

Case 11207

**KELLAHIN AND KELLAHIN**

ATTORNEYS AT LAW

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W. THOMAS KELLAHIN\*

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION  
RECOGNIZED SPECIALIST IN THE AREA OF  
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

February 20, 1995

**VIA FACSIMILE**

(505) 627-0276

Bureau of Land Management  
Roswell District Office  
1717 West Second Street  
Roswell, New Mexico 88202  
Attn: Alexis Swoboda  
Unitization Section

**COPY  
RECEIVED**

FEB 20 1995

Oil Conservation Division

Re: **FIRST REVISED APPLICATION**  
*Meridian Oil Inc. application for  
Preliminary Approval of its  
East Corbin (Delaware) Unit as a  
Secondary Recovery Unit composed of state  
and federal lands in Lea County, New Mexico*

Dear Ms. Swoboda:

In accordance with our telephone conversation on February 15, 1995 and on behalf of Meridian Oil Inc., we wish to revise our application dated January 30, 1995 to conform to the changes recommended by the Bureau of Land Management at the review meeting held in Roswell, New Mexico on February 6, 1995 and attended by Mr. Chet Babin and Mr. Adam Szantay of Meridian Oil Inc. (Midland) as follows:

(1) Change in Unit Boundary:

The unit boundary has been contracted to delete the following three 40-acre tracts:

- Section 16: NW/4SE/4
- Section 21: SW/4NW/4
- Section 22: SE/4NW/4

The purpose for the deletions is so that the unit will include only 40-acre tracts which have all or some portion of the reservoir pore volume. Revised Exhibit "A" is a plat reflecting the changes in boundary and Revised Exhibit "A-1" is the written geologic description justifying the changes.

(2) Change in Tract Listing:

At your request, we have listed the federal tracts first and in chronological order. See Revised Exhibit "B" attached.

(3) Correction of Clerical Error in Formula:

We have corrected the clerical error in the participation formula and also have corrected the tract numbers so that Revised Exhibit "C" attached, is consistent with Revised Exhibit "B".

(4) Corrections to Tabulation of tract Allocation

We have corrected the clerical errors in the Tract Allocation so that Revised Exhibit "D" is consistent with Revised Exhibits "B" and "C".

I believe that the foregoing addresses all of the items of concern to you and that this corrected application is now before you and ready for issuance of a BLM preliminary letter of approval.

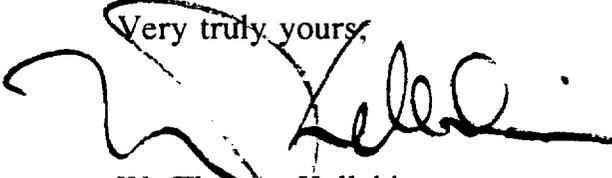
So as not to create any inconsistencies in BLM action with that taken by the Commissioner of Public lands ("SLO"), I am also enclosing a copy of the Commissioner's preliminary approval letter dated February 15, 1995.

Meridian Oil Inc.  
February 20, 1995  
Page 3

Finally, the subject of the waterflood project (NMOCD Case 11208) and the accompanying unit (NMOCD Case 11207) were submitted to Examiner Michael E. Stogner of the New Mexico Oil Conservation Division ("NMOCD") at a hearing held on February 16, 1995.

I am aware that the approvals of the BLM, SLO and NMOCD are each conditioned upon approval by the others. Accordingly, I am providing a copy of this letter with enclosures to both Jamie Bailey of the SLO and to Mr. Stogner of the NMOCD so that they are informed of the status of the application with the BLM and to insure consistent action by all three agencies.

Please call me if I need to do anything else to obtain BLM preliminary approval.

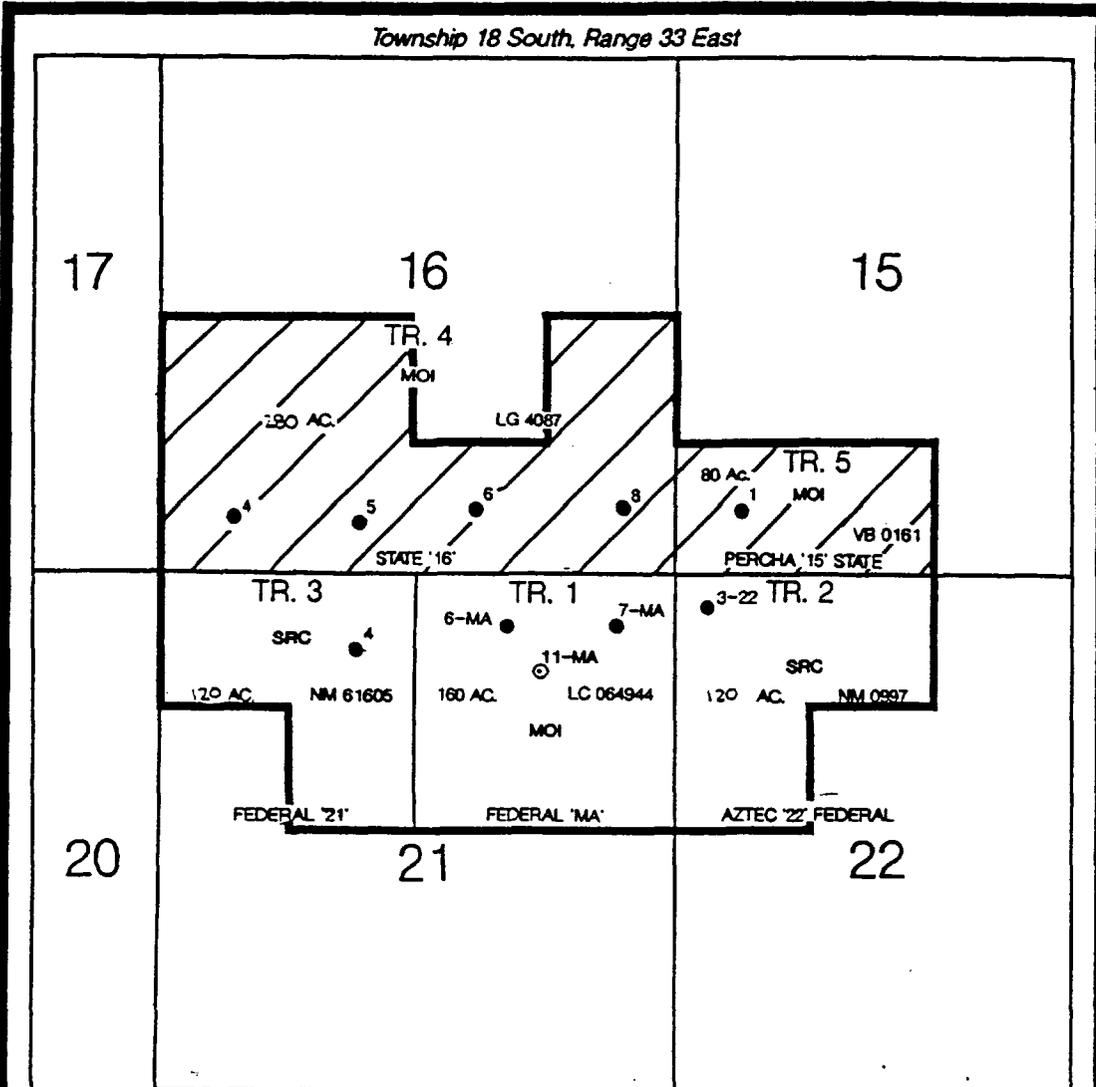
Very truly yours,  
  
W. Thomas Kellahin

*cc: Office of the Commissioner of Public Lands  
Attn: Jamie Bailey  
via hand delivered*

*cc: Oil Conservation Division of New Mexico  
Attn: Michael E. Stogner  
via hand delivered*

*cc: Meridian Oil Inc.  
Attn: Chet Babin  
via facsimile (915) 688-6011*

REVISED  
**EXHIBIT A**



Township 18 South, Range 33 East  
 LEA COUNTY, NEW MEXICO

**PROPOSED EAST CORBIN DELAWARE UNIT  
 CORBIN DELAWARE WEST FIELD**

MOI=Meridian Oil Inc.

SRC=Southland Royalty Co.

— PROPOSED WATERFLOOD  
 UNIT BOUNDARY

Total Acreage = 760 Acres

□ Federal Acreage = 400 Acres

Scale: 1"=2,000'

▨ State Acreage = 360 Acres

## REVISED EXHIBIT A-1

*The following geologic justification for the boundary of the East Corbin Delaware Unit was prepared on February 15, 1995 by Adam Szantay, a petroleum geologist employed by Meridian Oil Inc. in Midland Texas:*

*The selection of tracts for inclusion in the proposed East Corbin Delaware Unit was based on the geology of the hydrocarbon-producing Delaware Formation. The boundary of the Unit area is based on the combination stratigraphic/structural setting of the trap and hydrocarbon pore volume in both the "A " and "B" sandstone reservoirs. The Northern Unit boundary coincides with the up-dip porosity limit and sandstone pinchout of those reservoirs. It is interpreted that the NW4/SE4 of Section 16 does not contain economic quantities of hydrocarbons and is therefore not included in the Unit area. The Southern Unit boundary coincides approximately with the down-dip porosity limit and oil water contact. In addition, the SW4/NW4 Section 21 and the SE4/NW4 Section 22 have been interpreted as containing uneconomic quantities of hydrocarbons in the Delaware and are not included in the Unit. The East and West Unit boundaries coincide with the East and West edges of the structural feature over which the reservoirs drape.*

*As a result of this geologic evaluation, I have concluded that it is appropriate to include within the unit only those 40-acre tracts which have all or some portion of the reservoir pore volume as shown on the two pore volume maps which I prepared and submitted to the BLM on February 6, 1995.*



EXHIBIT B

Tract No.	Description of Lands	Acres	Serial No. & Effective Date	Basic Royalty Owner Owner & Percentage	Lessee of Record	Overriding Royalty Owner & Percentage	Working Interest Owner & Percentage Interest	Participation of Tract in Unit
1	NE/4 SEC. 21, T18S, R33E Federal "AA" #6 & 8 wells (and the proposed #11 well)	180	USA (C-064844) 6/1/47 HBP	USA 12.50%	Southland Royally Company	Summit Energy Inc. 1.6670% Verna Fay Scoll, Trustee 1.0670% Betty L. Rogers, Trustee 0.8333% Kaly Hiale Kruse 0.0333%	100%	50.8163%
2	NW/4 SEC. 22, T18S, R33E Aztec Federal "22" #3 wells	160	USA NM 0997 2/1/50 HBP	USA 12.50%	Southland Royally Company	Ronald H. Ireland 0.83330% Mary Louie Clave 1.46667% Princess C. Ireland 0.83330% Howard B. Whigham 1.46667%	100%	4.087%
3	NW/4 Sec. 21, T18S, R33E Federal "21" #4 well	160	USA NM 61605 8/1/85 HBP	USA 12.50%	Southland Royally Company	NONE	100%	4.3276%
4	S/2 Sec. 18, T18S, R33E State "18" #4, 5, 6 & 8 wells	320	IG 4087 3/1/77 HBP	State of New Mexico 12.50%	L. R. French, Jr.	L. R. French, Jr. 6.25%	100%	38.0520%
5	S/2 SW/4 Sec. 15, T18S, R33E Parcha State "15" #1 well	60	VB 0161 11/1/87 HBP	State of New Mexico 18.75%	Meridian Oil Inc.	NONE	100%	2.3167%

REVISED  
EXHIBIT C

**TRACT PARTICIPATION FACTORS AND FORMULA  
FOR THE PROPOSED EAST CORBIN DELAWARE UNIT**

		TRACT ALLOCATION
Tract 1	NE 1/4 of Section 21, T-18-S, R-33-E Containing Federal MA #6, #7	50.8163%
Tract 2	NW 1/4 of Section 22, T-18-S, R-33-E Containing Aztec "22" Federal #3	4.4874%
Tract 3	NW 1/4 of Section 21, T-18-S, R-33-E Containing Federal "21" #4	4.3276%
Tract 4	S 1/2 of Section 16, T-18-S, R-33-E Containing State "16" #4, #5, #6, #8	38.0520%
Tract 5	S 1/2 SW 1/4 of Section 15, T-18-S, R-33-E Containing Percha "15" State #1	2.3167%

**TRACT PARTICIPATION FORMULA**

[FACTOR]<sub>tract i</sub> =

$$\begin{aligned}
 & 35\% \left( \frac{\text{Tract i recoverable primary oil}}{\text{Unit recoverable primary oil}} \right) + 25\% \left( \frac{\text{Tract i remaining primary oil}}{\text{Unit remaining primary oil}} \right) \\
 & + 15\% \left( \frac{\text{Tract i original oil in place}}{\text{Unit original oil in place}} \right) + 10\% \left( \frac{\text{Tract i recoverable primary gas}}{\text{Unit recoverable primary gas}} \right) \\
 & + 10\% \left( \frac{\text{Tract i remaining primary gas}}{\text{Unit remaining primary gas}} \right) + 5\% \left( \frac{\text{Tract i usable wellbores}}{\text{Unit usable wellbores}} \right)
 \end{aligned}$$

EXHIBIT D

Assigned Percentages:	TRACT	WELL	Acres	EUR - Primary oil (bbl)	gas (mcf)	Remaining (a) oil (bbl)	gas (mcf)	OQIP (a/b)	Number of usable wellbores	Tract Allocation Factor
1) recoverable primary oil: 35%	Tract 1	Federal MA #8 Federal MA #7	160	147536 177071 274607	396618 402555 799173	31525 37346 71871	168065 165340 353405	1,624,562	2	80.8163%
2) remaining primary oil: 25%	Tract 2	Ariec #22 Fed #3	160	20169	4887	5222	10564	503,500	1	4.977%
3) OQIP 15%	Tract 3	Federal #21 #4	160	14004	60783	1234	11226	762,562	1	4.3276%
4) recoverable primary gas 10%	Tract 4	State #16 #4 State #16 #5 State #16 #6 State #18 #8	320	49845 60560 58849 44425 213729	120557 146285 178145 110010 555005	7471 13848 12030 5725 39074	29461 51373 63534 21422 165820	2,567,529	4	36.0520%
5) remaining primary gas 10%	Total									
6) usable wellbores: 5%										
Total: 100%	Tract 5	Patcha #15 St. #1	80	3525	12671	0	0	810,019	1	2.3167%
	Grand Total			526,034	1,430,520	117,441	541,015	6,069,172	9	Total: 100.0000%

Date and Calculations for Tract Allocation factors for the proposed 1997...



State of New Mexico  
Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148

SANTA FE, NEW MEXICO 87504-1148

RAY POWELL, M.S., D.V.M.  
COMMISSIONER

(505) 827-5760  
FAX (505) 827-5766

February 15, 1995

Kellahin and Kellahin  
P.O. Box 2265  
Santa Fe, New Mexico 87504-2265

Attention: Mr. W. Thomas Kellahin

Re: Request for Preliminary Approval  
East Corbin Delaware Unit  
Lea County, New Mexico

Dear Mr. Kellahin:

This office has reviewed the unexecuted copy of the proposed East Corbin Delaware Unit Agreement, Lea County, New Mexico which you have submitted on behalf of Meridian Oil Incorporated. This agreement meets the general requirements of the Commissioner of Public Lands who has this date granted you preliminary approval as to form and content.

Preliminary approval shall not be construed to mean final approval of this agreement in any way and will not extend any short term leases until final approval and an effective date are given.

When submitting your agreement for final approval, please submit the following:

1. Application for final approval by the Commissioner setting forth the tracts that have been committed and the tracts that have not been committed.
2. The filing fee in the amount of \$120.00. The filing fee for a unit agreement is thirty (\$30.00) dollars for every section or partial section thereof.
3. Two copies of the Unit Agreement.
4. All ratifications from Lessees of Record and Working Interest Owners. All signatures should be acknowledged before a notary. One set of ratifications must contain original signatures.
5. Initial Plan of Operation.

6. Order of the New Mexico Oil Conservation Division. Our approval will be conditioned upon subsequent favorable approval by the New Mexico Oil Conservation Division.
7. A copy of the Unit Operating Agreement (if applicable).
8. Designation letter from the Bureau of Land Management. Our approval will be conditioned upon subsequent favorable approval by the Bureau of Land Management.
9. A redesignation of all well names and numbers (including API numbers).

In addition, we have also taken the liberty of reviewing the unexecuted copy of the East Corbin Delaware Unit Agreement which was also submitted with your application and would like to point out the following corrections:

- A. On Page 2, Subsection (a) of the Unit Agreement, the acreage should be changed from 880.00 acres to 760.00 acres.
- B. On Page 5, Subsection 13. Tract Participation of the Unit Agreement, please correct the participation formula per your letter of February 9, 1995.
- C. On Revised Exhibit "B" Tract No. 2, the correct description should be N2SW4, SW4NW4, Section 22-18S-33E, and the correct acreage should be 120.00 acres.
- D. On Revised Exhibit "B" Tract No. 3, the correct description should be N2NW4, SE4NW4, Section 21-18S-33E, and the correct acreage should be 120.00 acres.
- E. On Revised Exhibit "B" Tract No. 4, the correct description should be SW4, NE4SE4, S2SE4, Section 16-18S-33E, and the correct acreage should be 280.00 acres.
- F. On Exhibit "B" please also provide a recapitulation by land type:

Federal Lands	400 acres	53%
State Lands	360 acres	47%
<hr/>		
Total	760 acres	100%

Kellahin and Kellahin  
Page 3  
February 15, 1995

- G. On Exhibit "C", please change the land descriptions for each tract to coincide with Exhibit "B".

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.  
COMMISSIONER OF PUBLIC LANDS

BY: 

JAMES B. LEWIS, Director  
Oil/Gas and Minerals Division  
(505) 827-5744

RP/JBL/cpm

Enclosure

cc: Reader File  
BLM-Roswell--Attn: Ms. Alexis Swoboda  
OCD-Santa Fe--Attn: Mr. Roy Johnson