

MERIDIAN OIL

CASE # 11038

AUGUST 18, 1994

KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

117 NORTH GUADALUPE

POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

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)

TELEPHONE (505) 962-4285
TELEFAX (505) 962-2047

July 12, 1994

HAND DELIVERED

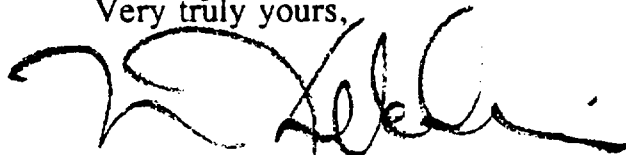
Mr. Michael E. Stogner
Chief Hearing Examiner
Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504

Re: NMOCD Case 11038: Application
of Meridian Oil Inc. for Downhole
Commingling, Klein/Vaughn Area
Rio Arriba County, New Mexico

Dear Mr. Stogner:

On behalf of the applicant, Meridian Oil Inc., we would appreciate the referenced case being continued from the Division Examiner docket now set for July 21, 1994 docket to the August 4, 1994 docket.

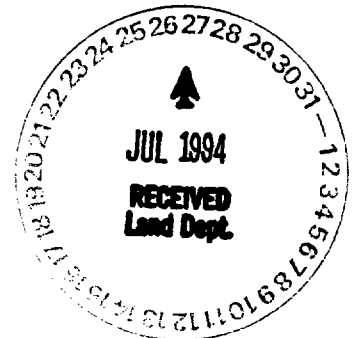
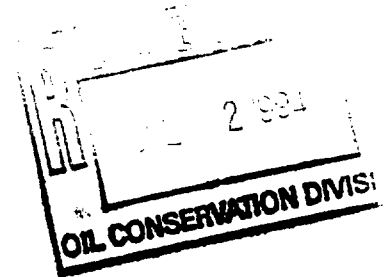
Very truly yours,



W. Thomas Kellahin

cc: Alan Alexander (Meridian-Farmington)

EXHIBIT 1



KELLAHIN AND KELLAHIN

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117 NORTH GUADALUPE

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

JASON KELLAHIN (RETIRED 1991)

June 27, 1994

HAND DELIVERED

JUN 28 1994

**Mr. Michael E. Stogner
Chief Hearing Examiner
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501**

**Re: Klein/Vaughn Area
Application of Meridian Oil Inc.
for Downhole Commingling,
Rio Arriba County, New Mexico**

Dear Mr. Stogner:

On behalf of Meridian Oil Inc., please find enclosed our referenced application which we request be set for hearing on the next available Examiner's docket now scheduled for July 21, 1994.

Notices are being sent certified mail, hereby we are notifying all interested parties of their right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application and that failure to appear at the hearing may preclude them from any involvement in this case at a later date.

Oil Conservation Division
June 27, 1994
Page 2

Pursuant to the Division's Memorandum 2-90, all parties are hereby informed that if they appear in this case, then they are requested to file a Pre-Hearing Statement with the Division not later than 4:00 PM on Friday, July 15, 1994, with a copy delivered to the undersigned.

Also enclosed is our proposed advertisement of this case for the NMOCD docket.

Very truly yours,

A handwritten signature in black ink, appearing to read 'W. Thomas Kellahin', written over a horizontal line.

W. Thomas Kellahin

cc: Meridian Oil Inc.

JUN 28 1994

PROPOSED ADVERTISEMENT

Case _____: Application of Meridian Oil Inc. for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks exceptions from Division General Rule 303(C) to establish on an area-wide basis authorization for downhole commingling of Dakota, Mesaverde and Gallup gas production in the wellbores of existing or future wells drilled anywhere within Sections 26 through 30, 33, 34 and S/2 35 in Township 26 North, Range 6 West, Rio Arriba County, New Mexico, said production being portions of the Basin-Dakota Gas Pool, the Blanco-Mesaverde Gas Pool and Undesignated Gallup production. The center of said area is located approximately 4 miles southeast from El Paso Natural Gas Company Largo Station, New Mexico.

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

JUN 28 1994

APPLICATION OF MERIDIAN OIL INC.
FOR DOWNHOLE COMMINGLING
RIO ARriba COUNTY, NEW MEXICO.

CASE:

APPLICATION

Comes now MERIDIAN OIL INC., by and through its attorneys, Kellahin and Kellahin, and applies to the New Mexico Oil Conservation Division for exceptions from Division General Rule 303(C) to establish on an area-wide basis authorization for downhole commingling of Dakota, Mesaverde and Gallup gas production in the wellbores of existing or future wells drilled anywhere within Sections 26 through 30, 33, 34 and S/2 35 in Township 26 North, Range 6 West, Rio Arriba County, New Mexico, said production being portions of the Basin-Dakota Gas Pool, the Blanco-Mesaverde Gas Pool and Undesignated Gallup production.

In support of its application, Meridian Oil Inc. states:

(1) Meridian Oil Inc. is the operator of 19 Basin Dakota Gas Pool wells, 7 Blanco-Mesaverde Gas pool wells, 1 Undesignated Gallup Gas well, and 1 Mesaverde-Dakota dually completed well all located within an area known as the "Klein/Vaughn Area" as identified on Exhibit "A" and consisting of the following described acreage:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM

Sections 26-30: All

Sections 33-34: All

Section 35: S/2

(2) In the absence of special circumstances, Division general state-wide Rule 303(C) requires that administrative applications for downhole commingling of gas production be submitted, processed and approved on a well by well basis.

(3) Sufficient data is now available from existing wells in the Klein/Vaughn Area to support the Division approving the downhole commingling of Dakota, Mesaverde and Gallup gas production within the Klein/Vaughn Area on an "area-wide" basis rather than on a "well-by-well basis."

(4) Production from the Dakota and Gallup pools is now either marginal or uneconomic from existing wells within the Klein/Vaughn Area and the economic life of that production is extended if it is downhole commingled with Mesaverde pool production.

(5) The approval of downhole commingling of these formations in the Klein/Vaughn Area will extend the economic life of the existing wells and thereby increase ultimate recovery from these formations.

(6) In addition, any new wells to be drilled in the Klein/Vaughn Area should be approved for downhole commingling upon submittal to the NMOCD-Aztec of production data demonstrating that only one of the zones is economic based upon criteria which the applicant will submit at the hearing of this case.

(7) The processing of downhole commingling applications for the Klein/Vaughn Area on a "well-by-well" basis will be an administrative burden to the Division and to the operator.

(8) Approval of downhole commingling on an area-wide basis for the Klein/Vaughn Area is in the best interests of conservation, the prevention of waste and the protection of correlative rights.

(9) Meridian Oil Inc. requests the adoption of a summary administrative procedure with the necessary exceptions to Division Rule 303(C) so that the Supervisor of the Aztec District Office of the Division shall approve the downhole commingling of said production on an area-wide basis for the Klein/Vaughn Area.

(10) The ownership is common among these three formations within the Klein/Vaughn Area.

(11) In accordance with Division Rule 303-C-1.(b), the Applicant states and will demonstrate at hearing:

1. The wells in the Klein/Vaughn Area which are currently single completions in the Dakota formation, the Mesaverde formation or the Gallup formation cannot be dually completed because of mechanical condition and therefore downhole commingling is necessary to economically produce in all three formations.

2. The well in the Klein/Vaughn Area which is currently dually completed in the Dakota and Mesaverde formations cannot be produced with the Gallup formation because of

mechanical conditions and therefore Gallup production will be wasted unless it is produced by downhole commingling.

3. Any new well to be drilled in the Klein/Vaughn Area that is determined to be economic only in the Mesaverde formation will require downhole commingling in order to maximize recoveries from either the Gallup or Dakota formations.

4. That there will be no crossflow between the three zones commingled.

5. That the value of the commingled production will not be less than the sum of the values of the individual production.

6. It is expected that the bottom hole pressure of the lower pressure zone is not less than 50 percent of the bottom hole pressure of the higher pressure zone adjusted to a common datum.

(12) In order to salvage the remaining Dakota and Gallup production from the Klein/Vaughn Area, Meridian Oil Inc. seeks approval to downhole commingle all Dakota, Mesaverde and Gallup production from any existing wells and any new wells where the Gallup and Dakota are determined to be uneconomic.

(13) Meridian Oil Inc. will submit at the hearing, its proposed formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.

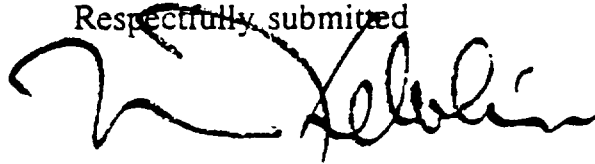
(14) Applicant requests that this matter be docketed for hearing on the Division's Examiner docket now scheduled for July 21, 1994.

(15) Notice of this application has been sent to all offsetting operators/owners adjacent to the Klein/Vaughn Area who may be affected by downhole commingling and who are identified as follows:

Dakota plat and notice list:	Exhibit "B" and "C"
Mesaverde plat and notice list:	Exhibit "D" and "E"
Gallup plat and notice list:	Exhibit "F" and "G"

WHEREFORE Applicant requests that this matter be set for hearing on July 21, 1994 before a duly appointed Examiner of the Oil Conservation Division and that after notice and hearing as required by law, the Division enter its order granting this application.

Respectfully submitted

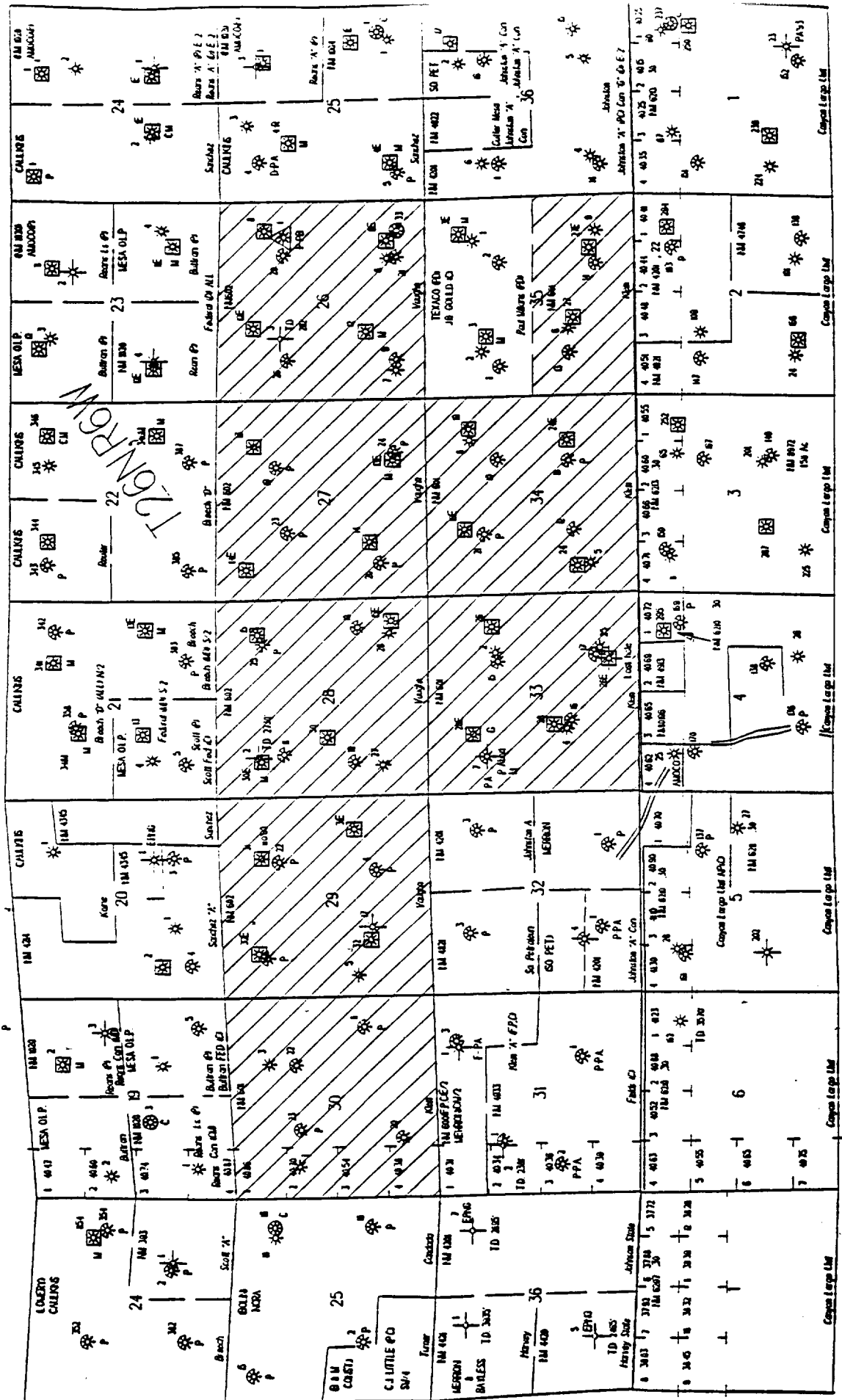








W. Thomas Kellahin
KELLAHIN and KELLAHIN
P. O. Box 2265
Santa Fe, New Mexico 87501
(505) 982-4285
Attorneys for Applicant

T26N.R6W

Sec 26. 27. 28. 29. 30. 33. 34 S/2 35

RIO ARriba COUNTY, NEW MEXICO



	FRUITLAND SAND WELL.		MESAVERDE WELL.
	FRUITLAND COAL WELL.		DAKOTA WELL.
	PICTURED CLIFFS WELL.		GALLUP WELL.

MERIDIAN OIL INC
KLEIN / VAUGHN
DAKOTA / GALLUP / MESAVERDE
COMMINGLE APPLICATION

TOWNSHIP 26 NORTH, RANGE 6 WEST
RIO ARRIBA COUNTY, NEW MEXICO

2	5	2	7	3	4	3
6	30	29	28	27	26	3
1	10	9	8	33	34	12
				35		11
			1	1		1

EXHIBIT "B"

DAKOTA FORMATION

**KLEIN/VAUGHN
DAKOTA FORMATION**

1. Meridian Oil Inc.
2. Meridian Oil Inc. and Caulkins Oil Co.
2100 Colorado Bank Building,
Denver, Colorado 80202
3. Caulkins Oil Co.
4. Conoco Inc.
10 Desta Drive, Suite 100W,
Midland, Texas 79705
5. Amoco Production Co.
Post Office Box 800
Denver, Colorado 80201
6. Central Resouces Inc.
1776 Lincoln St., Suite 1010
Denver, Colorado 80203
7. Caulkins Oil Co. and Conoco, Inc.
8. Meridian Oil Inc. and Merrion Oil and Gas Corp.
Post Office Box 840
Farmington, New Mexico 87109
9. Meridian Oil Inc. and The Wiser Oil Co.
8115 Preston Road, Suite 400
Dallas, Texas 75225
10. Meridian Oil Inc., Merrion Oil and Gas Corp. and AG Hill
5000 Thanksgiving Tower
Dallas, Texas 75201
11. Meridan Oil Inc., The Wiser Co. and ARCO Oil and Gas
P.O. Box 1610
Midland, Texas 79702
12. Texaco Exploration and Production Inc.
Post Office Box 2100
Denver, Colorado 80237

EXHIBIT "C"

MERIDIAN OIL INC

KLEIN / VAUGHN DAKOTA / GALLUP / MESAVERDE COMMINGLE APPLICATION

TOWNSHIP 26 NORTH, RANGE 6 WEST
RIO ARriba COUNTY, NEW MEXICO

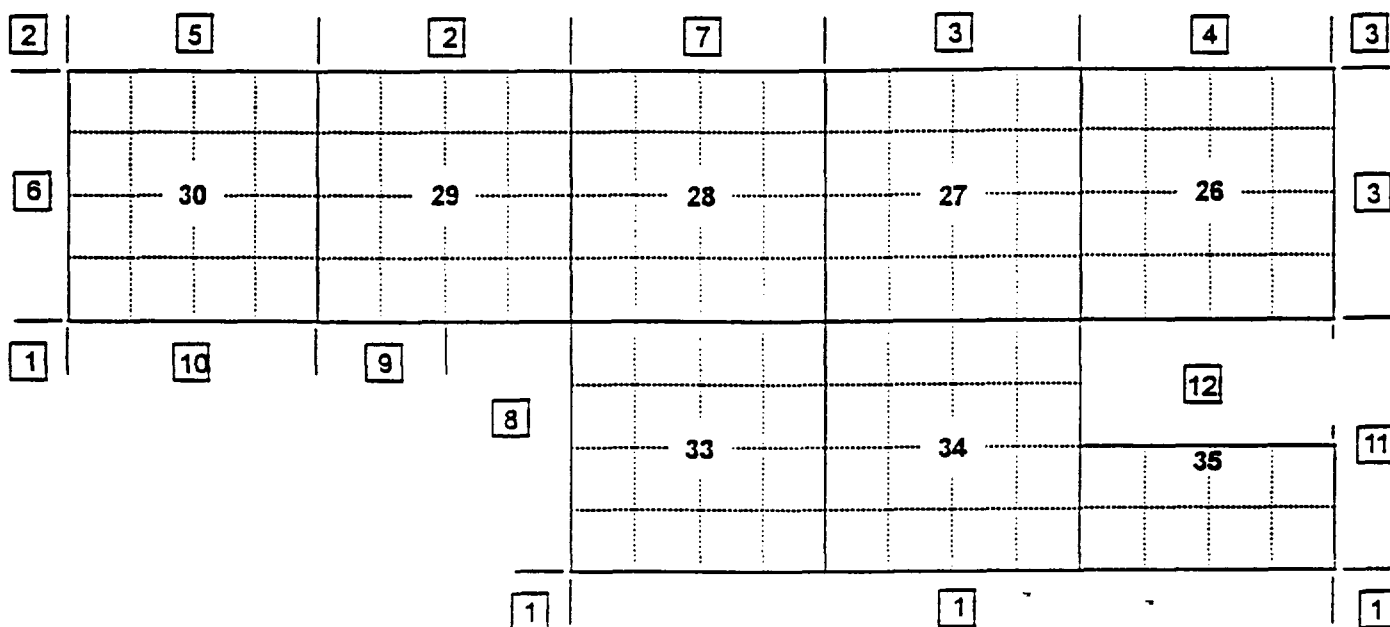


EXHIBIT "E"

MESAVERDE FORMATION

**KLEIN/VAUGHN
MESAVERDE FORMATION**

1. Meridian Oil Inc.
2. Meridian Oil Inc. and Caulkins Oil Co.
2100 Colorado Bank Building,
Denver, Colorado 80202
3. Caulkins Oil Co.
4. Conoco Inc.
10 Desta Drive, Suite 100W,
Midland, Texas 79705
5. Amoco Production Co.
Post Office Box 800
Denver, Colorado 80201
6. Central Resources Inc.
1776 Lincoln St., Suite 1010
Denver, Colorado 80203
7. Caulkins Oil Co. and Conoco, Inc.
8. Meridian Oil Inc. and Merion Oil and Gas Corp.
Post Office Box 840
Farmington, New Mexico 87109
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8115 Preston Road, Suite 400
Dallas, Texas 75225
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5000 Thanksgiving Tower
Dallas, Texas 75201
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P.O. Box 1610
Midland, Texas 79702
12. Texaco Exploration and Production Inc.
Post Office Box 2100 -
Denver, Colorado 80237

EXHIBIT "E"

MERIDIAN OIL INC

KLEIN / VAUGHN DAKOTA / GALLUP / MESAVERDE COMMINGLE APPLICATION

TOWNSHIP 26 NORTH, RANGE 6 WEST
RIO ARriba COUNTY, NEW MEXICO

2	4	2	1	3	2	3	2
5	30	29	28	27	26	2	
1	1	6	8	33	34	35	1
7	1	1	1				

EXHIBIT "F"

GALLUP FORMATION

**KLEIN/VAUGHN
GALLUP FORMATION**

1. Meridian Oil Inc.
2. Caulkins Oil Co.
2100 Colorado Bank Building,
Denver, Colorado 80202
3. Conoco Inc.
10 Desta Drive, Suite 100W,
Midland, Texas 79705
4. Amoco Production Co.
Post Office Box 800
Denver, Colorado 80201
5. Central Resouces Inc.
1776 Lincoln St., Suite 1010
Denver, Colorado 80203
6. Meridian Oil Inc. and The Beamon Group
Tom L. Hail, Trustee
James Robert Beamon, Trustee
Cathryn Beamon
Claudia Marcia Lundell Gilmer
Linda Jeanne Lundell Lindsey
Carolyn Beamon Tilley
Robert Walter Lundell
James Robert Beamon
c/o Pattie Beamon Lundell
1616 S. Voss, #870
Houston, Texas 77057
c/o Robert Beamon, Trustee
Three Riverway, Suite 470
Houston, Texas 77056
c/o Randall T. Johnson, Trustee
Sheryl A. Lundell, Revocable Trust
430 Meadow Ridge Drive
Kerrville, Texas 78028-3825
7. Merriion Oil and Gas Corp.
Post Office Box 840
Farmington, New Mexico 87109
8. Texaco Exploration and Production Inc.
Post Office Box 2100
Denver, Colorado 80237

MERIDIAN OIL INC

**KLEIN / VAUGHN
DAKOTA / GALLUP / MESAVERDE
COMMINGLE APPLICATION**

**TOWNSHIP 26 NORTH, RANGE 6 WEST
RIO ARriba COUNTY, NEW MEXICO**

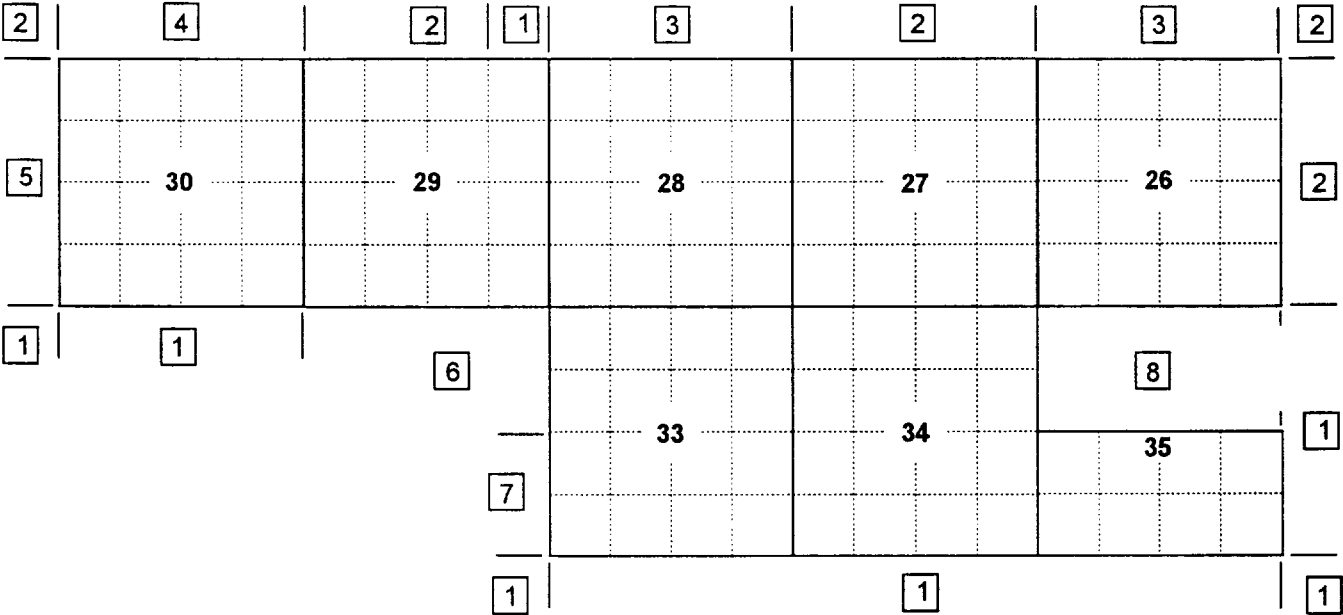


EXHIBIT 2

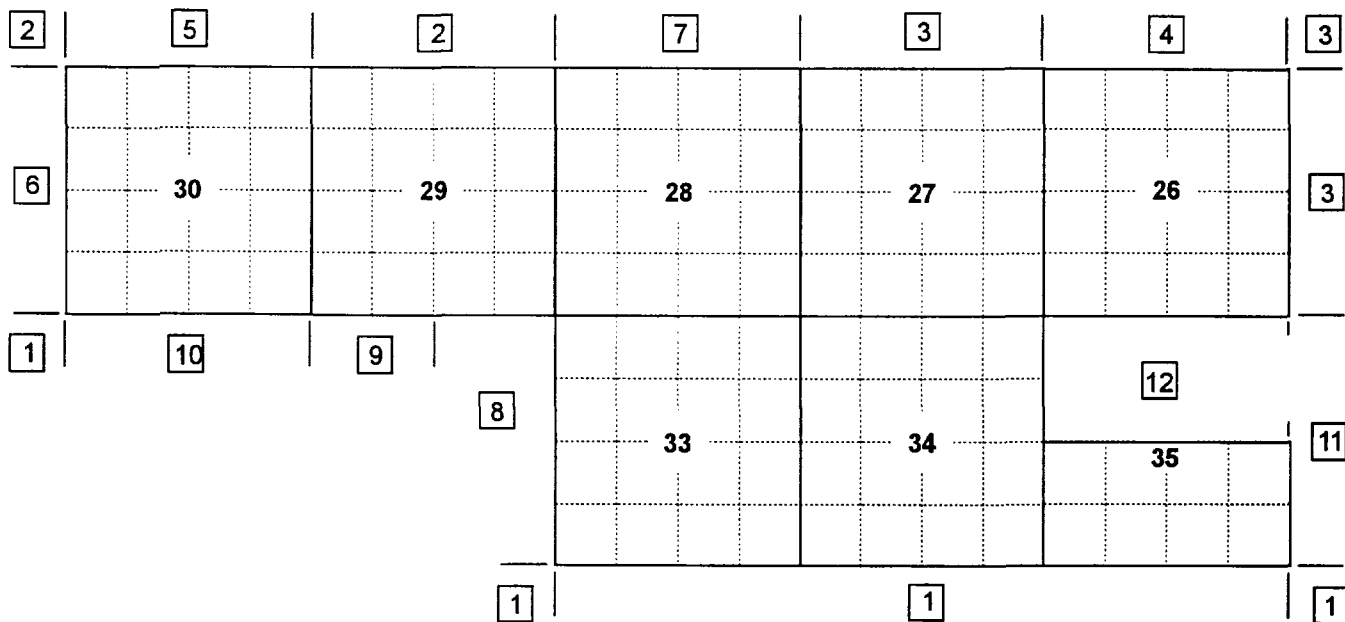
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James Robert Beamon, Trustee
Cathryn Beamon
Claudia Marcia Lundell Gilmer
Linda Jeanne Lundell Lindsey
Carolyn Beamon Tilley
Robert Walter Lundell
James Robert Beamon
c/o Pattie Beamon Lundell
1616 S. Voss, #870
Houston, Texas 77057
c/o Robert Beamon, Trustee
Three Riverway, Suite 470
Houston, Texas 77056
c/o Randall T. Johnson, Trustee
Sheryl A. Lundell, Revocable Trust
430 Meadow Ridge Drive
Kerrville, Texas 78028-3825
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MERIDIAN OIL INC

KLEIN / VAUGHN DAKOTA / GALLUP / MESAVERDE COMMINGLE APPLICATION

TOWNSHIP 26 NORTH, RANGE 6 WEST
RIO ARriba COUNTY, NEW MEXICO



MESAVERDE FORMATION

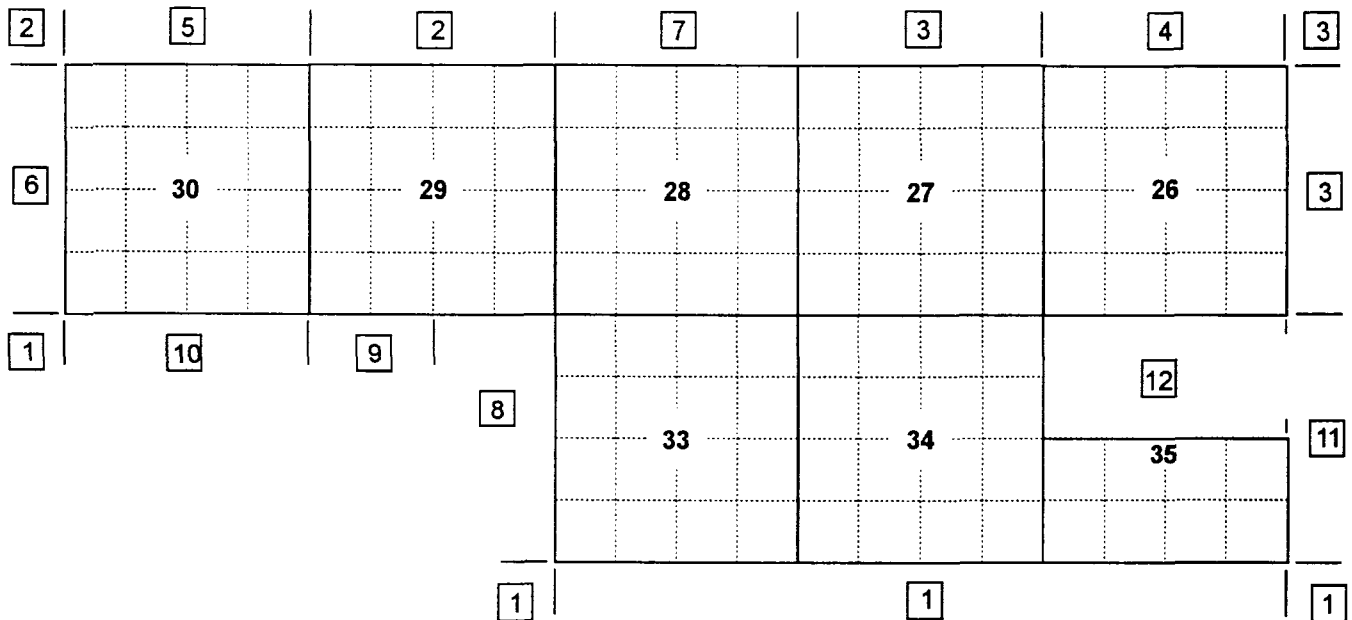
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MERIDIAN OIL INC

KLEIN / VAUGHN DAKOTA / GALLUP / MESAVERDE COMMINGLE APPLICATION

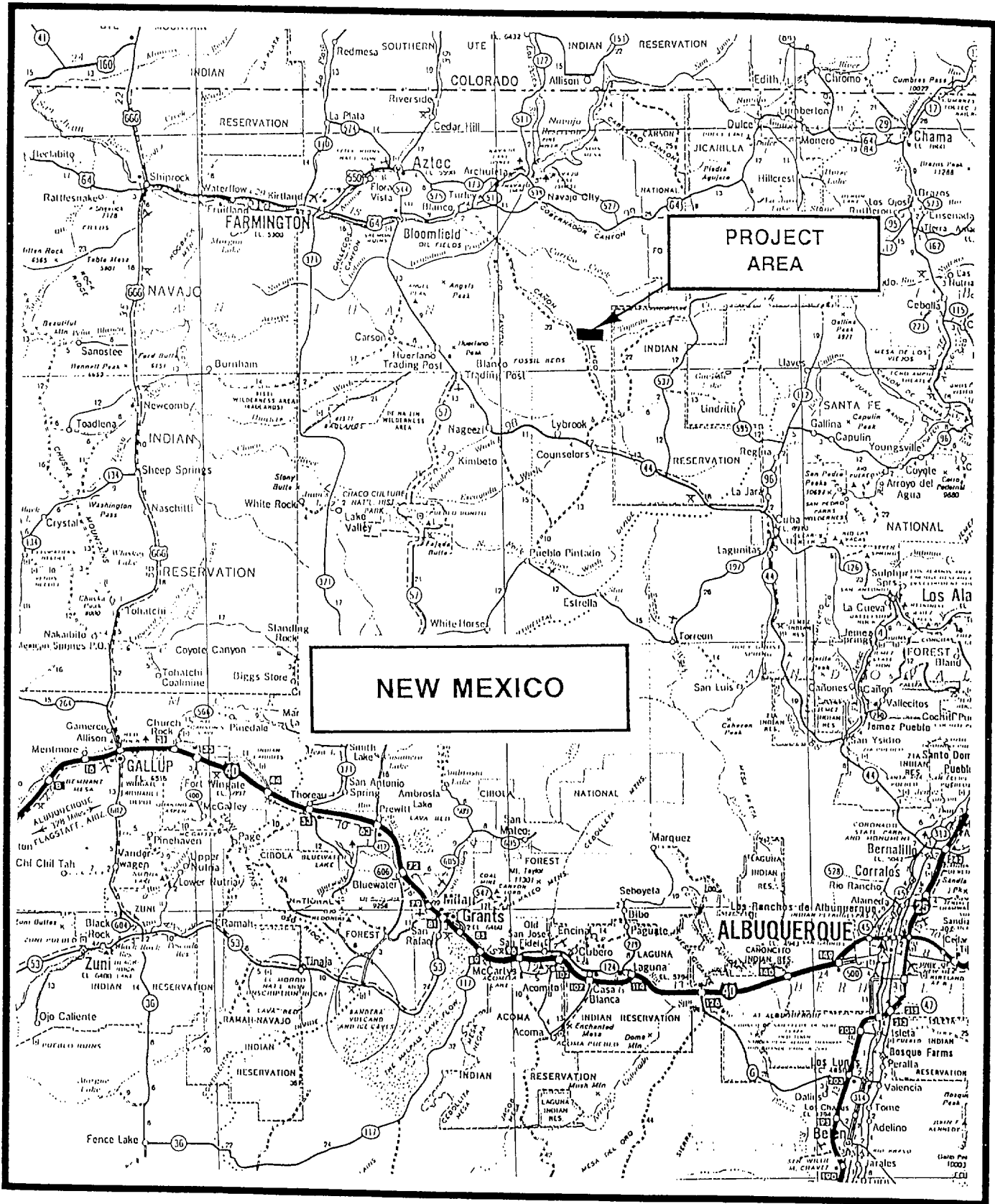
TOWNSHIP 26 NORTH, RANGE 6 WEST
RIO ARRIBA COUNTY, NEW MEXICO



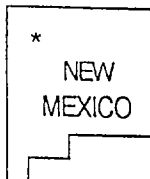
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~~P.O. Box 1610~~ *15375 Memorial Drive*
~~Midland, Texas 79702~~ *Houston, TX 77079*
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PROJECT LOCATION



KLEIN/VAUGHN AREA

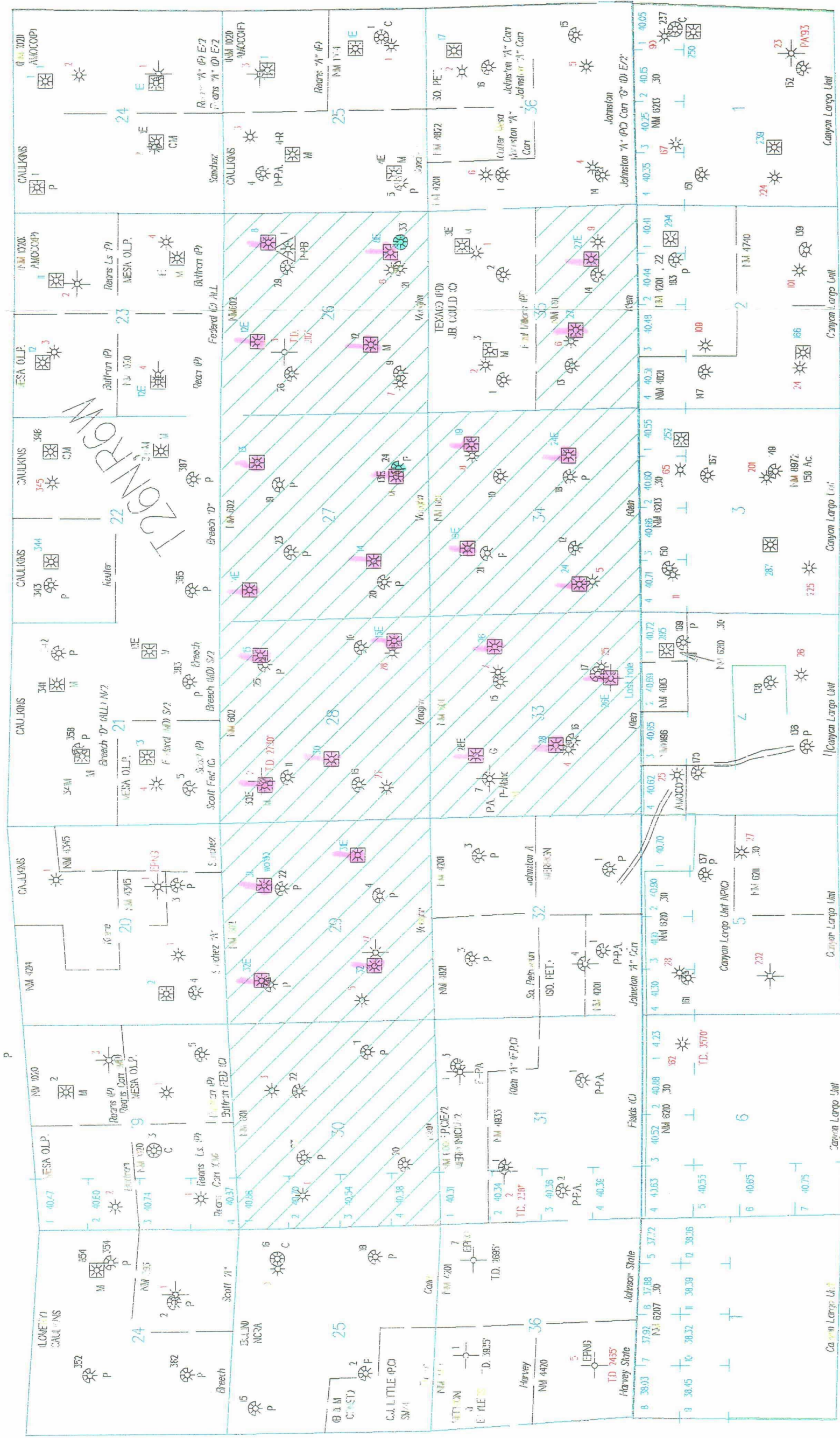
EXHIBIT 3

FIGURE 1
OVERVIEW MAP

KLEIN/VAUGHN AREA

T26N,R6W

Sec. 26, 27, 28, 29, 30, 33, 34 S/2 35
RIO ARriba COUNTY, NEW MEXICO



- FRUITLAND SAND WELL
- FRUITLAND COAL WELL
- PICTURED CLIFFS WELL
- MESAVARDE WELL
- DAKOTA WELL
- CLIFFS WELL

26-Dakota

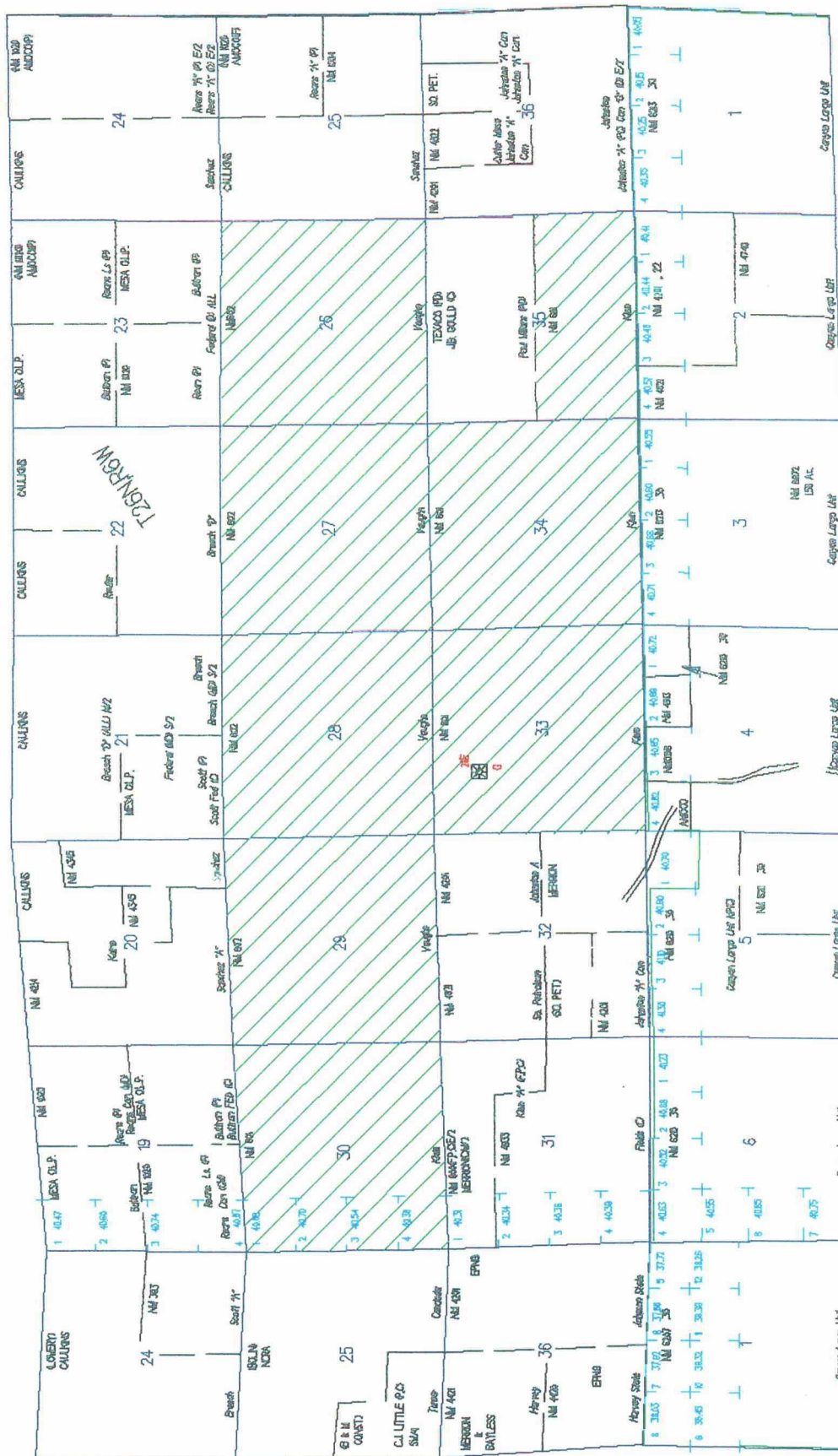
Sec. 26, 27, 28, 29, 30, 33, 34, S/2 35
RIO ARriba COUNTY, NEW MEXICO



KLEIN/VAUGHN AREA GALLUP

T26N,R6W

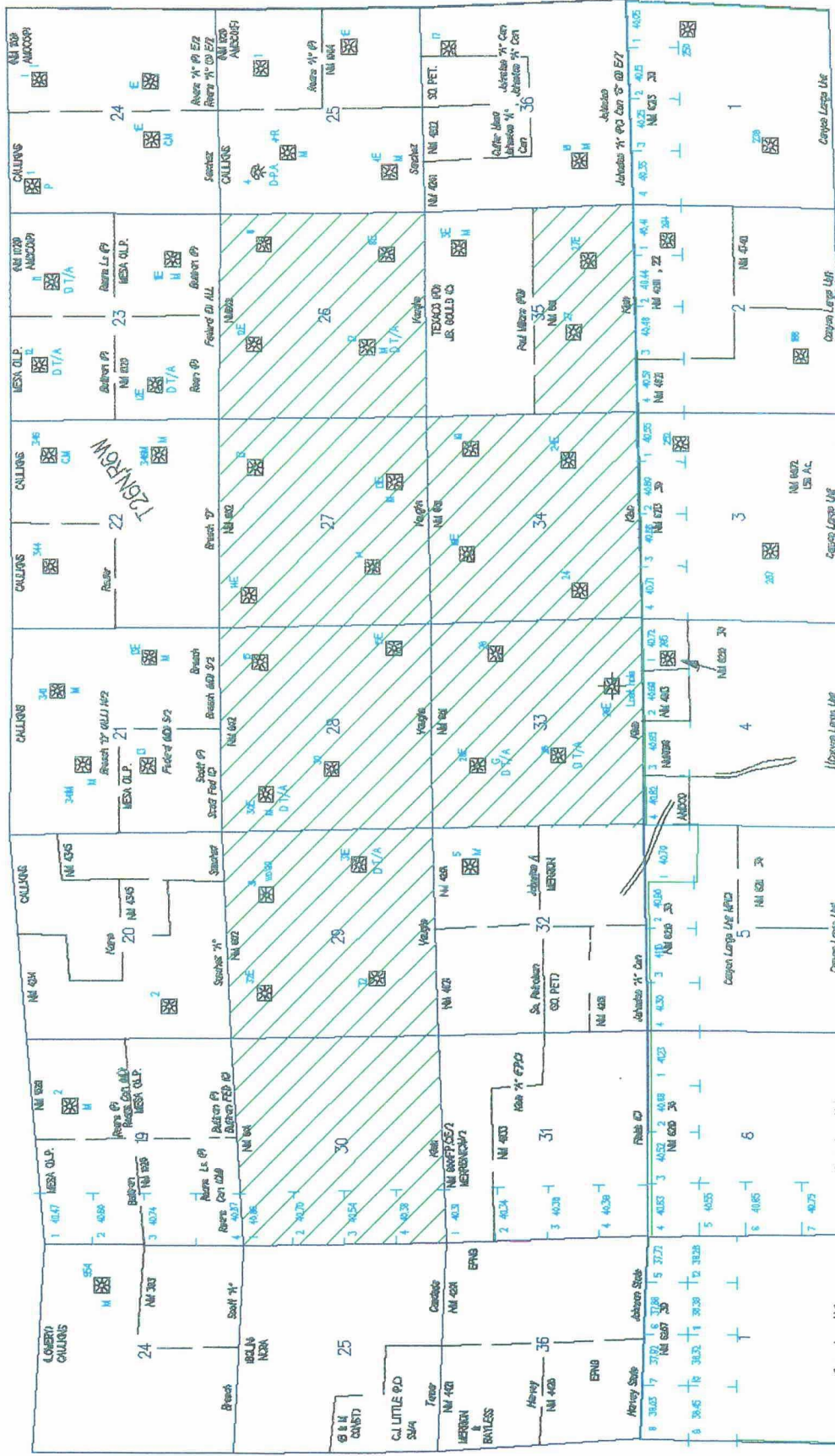
Sec. 26, 27, 28, 29, 30, 33, 34, S/2 35
RIO ARriba COUNTY, NEW MEXICO



- FRUITLAND SAND WELL
- FRUITLAND COAL WELL
- DAKOTA WELL
- PICTURED CLIFFS WELL

KLEIN/VAUGHN AREA DAKOTA T26N.R6W

Sec. 26. 27. 28. 29. 30. 33. 34. S/2 35
RIO ARriba COUNTY, NEW MEXICO



FRUITLAND SAND WELL
 FRUITLAND COAL WELL
 DAKOTA WELL
 GALLUP WELL
 PICTURED CLIFFS WELL

KLEIN/VAUGHN AREA

	T-26-N, R-6-W	
	% ORRI	% ORRI
ORRI Owner	Sec. 30: All	Sec. 26: All
All Depths	Sec. 33: All	Sec. 27: All
	Sec. 34: All	Sec. 28: All
	Sec. 35: S/2	Sec. 29: All
	(NM-601)	(NM-602)
Elizabeth T. Calloway	1.562500%	Same
GWV Interest Inc.	0.538844%	Same
The Klein Family Trust	6.250000%	Same
C. F. Saunders Jr.	0.250000%	Same
Nancy Saunders Smith	0.250000%	Same
Frederick Eugene Turner	1.562500%	Same
J. Glenn Turner Jr.	1.562500%	Same
John Lee Turner	1.562500%	Same
William T. Drozd	0.538844%	Same
Grady H. Vaughn III and		
John S. Nichols Trustees		
U/W Dorothy Vaughn		
John S. Nichols &	0.809500%	0.740866%
William T. Drozd		
Trustees of the		
Grady H. Vaughn III		
Childrens Trust #2		
Grady H. Vaughn III	0.268187%	0.336821%
Vaughn Petroleum INC.	<u>4.094625%</u>	<u>Same</u>
TOTAL	19.250000%	19.250000%

ROYALTY OWNER
ALL DEPTHS

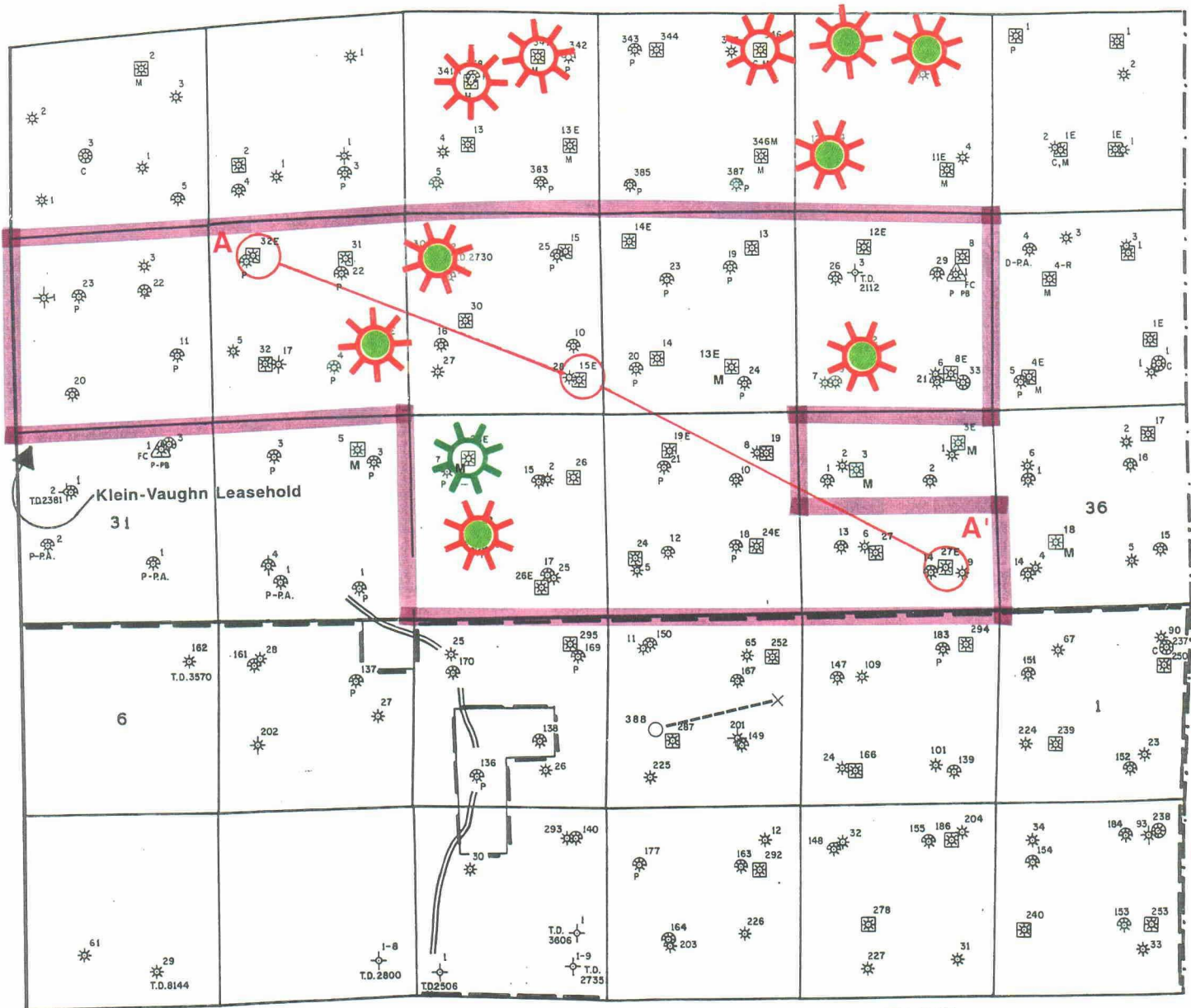
% ROYALTY

% ROYALTY

USA

12.50%

12.50%



INDEX MAP




-  Mesaverde Dakota Commingle
-  Gallup Completion with Dakota Temporarily Abandoned
-  Mesaverde Completion with Dakota Temporarily Abandoned

EXHIBIT 4

**Klein / Vaughn Lease Area
Dakota Pressure / Production Information**

NAME	#	LOCATION	7-Day ISICP	DATE	Btm Hole 03/31/94	Most recent rate MCFD
VAUGHN	8	26N06W26A	DK 2597	11/18/68		44
VAUGHN	12E	26N06W26C	DK 1508	12/10/85	516	460
VAUGHN	12	26N06W26K	DK 2423	06/16/71		32
VAUGHN	8E	26N06W26P	DK 1772	10/22/85	957*	115
VAUGHN	13	26N06W27A	DK 2225	11/2/71		39
VAUGHN	14E	26N06W27D	DK 2208	11/20/85		153
VAUGHN	14	26N06W27K	DK 2604	08/06/71		378
VAUGHN	13E	26N06W27O	DK 1805	01/31/92		412
VAUGHN	15	26N06W28A	DK 2475	07/14/71	920	24
VAUGHN	30E	26N06W28D	DK 2201	11/20/85		178
VAUGHN	30	26N06W28K	DK 2272	10/17/79	730	93
VAUGHN	15E	26N06W28P	DK 1950	11/11/85		108
VAUGHN	31	26N06W29B	DK 2052	12/17/80		50
VAUGHN	32E	26N06W29D	DK 2212	12/12/85		110
VAUGHN	31E	26N06W29I	DK 2334	01/09/86		58
VAUGHN	32	26N06W29K	DK 2489	12/10/80	694	67
KLEIN	28E	26N06W33C	DK 2104	01/10/85		51
KLEIN	26	26N06W33H	DK 1538	11/05/79		133
KLEIN	28	26N06W33K	DK 2509	12/30/80	835*	54
KLEIN	26E	26N06W33O	DK 2100	10/02/85		97
KLEIN	19	26N06W34A	DK 2598	07/01/72	1013*	56
KLEIN	19E	26N06W34C	DK 2087	10/10/85	903*	110
KLEIN	24E	26N06W34I	DK 1910	10/10/85		90
KLEIN	24	26N06W34L	DK 2264	11/26/73		171
KLEIN	27	26N06W35K	DK 2473	09/20/78		115
KLEIN	27E	26N06W35O	DK 2311	10/25/85	891*	83

Current Bottom-hole Pressure Average: 828 psi @ 7000' +/-
Current Candidate Commingle Rate Average: 114 MCFD

* Echometer Interpreted Bottom-Hole Pressure

Note: Vaughn # 13E is a dual Mesaverde / Dakota producter.

EXHIBIT 5

Klein / Vaughn Lease Area Mesaverde Pressure / Production Information

				7-Day ISICP	DATE	Btm Hole Gauge	Most Recent Rate MCFD
VAUGHN	33	26N06W26P	MV	1212	11/13/85	-	140 ✓
KLEIN	7	26N06W33E	MV	1041	12/16/91	1329	450 ✓
VAUGHN	12	26N06W26K	MV	1032	07/28/93	1229	540 ✓
VAUGHN	30E	26N06W28D	MV	1030	07/28/93	1211	460 ✓
VAUGHN	13E	26N06W27O	MV	1032	03/03/92	1400	420 ✓
Canyon Largo Unit NP	237	25N06W01A	MV	1234	07/09/74	-	90 ✓
Canyon Largo Unit NP	238	25N06W12A	MV	1237	04/30/74	-	37 ✓
KLEIN	28	26N06W33K	MV	600	05/20/94	1392	- ✓
VAUGHN	31E	26N06W29I	MV	731	06/13/94	1432	675* ✓

Initial Bottom-hole Pressure Average:
Current Mesaverde Rate Average:

1,330 psi @ 5200' +/-
305 MCFD

Canyon Largo Unit Wells used as reference wells.

* Initial Rate on Vaughn # 31E due to recent recompletion.

Klein / Vaughn Lease Area Gallup Pressure / Production Information

				7-Day ISICP	DATE	Btm Hole Gauge	Most Recent Rate MCFD
KLEIN	28E	26N06W33C	GP	1152	12/28/92	1400*	45

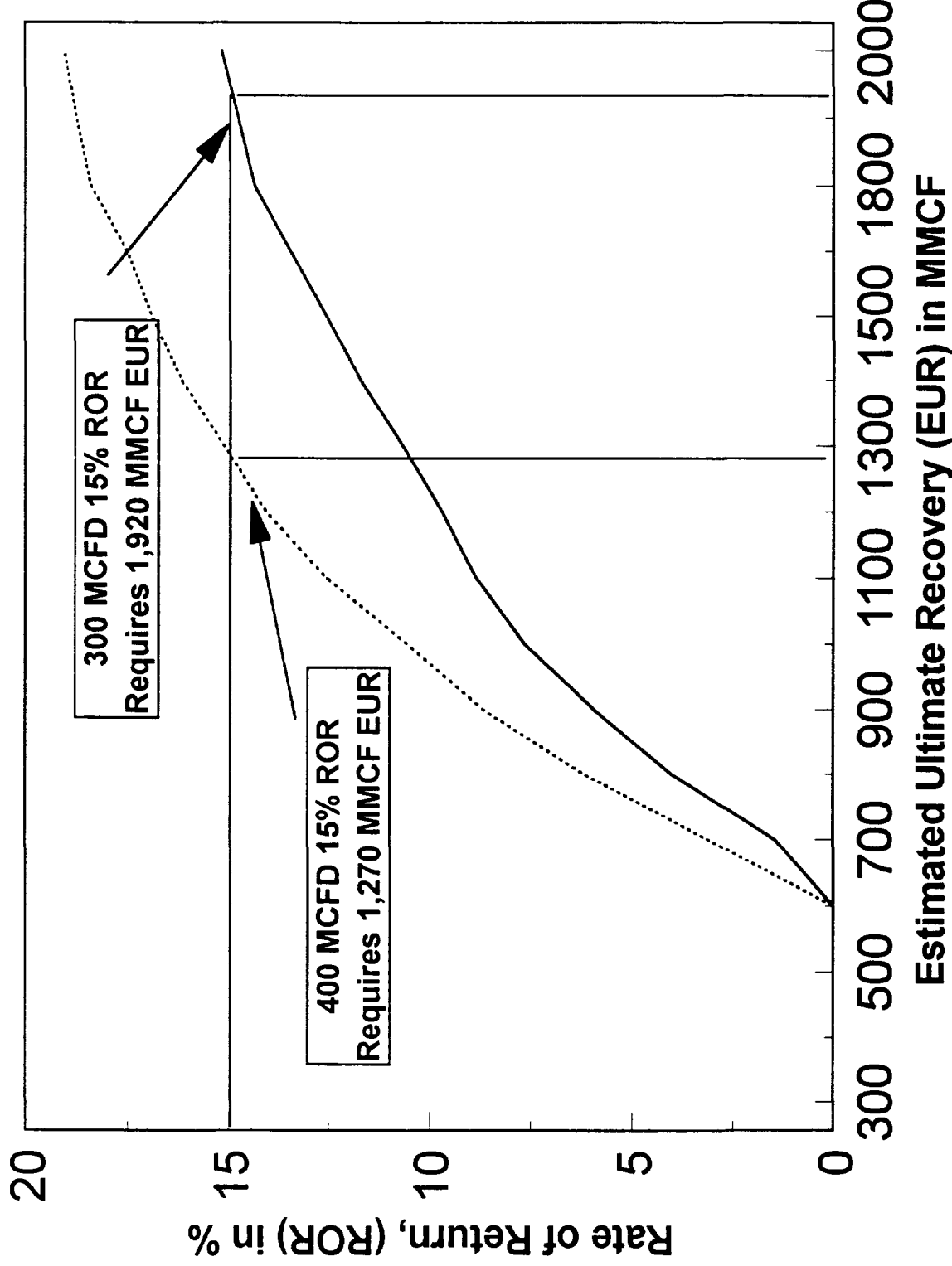
* Initial pressure at 6440'

Pressure Data Adjusted to Common Datum will use 6400' as common datum point, since this is the mid-point of all formations (Gas Gradients taken from surveys):

Dakota:	828 psi	- (7000' - 6400') * 0.02 psi/ft =	816 psi @ 6400'
Gallup:	1,400 psi	- (6440' - 6400') * 0.04 psi/ft =	1,398 psi @ 6400'
Mesaverde:	1,330 psi	- (5200' - 6400') * 0.04 psi/ft =	1,378 psi @ 6400'

Klein / Vaughn Area Dakota Stand Alone New Drill Rate of Return vs EUR

To be used to determine if Dakota is
Economic, or should be commingled.



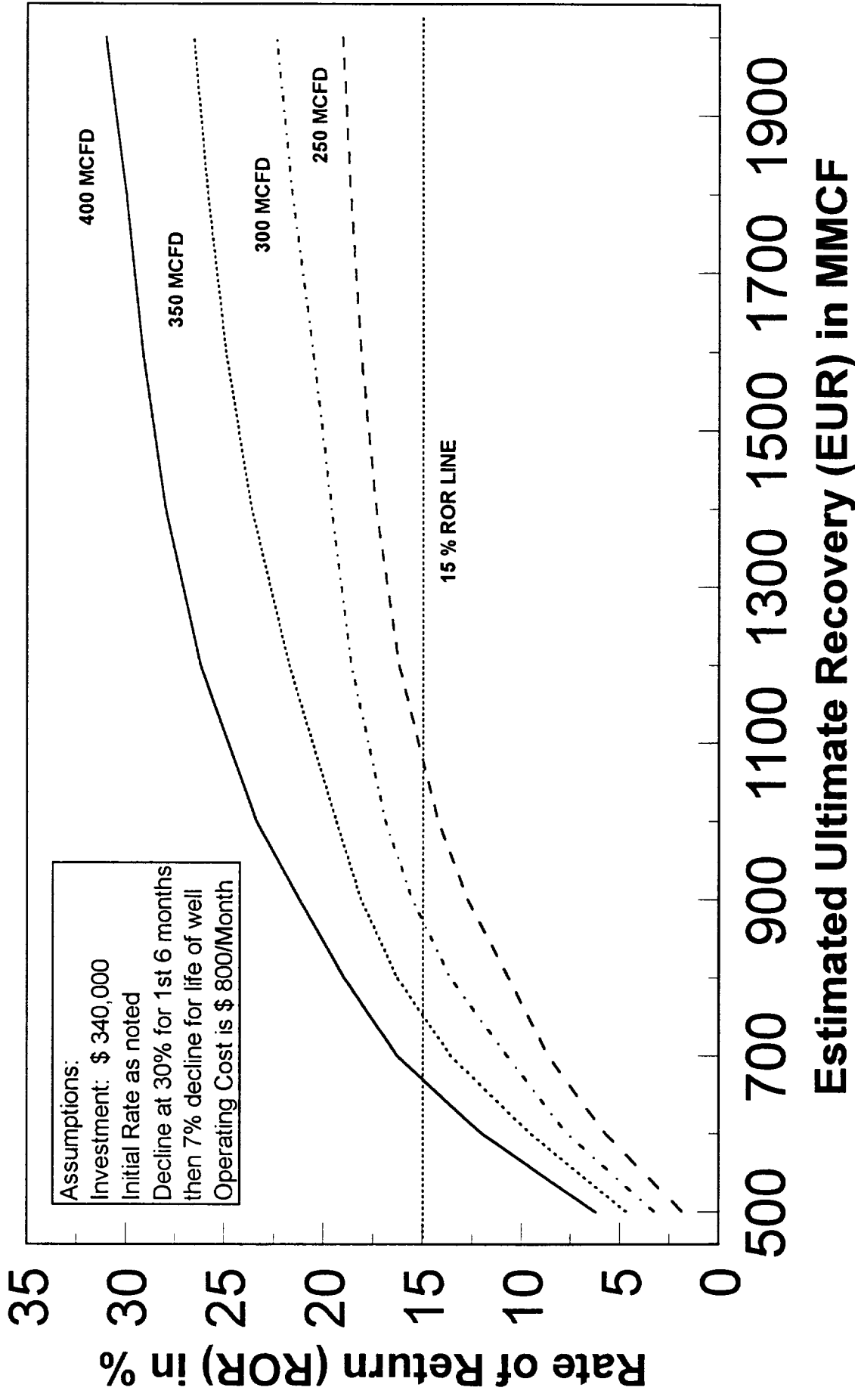
Assumptions:
Investment: \$ 520,000
Initial Rate of 400 MCFD
Decline @ 30% in 6 months
to a stabilized rate of 340 MCFD
Declining at 7% until full reserves
are recovered.
Operational Cost: \$ 800/month

Assumptions:
Investment: \$ 520,000
Initial Rate of 300 MCFD
Decline @ 30% in 6 months
to a stabilized rate of 250 MCFD
Declining at 7% until full reserves
are recovered.
Operational Cost: \$ 800/month

Klein / Vaughn New Drill Dual Completion

Dakota Determination To Commingle

Rate of Return vs EUR



Klein / Vaughn Lease Area Downhole Commingle Information

Downhole Commingle of the Dakota, Gallup, and Mesaverde formations is the only prudent method to maximize recovery of reserves in the project area.

- 1) Ownership & Royalty is common in all three formations.
- 2) Produced fluids from these formations are compatible.
- 3) Bottom-hole pressures are within 50% of the highest pressure zone at a common datum.
- 4) Offset downhole commingle precedence has been set in this area.
- 5) A blanket area wide downhole commingle order will minimize regulatory requirements while protecting correlative rights and maximizing hydrocarbon recovery in the project area.

Klein / Vaughn Lease Area Allocation of Production Examples

- Fixed Percentage Allocation Formula
- Minimum Six (6) Months of Mesaverde Production Data.
- Gallup Production Estimated from wireline log data and flow testing.
- Based upon Two (2) Criteria using reasonable Engineering accuracy.
 - Remaining Reserves of both Gas & Oil
 - Stabilized Production rates of both Gas & Oil each formation.

Vaughn # 12 was Temporarily Abandoned in the Dakota and recompleted in the Mesaverde in July 1993. Almost one full year of production data from the Mesaverde zone exists. This full year of flow data allows for a more accurate determination of the production allocation.

DK Remaining Reserves:	354 MMCF	13 %	2,000 Barrels Oil	10 %
MV Remaining Reserves:	<u>2,215 MMCF</u>	87 %	<u>17,000 Barrels Oil</u>	90 %
	2,569 MMCF		19,000 Barrels Oil	
DK Production Rate:	75 MCFD	12 %	0.25 BOPD	11 %
MV Production Rate:	<u>540 MCFD</u>	88 %	<u>2.00 BOPD</u>	89 %
	615 MCFD		2.25 BOPD	

Therefore the submitted allocation formula for the **Vaughn # 12** wellbore in the Mesaverde and Dakota would be submitted below, and should be accurate to reasonable Engineering standards.

	<u>Gas</u>	<u>Oil</u>
Dakota Allocation Percentage:	13 %	10 %
Mesaverde Allocation Percentage:	87 %	90 %

EXHIBIT 6

Klein / Vaughn Lease Area Allocation of Production Examples

- Fixed Percentage Allocation Formula
- Minimum Six (6) Months of Mesaverde Production Data.
- Gallup Production Estimated from wireline log data and flow testing.
- Based upon Two (2) Criteria using reasonable Engineering accuracy.
 - Remaining Reserves of both Gas & Oil
 - Stabilized Production rates of both Gas & Oil each formation.

Vaughn # 30E was temporarily abandoned in the Dakota and recompleted in the Mesaverde in July 1993. Almost one full year of production data from the Mesaverde zone exists. This full year of flow data allows for a more accurate determination of the production allocation.

DK Remaining Reserves:	750 MMCF	30 %	3,000 Barrels Oil	20 %
MV Remaining Reserves:	1,689 MMCF	70 %	12,000 Barrels Oil	80 %
	2,439 MMCF		15,000 Barrels Oil	
DK Production Rate:	170 MCFD	26 %	1.00 BOPD	22 %
MV Production Rate:	460 MCFD	74 %	3.50 BOPD	78 %
	630 MCFD		4.50 BOPD	

Therefore the submitted allocation formula for the **Vaughn # 30E** wellbore in the Mesaverde and Dakota would be submitted below, and should be accurate to reasonable Engineering standards.

	<u>Gas</u>	<u>Oil</u>
Dakota Allocation Percentage:	30 %	20 %
Mesaverde Allocation Percentage:	70 %	80 %

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

IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION
FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11038

Application of Meridian Oil, Inc. for
Downhole Commingling, Klein/Vaughn
Area, Rio Arriba, New Mexico.

CERTIFICATE OF MAILING
AND
COMPLIANCE WITH ORDER R-8054

W. THOMAS KELLAHIN, attorney in fact and authorized representative of Meridian Oil, Inc., states that the notice provisions of Division Rule 1207 (Order R-8054) have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested parties entitled to receive notice, that on the 28th and 29th day of June 1994, I caused to be sent, by certified mail return receipt requested, notice of this hearing and a copy of the application for the referenced case along with the cover letter, at least twenty days prior to the hearing set for August 18th, 1994, to the parties shown in the application as evidenced by the attached copies of receipt cards, and that pursuant to Division Rule 1207, notice has been given at the correct addresses provided by such rule.

W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me on this 17th day of August 1994.


Notary Public

My Commission Expires: June 15th, 1998

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

CAULKINS OIL CO.
1600 BRADLEY #2100
DENVER, CO 80202

4a. Article Number

P321 036 791

4b. Service Type

☐ Registered ☐ Insured

☒ Certified ☐ COD

☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

7-12-94

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

PS Form 3800, June 1991

P 321 036 791



**Receipt for
Certified Mail**

No Insurance Coverage Provided
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CAULKINS OIL CO.
2100 COLORADO BANK BUILDING
DENVER, CO 80202

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	
MERID/DAKOTA 06/28,29/94	

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

AMOCO PRODUCTION CO.
PO BOX 800
DENVER, CO 80201

4a. Article Number

321 036 797

4b. Service Type

☒ Registered ☐ Insured

☐ Certified ☒ COD

☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

06/28,29/94

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

PS Form 3800, June 1991

P 321 036 797



**Receipt for
Certified Mail**

No Insurance Coverage Provided
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AMOCO PRODUCTION CO.
PO BOX 800
DENVER, CO 80201

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	
MERID/DAKOTA 06/28,29/94	

P 321 036 796

**Receipt for
Certified Mail**

No Insurance Coverage Provided

CENTRAL RESOURCES INC.
1776 LINCOLN ST. STE 1010
DENVER, CO 80203

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

MERID/DAKOTA
06/28.29/94

PS Form 3800, June 1991

Thank you for using Return Receipt Service.

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete item 3.
- Print your name and address on this form so that we can return this card to you.
- Attach this card to the back of the mailpiece if space does not permit.
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MERID/DAKOTA
06/28.29/94

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CENTRAL RESOURCES INC.
1776 LINCOLN ST. STE 1010
DENVER, CO 80203

5. Signature (Addressee)

6. Signature (Agent)

4a. Article Number

321 036 796

4b. Service Type

- ☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

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MERID/DAKOTA
06/28.29/94

- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

MERRION OIL AND GAS CORP.
PO BOX 840
FARMINGTON, NM 87499

5. Signature (Addressee)

6. Signature (Agent)

4a. Article Number

321 036 795

4b. Service Type

- ☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

P 321 036 795

**Receipt for
Certified Mail**

No Insurance Coverage Provided

Do not use for International Mail

MERRION OIL AND GAS CORP.
PO BOX 840
FARMINGTON, NM 87499

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

MERID/DAKOTA
06/28.29/94

PS Form 3800, June 1991

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3 and 4a & b.
- Print your name on this card to return this card to the postmaster.
- Attach this card to the mailpiece below the article number.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

THE WISER OIL CO.
8115 PRESTON ROAD, STE. 400
DALLAS, TX 75225

4a. Article Number
321 036 794

4b. Service Type

<input checked="" type="checkbox"/> Registered	<input type="checkbox"/> Insured
<input type="checkbox"/> Certified	<input type="checkbox"/> COD
<input type="checkbox"/> Express Mail	<input checked="" type="checkbox"/> Return Receipt for Merchandise

7. Date of Delivery
JUL 01 1994

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

P 321 036 794

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail

THE WISER OIL CO.
8115 PRESTON ROAD, STE. 400
DALLAS, TX 75225

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

MERID/DAKOTA
06/28.29/94

PS Form 3800, June 1991

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3 and 4a & b.
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- Attach this card to the mailpiece below the article number.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

AG HILL
5000 THANKSGIVING TOWER
DALLAS, TX 75201

4a. Article Number
321 036 793

4b. Service Type

<input checked="" type="checkbox"/> Registered	<input type="checkbox"/> Insured
<input type="checkbox"/> Certified	<input type="checkbox"/> COD
<input type="checkbox"/> Express Mail	<input checked="" type="checkbox"/> Return Receipt for Merchandise

7. Date of Delivery
JUL 05 1994

5. Signature (Addressee)

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

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Receipt for Certified Mail
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AG HILL
5000 THANKSGIVING TOWER
DALLAS, TX 75201

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

MERID/DAKOTA
06/28,29/94

P 321 036 792

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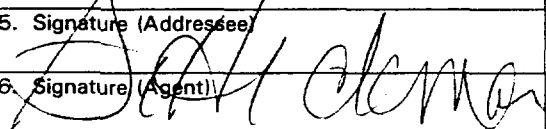
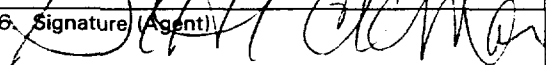
VASTAR RESOURCES, INC.
15375 MEMORIAL DRIVE
HOUSTON, TEXAS 77079

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark Date	

PS Form 3800, June 1991

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06/28.29/94

Thank you for using Return Receipt Service.

SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3. and 4a & b. • Print your name and address on this form so that we can return this card to you, or on the back if space does not permit. • Attach this form to the mailpiece below the article number. • The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: VASTAR RESOURCES, INC. 15375 MEMORIAL DRIVE HOUSTON, TEXAS 77079		4a. Article Number 321 036 792	
5. Signature (Addressee) 		4b. Service Type <input checked="" type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input checked="" type="checkbox"/> Return Receipt for Merchandise	
6. Signature (Agent) 		7. Date of Delivery JUL 01 1994	
		8. Addressee's Address (Only if requested and fee is paid)	

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DOMESTIC RETURN RECEIPT

P 321 036 790

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No Insurance Coverage Provided

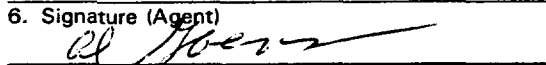
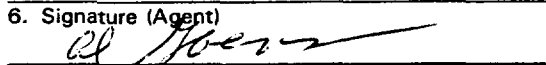
TEXACO EXPLORATION &
PRODUCTION INC.
PO BOX 2100
DENVER, CO 80237

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark Date	

PS Form 3800, June 1991

MERID/DAKOTA
06/28,29/94

Thank you for using Return Receipt Service.

SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3. and 4a & b. • Print your name and address on this form so that we can return this card to you, or on the back if space does not permit. • Attach this form to the mailpiece below the article number. • The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: TEXACO EXPLORATION & PRODUCTION INC. PO BOX 2100 DENVER, CO 80237		4a. Article Number 321 036 790	
5. Signature (Addressee) 		4b. Service Type <input checked="" type="checkbox"/> Registered <input type="checkbox"/> Insured <input type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input checked="" type="checkbox"/> Return Receipt for Merchandise	
6. Signature (Agent) 		7. Date of Delivery 7-1-94	
		8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

Is your RETURN ADDRESS completed on the reverse side?

P 321 036 789

**Receipt for
Certified Mail**No Insurance Coverage Provided
Postage and Fees for International Mail

THE BEAMON GROUP
PATTIE BEAMON LUNDELL
 1616 S. VOSS #870
 HOUSTON, TX 77057

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark	

MERID/DAKOTA
06/28.29/94

PS Form 3800, June 1991

SENDER:

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1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

THE BEAMON GROUP
PATTIE BEAMON LUNDELL
 1616 S. VOSS #870
 HOUSTON, TX 77057

4a. Article Number
321 036 789

4b. Service Type

☒ Registered ☐ Insured

☐ Certified ☐ COD

☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)
Walt Lundell

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

P 321 036 787

**Receipt for
Certified Mail**No Insurance Coverage Provided
Postage and Fees for International Mail

ARCO OIL AND GAS
 PO BOX 1610
 MIDLAND, TEXAS 79702

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

MERID/DAKOTA
06/28,29/94

PS Form 3800, June 1991

SENDER:

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

ARCO OIL AND GAS
 PO BOX 1610
 MIDLAND, TEXAS 79702

4a. Article Number
321 036 787

4b. Service Type

☒ Registered ☐ Insured

☐ Certified ☐ COD

☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
JUL - 1 1994

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)
Walt Lundell

6. Signature (Agent)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- ☐ C
- ☐ P *merid/Dakota* this form so that we can
- ☐ A *6/28, 29/94* or on the back if space
- ☐ doe
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

CONOCO INC.
10 DESTA DRIVE, STE. 100W
MIDLAND TX. 79705
ATTN: JERRY HOOVER

4a. Article Number
321 036 788

4b. Service Type
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
JUL - 5 1994

5. Signature (Addressee)

6. Signature (Agent)
[Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

PS Form 3800, June 1991

P 321 036 788



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

CONOCO INC.
10 DESTA DRIVE, STE 100W
MIDLAND, TEXAS 79705
ATTN: JERRY HOOVER

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark	

MERID/DAKOTA
06/28.29/94

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your return this *merid/Dakota* form so that we can
- Attach this *6/28, 29/94* the back if space
- Write "Ret" below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

RANDALL T. JOHNSON,
TRUSTEE
Sheryl A. Lundell, Revocable Trust
430 MEADOW RIDGE DRIVE
KERRVILLE, TX 78028-3825

4a. Article Number
321 036 785

4b. Service Type
☒ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
7/5/94

5. Signature (Addressee)
[Signature]

6. Signature (Agent)
[Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 U.S. GPO: 1993-352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

PS Form 3800, June 1991

P 321 036 785



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

RANDALL T. JOHNSON,
TRUSTEE
Sheryl A. Lundell, Revocable Trust
430 MEADOW RIDGE DRIVE
KERRVILLE, TX 78028-3825

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

MERID/DAKOTA
06/28,29/94