

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

611 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Grande Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-8429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☐ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Meridian Oil Inc. Address P.O. Box 51810 Midland, Texas 79710-1810
Mule Deer '36' State # 3 J, Sec. 36, T22S, R32E Lea
OGRID NO. 26485 Property Code 16462 API NO. 30-025-33093 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)	8538'-8552' (Pro)		8889'-8901'
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or 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) 1270 (est.) b. (Original) 2550 (est.)	a. b.	a. 1335 b. 2675
6. Oil Gravity (°API) or Gas BTU Content	42 (est.)		42.138
7. Producing or Shut-In?			Producing
Production Marginal? (yes or no)			Yes
* 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)	Date: Rates:	Date: Rates:	Date: Rates:
	Date: Rates:	Date: Rates:	Date: 7/3/96 Rates: 37 oil, 132 mcf, 0 water
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 60 % Gas: 25 %	Oil: % Gas: %	Oil: 40 % Gas: 75 %

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 DATE 7/15/96TYPE OR PRINT NAME Donna Williams TELEPHONE NO. (915) 688-6943

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-028-33093	² Pool Code 51689	³ Pool Name West Red Tank Delaware
⁴ Property Code 16462	⁵ Property Name Mule Deer '36' State	⁶ Well Number # 3
⁷ OGRID No. 26485	⁸ Operator Name Meridian Oil Inc.	⁹ Elevation 3789'

¹⁰ Surface Location

UL or lot no.	Section 36	Township 22S	Range 32E	Lot. Idn	Feet from the 1980'	North/South Line South	Feet from the 1980'	East/West line East	County Lea
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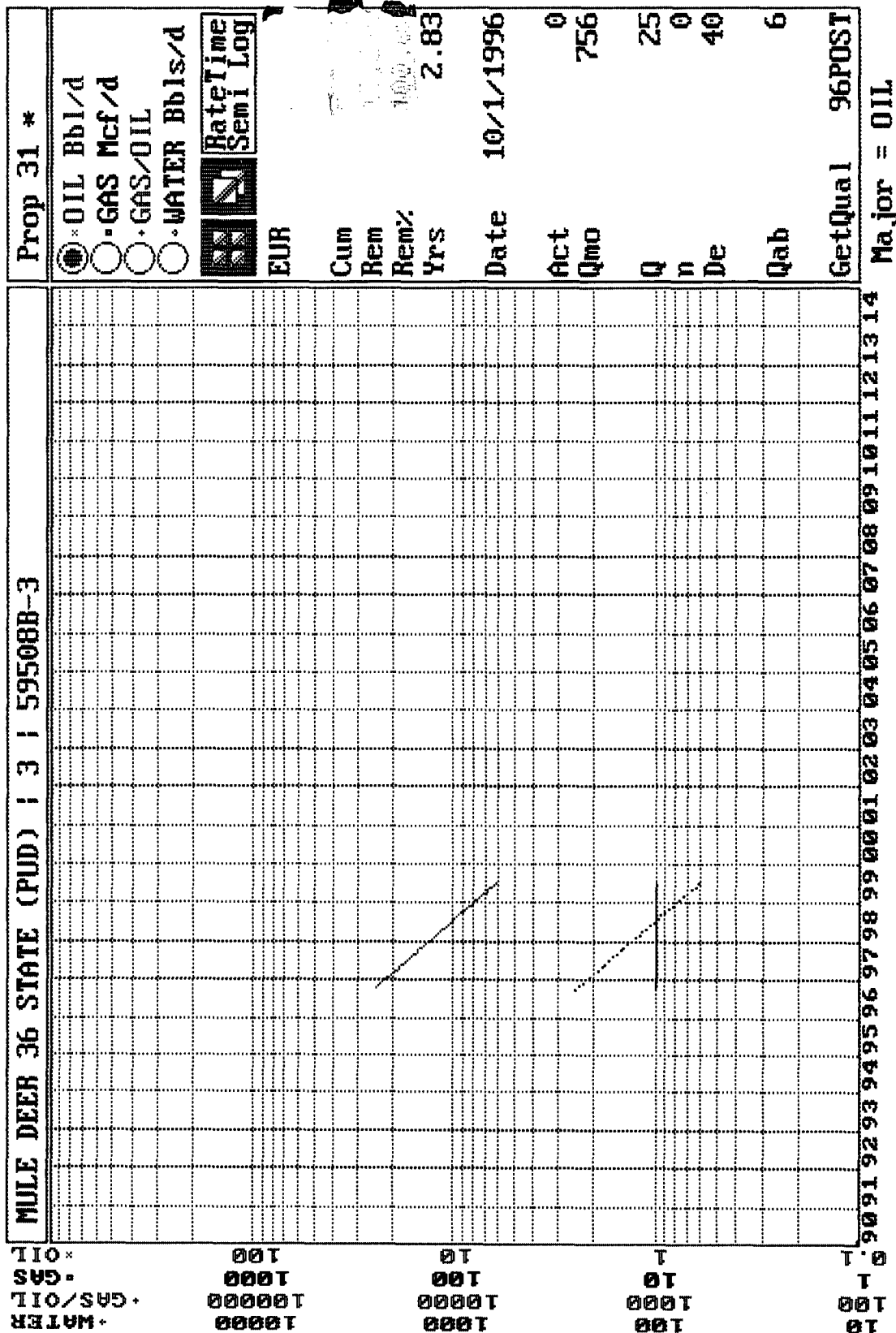
¹¹ Bottom Hole Location If Different From Surface

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 40	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**

				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Donna Williams Printed Name Regulatory Assistant Title 7/12/96 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. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

Delaware - Upper Zone



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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 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

¹ API Number 30-028-33093	² Pool Code 51683	³ Pool Name Red Tank Bone Spring
⁴ Property Code 16462	⁵ Property Name Mule Deer '36' State	⁶ Well Number # 3
⁷ OGRID No. 26485	⁸ Operator Name Meridian Oil Inc.	⁹ Elevation 3789'

¹⁰ Surface Location

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	36	22S	32E		1980'	South	1980'	East	Lea

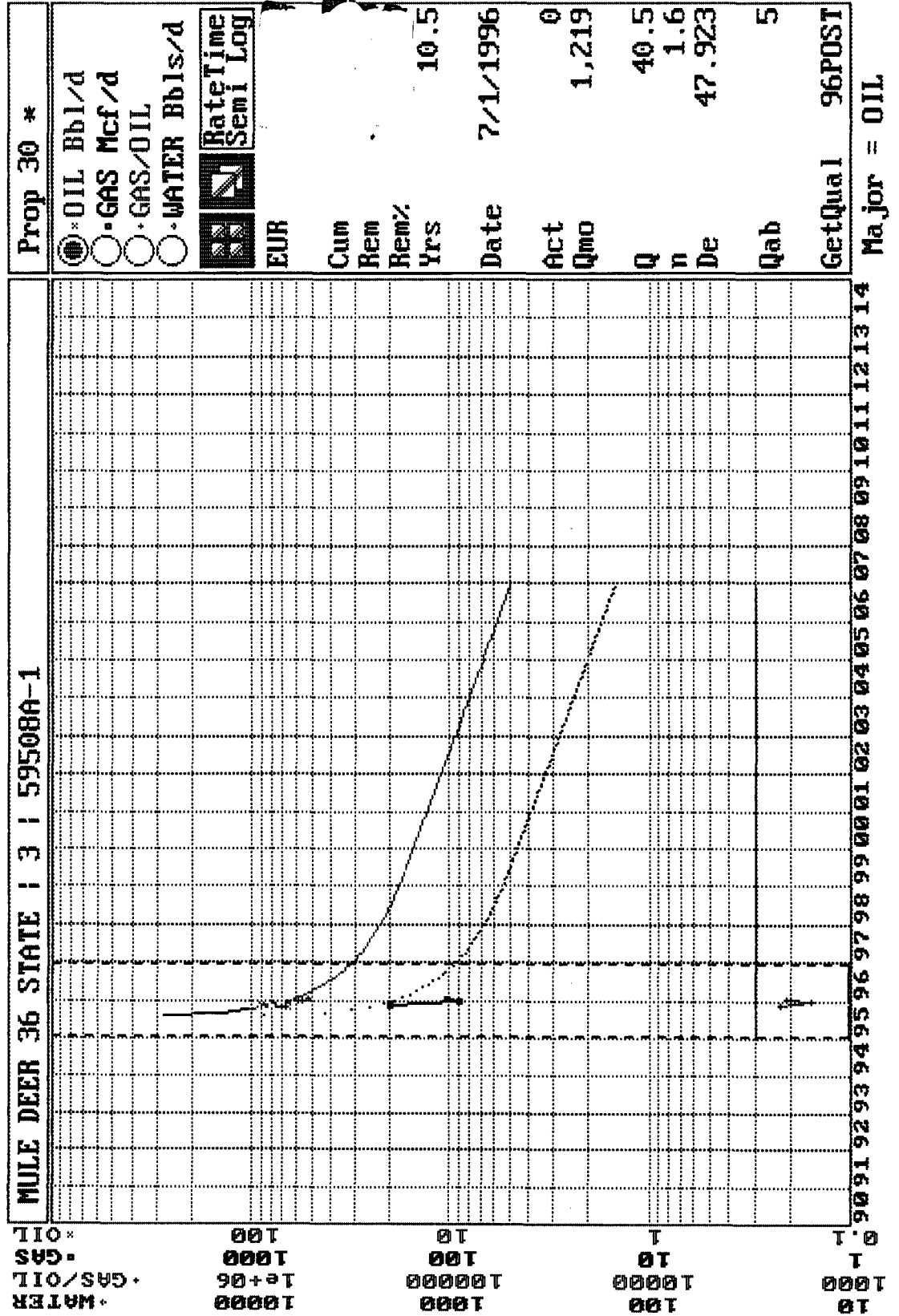
¹¹ Bottom Hole Location If Different From Surface

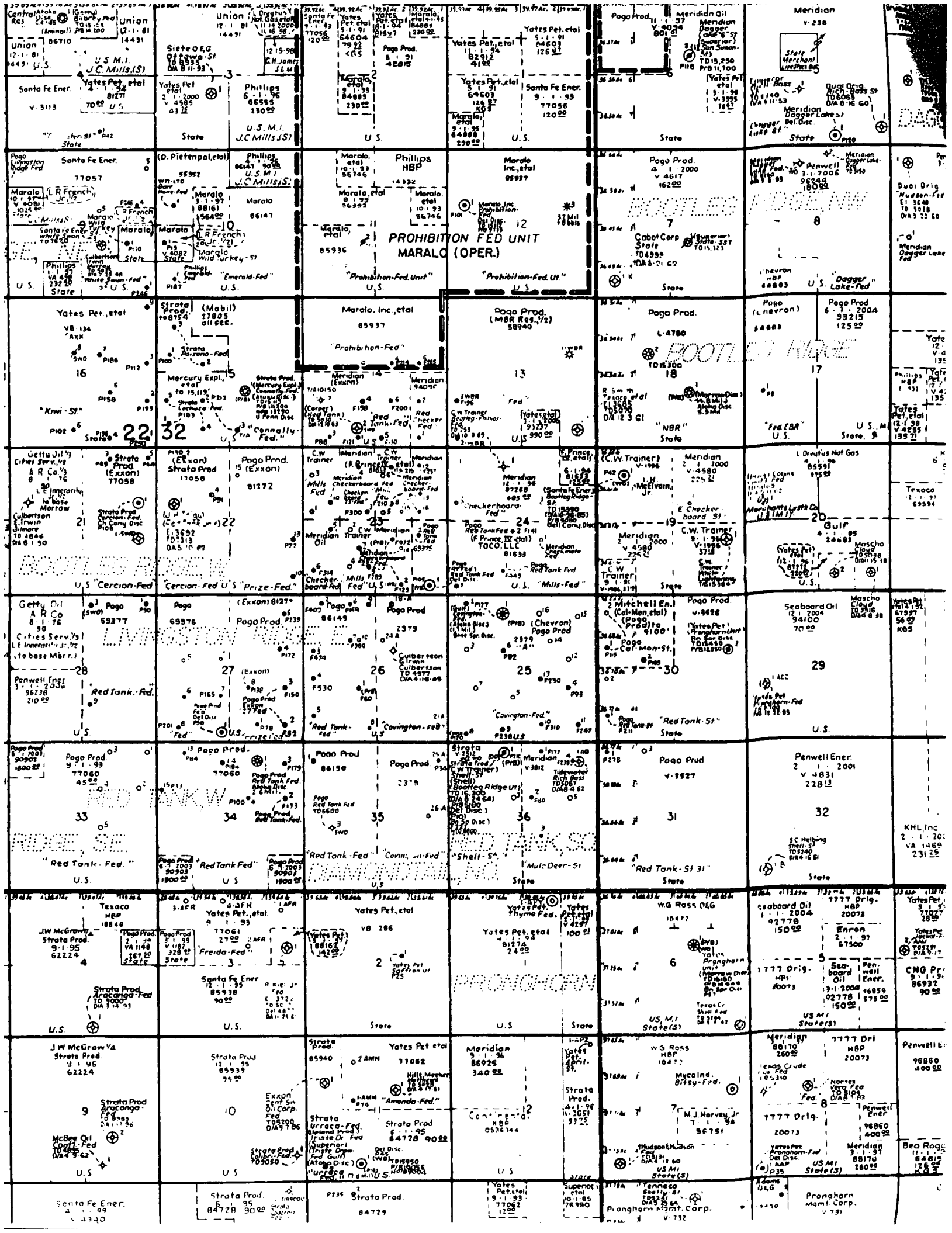
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Bone Spring - Lower Zone





MERIDIAN OIL INC.
APPLICATION FOR ADMINISTRATIVE APPROVAL
DOWNHOLE COMMINGLING
MULE DEER '36' STATE WELL NO. 3
LEA COUNTY, NEW MEXICO

Chevron USA
Box 1150
Midland, Texas 79702

Pogo Producing Company
Box 10340
Midland, Texas 79702

Yates Petroleum Corporation
105 S. 4th
Artesia, New Mexico 88210

Strata Petroleum Company
110 N. Marienfeld, Ste. 370
Midland, Texas 79701-4412

SECTION 6:

Unleased: Bureau of Land Management - Mineral Interest
P.O. Box 1778
Carlsbad, New Mexico 88210

New Mexico State Land Office - Surface Interest
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

ADDITIONAL DATA FOR DOWNHOLE COMMINGLING
MULE DEER '36' STATE WELL NOS. 1, 3, 4 & 5

Meridian Oil Inc. respectfully submits the following:

The estimated bottomhole pressures for the perforations in the Delaware for the above referenced wells are calculated off the actual BHP for the Mule Deer '36' State well no. 2.. As indicated on the application for the # 2, the actual BHP for the oil zone in the Delaware is an average of 1270 at present. We anticipate the well to come in flowing but eventually will have to be put on artificial lift. The estimated gravity for the Delaware zone is +/- 42. Based off figures from the Delaware production in the # 2, we anticipate the Delaware perms in the #1, 3, 4 & 5 to be approximately 60 bls oil, 75 mcf, and 150 water. This would make the allocation factors for the downhole commingling of the Mule Deer well(s) to be as follows:

# 1:	Delaware:	50% oil and 30% gas
	Bone Spring:	50% oil and 70% gas
# 3	Delaware:	60% oil and 25% gas
	Bone Spring:	40% oil and 75% gas
# 4	Delaware:	60% oil and 10% gas
	Bone Spring:	40% oil and 90% gas
# 5	Delaware:	50% oil and 25% gas
	Bone Spring:	50% oil and 75% gas

We submit the production graph information for the Mule Deer '36' State well no. 2 to be considered for the proposed downhole commingling of the Mule Deer '36' State well no(2) 1, 3, 4, & 5.

Delaware - Upper Zone

