

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

2040 S. Pacheco  
Santa Fe, New Mexico 87505-8429

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

APPROVAL PROCESS:

Administrative  Hearing

EXISTING WELLBORE

YES  NO

**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

**APPLICATION FOR DOWNHOLE COMMINGLING**

Meridian Oil Inc.

P.o. Box 51810 Midland, Texas 79710-1810

Operator

Address

Checkerboard '23' Federal

# 13

Sec. 23, T22S, R32E

Lea

Well No. \_\_\_\_\_ Unit No. \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Range \_\_\_\_\_  
 OGRID NO. 26485 Property Code 013136 API NO. 30-025-32864 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	Mest Red Tank Delaware 51689		Red Tank Bone Springs 51683
2. Top and Bottom of Pay Section (Perforations)	8506'-8524'		9830'-9880'
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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 1275	a.	a. 1475
	b. (Original) 2560	b.	b. 2960
6. Oil Gravity (° API) or Gas BTU Content	41.6		40
7. Producing or Shut-In?	Producing		CIBP@ 9750'
Production Marginal? (yes or no)	Yes		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 90 days)	Date: Rates:	Date: Rates:	Date: 4/23/95 Rates: 6 oil, 62 mcf, 2 water
	Date: 5/18/96 Rates: 36 oil, 73 mcf, 11 water	Date: Rates:	Date: Rates:
B. Fixed Percentage Allocation Formula - % for each zone	Oil: 75% Gas: 50%	Oil: % Gas: %	Oil: 25% Gas: 50%

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 7/11/96

TYPE 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**

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 <b>30-025-32864</b>		<sup>2</sup> Pool Code <b>51689</b>		<sup>3</sup> Pool Name <b>West Red Tank Delaware</b>	
<sup>4</sup> Property Code <b>13136</b>		<sup>5</sup> Property Name <b>Checkerboard '23' Federal</b>			<sup>6</sup> Well Number <b>No. 13</b>
<sup>7</sup> OGRID No. <b>26485</b>		<sup>8</sup> Operator Name <b>Meridian Oil Inc.</b>			<sup>9</sup> Elevation <b>3753'</b>

<sup>10</sup> Surface Location

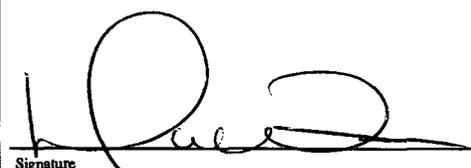
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
	<b>23</b>	<b>22S</b>	<b>32E</b>		<b>1650'</b>	<b>North</b>	<b>990'</b>	<b>East</b>	<b>Lea</b>

<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 <b>40</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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><sup>17</sup> OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p>  <p>Signature <b>Donna Williams</b></p> <p>Printed Name <b>Regulatory Compliance</b></p> <p>Title <b>7/10/96</b></p> <p>Date</p>
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p><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></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>
	<p>Certificate Number</p>
	

Delaware - Upper Zone

CHECKERBOARD 23 FEDERAL 1 13 57847A-1

Prop 6

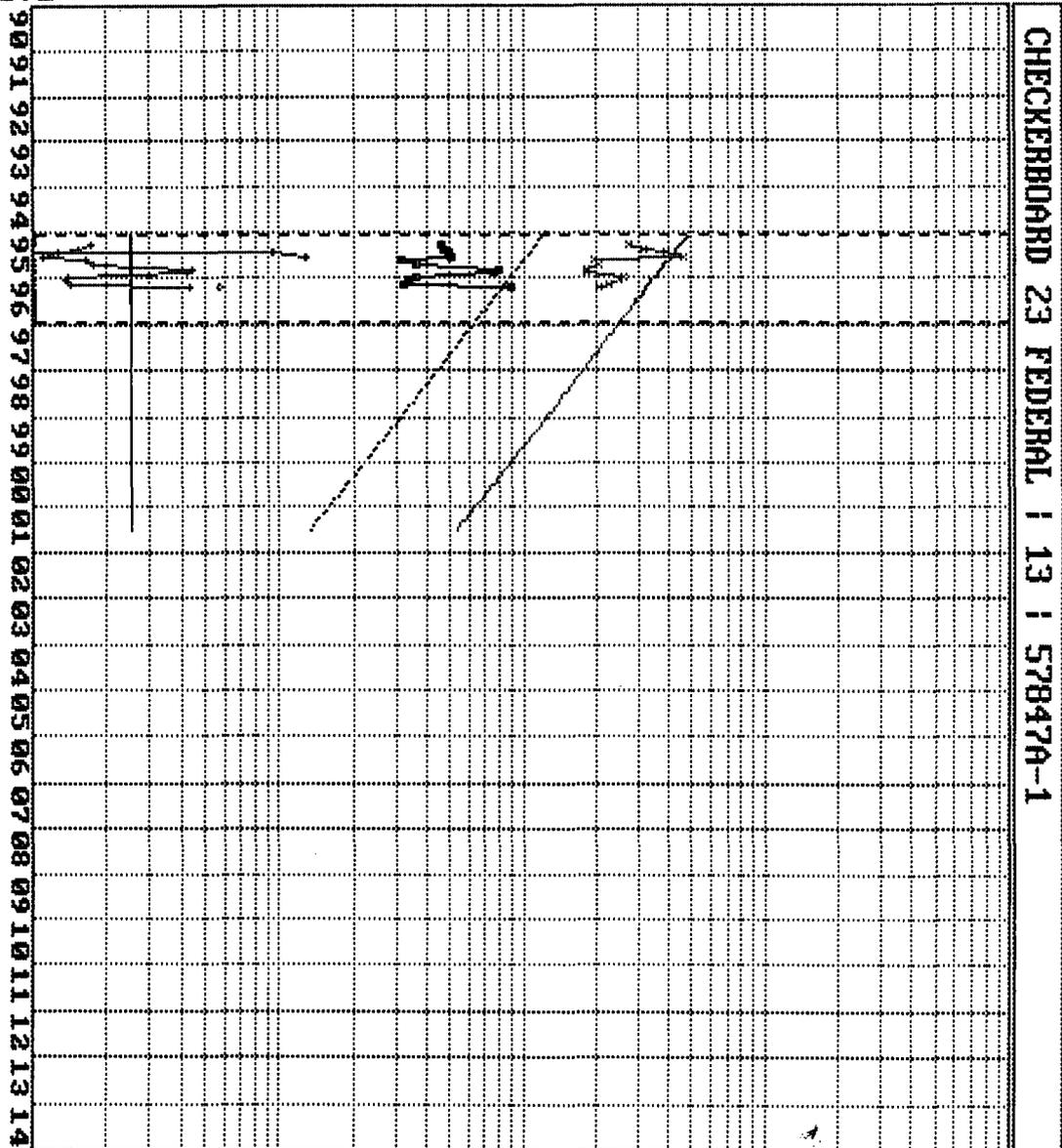
• WATER  
• GAS/OIL  
• GAS  
• OIL

10000  
1e+06  
1000  
100

1000  
100000  
100  
10

100  
10000  
10  
1

10  
1000  
1  
0.1



- OIL Bbl/d
  - GAS Mcf/d
  - GAS/OIL
  - WATER Bbls/d
- EUR  RateTime  
 Semi Log

Cum Rem Yrs 5.08

Date 7/1/1996

Act Qmo 901

Q n 29.6

De 29

Qab 5

GetQual WKJ

Major = OIL

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AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-025-32864</b>		<sup>2</sup> Pool Code <b>51683</b>		<sup>3</sup> Pool Name <b>Red Tank Bone Spring</b>	
<sup>4</sup> Property Code <b>13136</b>		<sup>5</sup> Property Name <b>Checkerboard '23' Federal</b>			<sup>6</sup> Well Number <b>No. 13</b>
<sup>7</sup> OGRID No. <b>26485</b>		<sup>8</sup> Operator Name <b>Meridian Oil Inc.</b>			<sup>9</sup> Elevation <b>3753'</b>

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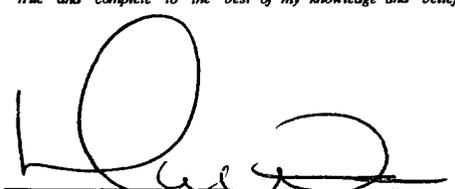
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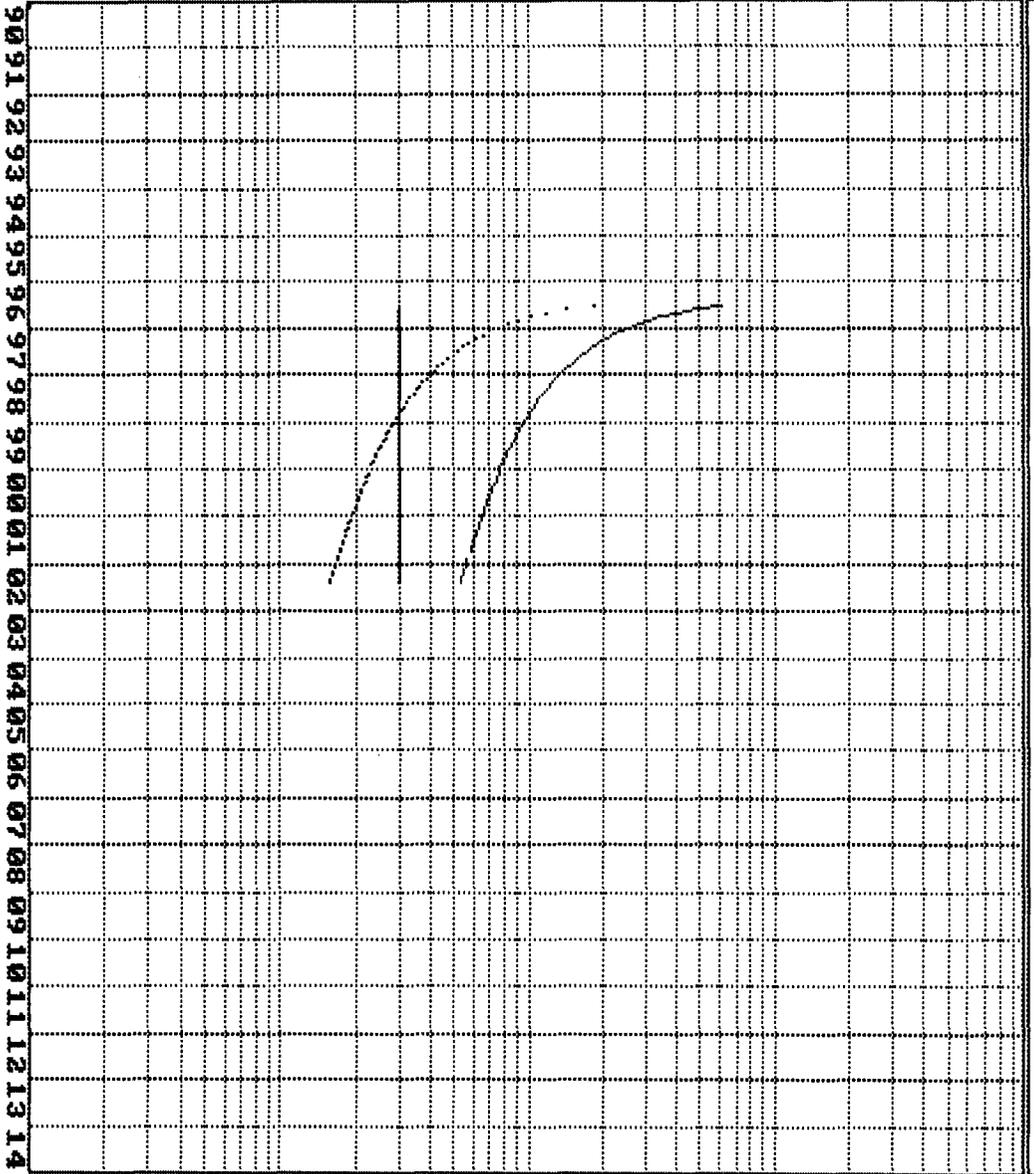
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				<p><sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p>  <p>Signature <b>Donna Williams</b> Printed Name <b>Regulatory Compliance</b> Title <b>7/10/96</b> Date</p>

Bone Spring - Lower Zone

CHECKERBOARD 23 FEDERAL (PDNP) | 13 | 57847B-2

10                    100                    1000                    10000                    WATER  
 100                    1000                    10000                    100000                    GAS/OIL  
 1                    10                    100                    1000                    GAS  
 0.1                    1                    10                    100                    OIL



Prop 1

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

RateTime  
Semi Log

EUR

Cum Rem  
 Rem%  
 Yrs  
 6

Date 7/1/1996

Act Qmo  
 0  
 1,685

Q n  
 62.2  
 1.4  
 De 97.241

Qab 5

GetQual 96PDNP

Major = OIL

<p>Sanita Pet. et al 10-1-94 V-3113 8622</p> <p>State</p>	<p>J.C. Barrow, et al 8-1-93 8127 8128</p> <p>State</p>	<p>U.S. M.I. 6-1-94 8898 1902</p> <p>U.S. M.I. J.C. Mills (S)</p>	<p>U.S.</p>	<p>U.S.</p>	<p>U.S.</p>	<p>State</p>
<p>Sanita Pet. et al 9-1-93 77057 5322</p> <p>State</p>	<p>Pacific Ent 7-1-93 85932</p> <p>U.S.</p>	<p>Phillips 6-1-94 8887 9022 U.S. M.I. J.C. Mills (S)</p>	<p>Marato, et al 8-1-93 8746</p> <p>Rogo Prod. 8-1-93 8692</p>	<p>Phillips 4-1-94 8817 8817</p> <p>U.S.</p>	<p>Marato, inc. 85937</p> <p>Marato, et al 10-1-93 86706</p>	<p>Mitchell Ener. 1-1-95 V-9190 20122</p> <p>State</p>
<p>Yates Pet. et al 8-1-92 V8-124 8222 "ANK"</p> <p>16</p> <p>State</p>	<p>(Mobil) 87008</p> <p>Mercury Est. 8-1-93 to 15,119'</p> <p>State</p>	<p>Marato, Inc. 11-1-93 85937 59022</p> <p>U.S.</p>	<p>(Rogo Prod.) MBR Res. V2 59040</p> <p>23442-74 J/O</p> <p>13</p> <p>Meridian</p>	<p>Pogo Prod. L-4788</p> <p>201800</p> <p>18</p>	<p>Pogo (Chevron) 24888</p> <p>21950 70522 28222 KGS</p> <p>17</p>	<p>Cabot Corp. State 70489</p> <p>State</p>
<p>Getts Oil Cilia's Serv. by A R Co's 8-1-94 77058</p> <p>21</p> <p>U.S.</p>	<p>Exxon 9-1-93 77058 4522</p> <p>Exxon 5-1-94 81272 5122</p> <p>22</p> <p>U.S.</p>	<p>Prince, et al 6-1-94 81633 12522</p> <p>NM-35793</p> <p>23</p> <p>U.S.</p>	<p>(C.W. Trainer) T.H. McEwen, Jr. V-1006 V-8007 9022</p> <p>Meridian 8-1-93 87888 48922</p> <p>NM-35793</p> <p>24</p> <p>U.S.</p>	<p>Calum &amp; Ware 8-1-94 86597 51522</p> <p>20</p> <p>U.S.</p>		
<p>Getty Oil A R Co 8-1-94 77058</p> <p>25</p> <p>U.S.</p>	<p>CNG Prod. 62877 72622 KGS</p> <p>CNG Prod. 62876 12622 KGS</p> <p>27</p> <p>U.S.</p>	<p>Pogo 4-1-94 86149 50022</p> <p>Pogo Prod. HBP 2379</p> <p>26</p> <p>U.S.</p>	<p>(Gulf) 8-1-94 81272 2379</p> <p>(Pogo Prod.) 2379</p> <p>21124-CR-1/18</p> <p>28</p> <p>U.S.</p>	<p>Cal-Mon 2-1-95 V8-0874 10122</p> <p>30</p> <p>State</p>	<p>Yates Pet. et al 4-1-94 81272 5022</p> <p>29</p> <p>U.S.</p>	
<p>Exxon 9-1-93 77080 4822</p> <p>33</p> <p>U.S.</p>	<p>Exxon 9-1-93 77080 4822</p> <p>34</p> <p>U.S.</p>	<p>Pogo Prod. 4-1-94 86150 48022</p> <p>Pogo Prod. HBP 2379</p> <p>35</p> <p>U.S.</p>	<p>C.W. Trainer Shutty, et al (Snoil) (Gardner-Rose, et al) 10-1-94 86150 86150</p> <p>C.W. Trainer 1-1-90 V-5512 23622</p> <p>36</p> <p>U.S.</p>	<p>Mitchell Ener. 12-1-95 V-8827 70022</p> <p>31</p> <p>State</p>	<p>Yates Pet. et al 11-1-95 V-8978 7622</p> <p>32</p> <p>U.S.</p>	

BOOTLEG RIDGE NW. NM-35801

PROHIBITION UNIT  
MARALO (OPER.)

BOOTLEG RIDGE

BOOTLEG RIDGE W.



C.W. Trainer  
NM-35793

"Livingston-Feo"  
U.S.



**MERIDIAN OIL INC.**  
**APPLICATION FOR ADMINISTRATIVE APPROVAL**  
**DOWNHOLE COMMINGLING**  
**CHECKERBOARD '23' FEDERAL WELL NO. 13**  
**LEA COUNTY, NEW MEXICO**

**Mobil Exploration & Production**  
**Box 633**  
**Midland, Texas 79702**

**Exxon Company, U.S. A.**  
**Box 1600**  
**Midland, Texas 79702**

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

**C.W. Trainer**  
**2972 Valley View Lane**  
**Farmers Branch, Texas 75234**