



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

12/16/97

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

GOVERNOR

DHC-1782  
2/24/98

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:

<u>Pogo Operating Co</u>	<u>WBR Federal</u>	<u>#</u>	<u>2-M-13-275-32e</u>
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

None

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Yours very truly,

*Chris Williams*

Chris Williams  
Supervisor, District 1

/ed



**POGO PRODUCING COMPANY**

December 10, 1997

New Mexico Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
Attention: Mr. David R. Catanach

**CERTIFIED MAIL**

RE: Bootleg Ridge Prospect NM - 556  
Lea County, New Mexico  
Application for Administrative Approval  
for Downhole Commingling in the  
WBR Federal No. 2 Well  
located 330' FSL and 330' FWL  
Section 13, T-22-S, R-32-E  
Federal Oil and Gas Lease NMNM58940

Gentlemen:

Pogo Producing Company respectfully submits herewith its application for Administrative Approval for Downhole Commingling of the captioned well. Enclosed please find Form C-107-A with appropriate attachments.

If you have any questions, please contact the undersigned at (915) 685-8127.

Sincerely,

Elizabeth E. Moses  
Consulting Landman

Enclosure

cc: ✓ New Mexico Oil Conservation Division  
Attn: District Supervisor  
P.O. Box 1980  
Hobbs, NM 88240

Bureau of Land Management  
P.O. Box 27115  
Santa Fe, NM 87502-0115

DISTRICT I

P O Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-A.  
New 3 12-96

DISTRICT II

811 South First St. Artesia, NM 88210-2835

OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:

Administrative Hearing.

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLS: \_\_\_\_\_

YES  NO

Pogo Producing Company P.O. Box 10340 Midland, TX 79702-7340  
 Operator Address  
 WBR Federal 2 M, Sec 13, T22S, R32E Lea  
 Lease Well No Unit Ltr. - Sec - Twp - Rge County  
 OGRID NO. 017891 Property Code 9350 API NO. 30-025-32999 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	RED TANK: DELAWARE, WEST 51689		RED TANK: BONE SPRING 51683
2. Top and Bottom of Pay Section (Perforations)	7867' - 8504'		9840' - 9870'
3. Type of production (Oil or Gas)	OIL		OIL
4. Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		ARTIFICIAL LIFT
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current)  300 psi	a.	a.  2400 psi SI
	b. (Original)  2800 psi	b.	b.  3900 psi
6. Oil Gravity ( API) or Gas BTU Content	42		40
7. Producing or Shut-In?	PRODUCING		SHUT IN
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 * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	NO		NO
	Date: 11/1/97 Rates: 20BO, 150BW, 30MCF	Date: Rates:	Date: 10/1/95 Rates: 40BO, 80BW, 20MCF
	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: 33 % Gas: 60 %	Oil: % Gas: %	Oil: 67 % Gas: 40 %

- 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(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: Mark Burkett TITLE: Div. Petr. Engr. Mng. DATE: December 8, 1997  
 TYPE OR PRINT NAME: Mark Burkett TELEPHONE NO. (915) 682-6822

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-32999	Pool Code 51689	Pool Name West Red Tank Delaware
Property Code 9350	Property Name WBR	Well Number 2
OGRD No. 017891	Operator Name POGO PRODUCING CO.	Elevation 3718

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	22 S	32 E		330	SOUTH	330	WEST	LEA

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

Dedicated Acres 40	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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Barrett L. Smith</i> Signature</p> <p>Barrett L. Smith Printed Name</p> <p>Senior Operations Eng. Title</p> <p>July 29, 1996 Date</p>	
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>MARCH 30, 1995 Date Surveyed</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><i>R. J. Eidsen</i> 4-5-95</p> <p>W.O. Num: 95-11-0430</p>	
	<p>Certificate No. JOHN W. WEST 676 RONALD J. EIDSON 3239 GARY EIDSON 12541</p>	

330' SEE DETAIL

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Dep.

Form C-102  
Revised February 10, 1994  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 51683	Pool Name UNDES. RED TANK BONE SPRINGS
Property Code	Property Name WBR FEDERAL	Well Number 2
OGRD No. 17891	Operator Name POGO PRODUCING CO.	Elevation 3718

Surface Location

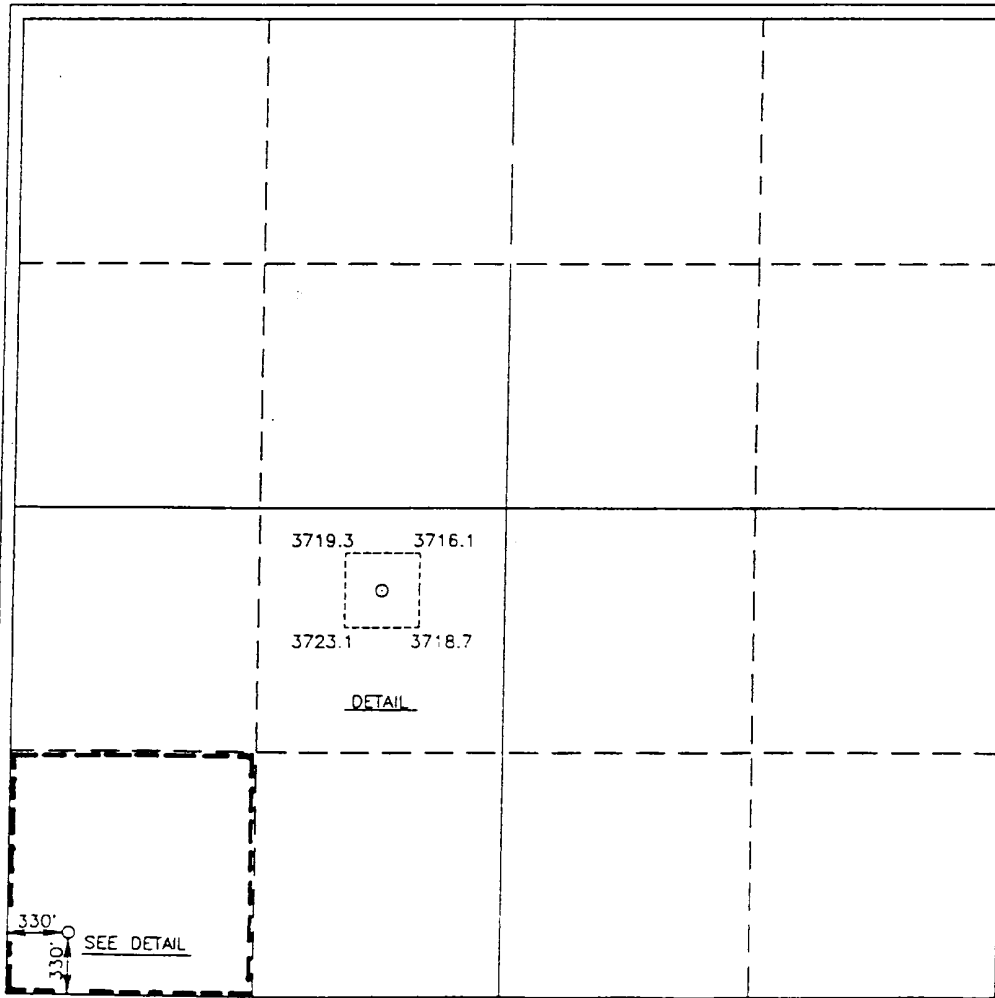
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	22 S	32 E		330	SOUTH	330	WEST	LEA

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

Dedicated Acres 40	Joint or Infill N	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSGND TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**OPERATOR CERTIFICATION**

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

*Richard L. Wright*  
Signature

Richard L. Wright  
Printed Name

Division Operations Mgr.  
Title

May 19, 1995  
Date

**SURVEYOR CERTIFICATION**

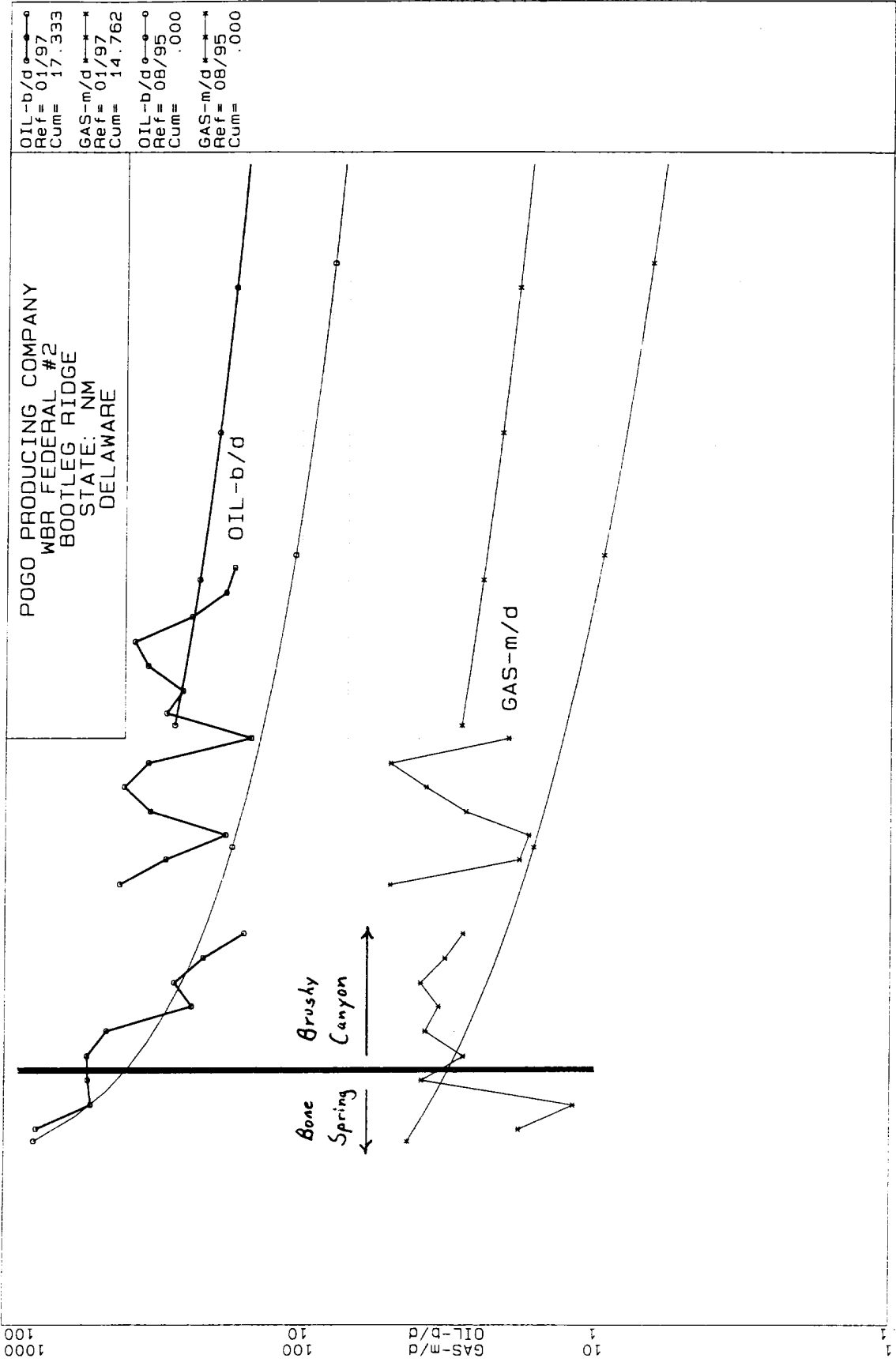
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 30, 1995  
Date Surveyed

Signature: *John W. Edson*  
Professional Surveyor

Professional Seal: JOHN W. EDSON, NEW MEXICO, No. 95-11-8430

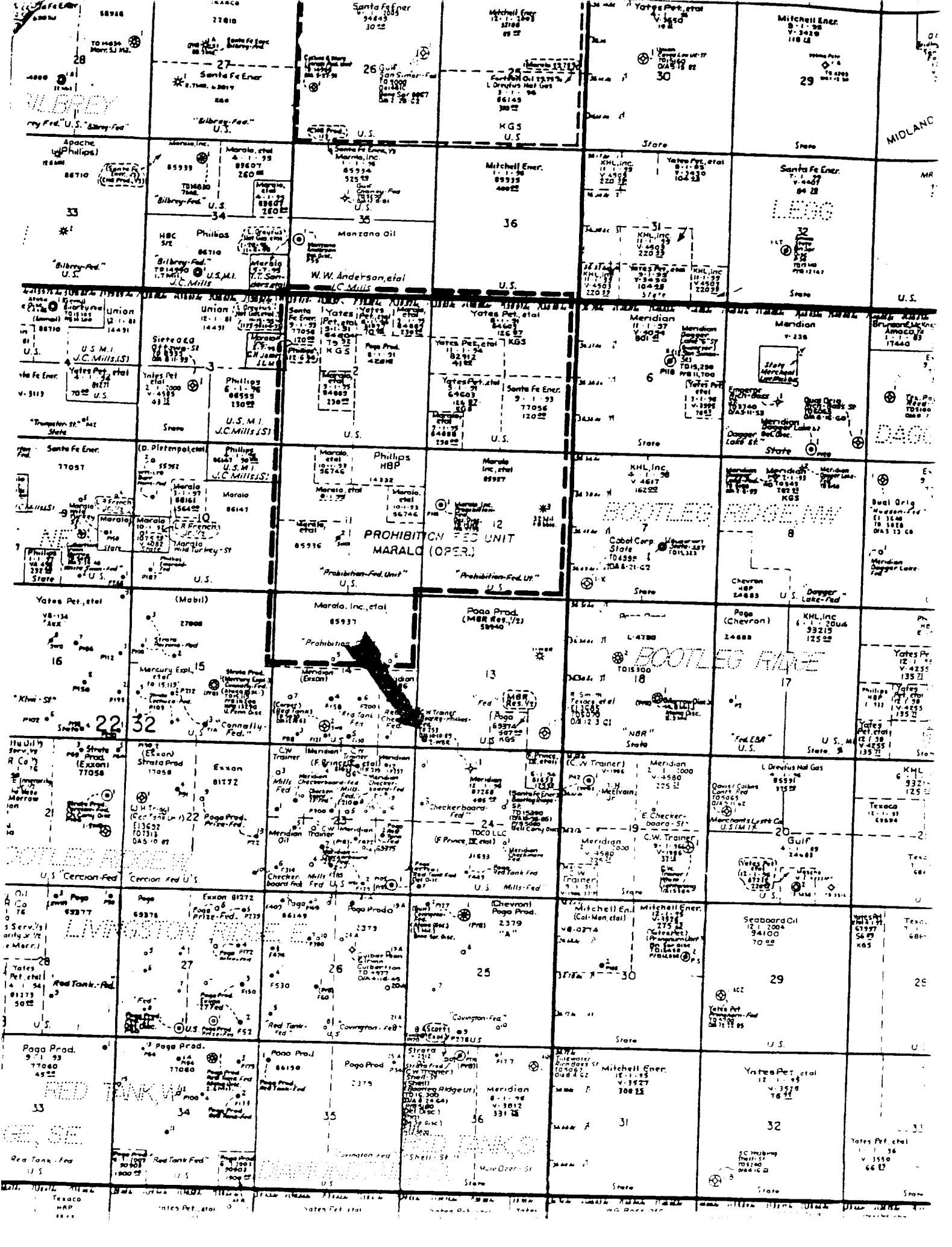
Certificate No. JOHN W. EDSON 676  
RONALD N. EDSON 3239  
SARA EDSON 12641



Pogo Producing Company, OGRID No. 017891  
Application for Administrative Approval for Downhole Commingling in the  
**WBR Federal #2 Well (Property Code 9350)**  
330' FSL and 330' FWL, Section 13, T-22-S, R-32-E  
Lea County, New Mexico

Offset Operator Notification:

Burlington Resources Oil & Gas Company  
P.O. Box 51810  
Midland, TX 79710-1810



BIBREY

PROHIBITION FED UNIT  
MARALO (OPER.)

BOOTLEG FINE

RED TANK

RED TANK



MIDLAND

MR

U.S.

U.S.

U.S.

U.S.

U.S.

U.S.

U.S.