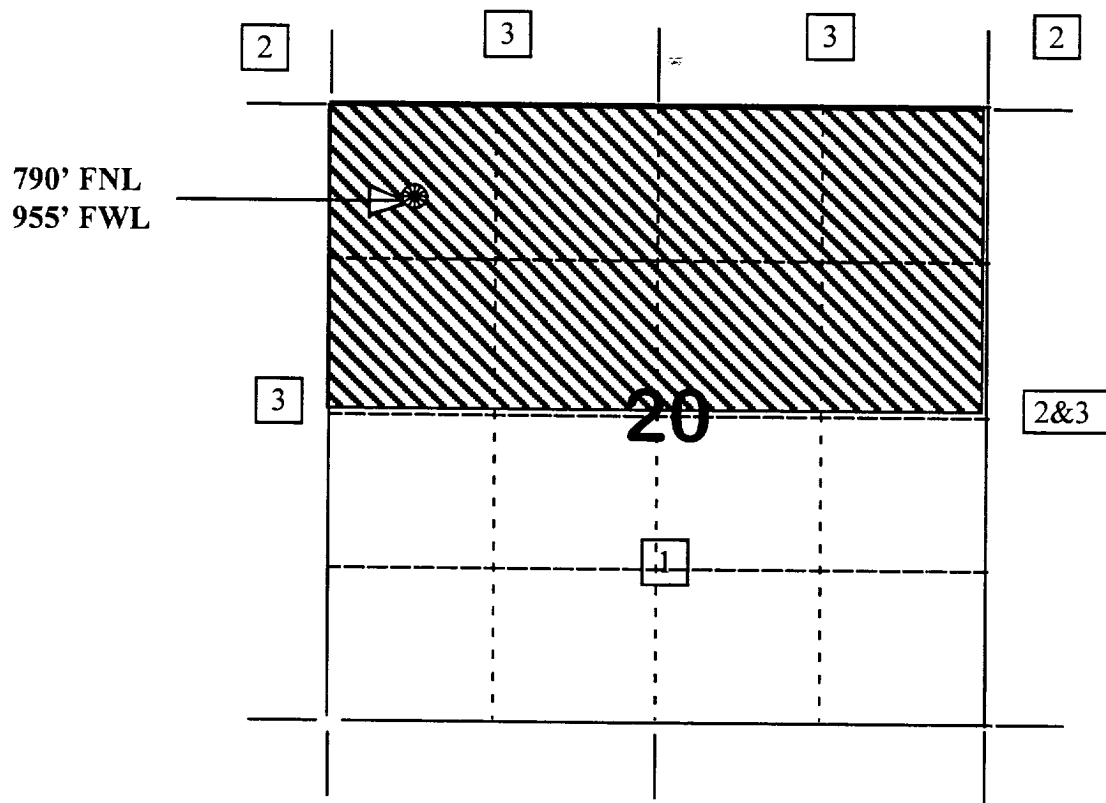
BURLINGTON RESOURCES OIL AND GAS COMPANY

Kaime #2M

OFFSET OPERATOR/OWNER PLAT

Chacra / Mesaverde / Dakota Formations Tri mingle Well

Township 26 North, Range 6 West



1) Burlington Resources

2) Caulkins Oil Company
2100 Colorado Bank Building
Denver, CO 80202

3) Conoco Inc.

Attn: Lori Thorpe
10 Desta Drive, Suite 100W
Midland, TX 79705

