

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

MORRIS

A

13

H 15-30N-11W

SAN JUAN

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7326 API NO. 30-45-2637400 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	Chacra - 82329		Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	3095' - 3448'		4435' - 4717' , 4756' - 5000,
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured	(Current) Est. a. N/A (Original) Est. b. N/A	a. b.	344.8 b. 1308.8
6. Oil Gravity (°API) or Gas BTU Content	BTU N/A		BTU 1216
7. Producing or Shut-In?	Not yet completed		Producing
Production Marginal? (yes or 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 * If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
	Date: n/a Rates: n/a	Date: Rates:	Date: n/a Rates: 102 MCF/D
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. 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 Mike Pippin TITLE Production Engineer DATE 03-29-99TYPE OR PRINT NAME Mike Pippin 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
Revised February 21,
Instructions on
Submit to Appropriate District Of
State Lease - 4 Cc
Fee Lease - 3 Cc

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-26492		Pool Code /72319	Pool Name WC:30N11W15H Chacra/Blanco Mesaverde
Property Code 7326	Property Name MORRIS A		Well Number 13
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 5851'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
H	15	30N	11W		1450	NORTH	1110	EAST	SAN J

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres Cha - 160 MV-E/317.66	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

15 *NOT RESURVEYED* PREPARED FROM A PLAT BY FRED B. KERR, JR. DATED JUNE 30, 1985 RECEIVED APR - 5 1999 OIL CON. DIV. DIST. 3	1450' 1110'	17 OPERATOR CERTIFICATE I hereby certify that the information contained here is true and complete to the best of my knowledge and belief. <i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 3-1-99 Date
		18 SURVEYOR CERTIFICATE 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. FEBRUARY 27, 1999 Date of Survey <i>Neale C. Edwards</i> Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 6857 PROFESSIONAL SURVEYOR Certificate Number 6857

Pertinent Data Sheet – MORRIS A #13 MV-LEWIS (CHACRA)

Location: 1450' FNL & 1110' FEL, Unit H, Section 15 T30N, R11W, San Juan County, New Mexico

Field: Blanco Mesaverde
Undesignated Chacra

Elevation: 5856' GL
11' KB

Completed: 9/10/85

Spud Date: 8/13/85

TD: 5060'

PBTD: 5051'

DP #: MV: 54300A

Lease: Fed: SF-078138

BRGWI: MV&CH: 100%

BRNRI: MV: 84.375%

CH: 85.00%

Prop#: 012648700

Initial Potential:

AOF=6334 MCF/D; Q=3532 MCF/D; SICP=1130 psi

Casing Record:

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
12-1/4"	9-5/8"	32.3# H-40	226'	130 cf.	Circ to Surface
8-3/4"	7"	20# K-55	2652'	533 cf.	700' - Survey
6-1/4"	4-1/2"	10.5# K-55	2493'-5060'	450 cf	Circ Cmt.

Tubing Record:

<u>Tbg. Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>	
2-3/8"	4.7# J-55	5036'	155 Jts
		S.N. @ 5002'	

Formation Tops:

Ojo Alamo:	910'
Kirtland Shale:	1015'
Fruitland:	2028'
Pictured Cliffs	2290'
Chacra	3091'
Mesaverde	3872'
Menefee	4096'
Point Lookout	4614'

Logging Record: Induction, Neutron Density, Temp Log.

Stimulation: Perf lower PL w/12-0.34" holes @ 4756', 72', 4800', 19', 32', 38', 53', 73', 4908', 38', 94', 5000'. Balled off & fraced w/67,000# sand in slick water.

Perfed PL w/17-0.34" holes @ 4435', 52', 59', 66', 80', 92', 4600', 20', 26', 32', 38', 43', 55', 66', 72', 92', 4717'. Balled off & fraced w/49,500# sand in slick water.

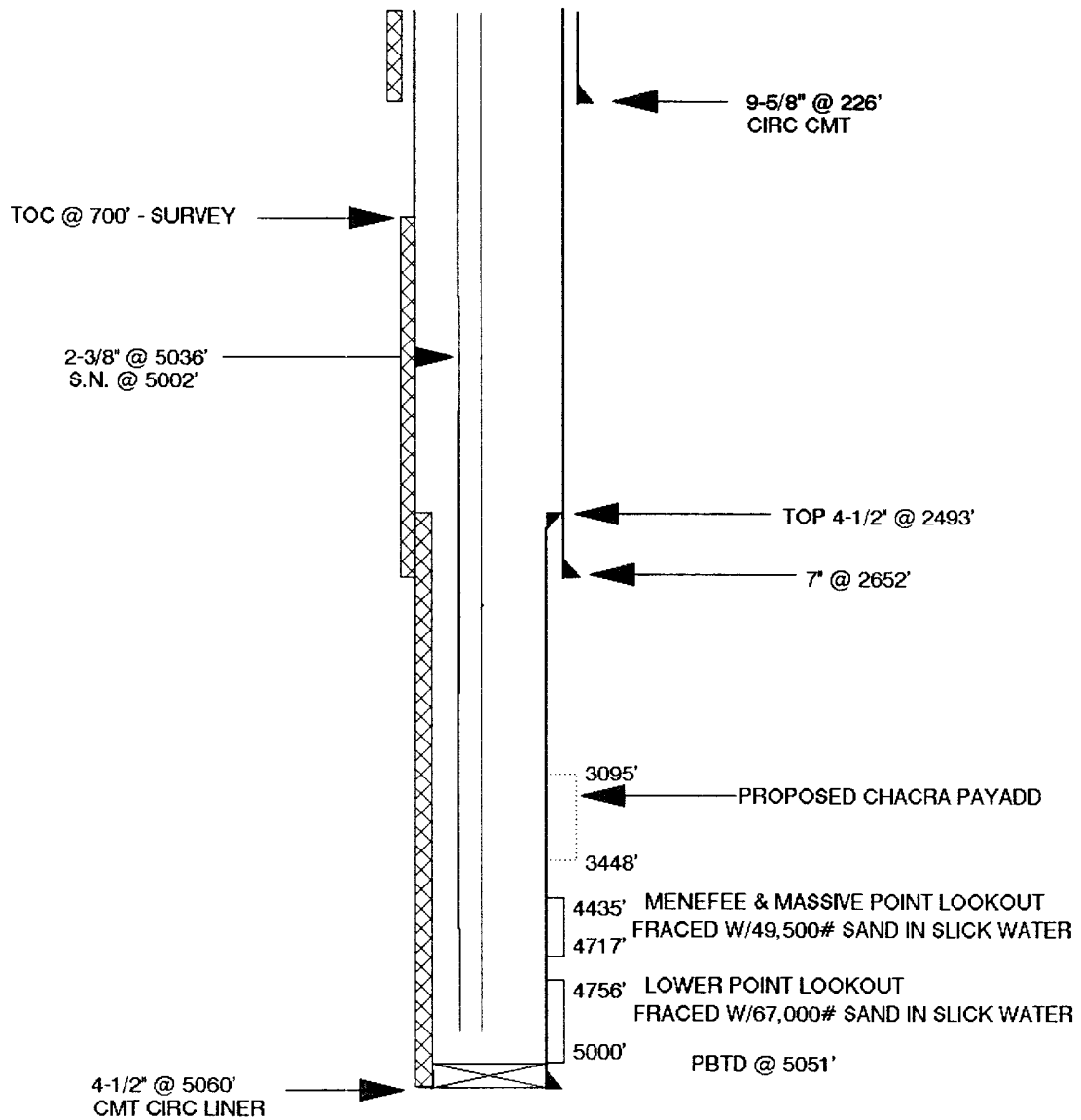
Workover History: NONE.

Production history: Well 1st delivered 1/9/86. Cumulative = 723 MMCF & 2302 BO w/current capacity of about 125 MCF/D.

Pipeline: EPNG

MORRIS A #13 MV-CH

UNIT H SECTION 15 T30N R11W
SAN JUAN COUNTY, NEW MEXICO



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

Mesaverde		Chacra	
<u>MV-Current</u>		<u>CH-Current</u>	
GAS GRAVITY	0.696	GAS GRAVITY	0.622
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.14	%N2	0.20
%CO2	0.68	%CO2	1.20
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5036	DEPTH (FT)	7063
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	125.4	BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	304	SURFACE PRESSURE (PSIA)	610
BOTTOMHOLE PRESSURE (PSIA)	344.8	BOTTOMHOLE PRESSURE (PSIA)	654.0
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.696	GAS GRAVITY	0.622
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.14	%N2	0.20
%CO2	0.68	%CO2	1.20
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	1.5
DEPTH (FT)	5036	DEPTH (FT)	7063
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	125.4	BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1130	SURFACE PRESSURE (PSIA)	2017
BOTTOMHOLE PRESSURE (PSIA)	1308.8	BOTTOMHOLE PRESSURE (PSIA)	3277.0

Page No.: 1

Print Time: Thu Feb 18 10:10:47 1999

Property ID: 10162

Property Name: MORRIS A | 13 | 54300A-1

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

--DATE--	PHA	M FWHP-	M FBHP-	M SIWHP	M SIBHP
■■■■■■■■■■	■■■	■■■Psi■■■	■■■Psi■■■	■■■Psi■■■	■■■Psi■■■

01/01/86			1130.0		
10/29/86		303.0		487.0	0.0
06/04/87		324.0		528.0	0.0
08/12/89		324.0		487.0	0.0
05/31/91		428.0		632.0	0.0
11/18/91				620.0	
09/27/93				382.0	
01/31/94		209.0		304.0	0.0

** DATA AT 14.730 PSIG UNLESS NOTED **

MOL % (AT 14.73)

HYDROGEN

MP NUMBER 95655

HELIUM

EFFECTIVE DATE 19960801

NITROGEN

0.14

OXYGEN

HYDROGEN SULFIDE

CARBON DIOXIDE

0.68

METHANE

83.97

ETHANE

8.48

PROPANE

3.56

ISO-BUTANE

0.68

N-BUTANE

0.96

ISO-PENTANE

0.37

N-PENTANE

0.28

HEXANE

HEXANE PLUS

0.88

HEPTANE PLUS

100.00

TOTALS

100.00

4.3953

-- GASOLINE CONTENT (GPM) --

26/70 GASOLINE

100% PROPANE

EXCESS BUTANES

TOTAL

----- SPECIFIC GRAVITY -----

CALCULATED

0.6960

MEASURED

SULPHUR GRAINS / 100 CU FT

03=MAIN SCREEN

24=HELP

PA1=TERMINATE

FDG055M4 3019

WELL PRODUCTION 8/8'S VOLUME

02/18/99 11:03:21

DP NO: 54300A

MORRIS A

DATE: 990101 (YYMMDD FORMAT)

13 SCROLL FORWARD BY DATE: _

S

E DATE HOURS

-OIL PROD-

-GAS PROD-

-WATER PROD-

L PRODUCED

ON

(BOPD

BOPM)

(MCFD

MCFM)

(BWPD

BWPM)

01/01/99	0.0	0.41	0.41	117	117	0.00	0.00
01/02/99	0.0	0.41	0.82	117	234	0.00	0.00
01/03/99	0.0	0.41	1.23	117	351	0.00	0.00
01/04/99	0.0	0.41	1.64	117	468	0.00	0.00
01/05/99	0.0	0.41	2.05	117	585	0.00	0.00
01/06/99	0.0	0.41	2.46	117	702	0.00	0.00
01/07/99	0.0	0.41	2.87	117	819	0.00	0.00
01/08/99	0.0	0.41	3.28	117	936	0.00	0.00
01/09/99	0.0	0.41	3.69	117	1053	0.00	0.00
01/10/99	0.0	0.41	4.10	117	1170	0.00	0.00
01/11/99	0.0	0.41	4.51	117	1287	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF6=NRI

PF10=BROWSE MENU

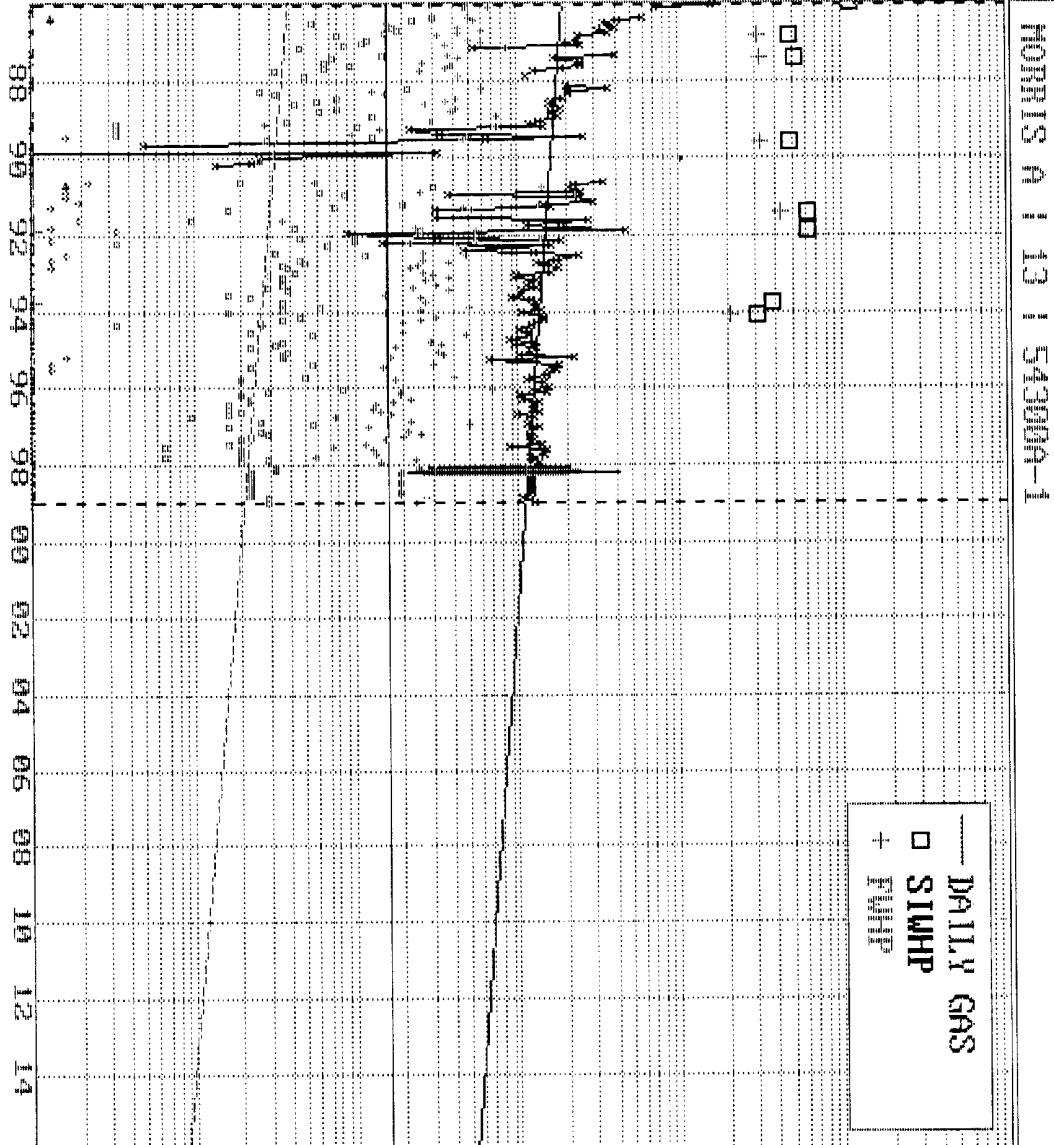
PF11=INQ/UPDATE MENU

PF12=MAIN MENU

ENTER=BACKWARDS

PF24=HELP

0.1 1 10 100 1000 10000 - WATER
 0.01 0.1 1 10 100 1000 - OIL/GAS
 0.01 0.1 1 10 100 1000 - OIL
 0.1 1 10 100 1000 10000 - GAS



Prop 10162 *

- ☒ GAS Mcf/d
- ☐ OIL Bbl/d
- ☐ OIL/GAS
- ☐ WATER Bbls/d

☒ Date/Time
☒ Semi Log

EUR 1,551,660

Cum 722,910

Rem 828,750

Rem% 53.4%

Yrs 47.5

Date 1/1/1999

Act 0

Qmo 3,421

Q 110.6

n 0

De 4.121

Qab 15

GetQual 99PDP

Major = GAS

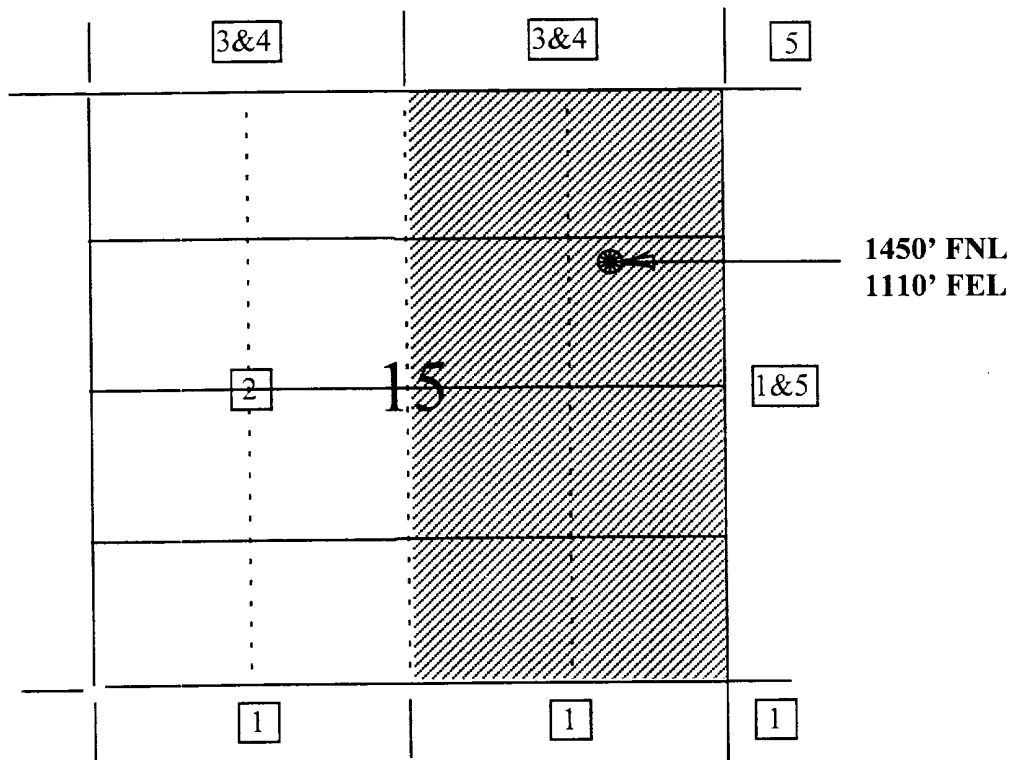
BURLINGTON RESOURCES OIL AND GAS COMPANY

Morris A #13

**OFFSET OPERATOR \ OWNER PLAT
Downhole Commingle**

Chacra / Mesaverde Formations Well

Township 30 North, Range 11 West



- 1) Burlington Resources
- 2) Conoco Inc.
Attn: Lori Thorpe
10 Desta Drive, Suite 100W
Midland, TX 79705
- 3) Energen Resources MAQ, Inc.
Attn: Rich Corcoran
2198 Bloomfield Highway
Farmington, NM 87401

- 4) Mr. Robert L. Bayless
P.O. Box 168
Farmington, NM 87499
- 5) Amoco Production Company
San Juan Operation Center
200 Amoco Court
Farmington, NM 87401

DATE: February 18,1999

NAME: MORRIS A #13A

FORM: MESAVERDE

LOCATION

UNIT: H
SEC: 15
TWN: 30N
RNG: 11W

8/82 * Fee No. 9Y 214/55 (97) 0/2	6/82 * Fee No. 9A 85/881 (97) 0/2	12/77 * Hampton No. 3A 319/803 (97) 1/1	12/56 * Hampton No. 3 79/1577 (97) 0/2	8/56 * Storey B L S No. 4 66/1560 (97) 0/4	9/79 * Storey B L S No. 1A 118/1138 (97) 0/3	INA 7/62 * Storey B L S No. 1 25/587 (92) 0/0
6/82 * Aztec No. 9 116/809 (97) 0/3	[9]	[10]				
[16]	8/82 * Brington No. 15E 96/489 (97) 0/0	1/86 * Morris A No. 13 140/676 (97) 0/2	1/86 * Morris A No. 13A 94/482 (97) 0/1		11/83 * Federal G C L No. 1E 83/192 (97) 0/0	[14]
	3/97 * Brington No. 15N 404/12 (97) 0/0					
6/86 * Fifield No. 4 204/507 (97) 0/1	[21]	3/86 * Fuller No. 3 456/523 (97) 0/1	[22]	1/88 * Morris A Com No. 18 161/769 (97) 0/2	1/88 * Hartman Com No. 5 139/521 (97) 0/2	12/87 * Hartman Com No. 6 133/569 (97) 0/2
7/97 * Fifield No. 4A 502/45 (97) 3/0						

R-11-W

T
30
N

LEGEND	
COMPLETION DATE	
WELL NAME	
MCF/D-CUM(MMF)	
BOP/D-CUM(MBO)	