



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-1483

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

Attention: Ms. Peggy Bradfield

Johnston A Com "G" No. 17
API No. 30-039-20767
*Unit A, Section 36, Township 26 North, Range 6 West, NMPM,
Rio Arriba County, New Mexico.
Blanco-Mesaverde (Prorated Gas - 72319),
Basin-Dakota (Prorated Gas - 71599) and
Ensenada-Gallup (Gas-96321) 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.

Administrative Order DHC-1483
Burlington Resources Oil & Gas Company
April 22, 1997
Page 2

Pursuant to Rule 303.H., the commingling authority granted herein may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 22nd day of April, 1997.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

WJL/DRC

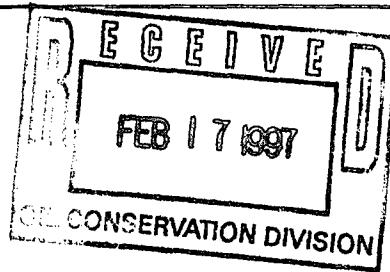
cc: Oil Conservation Division - Aztec
Bureau of Land Management-Farmington
State Land Office-Oil & Gas Division

**BURLINGTON
RESOURCES**

SAN JUAN DIVISION

February 14, 1997

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Re: Johnston A Com G #17
800'FNL, 1080'FEL Section 36, T-26-N, R-06-W, Rio Arriba County, NM
API #30-039-20767

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde, Ensenada Gallup and Basin Dakota pools in the subject well. This well was originally drilled as a single Dakota. The Mesa Verde and Gallup pools were opened in 1996. An application for this commingling was submitted to you in December 1996, and further information was requested by your staff. We are now submitting to you a revised application, including the requested information.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curve for the Dakota and anticipated production curves for the Mesa Verde and Gallup;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plats for the Mesa Verde, Gallup and Dakota.

If you are a working, overriding or royalty interest owner in either of the above described pools, you are being notified of this application as a requirement of the New Mexico Oil Conservation Division Rule #303C. Burlington, as operator, believes this application will be in the best interest of all owners. If you have no objection to this commingling application, you do not have to respond to this notification. Upon establishment of production from this well, you will receive your proportionate share of revenues from the pool in which you own an interest according to the proposed allocation formula. The allocation formula is included showing the calculations.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield
Regulatory/Compliance Administrator

xc: State Land Office

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

Operator

PO BOX 4289 FARMINGTON, NM 87499

Address

JOHNSTON A COM G

Lease

17

Well No.

A-36-26N-6W

Unit Ltr. - Sec - Twp - Rge

RIO ARRIBA

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 014538 Property Code 7207 API NO. 30-039-20767 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	ENSENADA GALLUP-96321	BASIN DAKOTA - 71599
2. Top and Bottom of Pay Section (Perforations)	5084-5352'	6230-6582'	7098-7357'
3. Type of production (Oil or Gas)	GAS	GAS	GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING	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. 544 psi (see attachment) (Original) b. 1114 psi (see attachment)	a. 1333psi (see attachment) b. 1333psi (see attachment)	a. 1116 psi (see attachment) b. 2952 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1186	BTU 1202	BTU 1186
7. Producing or Shut-In?	SHUT - IN	SHUT - IN	SHUT - IN
Production Marginal? (yes or no)	NO	YES	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: 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?

If not, have all working, overriding, and royalty interests been notified by certified mail?

Have all offset operators been given written notice of the proposed downhole commingling?

☐ Yes ☒ No
☒ Yes ☐ No
☒ 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 communized 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. NMOCD 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: Joan M. Easley TITLE Production Engineer DATE 2/13/97TYPE OR PRINT NAME Joan M. Easley TELEPHONE NO. (505) 326-9700

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer 00, Aramis, NM 88211-0719
District III
600 N. Main St., 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, 1991
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 30-039-20767	Post Code 72319/96321/71599	Post Name Basin Dakota Blanco Mesaverde/Ensenada Gallup/ MESA EXT
Property Code 7207	Property Name Johnston A Com. G	Well Number 17
OGRID No. 14538	Operator Name MERIDIAN OIL INC.	Elevation 6576'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
A	36	26 N	6 W		800	North	1080	East	R.A.

11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedication Acres
E/320
160-2/320

13 Joint or Infill

14 Consideration Code

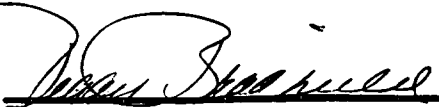
15 Order No.

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

16 Not resurveyed, prepared
from a plat dated 5-18-79
by David O. Vilven.

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
7-15-96
Date

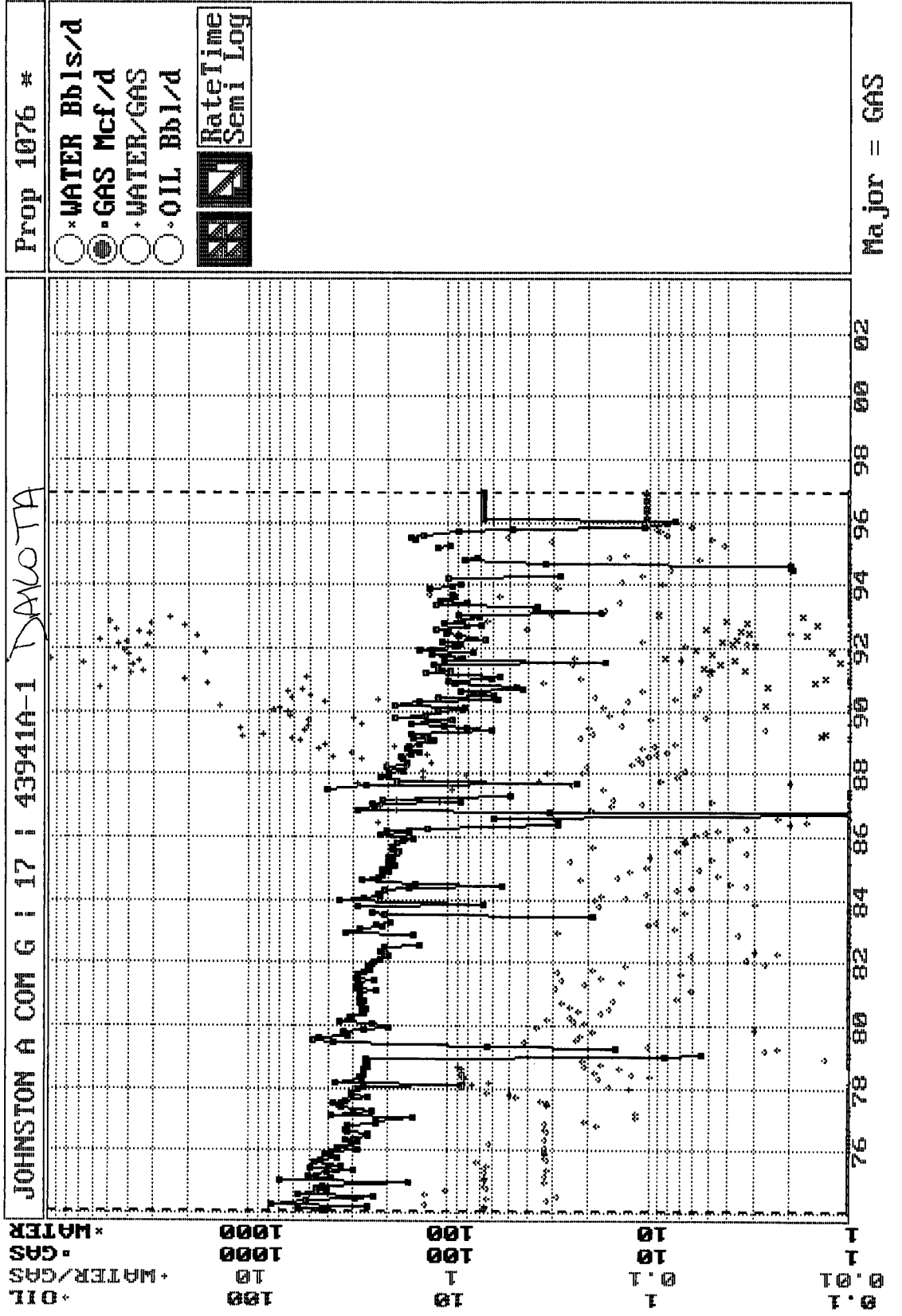
18 SURVEYOR CERTIFICATION

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.

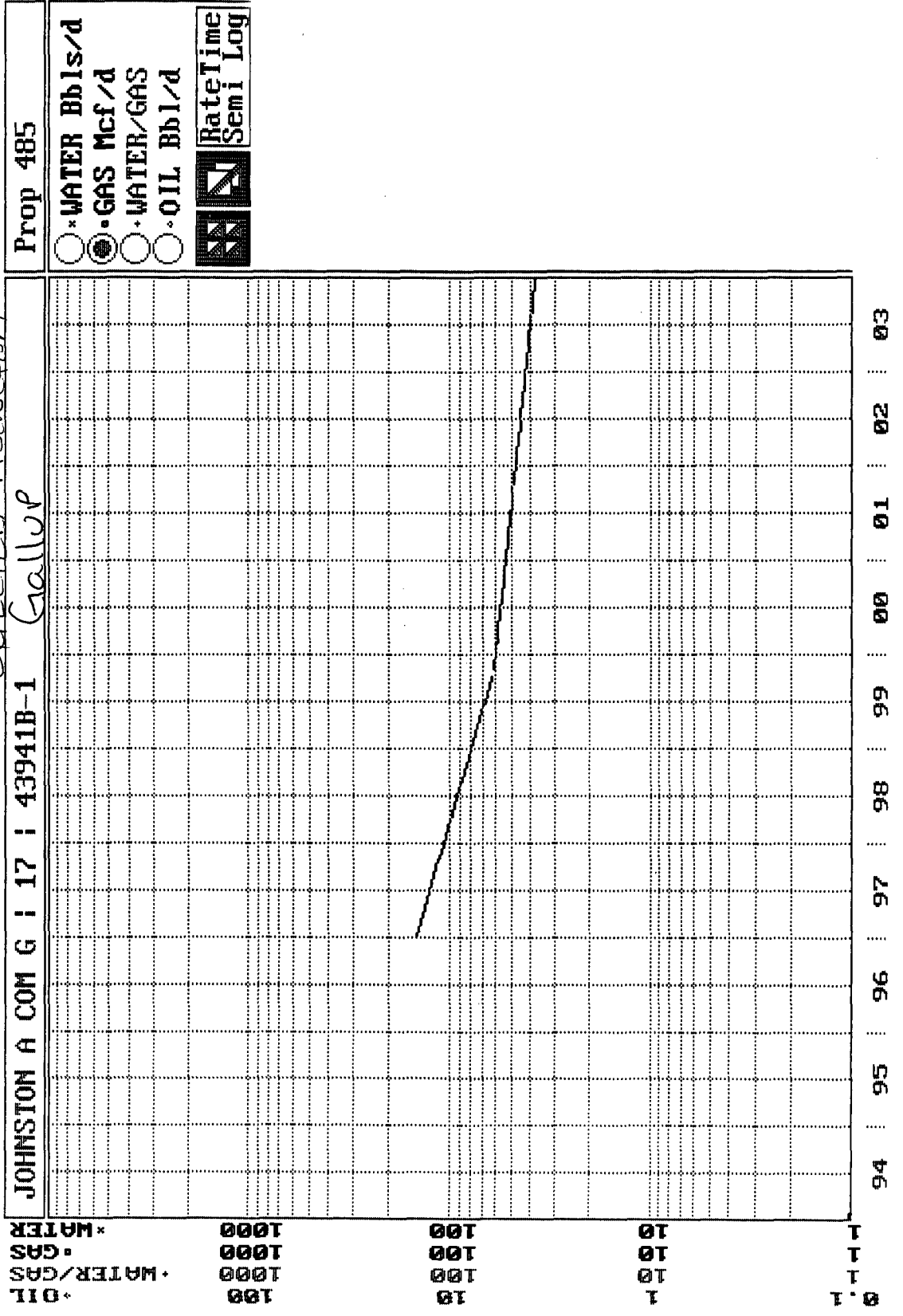
7-11-96
Date of Survey
Signature


RECEIVED
JUL 16 1996

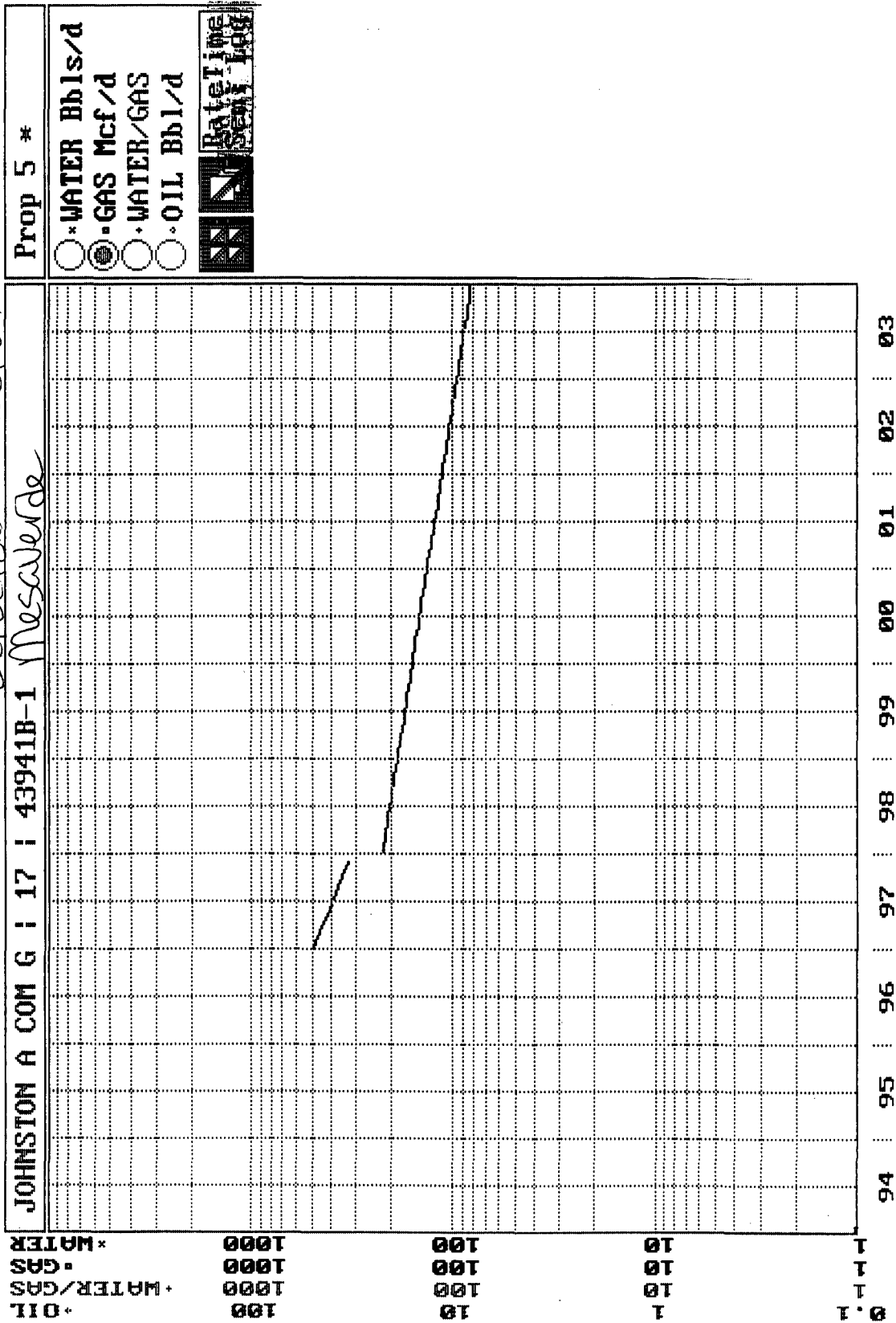
OIL CON. DIV.
DIST. 3



Expected Production



Expected Production

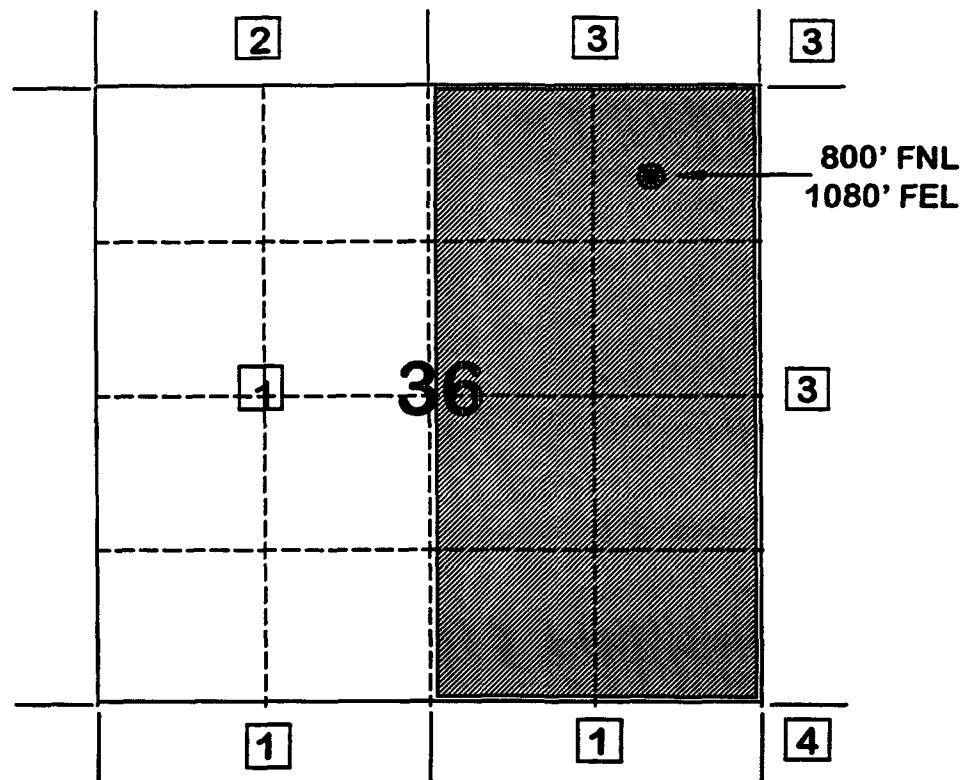


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Johnston A Com G #17
OFFSET OPERATOR \ OWNER PLAT**

Gallup (NE/4)/Mesaverde (E/2)/Dakota (E/2) Formations Commingle Well

Township 26 North, Range 6 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
 - 2) Caulkins Oil Company
P.O. Box 340
Bloomfield, NM 87413
 - 3) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201
 - 4) Conoco Inc.
10 Desta Drive, Suite 100W
Midland, TX 79705-4500
- Caulkins Oil Company
2100 Colorado Bank Building
Denver, CO 80202

DATE: 12/10/96

EL PASO PRODUCTION COMPANY

PAGE 1

PID# 012616803

DO# 814520-00

EXHIBIT 'A'

JOHNSTON A COM G #17

RIO ARRIBA, NEW MEXICO

* OFFICE USE ONLY *

* * *

* PC OWNER # *

NAME AND ADDRESS

LSE/ EPPC GAS
TRT INTEREST %

1. 1 013805-01

THEODORE J BLECHAR EXECUTOR
MARGARET ESTELLE BLECHAR ESTAT
138 LA CANADA WAY
SANTA CRUZ, CA 95060
SSN OR TAX ID: 050-20-9179

B 0.004630 ORRI
B 0.023148 ORRI
TOTAL 0.027778

2. 1 013806-01

MARTHA LOU DIXON
311 TAGGARD
BURNET, TX 78611
SSN OR TAX ID: 450-30-4495

B 0.023148 ORRI
B 0.010417 ORRI
B 0.052083 ORRI
B 0.004630 ORRI
TOTAL 0.090278

3. 1 017410-01

ANITA BRIGGS
712 RALEIGH ST
OXFORD, NC 27565
SSN OR TAX ID: 457-54-4267

B 0.010416 ORRI
B 0.052084 ORRI
B 0.023148 ORRI
B 0.004630 ORRI
TOTAL 0.090278

4. 1 038375-01

STATE OF NEW MEXICO
PO BOX 1148
SANTA FE, NM 87501
SSN OR TAX ID: 85-6000565

A 3.125000 RI
B 1.562500 RI
B 7.812500 RI
TOTAL 12.500000

5. 1 040905-01

ROBERT W SMITH & THELMA M
SMITH CO-PERS REPS
DAVID B GARTNER EST
PO BOX 1034
PAGOSA SPRINGS, CO 81147
SSN OR TAX ID: 525-36-9095

B 0.025000 ORRI
B 0.125000 ORRI
TOTAL 0.150000

6. 1 057790-01

MATIAS A & EMELINE L ZAMORA
REVOCABLE TRUST U/T/A 2/5/91
2862 PLAZA AMARILLA
SANTA FE, NM 87505
SSN OR TAX ID: 525-46-7286

B 0.031250 ORRI
B 0.006250 ORRI
TOTAL 0.037500

7. 1 075355-01

PEARL W SIEGENTHALER
PO BOX 1020
ARTESIA, NM 88211
SSN OR TAX ID: 525-03-8115

B 0.003472 ORRI
B 0.017361 ORRI
TOTAL 0.020833

8. 1 078576-01

THEODORE J BLECHAR
138 LA CANADA WAY
SANTA CRUZ, CA 95060
SSN OR TAX ID: 050-20-9179

B 0.010417 ORRI
B 0.052083 ORRI
TOTAL 0.062500

9. 1 101191-02

H LIMITED PARTNERSHIP
PO BOX 2185
SANTA FE, NM 87504
SSN OR TAX ID: 85-0436556

B 0.333333 ORRI
B 0.003472 ORRI
B 1.666667 ORRI
B 0.017361 ORRI
TOTAL 2.020833

10. 1 999021-01

BURLINGTON RESOURCES O&G CO
801 CHERRY ST
FORT WORTH , TX 76102
SSN OR TAX ID: 41-1400579

A	21.875000	WI
B	10.100000	WI
B	52.604167	WI
B	0.420833	WI
TOTAL	85.000000	

*** DIVISION ORDER TOTAL ---->

100.000000

DATE: 12/10/96

DOS722NB

MERIDIAN OIL INC.

PAGE: 1

D/O NUM PROD DP NUM WELL NAME/OPERATOR

PROPERTY

ST COUNTY

81452000 GAS 43941A JOHNSTON A COM G 17

012616803

NM RIO ARRIBA

BURLINGTON RESOURCES O&G CO

Y NM4201

BC: NONE

OWNER	OWNER NAME	LR	P/S	REASON FOR SUSP	INT TYPE	BPO %
999021-01	BURLINGTON RESOURCES O&G CO	A	PAY		NWI	21.875000
		B	PAY		NWI	10.100000
		B	PAY		NWI	52.604167
		B	PAY		NWI	0.420833
				NWI TOTAL	----->	85.000000

BC: 001

BC OWNER	BC %	BC OWNER	BC %	BC OWNER	BC %
999021-01	BURLINGTON RESOURCES	100.000000			

OWNER	OWNER NAME	LR	P/S	REASON FOR SUSP	INT TYPE	BPO %
038375-01	STATE OF NEW MEXICO	A	PAY		RI	3.125000
		B	PAY		RI	1.562500
				RI TOTAL	----->	4.687500
013805-01	MARGARET ESTELLE BLECHAR ESTAT	B	PAY		ORRI	0.004630
013806-01	MARTHA LOU DIXON	B	PAY		ORRI	0.004630
		B	PAY		ORRI	0.010417
017410-01	ANITA BRIGGS	B	PAY		ORRI	0.010416
		B	PAY		ORRI	0.004630
040905-01	DAVID GARTNER DECD	B	PAY		ORRI	0.025000
057790-01	MATIAS A & EMELINE L ZAMORA TR	B	PAY		ORRI	0.006250
075355-01	PEARL W SIEGENTHALER	B	PAY		ORRI	0.003472
078576-01	THEODORE J BLECHAR	B	PAY		ORRI	0.010417
101191-02	H LIMITED PARTNERSHIP	B	PAY		ORRI	0.333333
		B	PAY		ORRI	0.003472
				ORRI TOTAL	----->	0.416667

BC: 002

BC OWNER	BC %	BC OWNER	BC %	BC OWNER	BC %
999021-01	BURLINGTON RESOURCES	100.000000			

OWNER	OWNER NAME	LR	P/S	REASON FOR SUSP	INT TYPE	BPO %
038375-01	STATE OF NEW MEXICO	B	PAY		RI	7.812500
				RI TOTAL	----->	7.812500

DATE: 12/10/96

MERIDIAN OIL INC.

DOS722NB

D/O NUM PROD DP NUM WELL NAME/OPERATOR

DIVISION ORDER WITH BEARER CODE

PAGE: 2

81452000

GAS

43941A

JOHNSTON A COM G 17

BURLINGTON RESOURCES O&G CO

Y NM4201

012616803

ST COUNTY

NM RIO ARRIBA

PROPERTY

012616803

NM RIO ARRIBA

OWNER	OWNER NAME	LR	P/S	REASON	FOR	SUSP	INT	TYPE	BPO	%
013805-01	MARGARET ESTELLE BLECHAR ESTAT	B	PAY					ORRI	0.023148	
013806-01	MARTHA LOU DIXON	B	PAY					ORRI	0.023148	
		B	PAY					ORRI	0.052083	
017410-01	ANITA BRIGGS	B	PAY					ORRI	0.023148	
		B	PAY					ORRI	0.052084	
040905-01	DAVID GARTNER DECD	B	PAY					ORRI	0.125000	
057790-01	MATIAS A & EMELINE L ZAMORA TR	B	PAY					ORRI	0.031250	
075355-01	PEARL W SIEGENTHALER	B	PAY					ORRI	0.017361	
078576-01	THEODORE J BLECHAR	B	PAY					ORRI	0.052083	
101191-02	H LIMITED PARTNERSHIP	B	PAY					ORRI	1.666667	
		B	PAY					ORRI	0.017361	
								ORRI TOTAL	2.083333	

FDG055M4 GF16
START OF DATA
DP NO: 43941A
JOHNSTON A COM G
S

WELL PRODUCTION 8/8'S VOLUME

02/13/97 12:33:29

DATE: 970211 (YYMMDD FORMAT)

17 SCROLL FORWARD BY DATE: _

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-			
L	PRODUCED	ON	(BOPD	(MCFD	(BWPD			
			BOPM)	MCFM)	BWPM)			
-	02/11/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/10/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/09/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/08/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/07/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/06/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/05/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/04/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/03/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/02/97	0.0	0.00	0.00	0	0	0.00	0.00
-	02/01/97	0.0	0.00	0.00	0	0	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU
B MY JOB

PF6=NRI PF10=BROWSE MENU
ENTER=BACKWARDS
LU #18

PF11=INQ/UPDATE MENU
PF24=HELP

Mesa Verde

Page No.: 1
Print Time: Thu Feb 13 09:13:44 1997
Property ID: 5181
Property Name: VAUGHN | 33 | 54372A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

Johnston A Com G #17
Offset

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

12/31/85	0	965.0	← original
02/03/86	39844	951.0	
09/09/86	103811	742.0	
10/21/87	211151	633.0	
02/15/89	332858	577.0	
05/07/89	352812	480.0	
01/24/91	446142	659.0	
08/03/91	475993	671.0	
07/06/93	590578	477.0	← current

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.702
COND. OR MISC. (C/M)	C
%N2	1.29
%CO2	0.59
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	5205
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	965
BOTTOMHOLE PRESSURE (PSIA)	1114.1

VAUGHN #33 - MESAVERDE - ORIGINAL

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.702
COND. OR MISC. (C/M)	C
%N2	1.29
%CO2	0.59
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	5205
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	477
BOTTOMHOLE PRESSURE (PSIA)	544.2

VAUGHN #33 - MESAVERDE - CURRENT

Page No.: 1
Print Time: Thu Feb 13 14:04:15 1997
Property ID: 61
Property Name: KLEIN | 28E | 54440B-1
Table Name: C:\ARIES\C139\TEST.DBF

Gallup
Closest Offset

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

08/12/96 0 1033.0

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	1
%CO2	0.28
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7112
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1103
BOTTOMHOLE PRESSURE (PSIA)	1332.7

KLEIN #28E - GALLUP - CURRENT

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	1
%CO2	0.28
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7112
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1103
BOTTOMHOLE PRESSURE (PSIA)	1332.7

KLEIN #28E - GALLUP - ORIGINAL

Dakota

Property ID: 1076

Table Name: K:\ARIES\RR97PDP\TEST.DBF

11/02/73	0	2422.0	← original
11/28/73	0	2423.0	
03/15/74	37655	1754.0	
06/04/74	86223	1528.0	
05/13/75	225575	1018.0	
04/13/76	352356	934.0	
05/18/77	465104	798.0	
07/25/79	656251	809.0	
06/16/81	856914	660.0	
10/25/83	1014955	630.0	
07/01/85	1142004	496.0	
06/03/88	1301603	472.0	
07/24/90	1397228	620.0	
09/18/92	1468215	537.0	
10/17/94	1513944	930.0	← current

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.681
COND. OR MISC. (C/M)	C
%N2	1.23
%CO2	0.28
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7335
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2422
BOTTOMHOLE PRESSURE (PSIA)	2951.8

JOHNSTON A COM G #17- ORIGINAL

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.681
COND. OR MISC. (C/M)	C
%N2	1.23
%CO2	0.28
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7335
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	930
BOTTOMHOLE PRESSURE (PSIA)	1116.2

JOHNSTON A COM G #17- CURRENT

[illegible]

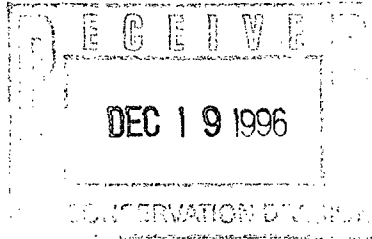
DHC 11/9/97

BURLINGTON RESOURCES

SAN JUAN DIVISION

December 16, 1996

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Re: Johnston A Com G #17
800'FNL, 1080'FEL Section 36, T-26-N, R-06-W, Rio Arriba County, NM
API #30-039-20767

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde, Ensenada Gallup and Basin Dakota pools in the subject well. This well was originally drilled as a single Dakota. The Mesa Verde and Gallup pools were opened in 1996.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curve for the Dakota;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plats for the Mesa Verde, Gallup and Dakota.

If you are a working, overriding or royalty interest owner in either of the above described pools, you are being notified of this application as a requirement of the New Mexico Oil Conservation Division Rule #303C. Burlington, as operator, believes this application will be in the best interest of all owners. If you have no objection to this commingling application, you do not have to respond to this notification. Upon establishment of production from this well, you will receive your proportionate share of revenues from the pool in which you own an interest according to the proposed allocation formula. The allocation formula is included showing the calculations.

Please let me know if you require additional data.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peggy Bradfield".

Peggy Bradfield
Regulatory/Compliance Administrator

District I
PO Box 1989, Hobbs, NM 88241-1989
District II
PO Drawer 00, Artesia, NM 88211-0719
District III
000 Rio Bravo 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 30-039-20767	Well Code 72319/96321/71599	Well Name Basin Dakota Blanco Mesaverde/Ensenada Gallup/ NGSA EXT
Property Code 7207	Property Name Johnston A Com. G	Well Number 17
OGRID No. 14538	Operator Name MERIDIAN OIL INC.	Elevation 6576'

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
A	36	26 N	6 W		800	North	1080	East	R.A.

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
E/320
160-3/320

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

16 Not resurveyed, prepared from a plat dated 5-18-73 by David O. Vilven.

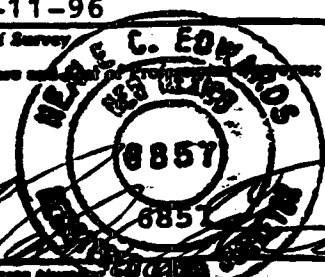
17 OPERATOR CERTIFICATION

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
7-15-96
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 me or under my supervision, and that the same is true and correct to the best of my belief.

7-11-96
Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

RECEIVED
JUL 6 1996

OIL CON. DIV.
DIST. 3

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 87505-6429

Form 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

Johnston A Com G

17

A-36-28N-6W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

OGRID NO. 14538 Property Code 7207 API NO. 30-039-20767 Federal , State X, (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	Ensenada Gallup-96321	Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	5084-5352'	6230-6582'	7098-7357
3. Type of production (Oil or Gas)	Gas	Gas	Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing	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. 1330 psi	a. 1400 psi	a. 642 psi
	(Original) b 1330 psi	b.1400 psi	b. 2933 psi
6. Oil Gravity (°API) or Gas BTU Content	1120	1190	1140
7. Producing or Shut-In?	SI	SI	SI
Production Marginal? (yes or no)	Yes	Yes	No
* 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 water of recent test (within 60 days)	Date: New zone (See attachment) Rates: Mp po.; mp	Date: New zone (See attachment) Rates:	Date:11-31-95 Rates: 1.8 BOPD, 125 MCFGPD, no wtr
	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: 50 % Gas: 74 %	Oil: 25 % Gas: 10 %	Oil: 25 % Gas: 16 %

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 ___X___ No ___
If not, have all working, overriding, and royalty interests been notified by certified mail? X Yes ___ No ___
Have all offset operators been given written notice of the proposed downhole commingling? X Yes ___ No ___
11. Will cross-flow occur? ___x___ 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. ___x___ Yes ___ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ___x___ Yes ___ No
13. Will the value of production be decreased by commingling? ___ Yes ___x___ 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. ___x___ Yes ___ No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). ___ R-10239 ___
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 Peggy Bradfield TITLE Regulatory Administrator DATE 12-11-96

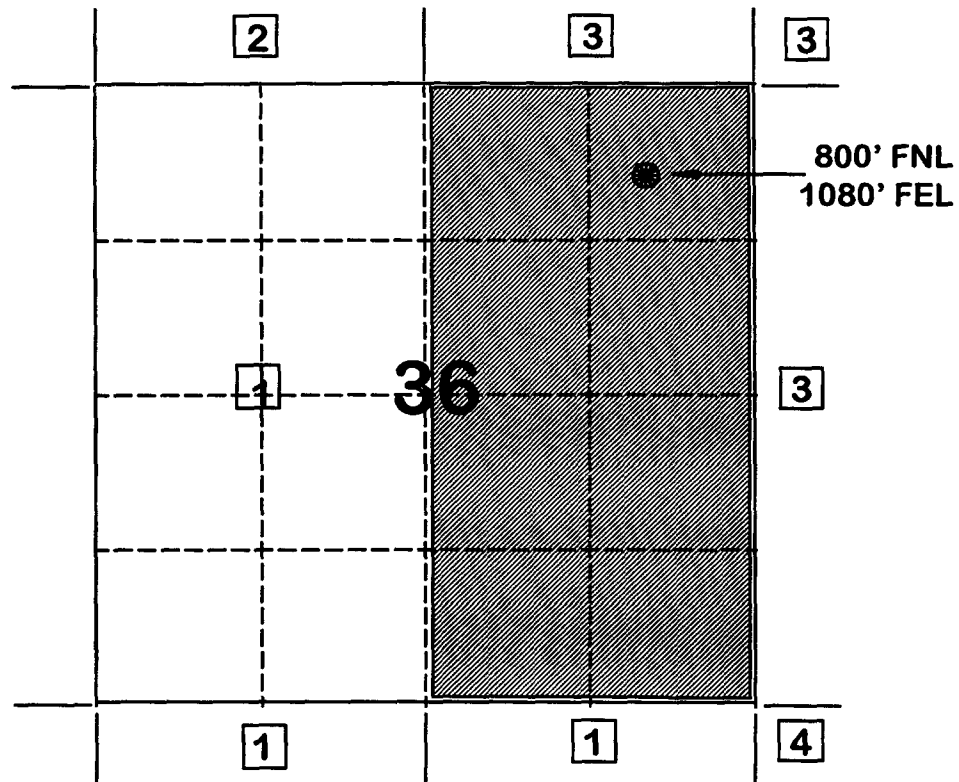
TYPE OR PRINT NAME Peggy Bradfield TELEPHONE NO. (505) 326-9700

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Johnston A Com G #17
OFFSET OPERATOR \ OWNER PLAT**

Gallup (NE/4)/Mesaverde (E/2)/Dakota (E/2) Formations Commingle Well

Township 26 North, Range 6 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Caulkins Oil Company
P.O. Box 340
Bloomfield, NM 87413
Caulkins Oil Company
2100 Colorado Bank Building
Denver, CO 80202
- 3) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 4) Conoco Inc.
10 Desta Drive, Suite 100W
Midland, TX 79705-4500

DATE: 12/10/96

EL PASO PRODUCTION COMPANY

EXHIBIT 'A'

JOHNSTON A COM G #17

RIO ARRIBA, NEW MEXICO

PAGE 1

PID# 012616803

DO# 814520-00

* OFFICE USE ONLY *
* PC OWNER # *
* * *

NAME AND ADDRESS

LSE/ EPPC GAS
TRT INTEREST %

1. 1 013805-01

THEODORE J BLECHAR EXECUTOR
MARGARET ESTELLE BLECHAR ESTAT
138 LA CANADA WAY
SANTA CRUZ, CA 95060
SSN OR TAX ID: 050-20-9179

B 0.004630 ORRI
B 0.023148 ORRI
TOTAL 0.027778

2. 1 013806-01

MARTHA LOU DIXON
311 TAGGARD
BURNET, TX 78611
SSN OR TAX ID: 450-30-4495

B 0.023148 ORRI
B 0.010417 ORRI
B 0.052083 ORRI
B 0.004630 ORRI
TOTAL 0.090278

3. 1 017410-01

ANITA BRIGGS
712 RALEIGH ST
OXFORD, NC 27565
SSN OR TAX ID: 457-54-4267

B 0.010416 ORRI
B 0.052084 ORRI
B 0.023148 ORRI
B 0.004630 ORRI
TOTAL 0.090278

4. 1 038375-01

STATE OF NEW MEXICO
PO BOX 1148
SANTA FE, NM 87501
SSN OR TAX ID: 85-6000565

A 3.125000 R1
B 1.562500 R1
B 7.812500 R1
TOTAL 12.500000

5. 1 040905-01

ROBERT W SMITH & THELMA M
SMITH CO-PERS REPS
DAVID B GARTNER EST
PO BOX 1034
PAGOSA SPRINGS, CO 81147
SSN OR TAX ID: 525-36-9095

B 0.025000 ORRI
B 0.125000 ORRI
TOTAL 0.150000

6. 1 057790-01

MATIAS A & EMELINE L ZAMORA
REVOCABLE TRUST U/T/A 2/5/91
2862 PLAZA AMARILLA
SANTA FE, NM 87505
SSN OR TAX ID: 525-46-7286

B 0.031250 ORRI
B 0.006250 ORRI
TOTAL 0.037500

7. 1 075355-01

PEARL W SIEGENTHALER
PO BOX 1020
ARTESIA, NM 88211
SSN OR TAX ID: 525-03-8115

B 0.003472 ORRI
B 0.017361 ORRI
TOTAL 0.020833

8. 1 078576-01

THEODORE J BLECHAR
138 LA CANADA WAY
SANTA CRUZ, CA 95060
SSN OR TAX ID: 050-20-9179

B 0.010417 ORRI
B 0.052083 ORRI
TOTAL 0.062500

9. 1 101191-02

H LIMITED PARTNERSHIP
PO BOX 2185
SANTA FE, NM 87504
SSN OR TAX ID: 85-0436556

B 0.333333 ORRI
B 0.003472 ORRI
B 1.666667 ORRI
B 0.017361 ORRI
TOTAL 2.020833

10. 1 999021-01

BURLINGTON RESOURCES O&G CO
801 CHERRY ST
FORT WORTH , TX 76102
SSN OR TAX ID: 41-1400579

**** DIVISION ORDER TOTAL ---->

A	21.875000	WI
B	10.100000	WI
B	52.604167	WI
B	0.420833	WI
TOTAL	85.000000	

100.000000

DATE: 12/10/96

MERIDIAN OIL INC.

DOS722NB

D/O NUM PROD DP NUM WELL NAME/OPERATOR

DIVISION ORDER WITH BEARER CODE

PROPERTY

ST COUNTY

PAGE:

1

81452000 GAS 43941A JOHNSTON A COM G 17

BURLINGTON RESOURCES O&G CO

Y NM4201

012616803

NM RIO ARRIBA

BC: NONE

OWNER	OWNER NAME	LR P/S REASON FOR SUSP	INT TYPE	BPO %
999021-01	BURLINGTON RESOURCES O&G CO	A PAY	NWI	21.875000
		B PAY	NWI	10.100000
		B PAY	NWI	52.604167
		B PAY	NWI	0.420833
		NWI TOTAL		85.000000

BC: 001

BC OWNER	BC %	BC OWNER	BC %	BC OWNER	BC %
999021-01	100.000000				

OWNER	OWNER NAME	LR P/S REASON FOR SUSP	INT TYPE	BPO %
038375-01	STATE OF NEW MEXICO	A PAY	RI	3.125000
		B PAY	RI	1.562500
		RI TOTAL		4.687500

013805-01	MARGARET ESTELLE BLECHAR ESTAT	B PAY	ORRI	0.004630
013806-01	MARTHA LOU DIXON	B PAY	ORRI	0.004630
		B PAY	ORRI	0.010417
017410-01	ANITA BRIGGS	B PAY	ORRI	0.010416
		B PAY	ORRI	0.004630
040905-01	DAVID GARTNER DECD	B PAY	ORRI	0.025000
057790-01	MATIAS A & EMELINE L ZAMORA TR	B PAY	ORRI	0.006250
075355-01	PEARL W SIEGENTHALER	B PAY	ORRI	0.003472
078576-01	THEODORE J BLECHAR	B PAY	ORRI	0.010417
101191-02	H LIMITED PARTNERSHIP	B PAY	ORRI	0.333333
		B PAY	ORRI	0.003472
		ORRI TOTAL		0.416667

BC: 002

BC OWNER	BC %	BC OWNER	BC %	BC OWNER	BC %
999021-01	100.000000				

OWNER	OWNER NAME	LR P/S REASON FOR SUSP	INT TYPE	BPO %
038375-01	STATE OF NEW MEXICO	B PAY	RI	7.812500
		RI TOTAL		7.812500

DATE: 12/10/96

MERIDIAN OIL INC.

DOS722NB

DIVISION ORDER WITH BEARER CODE

PAGE:

2

O/O NUM PROD DP NUM WELL NAME/OPERATOR
81452000 GAS 43941A JOHNSTON A COM G 17
BURLINGTON RESOURCES O&G CO
Y NM4201 012616803 NM RIO ARriba

OWNER	OWNER NAME	LR P/S	REASON FOR SUSP	INT TYPE	BPO %
013805-01	MARGARET ESTELLE BLECHAR ESTAT	B PAY		ORRI	0.023148
013806-01	MARTHA LOU DIXON	B PAY		ORRI	0.023148
017410-01	ANITA BRIGGS	B PAY		ORRI	0.052083
040905-01	DAVID GARTNER DECD	B PAY		ORRI	0.023148
057790-01	MATIAS A & EMELINE L ZAMORA TR	B PAY		ORRI	0.052084
075355-01	PEARL W SIEGENTHALER	B PAY		ORRI	0.125000
078576-01	THEODORE J BLECHAR	B PAY		ORRI	0.031250
101191-02	H LIMITED PARTNERSHIP	B PAY		ORRI	0.017361
		B PAY		ORRI	0.052083
		B PAY		ORRI	1.666667
		B PAY		ORRI	0.017361
		B PAY		ORRI	2.083333
			ORRI TOTAL		

FIXED PERCENTAGE PRODUCTION ALLOCATION METHOD
UTILIZING EXISTING PRODUCTION AND PITOT GAUGES

JOHNSON A COM G #17

BASIN DAKOTA/ENSENADA GALLUP/BLANCO MESA VERDE COMMINGLE
Unit A, Sec. 36, T26N, R06W
Rio Arriba County, New Mexico

Current Dakota Average Production (Q_1 , see attached production plot) = 125 MCF/D

Current Flowing Average tubing Pressure (P_{wfs1}) = 110 psi

Effective gas gradient = 0.02 psi/ft

Dakota midperf depth (D) = 7,225ft

Flowing well pressure (P_{wf1}) = $P_{wfs1} + D \cdot 0.02 = 255$ psi

Current Dakota Reservoir Pressure (P_r) = 642 psi

Turbulence Factor (n) = 0.75

*Standard for Basin Dakota

$K = (0.703 \cdot k_{avg} \cdot h) / (u \cdot z_{avg} \cdot Tr \cdot \ln(0.606 \cdot re / rw))$

Deliverability Equation $Q_1 = K \cdot (P_r^2 - P_{wf1}^2)^n = K \cdot (642^2 - 255^2)^{0.75} = K \cdot 14,301$

Flowing Average tubing Pressure (P_{wfs2}) = 0 psi *For Pitot test of total production

Flowing well pressure (P_{wf2}) = $P_{wfs2} + D \cdot 0.02 = 145$ psi

Deliverability Equation $Q_2 = K \cdot (P_r^2 - P_{wf2}^2)^n = K \cdot (642^2 - 145^2)^{0.75} = K \cdot 15,640$

$Q_2 = Q_1 \cdot (K \cdot (P_r^2 - P_{wf2}^2)^n) / (K \cdot (P_r^2 - P_{wf1}^2)^n) = 125 \cdot (15,640 / 14,301) = 137$ MCF/D

Total Flow Test (Q_2) = 869 MCF/D

Dakota Portion of flow test = $Q_2 / Q_t = 137 / 869$ MCF/D = 16%

Remaining Production Allocation = 84%

from Offset Analogy & Reference Case (R-10239) Data,

Mesa Verde Gas Production Allocation % = 74%,

Gallup Gas Production Allocation = 10%

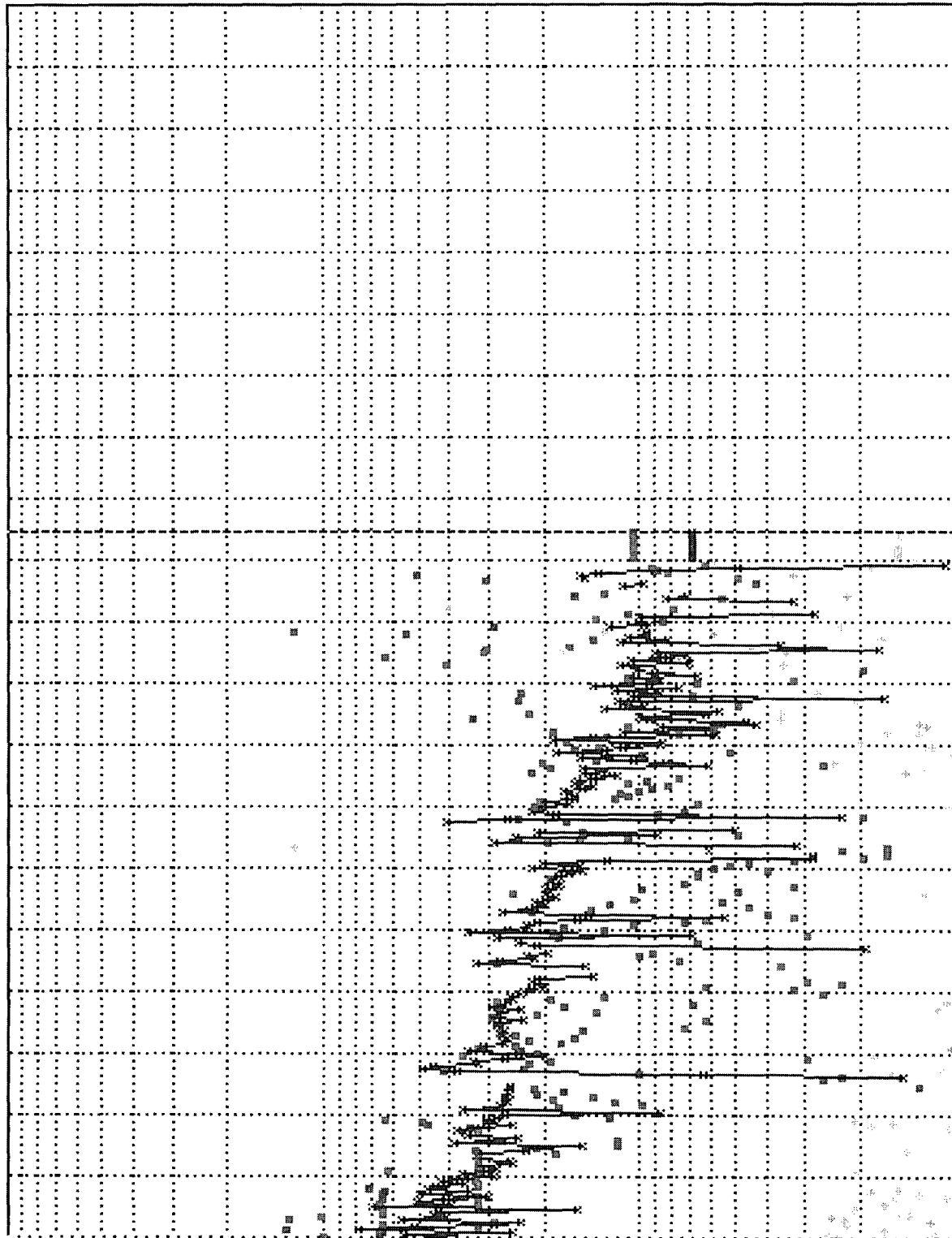
Liquid Allocation based on Reference Case R-10239

Deliverability Equation Derived from "Worldwide Practical Petroleum Reservoir Engineering Methods",
H. C. "Slip" Slider, pgs 298-315.

JOHNSTON A COM G : 17 : 43941A-1

Prop: 37

GAS
Mcf/d



76 78 80 82 84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 Major=GAS