

## DISTRICT I

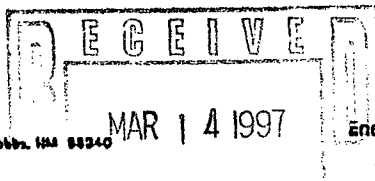
P.O. Box 1980, Hobbs, NM 88240

## DISTRICT II

811 South First St., Artesia, NM 88210

## DISTRICT III

1000 Rio Brazos Rd, Azusa, NM 87410

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 P.O. Box 51810 Midland, Texas 79710-1810  
 Jackalope '24' Federal Well No. 1 G, Sec. 24, T22S, R32E Lea  
 OGRID NO. 26485 Property Code 19964 API NO. 30-025-32878 Spacing Unit Lease Type(s) (check 1 or more)  
 Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	West Red Tank Delaware 51689		Red Tank Bone Spring 51683
2. Top and Bottom of Pay Section (Perforations)	8501'-8531'		8832'-8884'
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) See attached b. (Original)	a.  b.	a. See Attached b.
6. Oil Gravity (° API) or Gas BTU Content	42.3		40
7. Producing or Shut-In?	Well is currently being completed		
Production Marginal? (yes or no)			
* If Shut-In, give date 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: Rates: See Attached Information regarding Production	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 90 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

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 ☐ No

11. 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 ☐ No

13. 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(C) 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 Donna Williams TITLE Regulatory Compliance DATE 3/12/97

TYPE OR PRINT NAME Donna Williams TELEPHONE NO. (915) 688-6943

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
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District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 51689	<sup>3</sup> Pool Name West Red Tank Delaware
<sup>4</sup> Property Code 19964	<sup>5</sup> Property Name Jackalope '24' Federal	<sup>6</sup> Well Number
<sup>7</sup> OGRID No. 26485	<sup>8</sup> Operator Name Burlington Resources Oil & Gas Company	<sup>9</sup> Elevation


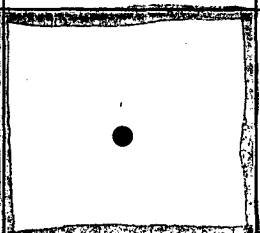
<sup>10</sup> Surface Location

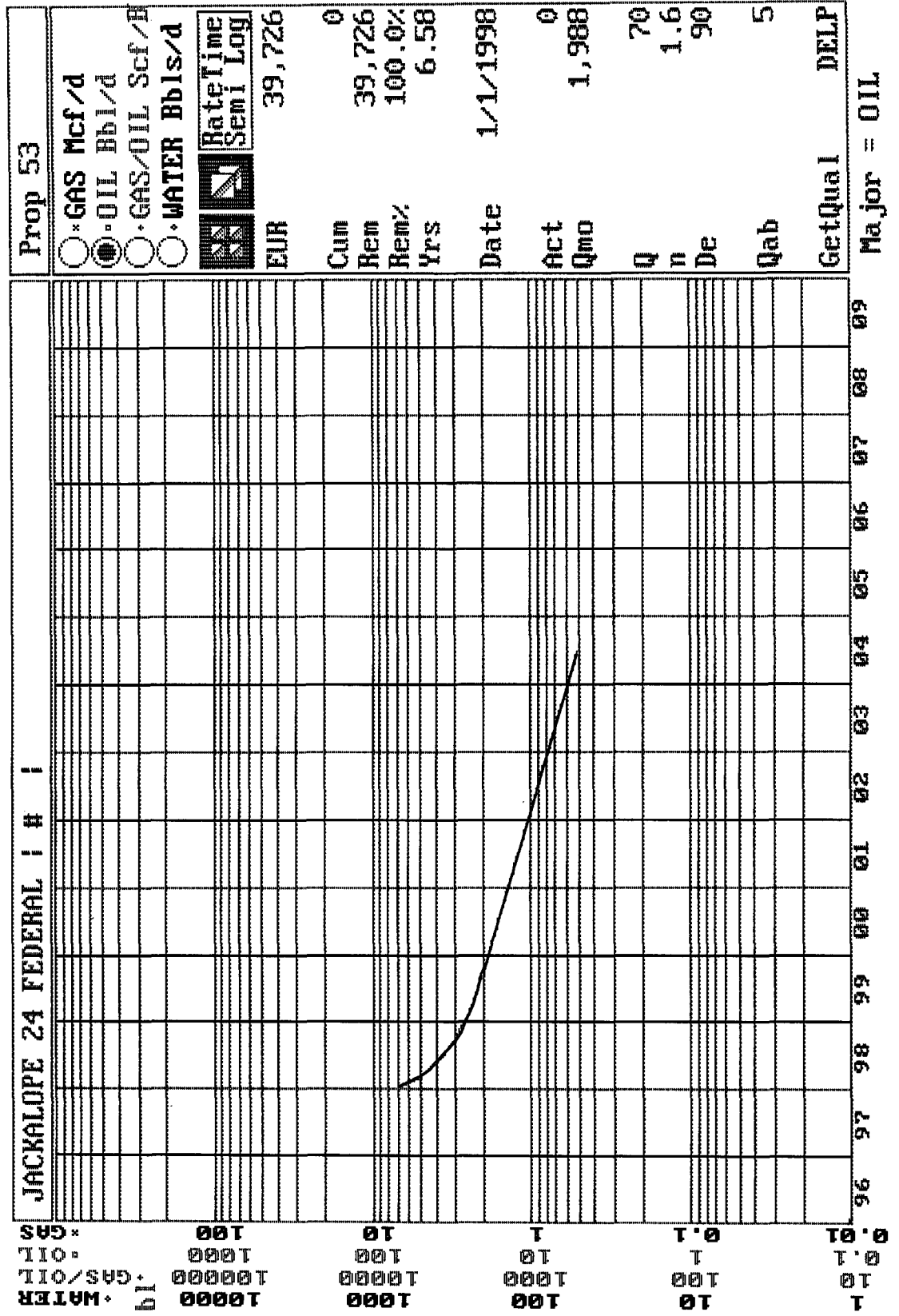
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
	24	22S	32E	G	1980'	North	1980'	East	Lea

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

				<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Donna Williams Printed Name Regulatory Compliance Title 3/12/97 Date
				<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i>  Date of Survey Signature and Seal of Professional Surveyer:  Certificate Number



BASAL BRUSHY CANYON PROD.

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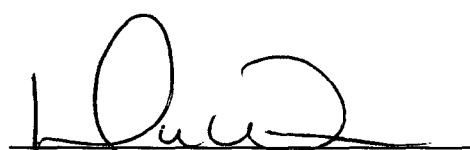
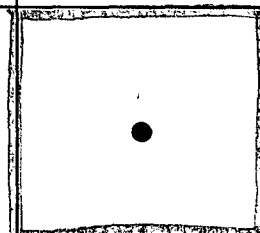
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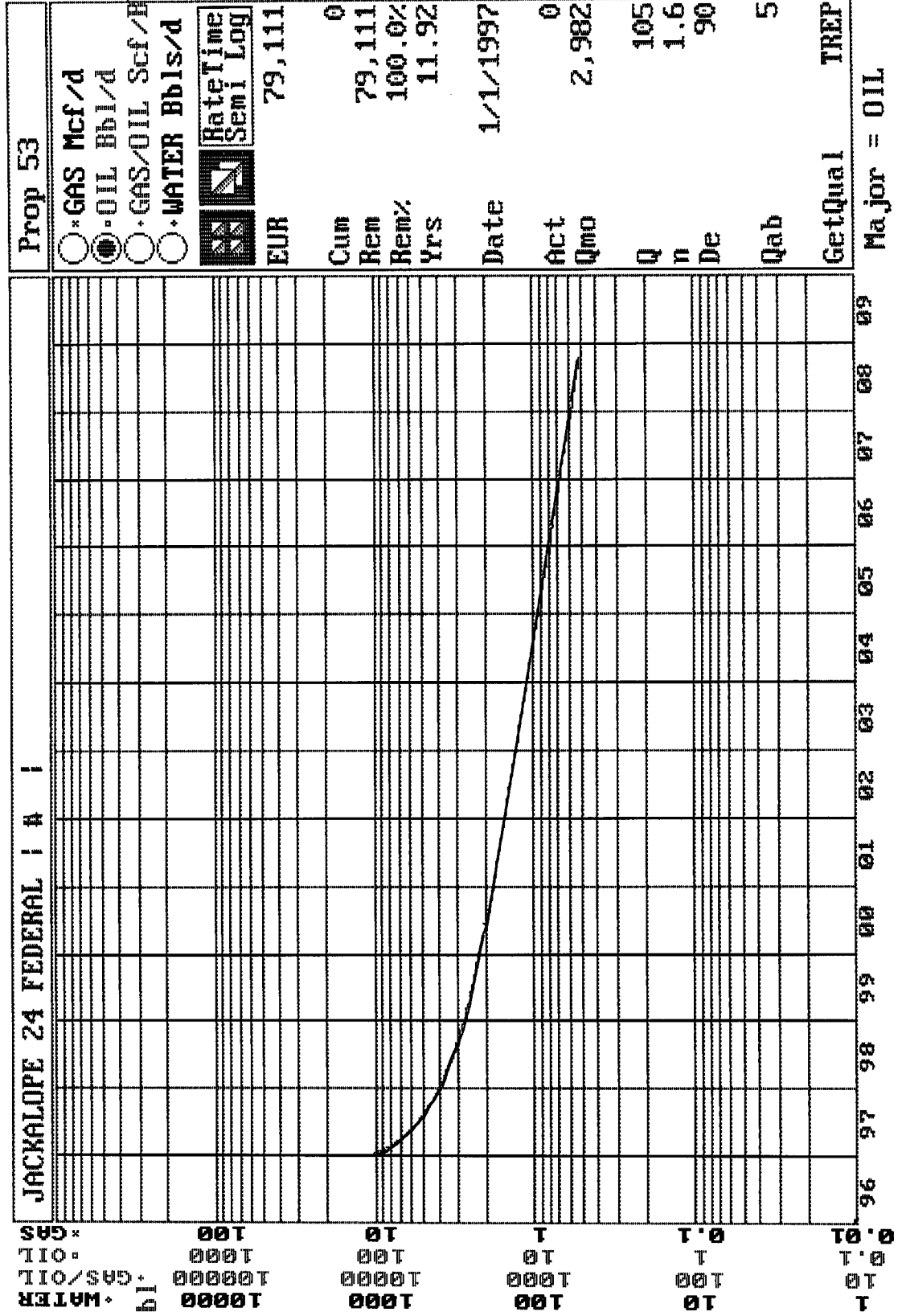
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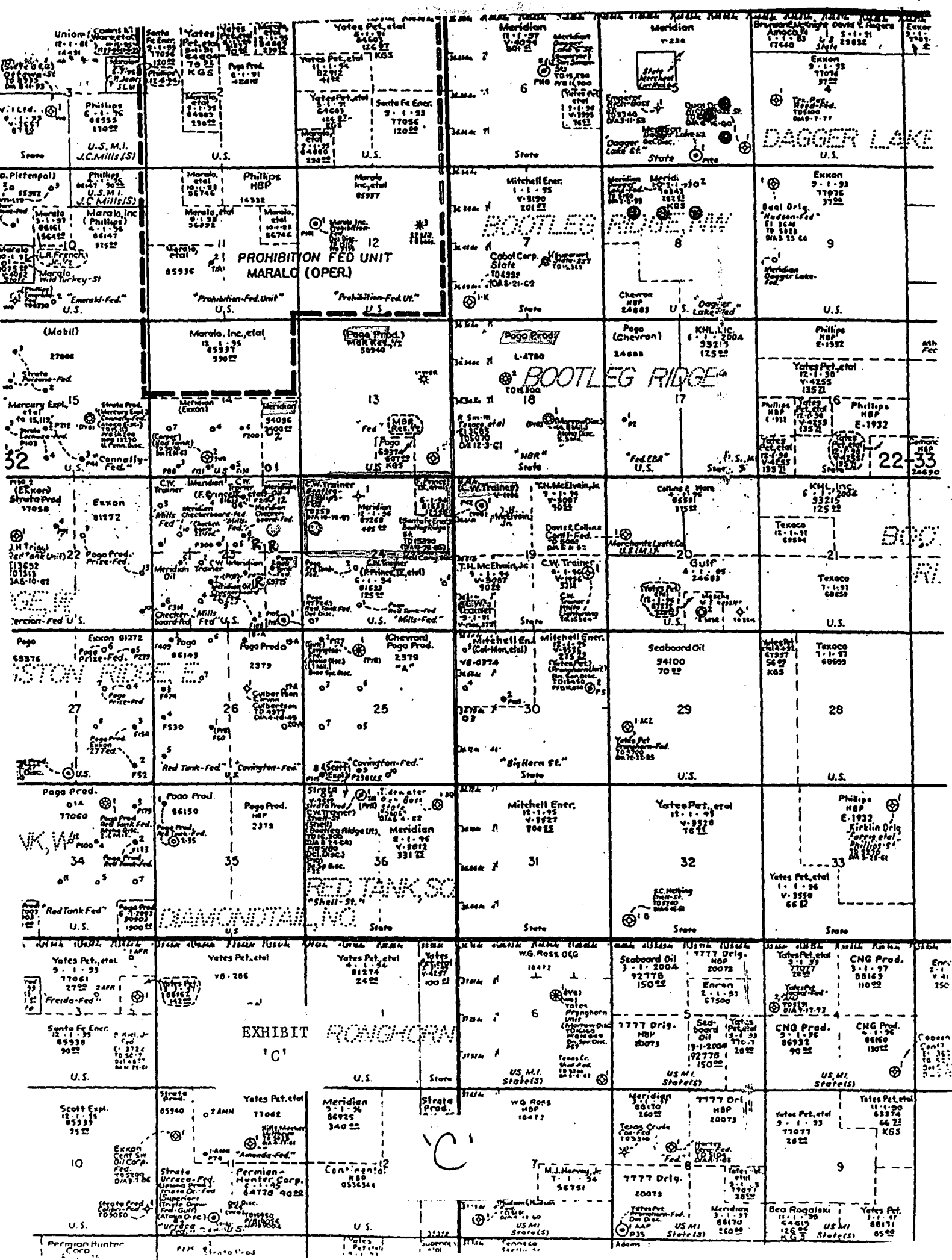
TRESOR PROD

**ADDITIONAL DATA FOR DOWNHOLE COMMINGLING**  
**JACKALOPE '24' FEDERAL WELL NO. 1**

Burlington Resources Oil & Gas Company respectfully submits the following information which is based on the Mule Deer 36 State well no. 2. This is due to 3-D and mapping which indicates a similarity in the sand structure of both the Delaware and Bone Spring.

The estimated bottomhole pressures for the perforations in the Delaware for the above referenced well are based off the actual BHP for the Mule Deer '36' State well no. 2.. As indicated on the application for the # 2, the original BHP for the oil zone in the Delaware is an estimated 2550 and then tapers off to 1270. The Bone Spring, as indicated on downhole commingles of well nos. 1 thru 5, indicate original bottomhole pressure to be 2660 estimate, and then taper to 1330. Production should come in flowing but eventually be put on artificial lift. Production estimates are based off the Mule Deer 36 State # 2, which is to the south of this wellbore. Production model utilized is as follows:  
Bone Spring: 105 BOPD, 130 MCF, 10 bbls water, with Delaware indicating 70 BOPD, 40 MCF, 150 bbls water. Allocation factors should be as follows:

<b>Delaware:</b>	<b>40% oil and 30% gas</b>
<b>Bone Spring:</b>	<b>60% oil and 70% gas</b>



**BURLINGTON RESOURCES OIL & GAS COMPANY**  
**APPLICATION FOR ADMINISTRATIVE APPROVAL**  
**DOWNHOLE COMMINGLING**  
**JACKALOPE '24' FEDERAL WELL NO. 1**  
**LEA COUNTY, NEW MEXICO**

**Penwell Energy Inc. \***  
**600 N. Marienfeld, Ste. 1100**  
**Midland, Texas 79701**

**Pogo Producing Company**  
**Box 10340**  
**Midland, Texas 79702**

**Bureau of Land Management- Mineral Interest**  
**2909 West Second Street**  
**Roswell, New Mexico 88201**

**\* - Map shows C.W. Trainer as operator of lease, however, Penwell Energy has since bought Mr. Trainer's interest.**



DHC-1559



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

3/14/97

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

GOVERNOR

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC  
DHC X  
NSL  
NSP  
SWD  
WFX  
PMX

Gentlemen:

I have examined the application for the:

Burlington Res. D & G Co Jackalope 24 Fed # 1-G-24-22s-32e  
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,  
Jerry Sexton  
Jerry Sexton  
Supervisor, District 1

/ed