

CAMPBELL, CARR, BERGE

& SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
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BRADFORD C. BERGE
MARK F. SHERIDAN
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MICHAEL H. FELDEWERT

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OF COUNSEL

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POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-4421

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January 24, 1992

HAND-DELIVERED

Mr. Michael E. Stogner
Chief Hearing Officer
New Mexico Oil Conservation Division
Department of Energy, Minerals
and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

RECEIVED
JAN 24 1992
OIL CONSERVATION DIVISION

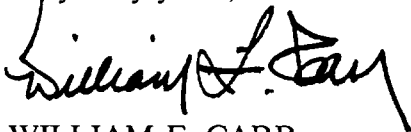
Re: New Mexico Oil Conservation Case No. 10420
Application of Union Oil Company of California d/b/a Unocal for
Designation of a Tight Formation, Rio Arriba County, New Mexico

Dear Mr. Stogner:

Pursuant to your request of December 20, 1991, I am enclosing for your consideration the proposed Order of Union Oil Company of California d/b/a Unocal in the above-referenced case.

If you need anything further from Unocal concerning this case, please advise.

Very truly yours,



WILLIAM F. CARR

WFC:mlh

Enclosure

cc w/enc.: Mr. George Bennett
Mr. Martin Volk
Dennis Grindinger, Esq.

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. 10420
Order No. R- _____

APPLICATION OF UNION OIL COMPANY OF
CALIFORNIA d/b/a UNOCAL
FOR DESIGNATION OF A TIGHT FORMATION,
RIO ARRIBA COUNTY, NEW MEXICO.

UNION OIL COMPANY OF CALIFORNIA d/b/a UNOCAL'S PROPOSED
ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9:00 a.m. on December 20, 1991, at Albuquerque, New Mexico, before Examiner Michael E. Stogner.

NOW, on this _____ day of January, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Union Oil Company of California d/b/a Unocal ("Unocal"), requests that the Division recommend to the Federal Energy Regulatory Commission (FERC) that the Dakota formation underlying the following lands be designated as a "tight formation" in accordance with Section 107 of the Natural Gas Policy Act, FERC Regulations in Title 18 CFR Section 271.703 and Oil Conservation Division Order No. R-6388-A:

Township 26 North, Range 6 West, N.M.P.M.

Section 6: All

Township 26 North, Range 7 West, N.M.P.M.

Sections 1 and 2: All

Sections 11 and 12: All

Township 27 North, Range 6 West, N.M.P.M.

Sections 16 through 23: All

Sections 26 through 32: All

Township 27 North, Range 7 West, N.M.P.M.

Sections 13 and 14: All

Section 15: E/2

Section 22: E/2

Sections 23 through 26: All

Section 27: NE/4 S/2

Section 28: S/2

Sections 33 through 36: All

(3) The proposed "tight formation" area contains 20,642.7 acres, more or less, of federal, state and fee lands, and includes portions of the Basin-Dakota Pool. The boundaries of the proposed area are the same as the outer boundary of the Unocal operated Rincon Unit, a Federal Unit, and the area should be designated as the "Rincon Tight Formation Area" ("Rincon Area"). The Rincon Area is located in Rio Arriba County, New Mexico, approximately 22 miles east/southeast of Blanco, New Mexico.

(4) The type log presented by the applicant to represent the Dakota formation in the Rincon Area is the Gamma Ray - Sonic Log run on the El Paso Natural Gas Company Rincon Unit No. 130 MD Well located 990 feet from the North and East lines (Unit A) of Section 32, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico.

(5) The type log, submitted as Unocal's Exhibit No. 4-A, shows the Dakota producing interval in the Rincon Area includes the Dakota formation and the Graneros formation and all correlable units therein ("Dakota Producing Interval"). Based on Unocal's testimony, the vertical limits of the Dakota Producing Interval in the Rincon Area should include the entire interval found to occur from 7,360 feet to 7,661 feet on this type log.

(6) Unocal included a geological description of the Dakota formation in its application and its geological witness reviewed this description at the hearing. A summary of the geological information is as follows:

The Dakota Producing Interval in the Rincon Area consists of a variety of marine and non-marine sandstones and mud rocks which span a geologic interval with gross thickness ranging from 240 feet to 328 feet with an average gross thickness of approximately 265 feet.

The Dakota Producing Interval in the Rincon Area is located in the east-central San Juan Basin and dips gently (monoclinally) to the northeast with an average structural gradient of approximately 66 feet per mile. The depth to the top of the Dakota Producing Interval ranges from 7,008 to 7,586 feet and averages 7,347 feet.

Within the Rincon Area, the Dakota formation is subdivided into five intervals (A through F) and the Graneros into five subunits (the Shale Interval, A1 Interval, A2 Interval, X Marker and B Interval). The Dakota Producing Interval is composed of interbedded sandstones and shales with the sandstone intervals constituting the primary reservoir flow units and the shales forming flow barriers to gas migration. The net sand values in these flow units range from 60 to 110 feet and average 80 feet. They are found in a complex pattern, which is indicative of the stratigraphic variability of the component sandstone units. In general, the net sand values increase from west to east across the Rincon Area.

There is stratigraphic continuity of the major Dakota and Graneros subunits across the Rincon Area. The two main reservoir flow units are the Graneros A1 Interval and the Dakota A Interval. The Dakota A Interval is the most persistent subunit and shows only minor thickness variations. The Graneros A1 Interval also shows good persistence, however, its thickness varies considerably. The Graneros A1 Interval is thickest in the central part of the Rincon Area, but thin on the eastern and western edges.

(7) Unocal's witnesses testified that average in situ gas permeability for the Rincon Area is less than 0.1 millidarcys (md) and presented testimony and exhibits concerning several methods for determining average in situ permeability (Findings 9, 10 and 11 below). Laboratory measurement of cores was utilized with a correction applied to these results to adjust the laboratory air permeability data to in situ values. Well performance analyses and pressure build up analysis were also used to back out permeability values utilizing fluid flow equations and the results of these analyses confirmed the validity of the core data which demonstrated the average in situ permeability for the Dakota Producing Interval in the Rincon Area be less than 0.1 millidarcys.

(8) Core-plug petrophysical data from five wells in the Rincon Area provide the most direct method for determination of permeability. Standard petrophysical data showing horizontal porosity and permeability are available for all cores. Measured permeabilities were corrected using industry accepted methodology defined by Jones and Owens which relate laboratory measured air permeability of dry, unstressed core samples to reservoir conditions. The average measured core permeability and corrected permeability on a gross or net basis are all less than 0.1 md and the permeability appears to be randomly distributed across the Rincon Area with no natural fractures of significance.

(9) Applicant presented testimony and exhibits to explain Rincon Area permeability calculations based on well performance. Eight wells were modeled using Darcy calculations and an average permeability value of 0.0435 md was obtained. This result agreed with and confirmed core data.

(10) Two pressure build-up tests were conducted in the Rincon Area utilizing a Finite Conductivity Type Curve Analyses method. These tests resulted in average drainage area permeabilities to gas of 0.043 md (Rincon 184 Well) and 0.046 md (Rincon 137 Well) which agreed with and confirmed core and Darcy calculations.

(11) To show that unstimulated producing rates for Rincon Area wells are not expected to exceed FERC "tight formation" limits (5 BOPD and 290 MCFPD), Unocal presented actual pre stimulation flow data and also calculated permeability data for the Rincon Area. Applicant presented testimony and exhibits to explain how, applying Darcy's law, the average pre stimulation stabilized production rate at atmospheric pressure, or calculated against atmospheric pressure, in the Rincon Area was determined to be 130 MCFPD.

(12) Applicant's witness testified, based on the maximum observed historic oil/gas production ratios for wells in the area, that wells in the Rincon Area are expected to produce without stimulation approximately 2.1 BOPD and that the wells in the Rincon Area should produce no more than 5 BOPD.

(13) That within the proposed Rincon Area, the deepest known fresh water zone is the Ojo Alamo which is found at an average depth of approximately 2,500 feet or approximately 4,500 feet above the Dakota Producing Interval.

(14) That existing State of New Mexico and Federal regulations relating to casing, and cementing wells, will assure the development of the Dakota Producing Interval will not adversely affect said aquifer.

(15) That the portion of the Dakota formation described herein is current authorized for development by infill drilling as defined in 18 CFR, Section 271.703(b)(6) of the Regulations.

(16) That only one infill well has been drilled within the area proposed for tight formation designation since 1986.

(17) That while the Dakota formation has been extensively drilled and infill developed in other portions of the Basin-Dakota Pool, development in the proposed Rincon Area has been minimal.

(18) That development of the proposed "tight formation" area has been inhibited by the poor quality of the Dakota pay and the poor prospect of commercial production therein.

(19) That the Dakota Producing Interval in the Rincon Area which is proposed for tight formation designation cannot be reasonably developed absent the incentive established in 18 CFR, Section 271.703(a).

(20) Based on evidence and testimony submitted by the applicant, the Dakota Producing Interval within the vertical intervals described in Findings Nos. 4 and 5, underlie the area described in Finding No. 2, meet the criteria set forth in FERC Regulations in Title 18 CFR, Section 271.703 and should be recommended for designation as a "tight formation".

IT IS THEREFORE ORDERED THAT:

(1) A recommendation to the Federal Energy Regulatory Commission is hereby submitted pursuant to Section 107 of the Natural Gas Policy Act of 1978 and FERC Regulations in Title 18 CFR, Section 271.703, and that the Dakota Producing Interval (Dakota and Graneros formations) within the vertical limits described in Findings (4) and (5) of this order, underlying the following described lands, be designated as a "tight formation".

Township 26 North, Range 6 West, N.M.P.M.

Section 6: All

Township 26 North, Range 7 West, N.M.P.M.

Sections 1 and 2: All

Sections 11 and 12: All

Township 27 North, Range 6 West, N.M.P.M.

Sections 16 through 23: All

Sections 26 through 32: All

Township 27 North, Range 7 West, N.M.P.M.

Sections 13 and 14: All

Section 15: E/2

Section 22: E/2

Sections 23 through 26: All

Section 27: NE/4 S/2

Section 28: S/2

Sections 33 through 36: All

The above lands contain 20,642.7 acres, more or less and are to be designated the Rincon Tight Formation Area.

(2) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

Case No. 10420
Order No. R- _____
Page 7

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LeMAY
Director

S E A L

CAMPBELL, CARR, BERGE
& SHERIDAN, P.A.
LAWYERS

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TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

February 12, 1992

HAND-DELIVERED

Mr. Michael E. Stogner
Hearing Officer
New Mexico Oil Conservation Division
Department of Energy, Minerals
and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

RECEIVED

FEB 12 1992

OIL CONSERVATION DIV.
SANTA FE

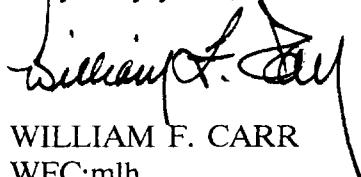
Re: Case No. 10420
Application of Union Oil Company of California d/b/a UNOCAL for
Designation of a Tight Formation, Rio Arriba County, New Mexico

Dear Mr. Stogner:

Pursuant to your request at the December 20, 1991 Examiner hearing in the above-referenced case, I am enclosing Union Oil Company of California d/b/a UNOCAL's proposed Order for your consideration.

If you need anything further from Union Oil Company of California d/b/a UNOCAL to proceed with this matter, please advise.

Very truly yours,



WILLIAM F. CARR

WFC:mlh

Enclosure

cc w/enc: Mr. George Bennett
Union Oil Company of California d/b/a UNOCAL
Post Office Box 3100
Midland, Texas 79701

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

RECEIVED

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

FEB 12 1992
OIL CONSERVATION DIV.
SANTA FE

Case No. 10420
Order No. R-_____

APPLICATION OF UNION OIL COMPANY OF
CALIFORNIA d/b/a UNOCAL
FOR DESIGNATION OF A TIGHT FORMATION,
RIO ARriba COUNTY, NEW MEXICO.

**UNION OIL COMPANY OF CALIFORNIA d/b/a UNOCAL'S PROPOSED
ORDER OF THE DIVISION**

BY THE DIVISION:

This cause came on for hearing at 9:00 a.m. on December 20, 1991, at Albuquerque, New Mexico, before Examiner Michael E. Stogner.

NOW, on this ____ day of January, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Union Oil Company of California d/b/a Unocal ("Unocal"), requests that the Division recommend to the Federal Energy Regulatory Commission (FERC) that the Dakota formation underlying the following lands be designated as a "tight formation" in accordance with Section 107 of the Natural Gas Policy Act, FERC Regulations in Title 18 CFR Section 271.703 and Oil Conservation Division Order No. R-6388-A:

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Section 6: All

Township 26 North, Range 7 West, N.M.P.M.

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Sections 11 and 12: All

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Section 28: S/2
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(3) The proposed "tight formation" area contains 20,642.7 acres, more or less, of federal, state and fee lands, and includes portions of the Basin-Dakota Pool. The boundaries of the proposed area are the same as the outer boundary of the Unocal operated Rincon Unit, a Federal Unit, and the area should be designated as the "Rincon Tight Formation Area" ("Rincon Area"). The Rincon Area is located in Rio Arriba County, New Mexico, approximately 22 miles east/southeast of Blanco, New Mexico.

(4) The type log presented by the applicant to represent the Dakota formation in the Rincon Area is the Gamma Ray - Sonic Log run on the El Paso Natural Gas Company Rincon Unit No. 130 MD Well located 990 feet from the North and East lines (Unit A) of Section 32, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico.

(5) The type log, submitted as Unocal's Exhibit No. 4-A, shows the Dakota producing interval in the Rincon Area includes the Dakota formation and the Graneros formation and all correlable units therein ("Dakota Producing Interval"). Based on Unocal's testimony, the vertical limits of the Dakota Producing Interval in the Rincon Area should include the entire interval found to occur from 7,360 feet to 7,661 feet on this type log.

(6) Unocal included a geological description of the Dakota formation in its application and its geological witness reviewed this description at the hearing. A summary of the geological information is as follows:

The Dakota Producing Interval in the Rincon Area consists of a variety of marine and non-marine sandstones and mud rocks which span a geologic interval with gross thickness ranging from 240 feet to 328 feet with an average gross thickness of approximately 265 feet.

The Dakota Producing Interval in the Rincon Area is located in the east-central San Juan Basin and dips gently (monoclinal) to the northeast with an average structural gradient of approximately 66 feet per mile. The depth to the top of the Dakota Producing Interval ranges from 7,008 to 7,586 feet and averages 7,347 feet.

Within the Rincon Area, the Dakota formation is subdivided into five intervals (A through F) and the Graneros into five subunits (the Shale Interval, A1 Interval, A2 Interval, X Marker and B Interval). The Dakota Producing Interval is composed of interbedded sandstones and shales with the sandstone intervals constituting the primary reservoir flow units and the shales forming flow barriers to gas migration. The net sand values in these flow units range from 60 to 110 feet and average 80 feet. They are found in a complex pattern, which is indicative of the stratigraphic variability of the component sandstone units. In general, the net sand values increase from west to east across the Rincon Area.

There is stratigraphic continuity of the major Dakota and Graneros subunits across the Rincon Area. The two main reservoir flow units are the Graneros A1 Interval and the Dakota A Interval. The Dakota A Interval is the most persistent subunit and shows only minor thickness variations. The Graneros A1 Interval also shows good persistence, however, its thickness varies considerably. The Graneros A1 Interval is thickest in the central part of the Rincon Area, but thin on the eastern and western edges.

(7) Unocal's witnesses testified that average in situ gas permeability for the Rincon Area is less than 0.1 millidarcys (md) and presented testimony and exhibits concerning several methods for determining average in situ permeability (Findings 9, 10 and 11 below). Laboratory measurement of cores was utilized with a correction applied to these results to adjust the laboratory air permeability data to in situ values. Well performance analyses and pressure build up analysis were also used to back out permeability values utilizing fluid flow equations and the results of these analyses confirmed the validity of the core data which demonstrated the average in situ permeability for the Dakota Producing Interval in the Rincon Area be less than 0.1 millidarcys.

(8) Core-plug petrophysical data from five wells in the Rincon Area provide the most direct method for determination of permeability. Standard petrophysical data showing horizontal porosity and permeability are available for all cores. Measured permeabilities were corrected using industry accepted methodology defined by Jones and Owens which relate laboratory measured air permeability of dry, unstressed core samples to reservoir conditions. The average measured core permeability and corrected permeability on a gross or net basis are all less than 0.1 md and the permeability appears to be randomly distributed across the Rincon Area with no natural fractures of significance.

(9) Applicant presented testimony and exhibits to explain Rincon Area permeability calculations based on well performance. Eight wells were modeled using Darcy calculations and an average permeability value of 0.0435 md was obtained. This result agreed with and confirmed core data.

(10) Two pressure build-up tests were conducted in the Rincon Area utilizing a Finite Conductivity Type Curve Analyses method. These tests resulted in average drainage area permeabilities to gas of 0.043 md (Rincon 184 Well) and 0.046 md (Rincon 137 Well) which agreed with and confirmed core and Darcy calculations.

(11) To show that unstimulated producing rates for Rincon Area wells are not expected to exceed FERC "tight formation" limits (5 BOPD and 290 MCFPD), Unocal presented actual pre stimulation flow data and also calculated permeability data for the Rincon Area. Applicant presented testimony and exhibits to explain how, applying Darcy's law, the average pre stimulation stabilized production rate at atmospheric pressure, or calculated against atmospheric pressure, in the Rincon Area was determined to be 130 MCFPD.

(12) Applicant's witness testified, based on the maximum observed historic oil/gas production ratios for wells in the area, that wells in the Rincon Area are expected to produce without stimulation approximately 2.1 BOPD and that the wells in the Rincon Area should produce no more than 5 BOPD.

(13) That within the proposed Rincon Area, the deepest known fresh water zone is the Ojo Alamo which is found at an average depth of approximately 2,500 feet or approximately 4,500 feet above the Dakota Producing Interval.

(14) That existing State of New Mexico and Federal regulations relating to casing, and cementing wells, will assure the development of the Dakota Producing Interval will not adversely affect said aquifer.

(15) That the portion of the Dakota formation described herein is within the exterior boundary of a Federal Unit, and the drilling of wells on 160-acre spacing in accordance with Division rules will allow the efficient recovery of gas from the tight formation which could otherwise not be recovered.

(16) That only one well has been drilled within the area proposed for tight formation designation since 1986.

(17) That development of the proposed "tight formation" area has been inhibited by the poor quality of the Dakota pay and the poor prospect of commercial production therein and approval of this application will allow the exploitation of the portion of the tight formation not previously developed or produced.

(18) That the Dakota Producing Interval in the Rincon Area which is proposed for tight formation designation cannot be reasonably developed absent the incentive established in 18 CFR, Section 271.703(a).

(19) Based on evidence and testimony submitted by the applicant, the Dakota Producing Interval within the vertical intervals described in Findings Nos. 4 and 5, underlie the area described in Finding No. 2, meet the criteria set forth in FERC Regulations in Title 18 CFR, Section 271.703 and should be recommended for designation as a "tight formation".

IT IS THEREFORE ORDERED THAT:

(1) A recommendation to the Federal Energy Regulatory Commission is hereby submitted pursuant to Section 107 of the Natural Gas Policy Act of 1978 and FERC Regulations in Title 18 CFR, Section 271.703, and that the Dakota Producing Interval (Dakota and Graneros formations) within the vertical limits described in Findings (4) and (5) of this order, underlying the following described lands, be designated as a "tight formation".

Township 26 North, Range 6 West, N.M.P.M.

Section 6: All

Township 26 North, Range 7 West, N.M.P.M.

Sections 1 and 2: All

Sections 11 and 12: All

Township 27 North, Range 6 West, N.M.P.M.

Sections 16 through 23: All

Sections 26 through 32: All

Township 27 North, Range 7 West, N.M.P.M.

Sections 13 and 14: All

Section 15: E/2

Section 22: E/2

Sections 23 through 26: All

Section 27: NE/4 S/2

Section 28: S/2

Sections 33 through 36: All

The above lands contain 20,642.7 acres, more or less and are to be designated the Rincon Tight Formation Area.

(2) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

Case No. 10420
Order No. R-_____
Page 7

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LeMAY
Director

S E A L

CAMPBELL, CARR, BERGE
& SHERIDAN, P.A.
LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY

ANNIE-LAURIE COOGAN
PATRICIA A. MATTHEWS
MICHAEL H. FELDEWERT

JACK M. CAMPBELL
OF COUNSEL

JEFFERSON PLACE
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TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

October 29, 1991

HAND-DELIVERED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

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OCT 29 1991

OIL CONSERVATION DIV.
SANTA FE

10420

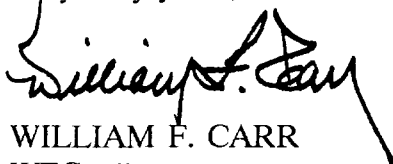
Re: Application of Union Oil Company of California d/b/a UNOCAL for
Designation of a Tight Formation, Rio Arriba County, New Mexico

Application of Union Oil Company of California d/b/a UNOCAL for
Designation of a Tight Formation, Rio Arriba County, New Mexico

Dear Mr. LeMay:

Enclosed in triplicate are the Applications of Union Oil Company of California d/b/a Unocal in the above-referenced cases. Union Oil Company of California d/b/a Unocal respectfully requests that these matters be placed on the docket for the November 21, 1991 Examiner hearings.

Very truly yours,



WILLIAM F. CARR

WFC:mlh

Enclosures

cc w/enclosures: Mr. Allen F. Buckingham
BLM

Mr. Bill Irwin
Union Oil Company of California

RECEIVED

BEFORE THE

OIL CONSERVATION DIVISION

OCT 29 1991

NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIV.
SANDOZ

IN THE MATTER OF THE APPLICATION
OF UNION OIL COMPANY OF CALIFORNIA
d/b/a UNOCAL, FOR DESIGNATION
OF A TIGHT FORMATION,
RIO ARRIBA COUNTY, NEW MEXICO.

CASE NO. 10420

APPLICATION

COMES NOW UNION OIL COMPANY OF CALIFORNIA d/b/a UNOCAL, through its undersigned attorneys, and as provided in the Oil Conservation Division's Special Rules and Procedures for Tight Formation Designation under Section 107 of the Natural Gas Policy Act of 1978 promulgated by Oil Conservation Division Order No. R-6388 on June 30, 1980, hereby makes application for an order designating certain portions of the Dakota formation (Basin-Dakota Field) as a tight formation under Section 107 of the Natural Gas Policy Act of 1978 and in support of its application would show the Division:

1. Applicant is the owner and operator of certain interests in the Dakota formation (Basin-Dakota Field) underlying the following described lands situated in Rio Arriba County, New Mexico:

Township 26 North, Range 6 West, N.M.P.M.

Section 6: All

Township 26 North, Range 7 West, N.M.P.M.

Sections 1 and 2: All
Sections 11 and 12: All

Township 27 North, Range 6 West, N.M.P.M.

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Sections 13 and 14: All

Section 15: E/2

Section 22: E/2

Sections 23 through 26: All

Section 27: NE/4 S/2

Section 28: S/2

Sections 33 through 36: All

containing a total of 20,642.7 acres, more or less of federal, state and fee lands.

2. The Mesaverde formation is expected to have an estimated average in situ gas permeability throughout the pay section of less than 0.1 millidarcy per foot.

3. The average depth of the top of the Mesaverde formation is 4700 feet, and the stabilized production rate, against atmospheric pressure, of wells completed for production in said formations without stimulation, is not expected to exceed 141 mcf of gas per day and 290 mcf of gas per day respectively.

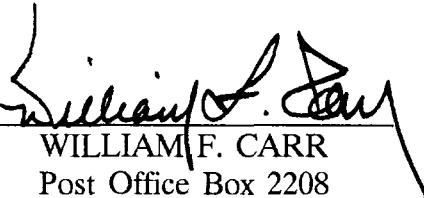
4. No well drilled into the Mesaverde formation in the above-described area is expected to produce, without stimulation, more than five barrels of crude oil per day.

WHEREFORE, Union Oil Company of California d/b/a Unocal requests that this application be set for hearing before a duly appointed Examiner of the Oil Conservation Division on November 21, 1991, and that, after notice and hearing as required by law, the Division enter its order recommending to the Federal Energy Regulatory Commission that pursuant to 18 CFR, Section 271.701 - 705 that the Mesaverde formation underlying the above-described land be designated as a tight formation, and making such other and

further provisions as may be proper in the premises.

Respectfully submitted,

CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

By: 
WILLIAM F. CARR
Post Office Box 2208
Santa Fe, New Mexico 87504
Telephone: (505) 988-4421

ATTORNEYS FOR UNION OIL
COMPANY OF CALIFORNIA
d/b/a UNOCAL

CAMPBELL, CARR, BERGE

& SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
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ANNIE-LAURIE COOGAN
PATRICIA A. MATTHEWS
MICHAEL H. FELDEWERT

JACK M. CAMPBELL
OF COUNSEL

JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

November 12, 1991

HAND-DELIVERED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

RECEIVED

NOV 12 1991

OIL CONSERVATION DIV.
SANTA FE

10420

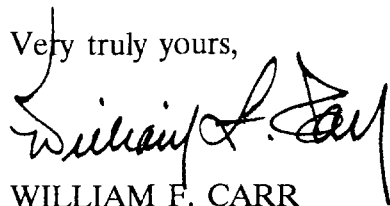
Re: Amended Application of Union Oil Company of California d/b/a UNOCAL
for Designation of a Tight Formation, Rio Arriba County, New Mexico

Amended Application of Union Oil Company of California d/b/a UNOCAL
for Designation of a Tight Formation, Rio Arriba County, New Mexico

Dear Mr. LeMay:

Enclosed in triplicate are the Applications of Union Oil Company of California d/b/a Unocal in the above-referenced cases. Union Oil Company of California d/b/a Unocal respectfully requests that these matters be placed on the docket for the December 5, 1991 Examiner hearings.

Very truly yours,



WILLIAM F. CARR

WFC:mlh

Enclosures

cc w/enclosures: Mr. Allen F. Buckingham
BLM

Mr. Bill Irwin
Union Oil Company of California

RECEIVED

BEFORE THE

NOV 12 1991

OIL CONSERVATION DIVISION

OIL CONSERVATION DIV.
SANTA FE

NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES

IN THE MATTER OF THE APPLICATION
OF UNION OIL COMPANY OF CALIFORNIA
d/b/a UNOCAL, FOR DESIGNATION
OF A TIGHT FORMATION,
RIO ARRIBA COUNTY, NEW MEXICO.

CASE NO. 10420

AMENDED APPLICATION

COMES NOW UNION OIL COMPANY OF CALIFORNIA d/b/a UNOCAL, through its undersigned attorneys, and as provided in the Oil Conservation Division's Special Rules and Procedures for Tight Formation Designation under Section 107 of the Natural Gas Policy Act of 1978 promulgated by Oil Conservation Division Order No. R-6388 on June 30, 1980, hereby makes application for an order designating certain portions of the Dakota formation (Basin-Dakota Field) as a tight formation under Section 107 of the Natural Gas Policy Act of 1978 and in support of its application would show the Division:

1. Applicant is the owner and operator of certain interests in the Dakota formation (Basin-Dakota Field) underlying the following described lands situated in Rio Arriba County, New Mexico:

Township 26 North, Range 6 West, N.M.P.M.

Section 6: All

Township 26 North, Range 7 West, N.M.P.M.

Sections 1 and 2: All

Sections 11 and 12: All

Township 27 North, Range 6 West, N.M.P.M.

Sections 16 through 23: All

Sections 26 through 32: All

Township 27 North, Range 7 West, N.M.P.M.

Sections 13 and 14: All

Section 15: E/2

Section 22: E/2

Sections 23 through 26: All

Section 27: NE/4 S/2

Section 28: S/2

Sections 33 through 36: All

containing a total of 20,642.7 acres, more or less of federal, state and fee lands.

2. The Dakota formation is expected to have an estimated average in situ gas permeability throughout the pay section of less than 0.1 millidarcy per foot.

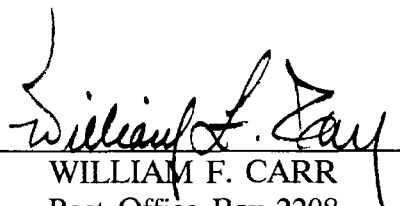
3. The average depth of the top of the Dakota formation is 7350 feet, and the stabilized production rate, against atmospheric pressure, of wells completed for production in said formations without stimulation, is not expected to exceed 141 mcf of gas per day.

4. No well drilled into the Dakota formation in the above-described area is expected to produce, without stimulation, more than five barrels of crude oil per day.

WHEREFORE, Union Oil Company of California d/b/a Unocal requests that this application be set for hearing before a duly appointed Examiner of the Oil Conservation Division on December 5, 1991, and that, after notice and hearing as required by law, the Division enter its order recommending to the Federal Energy Regulatory Commission that pursuant to 18 CFR, Section 271.701 - 705 that the Dakota formation underlying the above-described land be designated as a tight formation, and making such other and further provisions as may be proper in the premises.

Respectfully submitted,

CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

By: 

WILLIAM F. CARR

Post Office Box 2208

Santa Fe, New Mexico 87504

Telephone: (505) 988-4421

ATTORNEYS FOR UNION OIL
COMPANY OF CALIFORNIA
d/b/a UNOCAL

CAMPBELL, CARR, BERGE
& SHERIDAN, P.A.
LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY

ANNIE-LAURIE COOGAN
PATRICIA A. MATTHEWS
MICHAEL H. FELDEWERT

JACK M. CAMPBELL
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November 26, 1991

HAND-DELIVERED

RECEIVED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

NOV 26 1991

OIL CONSERVATION DIV.
SANTA FE

Case 10420

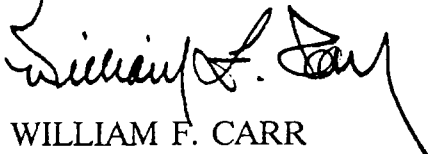
Re: Amended Application of Union Oil Company of California d/b/a UNOCAL
for Designation of a Tight Formation, Rio Arriba County, New Mexico

Amended Application of Union Oil Company of California d/b/a UNOCAL
for Designation of a Tight Formation, Rio Arriba County, New Mexico

Dear Mr. LeMay:

Enclosed in triplicate are the Applications of Union Oil Company of California d/b/a Unocal in the above-referenced cases. Union Oil Company of California d/b/a Unocal respectfully requests that these matters be placed on the docket for the December 19, 1991 Examiner hearings.

Very truly yours,



WILLIAM F. CARR
WFC:mlh

Enclosures

cc w/enclosures: Mr. Allen F. Buckingham
BLM

Mr. Bill Irwin
Union Oil Company of California

RECEIVED

BEFORE THE

NOV 26 1991

OIL CONSERVATION DIVISION

OIL CONSERVATION DIV.
SANTA FE

NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES

IN THE MATTER OF THE APPLICATION
OF UNION OIL COMPANY OF CALIFORNIA
d/b/a UNOCAL, FOR DESIGNATION
OF A TIGHT FORMATION,
RIO ARRIBA COUNTY, NEW MEXICO.

CASE NO. 10420

SECOND AMENDED APPLICATION

COMES NOW UNION OIL COMPANY OF CALIFORNIA d/b/a UNOCAL, through its undersigned attorneys, and as provided in the Oil Conservation Division's Special Rules and Procedures for Tight Formation Designation under Section 107 of the Natural Gas Policy Act of 1978 promulgated by Oil Conservation Division Order No. R-6388 on June 30, 1980, hereby makes application for an order designating certain portions of the Dakota formation (Basin-Dakota Field) as a tight formation under Section 107 of the Natural Gas Policy Act of 1978 and in support of its application would show the Division:

1. Applicant is the owner and operator of certain interests in the Dakota formation (Basin-Dakota Field) underlying the following described lands situated in Rio Arriba County, New Mexico:

Township 26 North, Range 6 West, N.M.P.M.

Section 6: All

Township 26 North, Range 7 West, N.M.P.M.

Sections 1 and 2: All
Sections 11 and 12: All

Township 27 North, Range 6 West, N.M.P.M.

Sections 16 through 23: All

Sections 26 through 32: All

Township 27 North, Range 7 West, N.M.P.M.

Sections 13 and 14: All

Section 15: E/2

Section 22: E/2

Sections 23 through 26: All

Section 27: NE/4 S/2

Section 28: S/2

Sections 33 through 36: All

containing a total of 20,642.7 acres, more or less of federal, state and fee lands.

2. The Dakota formation is expected to have an estimated average in situ gas permeability throughout the pay section of less than 0.1 millidarcy per foot.

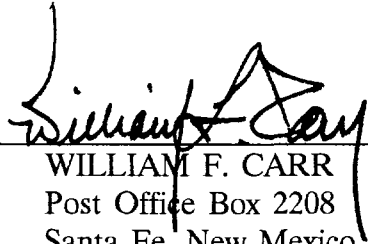
3. The average depth of the top of the Dakota formation is 7347 feet, and the stabilized production rate, against atmospheric pressure, of wells completed for production in said formations without stimulation, is not expected to exceed 290 mcf of gas per day.

4. No well drilled into the Dakota formation in the above-described area is expected to produce, without stimulation, more than five barrels of crude oil per day.

WHEREFORE, Union Oil Company of California d/b/a Unocal requests that this application be set for hearing before a duly appointed Examiner of the Oil Conservation Division on December 19, 1991, and that, after notice and hearing as required by law, the Division enter its order recommending to the Federal Energy Regulatory Commission that pursuant to 18 CFR, Section 271.701 - 705 that the Dakota formation underlying the above-described land be designated as a tight formation, and making such other and further provisions as may be proper in the premises.

Respectfully submitted,

CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

By: 
WILLIAM F. CARR
Post Office Box 2208
Santa Fe, New Mexico 87504
Telephone: (505) 988-4421

ATTORNEYS FOR UNION OIL
COMPANY OF CALIFORNIA
d/b/a UNOCAL

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

April 10, 1992

US Bureau of Land Management
Albuquerque District Office
435 Montañó Road
Albuquerque, NM 87107

Attention: Allen Buckingham

*RE: Division Case No. 10420. Application of Union Oil
Company of California d/b/a Unocal for
Designation of a Tight Formation, Rio Arriba
County, New Mexico.*

Dear Mr. Buckingham:

Enclosed please find a copy of Division Order No. R-9664 to be issued in Case No. 10420 recommending to the Federal Energy Regulatory Commission that the Dakota formation underlying the "Rincon Tight Formation Area" in Rio Arriba County, New Mexico, be designated as a "tight formation" under Section 107 of the Natural Gas Policy Act of 1978.

Enclosed for your files is also a copy of the December 20, 1991 hearing transcript of this matter.

Should you require additional information, please contact me at (505) 827-5811.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner".

Michael E. Stogner
Chief Hearing Officer/Engineer

MES/ag

cc: Case File 10420
William F. Carr - Santa Fe

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. 10420
ORDER NO. R-9664

APPLICATION OF UNION OIL OF CALIFORNIA
d/b/a UNOCAL FOR DESIGNATION OF TIGHT
FORMATION, RIO ARRIBA COUNTY, NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on December 20, 1991, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this _____ day of April, 1992 the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Union Oil Company of California d/b/a Unocal ("Unocal"), requests that the Division recommend to the Federal Energy Regulatory Commission ("FERC") that the Dakota formation underlying the following lands in Rio Arriba County, New Mexico be designated as "tight formation" in accordance with Section 107 of the Natural Gas Policy Act, FERC regulations in Title 18 CFR Section 271.703 and Oil Conservation Division Order No. R-6388-A:

Township 26 North, Range 6 West, NMPM

Section 6: All

Township 26 North, Range 7 West, NMPM

Sections 1 and 2: All

Sections 11 and 12: All

Township 27 North, Range 6 West, NMPM

Sections 16 through 23: All
Sections 26 through 32: All

Township 27 North, Range 7 West, NMPM

Sections 13 and 14: All
Section 15: E/2
Section 22: E/2
Sections 23 through 26: All
Section 27: NE/4 and S/2
Section 28: S/2
Sections 33 through 36: All

(3) The proposed "tight formation" area contains 20962.9 acres, more or less, and is inclusive of the Basin-Dakota Pool. The boundaries of the proposed area are the same as the outer boundary of the Unocal operated Rincon Unit, and the area should be designated as the "Rincon Tight Formation Area" ("Rincon Area").

(4) The type log presented by the applicant to represent the Dakota formation in the Rincon Area is the Gamma Ray - Sonic Log run on the El Paso Natural Gas Company Rincon Unit NP Well No. 130 located 990 feet from the North and East lines (Unit A) of Section 32, Township 27 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(5) The type log, submitted as Unocal's Exhibit No. 4-A shows the Dakota producing interval in the Rincon Area includes the Dakota formation and the Graneros formation and all correlable units therein ("Dakota Producing Interval"). Based on Unocal's testimony, the vertical limits of the Dakota Producing Interval in the Rincon Area should include the entire interval found to occur from 7,360 feet to 7,661 feet on this type log.

(6) Unocal included a geological description of the Dakota formation in its application and its geological witness reviewed this description at the hearing. A summary of the geological information is as follows:

The Dakota Producing Interval in the Rincon Area consists of a variety of marine and non-marine sandstones and mud rocks which span a geologic interval with gross thickness ranging from 240 feet to 328 feet with an average gross thickness of approximately 265 feet.

The Dakota Producing Interval in the Rincon Area is located in the east-central San Juan Basin and dips gently (monoclinally) to the northeast with an average structural gradient of approximately 66 feet per mile. The depth to the top of the Dakota Producing Interval ranges from 7,008 to 7,586 and averages 7,347 feet.

Within the Rincon Area, the Dakota formation is subdivided into five intervals (A through F) and the Graneros formation into five subunits (the Shale Interval, A1 Interval, A2 Interval, X Marker and B Interval). The Dakota Producing Interval is composed of interbedded sandstones and shales with the sandstone intervals constituting the primary reservoir flow units and the shales forming flow barriers to gas migration. The net sand values in these flow units range from 60 to 110 feet and average 80 feet. They are found in a complex pattern, which is indicative of the stratigraphic variability of the component sandstone units. In general, the net sand values increase from west to east across the Rincon Area.

There is stratigraphic continuity of the major Dakota and Graneros subunits across the Rincon Area. The two main reservoir flow units are the Graneros A1 Interval and the Dakota A Interval. The Dakota A Interval is the most persistent subunit and shows only minor thickness variations. The Graneros A1 Interval also shows good persistence, however its thickness varies considerably. The Graneros A1 Interval is thickest in the central part of the Rincon Area, but thin on the eastern and western edges.

(7) Division records indicate that at the time of the hearing, there were fifty-seven wells producing from the Basin-Dakota Pool within the proposed tight formation area.

(8) Unocal's witness testified that average in situ permeability for the Rincon Area is less than 0.1 millidarcys (md) and presented testimony and exhibits concerning several methods for determining average in situ permeability (Findings 10, 11 and 12 below). Laboratory measurement of cores was utilized with a correction applied to these results to adjust the laboratory air permeability data to in situ values. Well performance analyses and pressure build-up analysis were also used to back out permeability values utilizing fluid flow equations and the results of these analyses confirmed the validity of the core data which demonstrated the average in situ permeability for the Dakota Producing Interval in the Rincon Area be less than 0.1 millidarcys.

(9) Core-plug petrophysical data from five wells in the Rincon Area provide the most direct method for determination of permeability. Standard petrophysical data showing horizontal porosity and permeability are available for all cores. Measured permeabilities were corrected using industry-accepted methodology defined by *Jones and Owens* which relate laboratory measured air permeability of dry, unstressed core samples to reservoir conditions. The average measured core permeability and corrected permeability on a gross or net basis are all less than 0.1 md and the permeability appears to be randomly distributed across the Rincon Area with no natural fractures of significance.

(10) The applicant presented testimony and exhibits to explain Rincon Area permeability calculations based on well performance. Eight wells were modeled using Darcy calculations and an average permeability value of 0.0435 md was obtained. This resulted agreed with and confirmed core data.

(11) Two pressure build-up tests were conducted in the Rincon Area utilizing a Finite Conductivity Type Curve Analyses method. These tests resulted in average drainage area permeabilities to gas of 0.043 md (Rincon Unit Well No. 184) and 0.046 (Rincon Unit Well No. 137) which agreed with and confirmed core and Darcy calculations.

(12) To show that unstimulated producing rates for Rincon Area wells are not expected to exceed FERC "tight formation" limits (5 BOPD and 290 MCFPD), Unocal presented actual pre-stimulation flow data and also calculated permeability data for the Rincon Area. The applicant presented testimony and exhibits to explain how, applying Darcy's Law), the average pre-stimulation stabilized production at atmospheric pressure or calculated against atmospheric pressure, in the Rincon Area was determined to be 130 MCFPD.

(13) The applicant's witness testified, based on the maximum observed historic oil/gas production ratios for wells in the area, that wells in the Rincon Area are expected to produce without stimulation approximately 2.1 BOPD and that the wells in the Rincon Area should produce no more than 5 BOPD.

(14) Within the proposed Rincon Area, the deepest known fresh water zone is the Ojo Alamo which is found at an average depth of approximately 2,500 feet for approximately 4,500 feet above the Dakota Producing Interval.

(15) Existing State of New Mexico and Federal regulations relating to casing and cementing wells will assure development of the Dakota Producing Interval will not adversely affect said aquifer.

(16) FERC Rule 271.703(c)(2)(i)(D) provides that "if the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency has information which, in its judgement, indicates that such formation or portion subject to infill drilling can be developed absent the incentive price established in paragraph (a) of this section then the jurisdictional agency shall not include such formation or portion thereof in its recommendation."

(17) The Division, by its Order No R-1670-V, dated May 22, 1979, and effective July 1, 1979, approved infill drilling for the Basin-Dakota Gas Pool in San Juan and Rio Arriba Counties, New Mexico, and said pool includes the Dakota Producing Interval in the area under consideration here.

(18) Only one infill well has been drilled within the area proposed for tight formation designation since 1986.

(19) While the Dakota formation has been extensively drilled and infill developed in other portions of the Basin-Dakota Pool, development in the proposed Rincon Area has been essentially non-existent.

(20) Infill development of the proposed "tight formation" area has been inhibited by the poor quality of the Dakota pay and the poor prospect of commercial production therein.

(21) The applicant presented economics which indicates infill drilling within the proposed area will not occur without some type of price incentive beyond the available current market conditions.

(22) Such an incentive is currently offered through a federal tax credit available to tight formation gas wells under Section 29 of the Internal Revenue Code.

(23) The applicant's economics indicate that said tax credit would make infill drilling within the proposed unit area an attractive financial venture, which then would result in an increase of gas production which would not otherwise be produced thereby preventing waste.

(24) It is recognized by this agency that at the time of the hearing, the FERC has not yet adopted the change proposed in the Notice of Proposed Rulemaking issued in Docket No. RM-91-8-000, which would allow a jurisdictional agency to designate an infill area as a tight formation if the tax credit were necessary to develop the area, and that if such a finding were included in this order, it would be premature.

(25) However, the economics presented by the applicant show that the tax incentive would sufficiently justify further infill development in the proposed tight formation area, if the FERC were to take such matters under consideration, realizing it presently does not.

(26) Based on evidence and testimony submitted by the applicant, the Dakota Producing Interval within the vertical intervals described in Finding Nos. 4 and 5, underlie the area described in Finding No. 2, meet the criteria set forth in FERC Regulations in Title 18 CFR, Section 271.703 and should be recommended for designation as a "tight formation".

IT IS THEREFORE ORDERED THAT:

(1) A recommendation to the Federal Energy Regulatory Commission is hereby submitted pursuant to Section 107 of the Natural Gas Policy Act of 1978 and FERC Regulations in Title 18 CFR, Section 271.703 and that the Dakota Producing Interval (Dakota and Graneros formations) within the vertical limits described in Finding Nos. 4 and 5 of this order, underlying the following described lands in Rio Arriba County, New Mexico, be designated as a "tight formation".

Township 26 North, Range 6 West, NMPM

Section 6: All

Township 26 North, Range 7 West, NMPM

Sections 1 and 2: All

Sections 11 and 12: All

Township 27 North, Range 6 West, NMPM

Sections 16 through 23: All

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Sections 13 and 14: All

Section 15: E/2

Section 22: E/2

Sections 23 through 26: All

Section 27: NE/4 and S/2

Section 28: S/2

Sections 33 through 36: All

The above lands contain 20,962.90-acres, more or less, and are to be designated the Rincon Tight Formation Area.

Case No. 10420
Order No. R-9664
Page No. 7

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Original Signed by William J. LeMay

WILLIAM J. LEMAY
Director

S E A L

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY
MATTHEW BACA
DEPUTY SECRETARY

April 15, 1992

CAMBELL, CARR, BERGE
& SHERIDAN
Attorneys at Law
P. O. Box 2208
Santa Fe, New Mexico 87504

RE: CASE NO. 10420
ORDER NO. R-9664

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

Florene

Florene Davidson
OC Staff Specialist

FD/sl

cc: BLM Farmington Office
OCD Aztec Office
Sarah Smith

VILLAGRA BUILDING - 408 Galisteo
Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830

Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

2040 South Pacheco
Office of the Secretary
827-5950

Administrative Services
827-5925

Energy Conservation & Management
827-5900

Mining and Minerals

LAND OFFICE BUILDING - 310 Old Santa Fe Trail
Oil Conservation Division
P.O. Box 2088 87504-2088
827-5800

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



April 15, 1992

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Federal Energy Regulatory Commission
825 N. Capitol Street, NE
Room 6300, Mail Stop PR-25
Washington, DC 20426

Attention: Marilyn L. Rand, Director - Division of Producer Regulation

RE: Division Case No. 10420. Application of Union Oil Company of California d/b/a UNOCAL for designation of a tight formation, Rio Arriba County, New Mexico.

Dear Ms. Rand:

Pursuant to FERC Rule 271.703(c)(3), please find enclosed two copies of Division Order No. R-9664, issued in Case No. 10420 and dated April 15, 1992. This order recommends to the Federal Energy Regulatory Commission that the Dakota formation underlying the proposed Rincon Tight Formation Area in Rio Arriba County, New Mexico, be designated as a "tight formation" under Section 107 of the Natural Gas Policy Act of 1978.

Enclosed, also find copies of the hearing transcript and exhibits presented by the applicant at the December 20, 1991 public hearing.

Please note the concurrence of the U.S. Department of Interior, Bureau of Land Management with our recommendation for said area by letter dated April 13, 1992 from Allen F. Buckingham, Manager of the NGPA Section, Albuquerque District Office.

Should you have any questions or require additional information, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner".

Michael E. Stogner
Chief Hearing Officer/Engineer

MES/ag

cc: Case File: 10420
William F. Carr - Santa Fe
Allen F. Buckingham - USBLM, Albuquerque
NMOCD, Aztec

**UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION**

NGPA SECTION 107 TIGHT FORMATION)	Docket No. _____
RECOMMENDATION)	
)	
STATE OF NEW MEXICO OIL)	
CONSERVATION DIVISION OF THE)	
ENERGY, MINERALS AND NATURAL)	
RESOURCES DEPARTMENT)	

**RECOMMENDATION FOR TIGHT FORMATION
DESIGNATION UNDER
SECTION 107 OF THE NGPA.**

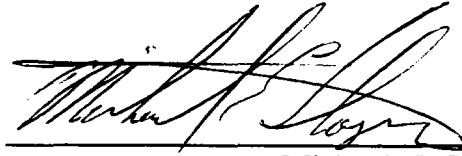
Union California of California d/b/a UNOCAL, pursuant to Section 107 of the Natural Gas Policy Act of 1978, 18 CFR § 271.703 of the FERC regulations and the New Mexico Oil Conservation Division's Special Rules and Procedures for Tight Formation Designations under Section 107 of the Natural Gas Policy Act of 1978, as promulgated by Order No. R-6388-A (being applicable at the time of the hearing), petitioned the New Mexico Oil Conservation Division for tight formation designation of the Dakota formation underlying the proposed Rincon Tight Formation Area in Rio Arriba County, New Mexico.

After notice and hearing on the application of Union Oil Company of California d/b/a UNOCAL, the New Mexico Oil Conservation Division hereby recommends that portion of the Dakota formation referenced in Division Order No. R-9664, issued in Case No. 10420 and dated April 15, 1992, being Exhibit "A" attached hereto and incorporated by reference, be designated a tight formation. Additionally, the New Mexico Oil Conservation Division submits herewith Exhibit "B" which includes copies of the following:

- 1) letters of application from UNOCAL's general counsel dated October 29, November 12 and November 26, 1991;
- 2) letter from the Public Service Company of New Mexico, Albuquerque, New Mexico dated December 3, 1991 of its entry of appearance in the subject matter;
- 3) a pre-hearing statement from UNOCAL's general counsel;
- 4) transcripts of the December 20, 1991 Division Examiner hearing; and,
- 5) Exhibits 1 through 18 presented at said hearing.

Also, Exhibit "C", is a letter from the U.S. Bureau of Land Management, dated April 13, 1992, recommending the area be designated a tight formation. Said exhibits are being provided as supporting data required under 18 CFR §271.703 of the FERC regulations.

Respectfully submitted this 15th day of April, 1992.

A handwritten signature in black ink, appearing to read "Michael E. Stogner", written over a horizontal line.

Michael E. Stogner
Chief Hearing Officer/Engineer



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
ALBUQUERQUE DISTRICT OFFICE
435 MONTANO N.E.
ALBUQUERQUE, NEW MEXICO 87107



3160 (015)

April 13, 1992

Marilyn L. Rand, Director
Division of Producer Regulation
Federal Energy Regulatory Commission
825 North Capitol Street NE
Washington, DC 20426

Michael E. Stogner
Chief Hearing Officer
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87504-2088

Case 10420

Dear Ms. Rand and Mr. Stogner:

This letter is to be included with the submission to the FERC of the New Mexico Oil Conservation Division (NMOCD) Case No. 10420, Order No. R-9664, which designates a tight formation in New Mexico. The formation referred to is the Dakota formation designated as the Rincon Tight Formation Area consisting of 20,962.9 acres.

A copy of the BLM geologic review and engineering reports, are enclosed.

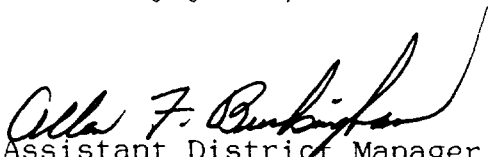
Although this area has been approved for infill drilling, development in the Rincon Area has been essentially non-existent. This jurisdictional agency concurs with the NMOCD designation and hereby designates the area in NMOCD Case No. 10420, Order No. R-9664, and BLM Docket No. NM-570-91 as a tight formation.

Any persons objecting to this determination may file a protest directly with the Federal Energy Regulatory Commission, in accordance with 18 CFR Part 275.203 and 275.204, within 20 days after the notice is published in the Federal Register by the FERC.

Although not required for this area to qualify under the FERC regulations, the designation package includes an economic analysis concerning the tax credit for tight formation gas. It is presented for the purpose of alerting the FERC Commissioners that this potential natural resource will not be developed without incentives, such as a tax credit, beyond the current market conditions.

If you have any questions contact Allen F. Buckingham at FTS 479-8765 or (505) 761-8765.

Sincerely yours,


for Assistant District Manager
Mineral Resources

Enclosures

cc:

FERC Advance Cy (Marilyn Rand)
William F. Carr (UNOCAL's Attorney)
William L. Irwin, UNOCAL Farmington
Rex Cole, UNOCAL Farmington
Sarah D. Smith (PublicSvcCo of NM's Attorney)
WO-610 (Donnie Shaw)
NM-922 (Joe Chesser)

Bureau of Land Management
Minerals Division
435 Montana NE
Albuquerque, NM 87107

NGPA 107 Tight Formation Application
Rincon Unit, Rio Arriba Co., N.M. Dakota Producing Interval
NMOCD Case # 10420
Union Oil of California (UNOCAL)

Geologic Review:

On December 20, 1991, UNOCAL came before the NMOCD in application for the designation of Tight Formation classification of the Dakota and Graneros Formations (Dakota Producing Interval) in the Rincon Unit.

In summary, examination of the geologic data shows the submittal is complete, accurate and supports designation of the application area as a NGPA Tight Formation Area.

As described in the geologic report, the Dakota and Graneros were deposited in numerous marine and nonmarine environments during the Cretaceous period. These environments are described in Exh. 4b - stratigraphic column. Exh. 4a, Dakota Type Log, identifies the Formations and subunits with the corresponding nomenclature used in the application.

Due to the variety of log types, ages and calibrations, the cut off values used in determining net pay were not listed in the report. Confirmation of the isopach map was provided by the cross sections. Perforated zones indicated on cross section A-A' resulted in an average pay thickness of 69 feet. Wells shown in Exh. 5b average 80 feet of net pay. Due to variations in completion techniques and the small sampling of wells represented in the cross section, this difference is not considered significant.

The cross sections also show that the major stratigraphic intervals defined on the Type Log correlate across the Unit area and verify that the average depth to the top of the producing interval as 7347 feet, thereby qualifying the area under the production-per-depth criteria defined by FERC.

Permeabilities were obtained from core, pressure buildup and well performance tests, the latter two will be discussed in the engineering report. Lab analyses of the cores are supplied in Exh. 8. The average mean permeability of the cores, at ambient pressures is .0543 md. This meets the NGPA criteria of .1 md or less without applying corrections for confining pressure, gas slippage and water. These corrections further lower permeabilities. The methodology and justification for applying these corrections was provided in Appendix iv, SPE 7551, A Laboratory Study of Low Permeability Gas Sands. Although ranges are provided for the input variables in the SPE paper, UNOCAL derived site specific values from Build Up data. These resulted in an average corrected "perm" of .0303 md which is a higher

value (more conservative estimate) than was obtained using the minimum values provided in the SPE paper.

Examination of the core analyses shows the presence of coal beds in the area. These coal zones were not included in the quantitative results of Core Lab's interpretation, probably because Dakota coals held little interest in the 1950's. The production potential of this coal is not identified in the application or office references. Future administration of coal gas development could be hindered if the coal has previously been included and produced under a tight formation classification. From the perspective of the NGPA program the inclusion of coal in a tight formation zones is not fatal to the determination. The reasoning for this being that, since coal gas commands a higher tax credit than tight formations, the government/public's interests are protected if the entire interval is produced under the lower credit.

Protection of fresh water zones is discussed on page 8 of the application text. The Ojo Alamo is the deepest known fresh water formation in the area. UNOCAL will ensure protection of potential aquifers by isolating the fresh water formations through their casing and cementing programs and as stipulated in State and Federal Regulations.

From the information available, as reviewed in this report, the Rincon Unit qualifies for a tight formation designation.

Jane Clancy
1-9-92

Bureau of Land Management
Minerals Division
435 Montano NE
Albuquerque, NM 87107

Bureau of Land Management
Minerals Division
435 Montano NE
Albuquerque, N.M. 87107

Engineering Report- Application Of UNOCAL For The Designation Of
The Dakota Formation In The Rincon Unit, Rio
Arriba County, New Mexico, As A Tight Formation

UNOCAL has filed an application requesting that the Dakota formation underlying the Rincon Unit be designated as a tight formation under Section 107 of the Natural Gas Policy Act of 1978. The area requested contains 20642.7 acres. The exhibits included in UNOCAL's application show that it meets all of the requirements.

One of the most important criteria from an engineering stand point is the permeability. There are 14 wells within the application area and 3 outside. Of the 17 wells, core data was available for 9 of them. Two wells had the permeability calculated from pressure build up tests and six wells had the permeability calculated from performance analysis. One well had both core and pressure analysis data available. Core data is considered the best and most reliable of the three methods for obtaining permeability values as it is a direct laboratory measurement. Using pressure build up and performance analysis to calculate the permeability is not as reliable because of the assumptions that must be made when using the equations. The values obtained for the well for which both core and performance data was available helped to validate the assumptions used in the calculations. When using the laboratory values for core data, they should be corrected to account for reservoir pressure, water saturation and gas slippage. This was done for these core samples but was not really necessary as the uncorrected values were less than .1 md for all but 2 of the wells. The Rincon Unit Well No. 31 in Sec. 36, T.27 N., R.7 W. and the Rincon Unit Well No. 57 in Sec. 1, T.26 N., R.7 W. had laboratory permeabilities of .199 md and .220 md respectively and corrected permeabilities of .144 md and .162 md respectively. Wells surrounding these two wells have permeabilities around .03 md. These two wells which are direct offsets of each other were not excluded based on our current interpretation that the .1 md limit is based on an area average and is not applied on a well by well basis. The average permeability of the net pay section in the area is .03 md.(exhibit 10C)

It is the practice in the San Juan Basin to stimulate all Dakota wells as part of the completion. Experience has shown that the wells will not produce in paying quantities without some kind of stimulation. Therefore, there is very little pre-stimulation data available. However, there are five wells across the center of the unit and one well in the northern half and one well in the southern half which do have DST's or were flow gaged while drilling. These wells showed either TSTM or less than 70 mcfpd. The maximum allowed at this depth is 290 mcfpd. No oil production was reported.

The information contained in the exhibits and presented at the hearing shows that the application area meets the requirements. Based on the information presented, I recommend that the application be forwarded to FERC for a Tight Formation designation.

Bureau of Land Management
Minerals Division
435 Montano NE
Albuquerque, N.M. 87107

Robert Kent
30 Jan 92

CAMPBELL, CARR, BERGE

& SHERIDAN, P.A.
LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY

ANNIE-LAURIE COOGAN
PATRICIA A. MATTHEWS
MICHAEL H. FELDEWERT

JACK M. CAMPBELL
OF COUNSEL

Case File 10420
ms

JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

November 27, 1991

HAND-DELIVERED

RECEIVED

NOV 27 1991

OIL CONSERVATION DIV.
SANTA FE

Mr. Michael E. Stogner
Hearing Examiner
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87501

Re: Application of Union Oil Company of California d/b/a UNOCAL for designation of a portion of the Dakota formation, Basin-Dakota Gas Pool, as a tight formation, Rio Arriba County, New Mexico

Dear Mike:

Enclosed for your review is a copy of the draft exhibits to be presented by UNOCAL in the above-referenced case. Final exhibits will be filed with the Division at least fifteen (15) days prior to the currently scheduled December 19, 1991 hearing on this application. I am providing this copy to you for your review and preparation for our meeting at the Bureau of Land Management in Albuquerque at 9:00 o'clock a.m. on December 6, 1991. Copies of additional exhibits for the Mesaverde formation will be filed as soon as they are completed.

Best regards.

Very truly yours,



WILLIAM F. CARR
WFC:mlh

Enc.

cc w/o.enc.: W. L. Irwin



PUBLIC SERVICE COMPANY OF NEW MEXICO

ALVARADO SQUARE ALBUQUERQUE, NEW MEXICO 87158

December 3, 1991

Mr. Robert Stovall, Esq.
Oil Conservation Division
P. O. Box 2088
State Land Office Building
Santa Fe, NM 87504-2088

RECEIVED

DEC 03 1991

OIL CONSERVATION DIVISION

Subject: Entry of Appearance in OCD
Cases No. 10420 and 10421

Dear Bob:

Enclosed please find for filing an original and three copies each of my Entry of Appearance in the above-referenced cases. Once filed, please return conformed copies of each to me in the self-addressed stamped envelope provided. Copies have also been sent to Bill Carr, UNOCAL's attorney.

Your attention to this matter is greatly appreciated.

Yours very truly,

Sarah D. Smith

SDS:kjc

Enclosures

cc: William F. Carr, Esq.
Mr. Paul Mollo, GCNM


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 THE APPLICATION OF
UNION OIL COMPANY OF CALIFORNIA
d/b/a/ UNOCAL

Case No. 10420

ENTRY OF APPEARANCE

Sarah D. Smith, Esq. does hereby enter her appearance on behalf of Gas Company of New Mexico (GCNM) and Sunterra Gas Gathering Company (SGGC) in the above-captioned matter.



Sarah D. Smith, Esq.
Attorney for
GAS COMPANY OF NEW MEXICO and
SUNTERRA GAS GATHERING COMPANY
Legal Department
Alvarado Square, MS 0036
Albuquerque, NM 87158
(505) 848-4903

I hereby certify that a copy of the foregoing document was mailed First Class, postage prepaid to those persons designated on the official service list in this proceeding this 3rd day of December, 1991.



Sarah D. Smith, Esq.

RECEIVED

5 1991

LEASING SUMMARY (PRORATED GAS)										YR TO DATE GAS PRD IN CUML GAS D/P.P.)			VOLUME IV PAGE 1078							
WELL	DEPT	SURFAC	M	Q	OR	Q	ALL	PRODUCTION	WATER PRODUCTION	GAS PRODUCTION	LAST PRD. DATE	DAYS PRD	GAS DISPOSITION VOLUME	CUMULATIVE GAS O/P	OIL RUNS VOLUME	DISP X	E CUMULATIVE OIL O/P	ENDING OIL STORAGE	LAND CODES	WELL COUNT
LEASE TOTAL																				
JOHNSTON A		27N 6W				2				1489	11/85	31	1384EPG	47079			68	F		
JOHNSTON A COM E		12M 36		S						4535	2	13	4508EPG					60C	S	
JOHNSTON A COM G		17A 36				12				4275	178	31	4210EPG	34273				183C	S	
LODEWICK		8P 19				13		840		840		31	6495EPG	10063				659	F	
E 8B 19		27N 9W				18		1741		1741		31	1326LSE	20843				116	F	
E 9C 19		27N 9W				6		669		669		31	5929EPG	69791				28		
E 9L 19		27N 9W				13		894		894		31	322NPC	6969				228	P	
E 10K 30		27N 9W				13		880		880		31	1022UCC	12413				112	N	
E 11G 30		27N 9W				12		1097		1097		31	276LSE	17752				154	N	
E 11H 30		27N 9W				9		896		896		31	1500UCC	19919				64	N	
LEASE TOTAL						84		804		804		31	244LSE	96162				310		
MONCRIEF FEDERAL		1M 22				12		6639		6639	4	31	12359UCC	50592				54		
MONTEGIA A 34		1A 34				3		569		569		31	465LSE	18678				35		
NAVAJO D 30		9D 30				34		1298		1298	145	31	9859UCC	37013				54		
NAVAJO E 18		5E 18				45		3462		3462		31	2514UCC	18678				35		
NAVAJO I 25N		3I 1				2		1744		1744		31	490UCC	62812				54		
NAVAJO L 12		6L 12				157		12824		12824		31	208LSE	6217				35		
NAVAJO L 18		8L 18				168		10123		10123		31	208LSE	46217				35		
NAVAJO L-19		4L 19				63		2887		2887	34	30	373LSE	33466				54		
NAVAJO Q 12		20 12				56		5108		5108		31	490UCC	46217				35		
RINCON UNIT		11 30				9		6435		6435	3	31	28LSE	62812				54		
11K 6		26N 6W				25		4195		4195		31	208LSE	46217				35		
17A 1		26N 7W				1		68		68		9	208LSE	33466				35		
108G 19		27N 6W				10		3873		3873	14	31	4283L	37027				54		
126N 27		27N 6W				23		3333		3333	14	31	61739	4283L				54		
127A 28		27N 6W				23		5799		5799	1	31	41134	4283L				54		
129K 28		27N 6W				39		2801		2801	12	31	41134	4283L				54		
130A 32		27N 6W				159		5323		5323	4	31	45337	45337				35		
133K 14		27N 7W				11		5085		5085		31	100378	100378				35		
135B 12		26N 7W				17		3296		3296		31	40569	40569				35		
136A 23		27N 7W				17		4639		4639		31	50412	50412				35		
137K 24		27N 7W				7		6900		6900	25	31	60325	60325				35		
138A 25		27N 7W				18		2862		2862		31	40220	40220				35		
139K 23		27N 6W				9		3661		3661	10	31	37562	37562				35		
						9		3350		3350	4	31	32680	32680				35		

Table with columns: WELLS COUNT, LAND CODES, ENDING OIL STORAGE, CUMULATIVE OIL O/P, OIL RUNS VOLUME, GAS PRODUCTION, PRODUCTION DATE, OIL PROD, AS-DISPOSITION VOLUME, DISP, CUMULATIVE GAS O/P, OIL RUNS VOLUME, ENDING OIL STORAGE, LAND CODES, WELLS COUNT. Includes well numbers (e.g., 149N, 150A, 151B) and company names (e.g., RINCON UNIT NP, SANCHEZ, UNIVERSAL RESOURCES CORP.).

Table with columns: WELLS COUNT, LAND CODES, ENDING OIL STORAGE, CUMULATIVE OIL O/P, OIL RUNS VOLUME, GAS PRODUCTION, PRODUCTION DATE, OIL PROD, AS-DISPOSITION VOLUME, DISP, CUMULATIVE GAS O/P, OIL RUNS VOLUME, ENDING OIL STORAGE, LAND CODES, WELLS COUNT. Continuation of the data from page 248.

United States Department of Interior

BUREAU OF LAND MANAGEMENT
ALBUQUERQUE DISTRICT OFFICE
435 Montano Road NE
Albuquerque, New Mexico 87107

INFORMAL MEETING FOR TIGHT FORMATION AREA DESIGNATION PROPOSED BY
THE UNION OIL COMPANY OF CALIFORNIA. MEETING HELD AT 9:30 AM,
FRIDAY, DECEMBER 6, 1991, WITH BLM, NMOCD, AND UNOCAL.

	<u>NAME</u>	<u>PHONE NUMBER</u>	<u>ORGANIZATION</u>
1.	Allen F. Buckingham	(505) 761-8765	BLM
2.	Jane Clancy	(505) 761-8760	BLM
3.	Robert Kent	(505) 761-8762	BLM
4.	Arlene Salazar	(505) 761-8772	BLM
5.	<u>REX COLE</u>	<u>505-326-7600</u>	<u>UNOCAL</u>
6.	<u>Don Seamount</u>	<u>505-326-7600</u>	<u>UNOCAL</u>
7.	<u>Bill Carr</u>	<u>505-988-4421</u>	<u>Unocal</u>
8.	<u>Uma Givens</u>	<u>505-326-7600</u>	<u>CCO</u>
9.	<u>Michael E. Stegner</u>	<u>505-827-5811</u>	<u>OCD</u>
10.	<u>W.H. IRWIN</u>	<u>505 326 7600</u>	<u>UNOCAL</u>
11.	<u>PAUL WEST</u>	<u>(505) 326-7600</u>	<u>"</u>
12.			

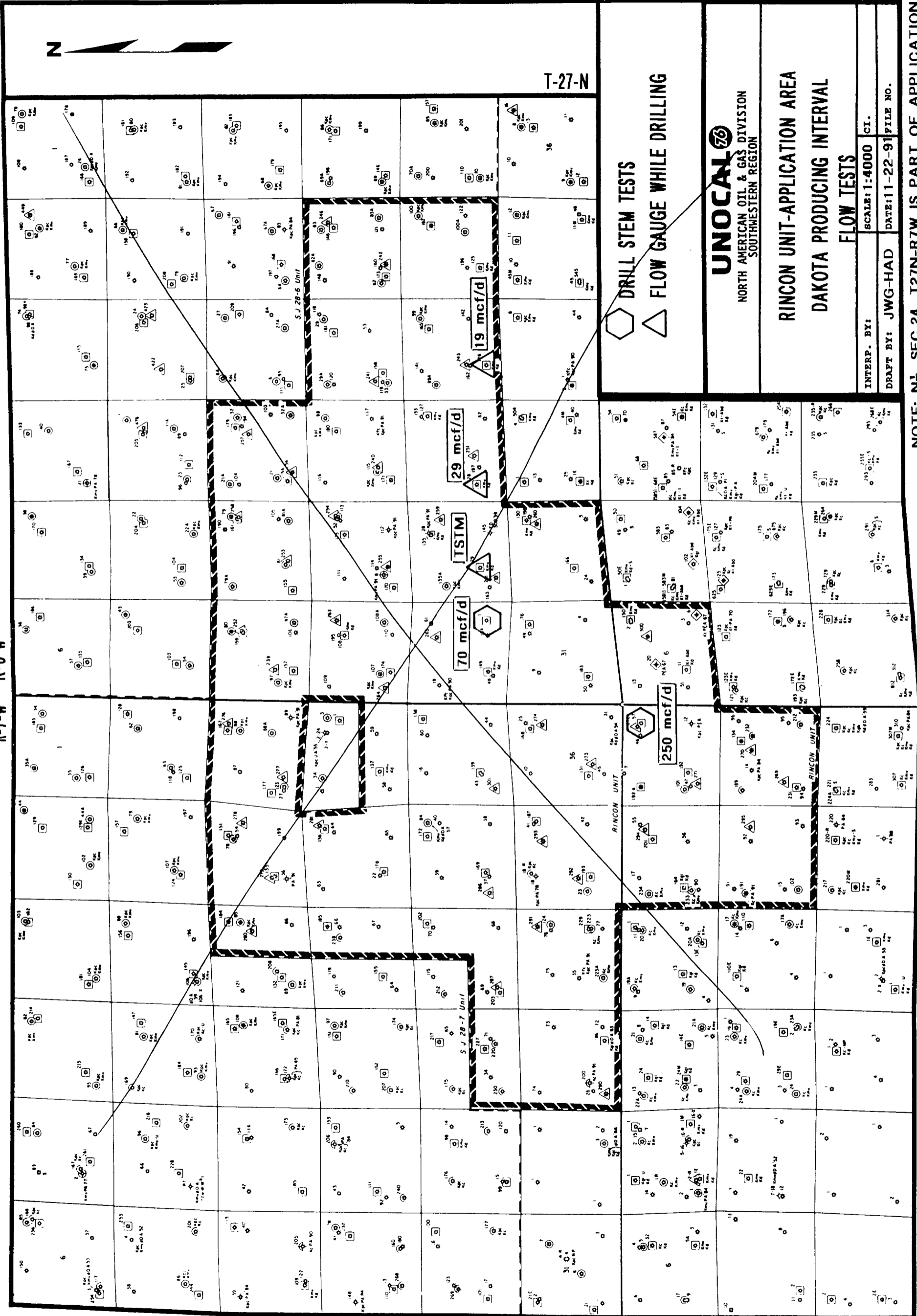
United States Department of Interior

BUREAU OF LAND MANAGEMENT
ALBUQUERQUE DISTRICT OFFICE
435 Montano Road NE
Albuquerque, New Mexico 87107

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3. Robert Kent	(505) 761-8762	BLM
4. Arlene Salazar	(505) 761-8772	BLM
5. <u>REX COLE</u>	<u>505-326-7600</u>	<u>UNOCAL</u>
6. <u>Don Seamount</u>	<u>505-326-7600</u>	<u>UNOCAL</u>
7. <u>Bill Carr</u>	<u>505-988-4421</u>	<u>unocal</u>
8. <u>Uma Green</u>	<u>505-827-5811</u>	<u>CCO</u>
9. <u>Michael E. Stogner</u>	<u>505-827-5811</u>	<u>CCO</u>
10. <u>W. L. IRWIN</u>	<u>505 326 7600</u>	<u>UNOCAL</u>
11. <u>PAUL WEST</u>	<u>(505) 326-7600</u>	<u>"</u>
12. _____		

R-7-W R-6-W



T-27-N

T-27-N T-26-N

 DRILL STEM TESTS
 FLOW GAUGE WHILE DRILLING

UNOCAL
 NORTH AMERICAN OIL & GAS DIVISION
 SOUTHWESTERN REGION

RINCON UNIT-APPLICATION AREA
 DAKOTA PRODUCING INTERVAL
 FLOW TESTS

INTERP. BY: _____ SCALE: 1:4000 CI.
 DRAFT BY: JWG-HAD DATE: 11-22-91 FILE NO. _____

NOTE: N¹/2, SEC. 24, T27N-R7W IS PART OF APPLICATION EXHIBIT 13

R-7-W R-6-W

Date 2/7 Time Sent 9:50
This transmission consists of: 2 pages

Michael Stogner
NMOC
Santa Fe NM
FAX Number 505 827 5741
FAX Operator's Number for Confirmation

FORM

Bill Perkins
Amoco
Denver CO 1162
FAX Telephone 303
Voice Telephone 303

Notes

Related Information
Cancellation

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON D C 20426
August 15, 1991

REC 20 1991
FEDERAL ENERGY REGULATORY COMMISSION
DEPT OF ENERGY
DC

In reply refer to:
PR25.2/MFP

Dennis R. Bicknell, Director
Colorado Oil and Gas Conservation Commission
1580 Logan Street
Logan Tower Building, Suite #380
Denver, Colorado 80202

Re: Tight Formation Determination
Colorado-1 Amendment
"J" Sand Formation
FERC No. JD91-07820T

Dear Mr. Bicknell:

On July 3, 1991, the Commission received the above referenced notice of determination that the "J" Sand formation underlying portions of Adams and Weld Counties, Colorado, qualifies as a tight formation under section 107(c)(5) of the Natural Gas Policy Act of 1978. The geographical area covered by the notice is an infill area which was previously excluded from tight formation designation in Commission Order No. 124.

Our review shows that your notice includes a finding that the tax credit available to tight formation gas wells under section 29 of the Internal Revenue Code would be necessary in order to develop the subject area. However, the Commission has not yet adopted the change proposed in the Notice of Proposed Rulemaking issued in Docket No. RM91-8-000, which would allow a jurisdictional agency to designate an infill area as a tight formation if the tax credit was necessary to develop the area.

In view of the existing exclusion of the subject acreage, and the fact that the applicable regulations have not been amended, the determination is premature.

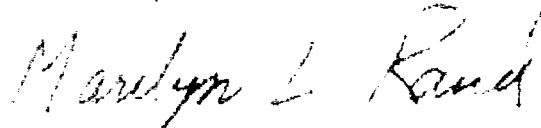
ILLEGIBLE

Mr. Dennis R. Bicknell

-2-

Therefore, pursuant to section 275.202(b) of the Commission's regulations, the 45-day period for Commission review will not commence until the Commission takes final action in Docket No. RM91-8-000.

Sincerely,



Marilyn L. Rand, Director
Division of Producer Regulation

cc: Amoco Production Company
1670 Broadway, Suite #978
P. O. Box 800
Denver, Colorado 80201

Bradley S. McKim, Attorney
1670 Broadway, Suite #978
P. O. Box 800
Denver, Colorado 80201

ILLEGIBLE

IX. List of Exhibits

APPLICATION FOR TIGHT FORMATION DESIGNATION DAKOTA FORMATION, RINCON UNIT

Case # 10420

December 5, 1991

- 1a. Location Map, Rincon Unit - Application Area
- 1b. Tight Gas Designated Areas
2. Application Area, Cross-Section Index and Core Well Locations
3. Structure Map, Top of the Dakota Fm
- 4a. Dakota Type Log
- 4b. Sedimentation and Stratigraphic Type Log
- 5a. Tabular Listing of Stratigraphic Data
- 5b. Net Sand Isopach Map, Graneros - Dakota Fms
- 6a. Cross-Section A-A'
- 6b. Cross-Section B-B'
7. Permeability Map
8. Original Core Data, Strip Log
9. Tabular Listing of Petrophysical Core Data
- 10a. Statistical Summary of Petrophysical Data by Well and Stratigraphic Unit for the Gross Interval
- 10b. Statistical Summary by Stratigraphic Unit for the Gross Interval
- 10c. Statistical Summary of Petrophysical Data by Well and Stratigraphic Unit for the Net Interval
- 10d. Statistical Summary by Stratigraphic Unit for the Net Interval
11. Startup Productivity Report
- 12a. Pressure Build-up Analysis - Rincon 184
- 12b. Pressure Build-up Tabular Data - Rincon 184
- 12c. Pressure Build-up Analysis - Rincon 137
- 12d. Pressure Build-up Tabular Data - Rincon 137
13. Flow Data Map
- 14a. Economic Model Case 1
- 14b. Economic Model Case 2

Section 4

Purchase Document Modifications

From the drop down menu choose PO Mod. A Purchase Document Modification screen should appear.

- **To Create a new Modification**

1. At the bottom left-hand of the document, click on the **“ADD”** button.
(This will prompt a smaller menu box.)
2. **“DOC TYPE”** Click on the down arrow, this will provide a drop down menu. Select the type of document you wish to modify, either PC or PD. This is the same document type you selected when the original document was created. (All documents created in a prior fiscal year should be a “PC”.)
3. **“FY”** Click on the down arrow, this will provide a drop down menu of various fiscal years. Select the fiscal year in which the original document was prepared. (Fiscal year is the first two numbers in the document number).
4. **“FUND”** Click on the down arrow, this will provide a drop down menu of all EMNRD’s funds. Select the fund used in the original document. (Fund is the third, fourth and fifth numbers in the document number).
5. **“PC/PD DOC #”** Enter the last six digits of the original purchase document number you wish to modify.
6. Click on the **“OK”** button when this information is complete.

- **You are now ready to enter the Purchase Modification Information.**

1. **“TYPE”** This box defaults to the type used on the original purchase document. You cannot modify this.
2. **“FOB”** Click on the down arrow, this will provide a drop down menu. Always select the “D – destination” option, press enter.
3. **“VENDOR #”** Take your cursor into the vendor ID box, double click, the system will provide the vendor table. This is a “go to” menu. If you type the vendor’s first name, then click on the “SEARCH BY NAME” button (to the right of the vendor box), the system will begin a search, then scroll down to the proper vendor. If you know the vendor name you may type it in, then click on the “SEARCH BY NAME” button. If the vendor has multiple addresses, make sure you choose the vendor number and alternate address indicator used on the original purchase document. When you have identified the proper vendor name and number,

double click anywhere on that line and the system will load the vendor number and name into your purchase document. **Make sure the vendor appearing on your document is the same one used on the original purchase document.**

4. **“AGENCY CONTACT”** If you want your full name in this box, you can type over your user ID name that appears in the box by default.
5. **“PHONE NUMBER”** Enter your telephone number including the area code.
6. **“BFY”** The system defaults to the same year as “FY” (year the document was created). If you are modifying a document created with a different budget fiscal year, click on the down arrow, this will provide a drop down menu of various fiscal years, select the budget fiscal year you are modifying. (Budget Fiscal Year is the year budget or an encumbrance was originally established.)
7. **“SHIP TO”** Click on the down arrow, this will provide a table of EMNRD’s various locations. Select the “ship to” location used on the original purchase document. You can double click on the selected location or simply hit enter.
8. **“BILL TO”** Click on the down arrow, again this will provide a table of EMNRD’s various locations. Select the “bill to” location used on the original purchase document. You can double click on the selected location or simply hit enter.

- **Goods/Services/Commodity Description section:**

In the left-hand, middle section of the table, click on the **“ADD ITEM”** button. The system will automatically default to line number one. If you have multiple lines, the system will default to the next number each time you click on the **“ADD ITEM”** button.

NOTE: If you want to delete a line, simply highlight the line and click on “DELETE ITEM”

TAB

1. **“QUANTITY”** The system automatically defaults to One (1.000). If you are modifying the quantity purchased, enter the amount you are adjusting by. If you are adjusting another field, enter zero for no change.

TAB

Section 4

2. **“I/D”** If you entered an amount to modify in the “Quantity” field, click on the down arrow, this provides a drop down menu with “I” for increase and a “D” for decrease. Choose the indicator relating to what you want to modify. If you entered zero “0” in the “Quantity” field, leave blank.

TAB

3. **“UNIT”** Leave blank. The system automatically infers the “Unit” description used on the original document.

TAB

4. **“COMMODITY”** The system automatically defaults to “CCCC”. Tab past commodity section, as this field is not required.

TAB

5. **“COMMODITY DESCRIPTION”** Type in the description and justification for your modification.

NOTE: The system only allows 30 characters for this field.

TAB

6. **“UNIT COST”** If you are modifying the unit cost of the original items purchased, enter the amount you are adjusting by. If you are adjusting another field, enter zero for no change.

TAB

7. **“I/D”** If you entered an amount to modify in the “Unit Cost” field, click on the down arrow, this provides a drop down menu with “I” for increase and a “D” for decrease. Choose the indicator relating to what you want to modify. If you entered zero “0” in the “Unit Cost” field, leave blank.

“ENTER”

8. **“AMOUNT”** The total amount will automatically be calculated based on the quantity and unit cost inputs when the document is saved.

NOTE: To create additional commodity lines, simply click on the “ADD ITEM” box and the system will default to the next line number.

- **Accounting Section:**

At the bottom left of the document, click on the “**ADD ITEM**” This brings up the accounting section of the purchase modification.

1. “**LN**” The system automatically defaults to line one in the accounting section. If you are modifying a different line number as created on the original document, enter the line number you wish to modify.

TAB

2. “**DFA**” If your original document was a “PC”, enter the DFA line number you are modifying. If your original document was a “PD”, leave blank.

TAB

3. “**ORGN/PRG**” Enter your **internal** organization code (cost center) number corresponding to the line number as entered on the original document. You may click on the down arrow, this provides a drop down menu with all EMNRD’s organization codes (cost centers). Select the proper org number.

TAB

4. “**DIV CODE**” (*Leave Blank*). The system will automatically bring up the correct division code based on the organization code (cost center) you selected.

TAB

5. “**OBJ CODE**” Enter the line item (object code) corresponding to the line number as entered on the original document. You may click on the down arrow, this provides a drop down menu with all the line-item (object codes) numbers. Select the proper line-item number and double click.

TAB

6. “**RPTG**” Leave Blank. Only special payments require this field.

TAB

7. “**AMOUNT**” Enter the amount you are modifying for the selected line number.

TAB

Section 4

8. “**I/D**” Click on the down arrow, this provides a drop down menu with “**I**” for increase and a “**D**” for decrease. Choose the indicator relating to what you want to modify.

NOTE: If you have additional accounting lines to enter, simply click on “ADD ITEM” box and line two will appear. Click again for line three and so on. The total of all Accounting Lines must be the same amount total as the total of all the Description Lines.

9. Click on the “**SAVE**” button, this will now edit your purchase document modification.

The system should respond to you if any errors are detected. If you have errors, click on the “**STATUS**” box at the top of the screen. This will display a list of errors.

To make corrections, hit the “**EDIT**” button on the bottom of the screen, and make any necessary corrections. Click on the “**SAVE**” button.

If no additional corrections are required, the “**DOCUMENT STATUS**” at the bottom right of the screen should show a status of “**PEND 1**”.

10. After the document is in “**PEND 1**” status, click on the “**PRINT**” box. This will prompt a small menu box.

To send the document directly to the printer, click on the “**PRINT**” option and click “**OK**” button.

To view the document on the screen, click the “**PREVIEW**” option and click “**OK**” button. If you want to send it to the printer after viewing on the screen, click on the printer icon.

11. If you created a “**PD**” modification, you have completed the process. The purchasing section will pre-audit online all “**PEND1**” PD documents daily and approve and post them to the system.

12. If you created a “**PC**” document (over \$1,500), it must be submitted to DFA for modification. After printing the document, have the “**PC**” signed by the authorized individual. Fax or mail the signed modification documents and backup to ASD Purchasing for approval. When the purchasing section receives the “**PC**” document, purchasing staff will pre-audit, approve and submit the document to DFA to be modified. Once the purchasing section is notified the modification has been posted by DFA, purchasing staff will stamp “**APPROVED DFA**” on the document and send a copy to the originator for their records.

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** EMNRD **
 STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESOURCES; 199 GENERAL OPERATING FUND ORGN: 0790 RBDMS SPECIAL PROJECT-ST FY03

OBJECT	ENCUMBRANCE NUMBER/LINE/VE	ORIGINAL AMOUNT	CURRENT MONTH LIQUIDATED ADJUSTED	INCEPTION TO DATE LIQUIDATED ADJUSTED	UNLIQUIDATED
3522	03199000761 03 9 6832	0.00	0.00	360.00	360.00
OBJECT TOTAL	3522	0.00	0.00	360.00	360.00
AFPR TOTAL	303	0.00	0.00	360.00	360.00
ORG TOTAL	0790	0.00	0.00	360.00	360.00
FUND TOTAL	199	48,611,576.62	-24,460.45	53,272.45	13,540,978.56

** EMNRD **
 STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0789 RBDMS SPECIAL PROJECT-FED FY03

OBJECT	ENCUMBRANCE NUMBER/LINE/VENDOR	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
3522	03199000761 01 982746832	14,270.00	0.00	0.00	0.00	0.00	14,270.00
OBJECT TOTAL	3522	14,270.00	0.00	0.00	0.00	0.00	14,270.00
APPR TOTAL	303	14,270.00	0.00	0.00	0.00	0.00	14,270.00
ORG TOTAL	0789	14,270.00	0.00	0.00	0.00	0.00	14,270.00

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** EMMRD STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0787 UIC FEDERAL - FY03

OBJECT	ENCUMBRANCE NUMBER/LINE/VENUE	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
3522	03199000332 01 0 00106663	5,425.00	0.00	0.00	0.00	-5,425.00	0.00
OBJECT TOTAL	3522	5,425.00	0.00	0.00	0.00	-5,425.00	0.00
APPR TOTAL	303	5,425.00	0.00	0.00	0.00	-5,425.00	0.00

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** EMNRD **
 STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0784

OB- JECT	ENCUMBRANCE NUMBER/LINE/VENDOR	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
5511	02199004714 10 6 7	123,024.00	0.00	0.00	2,309.00	-125,333.00	0.00
OBJECT TOTAL	5511	123,024.00	0.00	0.00	2,309.00	-125,333.00	0.00
APPR TOTAL	503	123,024.00	0.00	0.00	2,309.00	-125,333.00	0.00
ORG TOTAL	0784	151,733.86	0.00	0.00	-1,313.50	-150,420.36	0.00

** EMMRD
 STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 159 GENERAL OPERATING FUND ORGN: 0784

OE- JECT	ENCUMBRANCE NUMBER/LINE/VECTOR	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	*****LIQUIDATED LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	*****LIQUIDATED LIQUIDATED	UNLIQUIDATED
4221	02199005479 01 403848272	172.50	0.00	0.00	-172.50	0.00	0.00
4221	02199013194 01 403848834	152.50	0.00	0.00	-152.50	0.00	0.00
4221	02199013328 01 035443749	172.50	0.00	0.00	-172.50	0.00	0.00
OBJECT TOTAL	4221	497.50	0.00	0.00	-497.50	0.00	0.00
4251	02199001155 14 800245616	0.00	0.00	0.00	2,200.00	-2,200.00	0.00
OBJECT TOTAL	4251	0.00	0.00	0.00	2,200.00	-2,200.00	0.00
4261	02199001155 24 801425616	0.00	0.00	0.00	400.00	-400.00	0.00
4261	02199005501 01 80233221	82.60	0.00	0.00	0.00	-82.60	0.00
4261	02199005578 01 802401652	625.76	0.00	0.00	0.00	-625.76	0.00
4261	02199011002 02 802332123	300.00	0.00	0.00	-300.00	0.00	0.00
OBJECT TOTAL	4261	1,008.36	0.00	0.00	100.00	-1,108.36	0.00
4411	02199005559 01 200099648 A	2,394.00	0.00	0.00	0.00	-2,394.00	0.00
4411	02199005751 02 800054120 A	257.00	0.00	0.00	0.00	-257.00	0.00
OBJECT TOTAL	4411	2,651.00	0.00	0.00	0.00	-2,651.00	0.00
4491	02199005581 01 80002866	2,091.00	0.00	0.00	0.00	-2,091.00	0.00
4491	02199005751 01 800054120 A	500.00	0.00	0.00	0.00	-500.00	0.00
OBJECT TOTAL	4491	2,591.00	0.00	0.00	0.00	-2,591.00	0.00
APPR TOTAL	403	6,747.86	0.00	0.00	1,802.50	-8,550.36	0.00

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0784

OBJECT	ENCUMBRANCE NUMBER/LINE/VEHICOR	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
3522	02199005074 01 754230455	11,112.00	0.00	0.00	0.00	-11,112.00	0.00
3522	02199005149 01 099006663	10,850.00	0.00	0.00	-5,425.00	-5,425.00	0.00
OBJECT TOTAL	3522	21,962.00	0.00	0.00	-5,425.00	-16,537.00	0.00
AFPR TOTAL	303	21,962.00	0.00	0.00	-5,425.00	-16,537.00	0.00

** EMNRD STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 129 GENERAL OPERATING FUND ORGN: 0781

OE - ENCUMBRANCE	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
JECT NUMBER/LINE/VEHICLE						
1511 01199004574 10 6.0	91,155.00	0.00	0.00	34,176.00	-125,331.00	0.00
OBJECT TOTAL 1511	91,155.00	0.00	0.00	34,176.00	-125,331.00	0.00
APPR TOTAL 157	91,155.00	0.00	0.00	34,176.00	-125,331.00	0.00
ORG TOTAL 0781	126,992.50	0.00	0.00	36,195.22	-163,187.72	0.00

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** EMNRD **
 STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0781

OE- JECT	ENCUMBRANCE NUMBER/LINE/VENDOR	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
0522	01199008709 10 1210455	33,335.00	0.00	0.00	0.00	-33,335.00	0.00
OBJECT TOTAL	0522	33,335.00	0.00	0.00	0.00	-33,335.00	0.00

APPR TOTAL	057	33,335.00	0.00	0.00	0.00	-33,335.00	0.00
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SUMMARY LISTING OF ENCUMBRANCES
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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0781

OBJECT	ENCUMBRANCE	ORIGINAL	CURRENT MONTH	INCEPTION TO DATE	UNLIQUIDATED
NUMBER/LINE/VEHICL		AMOUNT	ADJUSTED LIQUIDATED	ADJUSTED LIQUIDATED	
0491 01199009411 10 85034120		2,366.00	0.00	0.00	0.00
OBJECT TOTAL 0491		2,366.00	0.00	0.00	0.00
APPR TOTAL 047		2,366.00	0.00	-2,366.00	0.00

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 SUMMARY LISTING OF ENCUMBRANCES
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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND	ORGN: 0781	*****INCEPTION TO DATE*****			
OB- ENCUMBRANCE	ORIGINAL AMOUNT	CURRENT MONTH LIQUIDATED	ADJUSTED	LIQUIDATED	UNLIQUIDATED
JECT NUMBER/LINE/VEP/CR		ADJUSTED			
0221 01199008455 10 413198834	136.50	0.00	0.00	-136.50	0.00
OBJECT TOTAL 0221	136.50	0.00	0.00	-136.50	0.00
0251 01199005875 14 81425616	0.00	0.00	2,019.22	-2,019.22	0.00
OBJECT TOTAL 0251	0.00	0.00	2,019.22	-2,019.22	0.00
APPR TOTAL 027	136.50	0.00	2,019.22	-2,155.72	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0750 OIL RECLAMATION FUND

OB- JECT	ENCUMBRANCE NUMBER/LINE/VERSION	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
4881	02199005242 02 80158548 D	15,500.00	0.00	0.00	0.00	-15,500.00	0.00
OBJECT TOTAL 4881		15,500.00	0.00	0.00	0.00	-15,500.00	0.00
APPR TOTAL	401	15,500.00	0.00	0.00	0.00	-15,500.00	0.00
ORG TOTAL	0750	1,972,851.22	1,912.00	-43,375.43	4,556.38	-941,843.74	1,035,563.86

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0750 OIL RECLAMATION FUND

OR--	ENCUMBRANCE	ORIGINAL	*****CURRENT MONTH*****	*****INCEPTION TO DATE*****	UNLIQUIDATED
JECT	NUMBER/LINE/VENDOR	AMOUNT	LIQUIDATED	ADJUSTED	LIQUIDATED
3532	02199005211 01 0100009904	220,314.40	-21,828.78	0.00	-220,314.40
3532	02199005212 01 0100009904	97,750.35	0.00	0.00	-97,750.35
	OBJECT TOTAL 3532	318,064.75	-21,828.78	0.00	-318,064.75
	APPR TOTAL 302	318,064.75	-21,828.78	0.00	-318,064.75

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STATE OF NEW MEXICO FY: 2004
SUMMARY LISTING OF ENCUMBRANCES
FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESPUND: 189 GENERAL OPERATING FUND ORGN: 0750 OIL RECLAMATION FUND

OBJECT	ENCUMBRANCE NUMBER/LINE/VEIN/CY	ORIGINAL AMOUNT	CURRENT MONTH LIQUIDATED	ADJUSTED	INCEPTION TO DATE LIQUIDATED	ADJUSTED	UNLIQUIDATED
3522	02199001393 10 7 1698487	3,936.09	0.00	0.00	-3,936.09	0.00	0.00
3522	02199001612 10 2 3530274	29,004.90	0.00	0.00	-34,884.90	0.00	0.00
3522	02199001768 10 2 3530274	40,000.00	0.00	5,880.00	-40,000.00	0.00	0.00
3522	02199002733 10 7 1698487	1,882.00	0.00	0.00	-1,882.00	0.00	0.00
3522	02199003599 20 7 1698487	31,445.00	0.00	5,306.34	-24,754.05	11,997.29	0.00
3522	02199003600 20 7 1698487	80,755.00	0.00	13,628.66	-72,986.25	21,397.41	0.00
3522	02199003743 10 2 3130274	125,000.00	0.00	0.00	-125,000.00	0.00	0.00
3522	02199004690 10 9 1641772	2,666.90	0.00	0.00	-2,666.90	0.00	0.00
3522	02199004769 10 9 1641772	26,053.04	0.00	0.00	-26,053.04	0.00	0.00
3522	02199005082 01 9 1641772	5,462.31	0.00	0.00	-5,462.31	0.00	0.00
3522	02199005086 01 7 1698487	14,500.00	0.00	-14,500.00	0.00	0.00	0.00
3522	02199005126 01 8 0733057	60,058.56	0.00	0.00	-60,058.56	0.00	0.00
3522	02199005175 01 9 1641772	100,000.00	0.00	0.00	-100,000.00	0.00	0.00
3522	02199005243 01 4 83315848	26,455.00	0.00	0.00	-26,455.00	0.00	0.00
3522	03199000604 01 8 0733057	4,400.00	0.00	0.00	0.00	4,400.00	0.00
3522	0319900605 01 7 1698487	9,200.00	0.00	0.00	-2,875.00	6,325.00	0.00
3522	0319900606 01 0 17005086	15,000.00	0.00	-15,000.00	-15,000.00	0.00	0.00
3522	0319900607 01 9 1641772	60,000.00	0.00	0.00	0.00	60,000.00	0.00
OBJECT TOTAL	3522	635,818.80	0.00	10,315.00	-542,014.10	104,119.70	0.00
3532	03199000199 01 7 1698487	121,497.41	0.00	0.00	0.00	114,350.50	0.00
3532	03199000476 01 7 1698487	44,929.50	0.00	0.00	0.00	44,929.50	0.00
3532	03199000479 01 7 1698487	35,717.00	0.00	0.00	0.00	35,717.00	0.00
3532	03199000533 01 7 1698487	31,377.50	0.00	0.00	0.00	31,377.50	0.00
3532	03199000539 01 7 1698487	210,156.10	0.00	0.00	0.00	210,156.10	0.00
3532	03199000540 01 7 1698487	309,079.00	0.00	0.00	0.00	309,079.00	0.00
3532	03199000694 01 8 0733057	55,999.00	0.00	0.00	-48,696.81	7,302.19	0.00
3532	03199000711 01 8 0733057	3,541.90	0.00	0.00	-3,541.90	0.00	0.00
3532	03199000715 01 8 0733057	25,852.40	0.00	0.00	-7,479.53	18,372.87	0.00
3532	03199000742 01 0 17009904	523.71	0.00	-523.71	0.00	0.00	0.00
3532	03199000799 01 0 17005086	57,100.00	0.00	0.00	0.00	57,100.00	0.00
3532	03199000803 01 8 0733057	17,424.00	0.00	0.00	0.00	17,424.00	0.00
3532	03199000811 01 8 0733057	4,000.00	0.00	0.00	0.00	4,000.00	0.00
3532	04199000046 01 000009904	6,546.65	0.00	0.00	-6,546.65	0.00	0.00
3532	04199000057 01 8 0733057	19,200.00	0.00	0.00	0.00	19,200.00	0.00
3532	04199000141 01 7 1698487	50,935.50	0.00	0.00	0.00	50,935.50	0.00
3532	04199000257 01 8 0733057	9,588.00	1,912.00	1,912.00	0.00	11,500.00	0.00
OBJECT TOTAL	3532	1,003,467.67	1,912.00	-5,758.62	-66,264.89	931,444.16	0.00

APER TOTAL 301 1,639,286.47 1,912.00 -21,546.65 4,556.38 -608,278.99 1,035,563.86

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0741 IMAGING PROJECT

OBJECT	ENCUMBRANCE	ORIGINAL	CURRENT	ADJUSTED	LIQUIDATED	INCEPTION TO DATE	LIQUIDATED	UNLIQUIDATED
JECT	NUMBER/LINE/VEHICL	AMOUNT	ADJUSTED	ADJUSTED	LIQUIDATED	ADJUSTED	LIQUIDATED	UNLIQUIDATED
4221	02199005487 01 5:6190923	247.50	0.00	0.00	0.00	0.00	-247.50	0.00
4221	02199005557 01 5:81225935	83.57	0.00	0.00	0.00	0.00	0.00	83.57
4221	02199013144 01 5:5225935	703.50	0.00	0.00	0.00	0.00	-703.50	0.00
OBJECT TOTAL	4221	1,034.57	0.00	0.00	0.00	0.00	-951.00	83.57
4661	02199011012 01 8:3233800 B	3.85	0.00	0.00	0.00	0.00	0.00	3.85
OBJECT TOTAL	4661	3.85	0.00	0.00	0.00	0.00	0.00	3.85
APPR TOTAL	403	1,038.42	0.00	0.00	0.00	0.00	-951.00	87.42
ORG TOTAL	0741	1,043,838.42	0.00	0.00	-11,088.64	0.00	-899,674.01	144,164.41

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 STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND	ORGN: 0741 IMAGING PROJECT				
OE- ENCUMBRANCE					
JECT NUMBER/LINE/VEHICLE					
ORIGINAL AMOUNT	*****CURRENT MONTH*****	*****INCEPTION TO DATE*****	LIQUIDATED	UNLIQUIDATED	
	ADJUSTED	ADJUSTED	LIQUIDATED		
3522 02199005402 01 9 2746832	995,500.00	0.00	-11,088.64	-860,002.38	135,497.62
OBJECT TOTAL 3522	995,500.00	0.00	-11,088.64	-860,002.38	135,497.62
3532 02199005513 01 8 1324665 A	47,300.00	0.00	0.00	-38,720.63	8,579.37
OBJECT TOTAL 3532	47,300.00	0.00	0.00	-38,720.63	8,579.37
APPR TOTAL 303	1,042,800.00	0.00	-11,088.64	-898,723.01	144,076.99

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0740 WATER QUALITY MANAGEMENT

OB- JECT	ENCUMBRANCE NUMBER/LINE/VENDOR	ORIGINAL AMOUNT	*****CURRENT MONTH*****		*****INCEPTION TO DATE*****		UNLIQUIDATED
			ADJUSTED	LIQUIDATED	ADJUSTED	LIQUIDATED	
3522	02199005085 01 830254519	5,000.00	0.00	0.00	0.00	-4,751.00	249.00
3522	02199005086 02 742439743	0.00	0.00	0.00	14,500.00	-14,500.00	0.00
3522	03199000761 02 962746832	5,637.56	0.00	0.00	-360.00	0.00	5,277.56
3522	04199000116 01 722439743	20,000.00	0.00	0.00	0.00	-1,205.00	18,795.00
3522	04199000117 01 819454519	5,000.00	0.00	0.00	-2,500.00	0.00	2,500.00
3522	04199000256 01 0009021920	5,000.00	0.00	0.00	-2,500.00	0.00	2,500.00
OBJECT TOTAL 3522		40,637.56	0.00	0.00	9,140.00	-20,456.00	29,321.56
3532 02199010654 01 605		122.00	0.00	0.00	0.00	0.00	122.00
3532 03199000182 01 722439743		10,000.00	0.00	0.00	2,000.00	-9,430.00	2,570.00
OBJECT TOTAL 3532		10,122.00	0.00	0.00	2,000.00	-9,430.00	2,692.00
APPR TOTAL 303		50,759.56	0.00	0.00	11,140.00	-29,886.00	32,013.56
ORG TOTAL 0740		70,759.56	0.00	0.00	7,803.00	-46,549.00	32,013.56

** EMNRD STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0740 WATER QUALITY MANAGEMENT

OB- JECT	ENCUMBRANCE NUMBER/LINE/VEHICLOR	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
0522	01199001366 10 733439743	20,000.00	0.00	0.00	-3,337.00	-16,663.00	0.00
OBJECT TOTAL	0522	20,000.00	0.00	0.00	-3,337.00	-16,663.00	0.00
APPR TOTAL	057	20,000.00	0.00	0.00	-3,337.00	-16,663.00	0.00

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 STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0721

OE- JECT	ENCUMBRANCE NUMBER/LINE/VEHICOR	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	***** ADJUSTED	INCEPTION TO DATE LIQUIDATED	UNLIQUIDATED
0831	01199003081 10 8:0298893	61,534.55	0.00	0.00	-5,136.00	-56,398.55	0.00
OBJECT TOTAL	0831	61,534.55	0.00	0.00	-5,136.00	-56,398.55	0.00
APPR TOTAL	087	61,534.55	0.00	0.00	-5,136.00	-56,398.55	0.00
OKS TOTAL	0721	310,810.06	0.00	0.00	-129,591.94	-181,218.12	0.00

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0721

OB- JECT	ENCUMBRANCE NUMBER/LINE/VEHICL	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
0571	01199000594 30 3000	220,237.00	0.00	0.00	-124,333.16	-95,903.84	0.00
	OBJECT TOTAL 0571	220,237.00	0.00	0.00	-124,333.16	-95,903.84	0.00
	APPR TOTAL 067	220,237.00	0.00	0.00	-124,333.16	-95,903.84	0.00

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0721

OE- JECT	ENCUMBRANCE NUMBER/LINE/VERSION	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
0491	01199009411 11 832454120	5,409.50	0.00	0.00	0.00	-5,409.50	0.00
0491	01199009412 10 303828437	23,629.01	0.00	0.00	-122.78	-23,506.23	0.00
OBJECT TOTAL	0491	29,038.51	0.00	0.00	-122.78	-28,915.73	0.00
APPR TOTAL	047	29,038.51	0.00	0.00	-122.78	-28,915.73	0.00

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** STATE OF NEW MEXICO FY: 2004
SUMMARY LISTING OF ENCUMBRANCES
FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, UTILITIES & NATURAL RESFUND: 189 GENERAL OPERATING FUND ORGN: 0713 OCD-ARTESIA DISTRICT OFFICE

OBJ	ENCUMBRANCE	ORIGINAL	*****CURRENT MONTH*****	*****INCEPTION TO DATE*****	UNLIQUIDATED
JECT	NUMBER/LINE/VEENDOR	AMOUNT	ADJUSTED LIQUIDATED	ADJUSTED LIQUIDATED	UNLIQUIDATED
4791	03199050418 01 800004662	85.00	0.00 0.00	0.00 -85.00	0.00
OBJECT TOTAL	4791	175.00	0.00 0.00	0.00 -175.00	0.00

APPR TOTAL	403	441,492.34	0.00 -18,995.83	5,422.91 -343,920.60	102,994.65
ORG TOTAL	0713	504,634.71	0.00 -18,995.83	16,311.98 -419,976.78	100,969.91

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** EMNRD STATE OF NEW MEXICO FY: 2004
 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, METALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0713 OCD-ARTESIA DISTRICT OFFICE

OBJECT	ENCUMBRANCE NUMBER/LINE/VEHICOR	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
4642	021990005299 01 800475462	16,655.66	0.00	0.00	0.00	-16,655.66	0.00
4642	03199000149 01 800475462	103,931.04	0.00	0.00	0.00	-103,931.04	0.00
4642	04199000123 01 800475462	99,081.62	0.00	-18,014.84	0.00	-36,029.68	63,051.94
OBJECT TOTAL	4642	302,946.62	0.00	-18,014.84	0.00	-239,894.68	63,051.94
4652	021990001527 01 06046476 D	169.81	0.00	0.00	0.00	-169.81	0.00
4652	021990001528 01 800434662	19.18	0.00	0.00	0.00	-19.18	0.00
4652	021990011237 01 100458020 Y	215.38	0.00	0.00	0.00	0.00	215.38
4652	03199000260 01 100468020 Y	3,720.00	0.00	0.00	0.00	-3,720.00	0.00
4652	03199050413 01 00046476 D	169.81	0.00	0.00	0.00	-169.81	0.00
4652	03199050530 01 800492941	98.89	0.00	0.00	0.00	-98.89	0.00
4652	04199056109 01 100458020 Y	1,077.85	0.00	0.00	0.00	-1,077.85	0.00
4652	04199000201 01 160458020 Y	3,710.00	0.00	0.00	0.00	-304.58	3,405.42
OBJECT TOTAL	4652	9,180.92	0.00	0.00	0.00	-5,560.12	3,620.80
4661	021990000187 01 800393957	31.74	0.00	0.00	0.00	0.00	31.74
4661	021990000248 01 800220994	3,598.92	0.00	0.00	25.15	-3,624.07	0.00
4661	02199000834 11 800273800	0.00	0.00	0.00	0.00	0.00	0.00
4661	02199001526 01 800451819 D	87.50	0.00	0.00	0.00	0.00	87.50
4661	02199002257 10 800273800	3,900.00	0.00	0.00	-1,585.00	-2,257.77	57.23
4661	02199002855 11 800273800	6,426.22	0.00	0.00	5,000.00	-11,208.11	218.11
4661	02199004768 01 901638901	255.24	0.00	0.00	0.00	0.00	266.24
4661	02199005456 01 901638901	550.00	0.00	0.00	0.00	-550.00	0.00
4661	03199000152 01 800273800 B	3,000.00	0.00	0.00	-321.00	-2,679.00	0.00
4661	03199000157 02 800273800 I	14,350.00	0.00	0.00	0.00	-14,350.00	0.00
4661	03199000365 01 800220994 I	3,815.20	0.00	0.00	-2,951.35	-863.85	0.00
4661	03199055014 01 85034338 G	506.50	0.00	0.00	0.00	-506.50	0.00
OBJECT TOTAL	4661	36,532.32	0.00	0.00	167.80	-36,039.30	660.82
4662	031990000365 02 800220994 I	0.00	0.00	0.00	2,481.35	-2,481.35	0.00
4662	03199050601 02 800451819 D	87.50	0.00	0.00	0.00	-87.50	0.00
4662	04199000115 02 800273800 I	14,400.00	0.00	0.00	0.00	-2,987.28	11,412.72
4662	04199000145 01 800220994 I	4,935.60	0.00	-412.80	0.00	-1,238.40	3,697.20
4662	04199000146 01 800273800 B	2,700.00	0.00	0.00	0.00	-448.56	2,251.44
4662	04199000189 01 850384338 G	2,600.00	0.00	0.00	0.00	-240.51	2,359.49
OBJECT TOTAL	4662	24,723.10	0.00	-412.80	2,481.35	-7,483.60	19,720.85
4791	02199004334 01 800434662	90.00	0.00	0.00	0.00	-90.00	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0713 OCD-ARTESIA DISTRICT OFFICE

OB-JECT	ENCUMBRANCE NUMBER/LINE/VE	ORIGINAL AMOUNT	CURRENT ADJUSTED	MONTH LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
4372	03199000159 01 000901242	5,268.70	0.00	0.00	0.00	-5,268.70	0.00
OBJECT TOTAL 4372		5,268.70	0.00	0.00	0.00	-5,268.70	0.00
4411	02199005521 01 706067217	699.00	0.00	0.00	0.00	-699.00	0.00
4411	02199005612 01 000495050 M	214.95	0.00	0.00	0.00	-214.95	0.00
4411	02199005615 01 800454120 A	243.00	0.00	0.00	0.00	-243.00	0.00
4411	02199005705 01 800485128	1,588.71	0.00	0.00	0.00	-1,588.71	0.00
4411	02199005713 01 85003951	141.65	0.00	0.00	0.00	-141.65	0.00
4411	02199005717 01 701047710 D	287.50	0.00	0.00	0.00	-287.50	0.00
4411	03199000957 01 590633954 K	2,024.74	0.00	0.00	0.00	0.00	2,024.74
4411	03199000959 01 800388297 C	196.00	0.00	0.00	0.00	0.00	196.00
4411	03199056010 01 M00041064	65.76	0.00	0.00	0.00	-65.76	0.00
4411	03199056315 01 700047217	799.00	0.00	0.00	0.00	-799.00	0.00
4411	03199056328 01 800483951	191.35	0.00	0.00	0.00	-191.35	0.00
OBJECT TOTAL 4411		6,451.66	0.00	0.00	0.00	-4,230.92	2,220.74
4421	02199005518 01 850072848	289.80	0.00	0.00	0.00	-289.80	0.00
OBJECT TOTAL 4421		289.80	0.00	0.00	0.00	-289.80	0.00
4441	02199013230 01 601482048 F	179.93	0.00	0.00	0.00	-179.93	0.00
4441	02199013232 01 850412778	900.00	0.00	0.00	0.00	-900.00	0.00
4441	02199013234 01 300739500 N	15.92	0.00	0.00	0.00	-15.92	0.00
OBJECT TOTAL 4441		1,095.85	0.00	0.00	0.00	-1,095.85	0.00
4491	02199005522 01 800483951	269.99	0.00	0.00	0.00	-269.99	0.00
OBJECT TOTAL 4491		269.99	0.00	0.00	0.00	-269.99	0.00
4612	02199005727 01 000090189	942.00	0.00	0.00	0.00	-942.00	0.00
OBJECT TOTAL 4612		942.00	0.00	0.00	0.00	-942.00	0.00
4632	02199001524 01 800019030 D	108.34	0.00	0.00	0.00	-33.92	74.42
4632	02199002186 01 800000103	142.41	0.00	0.00	0.00	-142.41	0.00
4632	02199010897 01 700575400	572.66	0.00	0.00	0.00	-572.66	0.00
4632	03199000135 01 700575400 E	4,920.00	0.00	0.00	0.00	-4,354.92	565.08
4632	03199000880 01 850019030 D	20.00	0.00	0.00	0.00	0.00	20.00
4632	03199050321 01 8500010103	127.54	0.00	0.00	0.00	-127.54	0.00
4632	03199050323 01 800090300 D	38.60	0.00	0.00	0.00	-38.60	0.00
4632	04199000140 01 700575400 C	4,925.00	0.00	0.00	0.00	-1,058.41	3,866.59
OBJECT TOTAL 4632		10,854.55	0.00	0.00	0.00	-6,328.46	4,526.09
4642	02199001701 10 800475462	83,278.30	0.00	0.00	0.00	-83,278.30	0.00

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0713 OCD-ARTESIA DISTRICT OFFICE

OB- JECT	ENCUMBRANCE NUMBER/LINE/VEHIC#	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
4221	02199003376 01 000002576	80.00	0.00	0.00	0.00	0.00	80.00
4221	02199005486 01 000002576	70.00	0.00	0.00	0.00	-70.00	0.00
4221	02199005488 01 500000923	241.00	0.00	0.00	0.00	-241.00	0.00
4221	02199005490 01 404542248	670.50	0.00	0.00	0.00	-670.50	0.00
4221	02199005491 01 500003663	158.00	0.00	0.00	0.00	-158.00	0.00
4221	03199055399 01 404542248	175.50	0.00	0.00	0.00	0.00	175.50
4221	03199056016 01 0000004810	87.50	0.00	0.00	0.00	-87.50	0.00
OBJECT TOTAL 4221		1,482.50	0.00	0.00	0.00	-1,227.00	255.50
4251	02199001155 12 801425616	10,000.00	0.00	0.00	-500.00	-9,500.00	0.00
4251	0319900234 03 801425616	1,500.00	0.00	0.00	0.00	-1,500.00	0.00
4251	0319900321 01 801425616	9,400.00	0.00	0.00	2,800.00	-12,200.00	0.00
4251	0419900151 01 801425616	8,700.00	0.00	0.00	0.00	-1,307.27	7,392.73
OBJECT TOTAL 4251		29,600.00	0.00	0.00	2,300.00	-24,507.27	7,392.73
4261	02199001155 22 801425616	0.00	0.00	0.00	1,000.00	-1,000.00	0.00
4261	02199005528 01 901538901 B	511.36	0.00	0.00	0.00	0.00	511.36
4261	02199011863 01 807101652	384.80	0.00	0.00	0.00	0.00	384.80
4261	02199013228 01 800416647	201.88	0.00	0.00	0.00	-201.88	0.00
4261	02199013229 01 000001718	74.50	0.00	0.00	0.00	-74.50	0.00
4261	03199001033 01 800343338 G	179.90	0.00	0.00	0.00	-179.90	0.00
OBJECT TOTAL 4261		1,352.44	0.00	0.00	1,000.00	-1,456.28	896.16
4262	03199000743 01 800375677	1,718.46	0.00	0.00	0.00	-1,718.46	0.00
4262	03199001033 02 800384338 G	63.50	0.00	0.00	0.00	-63.50	0.00
4262	03199052189 01 801425616	568.51	0.00	0.00	0.00	-568.51	0.00
4262	03199056036 01 800375677	167.10	0.00	0.00	0.00	-167.10	0.00
4262	03199056077 01 000002660	126.74	0.00	0.00	0.00	-126.74	0.00
4262	03199056252 01 800158548 D	1,080.80	0.00	0.00	0.00	-1,080.80	0.00
4262	0419900151 02 801425616	428.00	0.00	0.00	0.00	-68.43	359.57
OBJECT TOTAL 4262		4,153.11	0.00	0.00	0.00	-3,793.54	359.57
4321	02199013237 01 800442090	289.45	0.00	0.00	0.00	0.00	289.45
OBJECT TOTAL 4321		289.45	0.00	0.00	0.00	0.00	289.45
4331	02199002964 01 800332941	95.69	0.00	0.00	0.00	-95.69	0.00
OBJECT TOTAL 4331		95.69	0.00	0.00	0.00	-95.69	0.00
4371	02199001238 10 000001242	5,788.64	0.00	0.00	-526.24	-5,262.40	0.00
OBJECT TOTAL 4371		5,788.64	0.00	0.00	-526.24	-5,262.40	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESPOND; 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OE- JECT	ENCUMBRANCE NUMBER/LINE/VE	ORIGINAL AMOUNT	*****CURRENT MONTH*****		*****INCEPTION TO DATE*****		UNLIQUIDATED
			LIQUIDATED	ADJUSTED	LIQUIDATED	ADJUSTED	
4692	02199000250	10 840023778	0.00	0.00	0.00	-3,500.00	0.00
4692	02199000251	10 840046008	0.00	0.00	0.00	-3,550.00	0.00
4692	02199000252	10 84022013	0.00	0.00	0.00	-2,500.00	0.00
4692	02199011101	01 84022013	0.00	0.00	0.00	-385.91	0.00
4692	02199011183	01 84023778	0.00	0.00	0.00	-200.20	0.00
4692	02199011600	01 84023778	0.00	0.00	0.00	0.00	0.00
4692	02199011937	01 84022959	0.00	0.00	0.00	-117.15	0.00
4692	02199011940	01 84022959	0.00	0.00	0.00	-50.00	0.00
4692	02199013142	01 84021953 A	0.00	0.00	0.00	-800.00	0.00
4692	02199013143	01 840227429	0.00	0.00	0.00	-111.14	0.00
4692	02199013207	01 84027096	0.00	0.00	0.00	-41.59	0.00
4692	02199013317	01 84021950	0.00	0.00	0.00	-123.68	0.00
4692	03199000047	01 84022013	0.00	0.00	0.00	-2,730.00	0.00
4692	03199000048	01 84023778	0.00	0.00	0.00	-2,536.23	476.77
4692	03199000049	01 84023778	0.00	0.00	0.00	-2,000.00	0.00
4692	03199000050	01 84023778	0.00	0.00	0.00	-1,540.11	1,100.89
4692	03199050127	01 840274015	0.00	0.00	0.00	-99.81	199.46
4692	03199050128	01 840274015	0.00	0.00	0.00	0.00	80.49
4692	03199050129	01 840271950	0.00	0.00	0.00	-449.00	0.00
4692	03199050131	01 8402127429	0.00	0.00	0.00	30.00	0.00
4692	03199055113	01 8402128004	0.00	0.00	0.00	-80.94	0.00
4692	03199055114	01 840214950 A	0.00	0.00	0.00	-169.06	80.94
4692	03199055116	01 840237096	0.00	0.00	0.00	0.00	93.20
4692	03199055171	01 84023778	0.00	0.00	0.00	-55.13	0.00
4692	03199055172	01 84022959 A	0.00	0.00	0.00	-259.16	468.44
4692	04199000090	01 840212013	0.00	0.00	0.00	-48.73	117.01
4692	04199000091	01 84023778	0.00	0.00	0.00	-857.97	2,142.03
4692	04199000093	01 84023778	0.00	0.00	0.00	-514.69	2,412.00
4692	04199000093	01 84023778	0.00	0.00	0.00	-256.08	2,350.12
OBJECT TOTAL 4692			0.00	0.00	-1,116.39	-2,094.09	9,521.35
4821 02199005440 01 840268240 B			0.00	0.00	0.00	-14,898.91	0.00
OBJECT TOTAL 4821			0.00	0.00	0.00	-14,898.91	0.00
4831 02199004041 50 840214616			0.00	0.00	0.00	-4,447.62	0.00
4831 02199004779 40 04000263A			0.00	0.00	0.00	-33,600.00	0.00
4831 02199005516 01 740216805			65,453.00	0.00	33,600.00	-65,453.00	0.00
4831 02199005524 01 8402454120			37,584.62	0.00	0.00	-37,584.62	0.00
4831 02199005574 01 340238437			3,360.00	0.00	0.00	-3,360.00	0.00
4831 02199005709 01 740216805			16,450.00	0.00	0.00	-16,450.00	0.00
4831 03199000363 01 84022866			5,970.00	0.00	0.00	-5,970.00	0.00
4831 03199000442 01 840249683 A			52,402.00	0.00	0.00	-52,402.00	0.00
4831 03199000900 01 840254120 A			445.00	0.00	0.00	-445.00	0.00
4831 03199000924 02 740216805			24,555.00	0.00	0.00	-24,555.00	0.00

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OBJECT	ENCUMBRANCE NUMBER/LINE/VEH/DOR	ORIGINAL AMOUNT	*****CURRENT MONTH***** LIQUIDATED	*****INCEPTION TO DATE***** LIQUIDATED	ADJUSTED	UNLIQUIDATED
4652	03199054524 01 813353672	63.38	0.00	-63.38	0.00	0.00
4652	0419900109 01 11921089 B	5,680.00	0.00	-472.70	0.00	5,207.30
4652	0419900231 03 140468020 2	1,000.00	0.00	-92.89	0.00	907.11
4652	0419900232 04 150468020 2	130.00	0.00	0.00	0.00	130.00
OBJECT TOTAL 4652		26,765.88	0.00	-92.89	10,172.02	6,447.41
4661	0219900513 10 813273800	55,472.00	0.00	0.00	-55,472.00	0.00
4661	02199001062 10 330	34,000.00	0.00	0.00	-3,100.00	0.00
4661	02199010835 01 911379052 D	57.48	0.00	0.00	-57.48	0.00
4661	02199011064 01 243381659	194.68	0.00	0.00	0.00	0.00
4661	0319900139 01 350	32,000.00	0.00	0.00	-2,000.00	0.00
4661	03199050496 01 243381659	345.24	0.00	0.00	-27,002.33	2,997.67
4661	03199052376 01 830345528	385.00	0.00	0.00	-266.54	78.70
OBJECT TOTAL 4661		122,454.40	0.00	-92.89	-60,629.48	3,461.37
4662	04199000175 01 330	32,400.00	0.00	0.00	0.00	32,400.00
OBJECT TOTAL 4662		32,400.00	0.00	0.00	0.00	32,400.00
4671	02199001823 10 811426373	1,525.00	0.00	0.00	0.00	0.00
4671	02199001866 20 145499170	0.00	0.00	0.00	1,754.33	0.00
4671	02199003853 10 711310455	5,000.00	0.00	0.00	0.00	0.00
4671	02199004177 01 341	70.00	0.00	0.00	-70.00	0.00
4671	02199005335 01 737222750	15,400.00	0.00	0.00	0.00	0.00
4671	02199010013 01 736522750	195.00	0.00	0.00	-195.00	0.00
4671	0319900228 02 208	385.20	0.00	0.00	0.00	0.00
4671	0319900267 04 140499170	1,754.33	0.00	0.00	121.35	0.00
4671	0319900407 01 731210455	5,000.00	0.00	0.00	0.00	0.00
4671	0319900482 01 811426373 A	1,690.00	0.00	0.00	0.00	0.00
4671	0319900840 01 736022750	34,800.00	0.00	0.00	0.00	0.00
4671	0419900159 01 731210455	5,000.00	0.00	0.00	0.00	0.00
4671	0419900278 03 208	426.00	0.00	0.00	0.00	426.00
OBJECT TOTAL 4671		71,245.53	0.00	0.00	1,610.68	426.00
4681	02199004101 50 450680349	0.00	0.00	0.00	1,500.00	0.00
4681	02199004657 60 943316289	0.00	0.00	0.00	374.00	0.00
4681	02199005240 01 850311615	3,249.00	0.00	0.00	0.00	0.00
4681	02199005333 05 460680349	750.00	0.00	0.00	0.00	0.00
4681	02199012591 01 350	15.00	0.00	0.00	-15.00	0.00
OBJECT TOTAL 4681		4,014.00	0.00	0.00	1,859.00	0.00
4682	02199000249 10 850095953	3,700.00	0.00	0.00	0.00	0.00
OBJECT TOTAL 4682		3,700.00	0.00	0.00	0.00	0.00

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OBJE- JECT	ENCUMBRANCE NUMBER/LINE/VERSION	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
OBJECT TOTAL	4491	4,930.19	0.00	0.00	-309.87	-4,620.32	0.00
4571	02199001075 20 3	110,000.00	0.00	0.00	-3,924.36	-106,075.64	0.00
OBJECT TOTAL	4571	110,000.00	0.00	0.00	-3,924.36	-106,075.64	0.00
4572	03199000116 03 3	110,000.00	0.00	-9,921.70	9,456.00	-111,396.86	8,059.14
4572	04199000121 02 3	109,600.00	0.00	-5.00	0.00	-5.00	109,595.00
OBJECT TOTAL	4572	219,600.00	0.00	-9,926.70	9,456.00	-111,401.86	117,654.14
4592	02199003180 00 8	0.00	0.00	0.00	956.66	-956.66	0.00
4592	03199000418 05 8	752.15	0.00	0.00	369.60	-1,121.75	0.00
OBJECT TOTAL	4592	752.15	0.00	0.00	1,326.26	-2,078.41	0.00
4612	02199001084 50 3	0.00	0.00	0.00	467.51	-467.51	0.00
4612	02199002492 50 1	0.00	0.00	0.00	1,282.50	-1,282.50	0.00
4612	02199005415 05 1	1,000.00	0.00	0.00	-1,000.00	0.00	0.00
4612	02199010440 05 1	830.04	0.00	0.00	0.00	-830.04	0.00
4612	03199002028 06 1	5,000.00	0.00	0.00	0.00	-5,000.00	0.00
4612	03199000530 05 1	5,000.00	0.00	0.00	0.00	-5,000.00	0.00
4612	03199000927 04 3	75.00	0.00	0.00	0.00	-74.85	0.15
4612	03199000929 06 7	75.00	0.00	0.00	0.00	-68.16	6.84
4612	04199000144 05 1	2,800.00	0.00	0.00	0.00	-2,800.00	0.00
OBJECT TOTAL	4612	14,780.04	0.00	0.00	750.01	-15,523.06	6.99
4632	02199005595 01 9	10,000.00	0.00	0.00	0.00	-10,000.00	0.00
4632	03199054513 01 8	7.33	0.00	0.00	0.00	-1.04	6.29
OBJECT TOTAL	4632	10,007.33	0.00	0.00	0.00	-10,001.04	6.29
4652	02199000596 10 1	2,292.24	0.00	0.00	0.00	-2,292.24	0.00
4652	02199001087 60 1	0.00	0.00	0.00	4,230.44	-4,230.44	0.00
4652	02199001088 60 1	0.00	0.00	0.00	5,000.00	-5,000.00	0.00
4652	02199003951 10 1	2,322.69	0.00	0.00	-105.90	-2,216.79	0.00
4652	02199005098 01 1	2,240.00	0.00	0.00	0.00	-2,240.00	0.00
4652	02199010906 01 8	451.96	0.00	0.00	0.00	-248.96	203.00
4652	02199011336 01 8	31.69	0.00	0.00	0.00	-31.69	0.00
4652	02199013129 01 1	894.96	0.00	0.00	0.00	-894.96	0.00
4652	03199000134 01 1	5,658.96	0.00	0.00	55.00	-5,713.96	0.00
4652	03199000136 01 8	2,000.00	0.00	0.00	312.48	-2,312.48	0.00
4652	03199000174 05 1	3,000.00	0.00	0.00	0.00	-3,000.00	0.00
4652	03199000215 06 1	1,000.00	0.00	0.00	680.00	-1,680.00	0.00

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OBJECT	ENCUMBRANCE NUMBER/LINE/VEH/NO	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
OBJECT TOTAL	4321	6,986.00	0.00	0.00	450.00	-7,436.00	0.00
4322	03199000326 01 850414616	8,018.47	0.00	0.00	0.00	-8,018.47	0.00
4322	03199000558 02 0000000263	1,155.48	0.00	0.00	0.00	-1,155.48	0.00
4322	03199051336 01 303334800 A	200.00	0.00	0.00	0.00	-200.00	0.00
4322	04199000099 01 100871985 A	4,807.49	0.00	0.00	0.00	0.00	4,807.49
4322	04199000107 02 800389293 C	2,500.00	0.00	0.00	0.00	-945.35	1,554.65
OBJECT TOTAL	4322	16,681.44	0.00	0.00	0.00	-10,319.30	6,362.14
4331	02199013189 01 850096391	740.00	0.00	0.00	0.00	-740.00	0.00
OBJECT TOTAL	4331	740.00	0.00	0.00	0.00	-740.00	0.00
4411	02199005543 01 850234782 A	1,186.34	0.00	0.00	0.00	-1,186.34	0.00
4411	02199005554 01 850442090	440.00	0.00	0.00	0.00	-440.00	0.00
4411	02199005600 01 85048716 F	1,102.61	0.00	0.00	0.00	-1,102.61	0.00
4411	02199005602 01 40554848 A	1,407.52	0.00	0.00	0.00	-1,407.52	0.00
4411	02199005605 01 592663954 C	497.84	0.00	0.00	0.00	-497.84	0.00
4411	02199005708 05 85045128	707.51	0.00	0.00	0.00	-707.51	0.00
4411	02199005751 03 850454120 A	622.25	0.00	0.00	0.00	-622.25	0.00
4411	02199013060 01 300	63.00	0.00	0.00	0.00	-63.00	0.00
4411	02199013140 01 700	115.50	0.00	0.00	0.00	0.00	115.50
4411	02199013236 01 850387036	399.00	0.00	0.00	0.00	-399.00	0.00
4411	02199013241 01 850706814	217.80	0.00	0.00	0.00	-217.80	0.00
4411	02199013250 01 850715545 C	36.00	0.00	0.00	0.00	-36.00	0.00
OBJECT TOTAL	4411	6,795.37	0.00	0.00	0.00	-6,679.87	115.50
4421	02199013076 01 850172848	161.00	0.00	0.00	0.00	-161.00	0.00
OBJECT TOTAL	4421	161.00	0.00	0.00	0.00	-161.00	0.00
4441	02199013138 02 850310890	8.00	0.00	0.00	0.00	0.00	8.00
4441	02199013242 02 102565153	5.00	0.00	0.00	-5.00	0.00	0.00
OBJECT TOTAL	4441	13.00	0.00	0.00	-5.00	0.00	8.00
4491	02199005609 01 507663954 C	69.99	0.00	0.00	0.00	-69.99	0.00
4491	02199005779 01 406617510 C	176.40	0.00	0.00	0.00	-176.40	0.00
4491	02199005780 01 850454120 A	2,510.00	0.00	0.00	0.00	-2,510.00	0.00
4491	02199013080 01 391054756	309.87	0.00	0.00	-309.87	0.00	0.00
4491	02199013084 01 850396033	451.43	0.00	0.00	0.00	-451.43	0.00
4491	02199013140 02 700	357.50	0.00	0.00	0.00	-357.50	0.00
4491	03199000924 01 750716805	1,055.00	0.00	0.00	0.00	-1,055.00	0.00

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STATE OF NEW MEXICO FY: 2004
SUMMARY LISTING OF ENCUMBRANCES
FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OB-JECT	ENCUMBRANCE NUMBER/LINE/VENTURE	ORIGINAL AMOUNT	CURRENT MONTH LIQUIDATED	INCEPTION TO DATE LIQUIDATED	ADJUSTED	UNLIQUIDATED
4221	02199011130 01 813508194	175.00	0.00	0.00	-87.50	0.00
4221	02199012664 01 432246038	217.50	0.00	0.00	-217.50	0.00
4221	02199013132 01 43614585	276.00	0.00	0.00	-276.00	0.00
4221	02199013137 01 060004245	159.00	0.00	0.00	-159.00	0.00
4221	02199013138 01 5530890	213.37	0.00	0.00	-213.37	0.00
4221	02199013162 01 22472836	87.50	0.00	0.00	0.00	0.00
4221	02199013166 01 53576403	87.50	0.00	0.00	-87.50	0.00
4221	02199013226 01 5090808	347.50	0.00	0.00	-347.50	0.00
4221	02199013242 01 142865153	227.00	0.00	0.00	-227.00	0.00
4221	02199013269 01 4010641	152.50	0.00	0.00	-152.50	0.00
4221	03199000100 01 5090808	3,000.00	0.00	0.00	-380.50	0.00
4221	0319905521 01 00004673	65.00	0.00	0.00	-65.00	0.00
4221	03199056157 01 4010641	87.50	0.00	0.00	-87.50	0.00
4221	03199056158 01 513548194	217.50	0.00	0.00	-217.50	0.00
4221	03199056160 01 43614585	217.50	0.00	0.00	-217.50	0.00
4221	03199056161 01 00004245	152.50	0.00	0.00	-152.50	0.00
4221	04199000133 01 5090808	3,000.00	0.00	0.00	0.00	3,000.00 pk
OBJECT TOTAL	4221	8,682.87	0.00	-730.50	-4,952.37	3,000.00
4251	02199001155 10 81425616	5,800.00	0.00	0.00	-700.00	0.00
4251	03199000234 01 81425616	502.00	0.00	0.00	-502.00	0.00
4251	03199000271 01 81425616	5,400.00	0.00	0.00	-962.00	0.00
4251	04199000113 01 81425616	5,400.00	0.00	-476.42	-781.06	4,618.94
OBJECT TOTAL	4251	17,102.00	0.00	-1,662.00	-10,821.06	4,618.94
4261	02199001155 20 81425616	0.00	0.00	0.00	250.00	0.00
4261	02199005462 01 85094300	1,910.90	0.00	0.00	-1,910.90	0.00
4261	02199005763 01 85094300	245.00	0.00	0.00	-245.00	0.00
4261	02199010656 01 850943141	79.88	0.00	0.00	-79.88	0.00
4261	02199012326 01 850943113	29.39	0.00	0.00	-29.39	0.00
4261	02199012359 01 850943300	32.24	0.00	0.00	-32.24	0.00
4261	02199012427 01 850943738	28.26	0.00	0.00	-28.26	0.00
OBJECT TOTAL	4261	2,325.67	0.00	108.49	-2,434.16	0.00
4262	03199000237 01 81425616	3,000.00	0.00	0.00	-3,000.00	0.00
4262	03199000271 02 81425616	250.00	0.00	0.00	-64.55	54.38
4262	04199000113 02 81425616	300.00	0.00	-26.62	-26.62	273.38
OBJECT TOTAL	4262	3,550.00	0.00	-64.55	-3,157.69	327.76
4321	02199002583 01 5090808 A	237.50	0.00	0.00	0.00	0.00
4321	02199004780 22 000000263	5,990.00	0.00	450.00	-6,440.00	0.00
4321	02199005509 03 81425616 A	758.50	0.00	0.00	-758.50	0.00

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 SUMMARY LISTING OF ENCUMBRANCES
 FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, GENERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OBJCT	ENCUMBRANCE NUMBER/LINE/VEINOR	ORIGINAL AMOUNT	*****CURRENT MONTH*****		*****INCEPTION TO DATE*****		UNLIQUIDATED
			ADJUSTED	LIQUIDATED	ADJUSTED	LIQUIDATED	
3522	02199000514 10 52814674	10,000.00	0.00	0.00	-951.37	-9,048.63	0.00
3522	02199002143 10 842375229	4,900.00	0.00	0.00	0.00	-4,900.00	0.00
3522	02199002467 01 54564046	15,000.00	0.00	0.00	14,044.00	-29,044.00	0.00
3522	02199005107 02 81040164	8,900.00	0.00	0.00	0.00	-8,900.00	0.00
3522	02199005298 01 80061256	8,500.00	0.00	0.00	0.00	-7,914.14	585.86
3522	03199000211 01 54514046	15,000.00	0.00	-1,723.21	23,942.00	-25,989.71	12,952.29
3522	04199000298 01 00000263	7,542.81	0.00	0.00	0.00	0.00	7,542.81
OBJECT TOTAL 3522		69,842.81	0.00	-1,723.21	37,034.63	-85,796.48	21,080.96
3532	03199000235 01 54554046	5,000.00	0.00	0.00	0.00	-5,000.00	0.00
3532	03199000536 01 800402866	13,651.00	0.00	0.00	-13,651.00	0.00	0.00
3532	03199000629 01 00000263	14,136.09	0.00	0.00	0.00	-14,136.09	0.00
3532	03199000746 03 00000263	8,263.91	0.00	0.00	0.00	-8,263.91	0.00
OBJECT TOTAL 3532		41,051.00	0.00	0.00	-13,651.00	-27,400.00	0.00
3542	02199005323 04 800091668	10,300.00	0.00	0.00	0.00	-10,300.00	0.00
3542	03199000814 05 800091668	10,300.00	0.00	0.00	0.00	0.00	10,300.00
OBJECT TOTAL 3542		20,600.00	0.00	0.00	0.00	-10,300.00	10,300.00
APPR TOTAL 303		131,493.81	0.00	-1,723.21	23,383.63	-123,496.48	31,380.96

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SUMMARY LISTING OF ENCUMBRANCES
FOR PERIOD ENDING 09/30/2003

AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 190 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OBJECT	ENCUMBRANCE NUMBER/LINE/VE FOR	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
0961	01199008432 20 58340191	1,075.00	0.00	0.00	0.00	-1,075.00	0.00
0961	01199008488 10 83306879	570.25	0.00	0.00	0.00	-570.25	0.00
0961	01199009133 10 43310641	103.50	0.00	0.00	0.00	-103.50	0.00
OBJECT TOTAL	0961	1,748.75	0.00	0.00	0.00	-1,748.75	0.00
OBJECT TOTAL	0971	559.50	0.00	0.00	0.00	-559.50	0.00
OBJECT TOTAL	0971	559.50	0.00	0.00	0.00	-559.50	0.00
APPR TOTAL	097	2,308.25	0.00	0.00	0.00	-2,308.25	0.00

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 FOR PERIOD ENDING 09/30/2003

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OBJECT	ENCUMBRANCE NUMBER/LINE/VEHICR	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
0821	01199007604 10 800496023	4,100.00	0.00	0.00	0.00	-4,100.00	0.00
0821	01199009429 10 800458240	24,449.88	0.00	0.00	0.00	-24,449.88	0.00
OBJECT TOTAL	0821	28,549.88	0.00	0.00	0.00	-28,549.88	0.00
0831	01199009413 10 800454120	53,777.00	0.00	0.00	0.00	-53,777.00	0.00
OBJECT TOTAL	0831	53,777.00	0.00	0.00	0.00	-53,777.00	0.00
0881	01199007141 10 800258548	25,940.00	0.00	0.00	0.00	-25,940.00	0.00
0881	01199008873 10 800391552	76,080.00	0.00	0.00	0.00	-76,080.00	0.00
OBJECT TOTAL	0881	102,020.00	0.00	0.00	0.00	-102,020.00	0.00
APPR TOTAL	087	184,346.88	0.00	0.00	0.00	-184,346.88	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OBJECT	ENCUMBRANCE NUMBER/LINE/VERSION	ORIGINAL AMOUNT	CURRENT MONTH ADJUSTED	LIQUIDATED	INCEPTION TO DATE ADJUSTED	LIQUIDATED	UNLIQUIDATED
0571	01199004439 10 200	20,353.00	0.00	0.00	0.00	-20,353.00	0.00
OBJECT TOTAL 0571		20,353.00	0.00	0.00	0.00	-20,353.00	0.00
0612	01199000849 50 7 0427007	0.00	0.00	0.00	645.48	-645.48	0.00
0612	01199000850 50 302407381	0.00	0.00	0.00	558.83	-558.83	0.00
OBJECT TOTAL 0612		0.00	0.00	0.00	1,204.31	-1,204.31	0.00
0652	01199000168 10 10048020	9,014.64	0.00	0.00	4.96	-9,019.60	0.00
0652	01199001033 60 169458020	0.00	0.00	0.00	3,316.58	-3,316.58	0.00
OBJECT TOTAL 0652		9,014.64	0.00	0.00	3,321.54	-12,336.18	0.00
0661	01199000115 10 2 3381659	1,774.20	0.00	0.00	153.16	-1,927.36	0.00
0661	01199000376 10 300	40,000.00	0.00	0.00	-4,300.00	-35,700.00	0.00
0661	01199003560 40 84573800	0.00	0.00	0.00	5,036.10	-5,036.10	0.00
0661	01199009073 10 43338834	29.56	0.00	0.00	0.00	-29.56	0.00
OBJECT TOTAL 0661		41,803.76	0.00	0.00	889.26	-42,693.02	0.00
0671	01199008279 10 7A6032750	14,700.00	0.00	0.00	0.00	-14,700.00	0.00
OBJECT TOTAL 0671		14,700.00	0.00	0.00	0.00	-14,700.00	0.00
0692	01199000031 10 856096008	3,000.00	0.00	0.00	1,824.78	-4,824.78	0.00
0692	01199000033 10 856095953	4,000.00	0.00	0.00	800.00	-4,800.00	0.00
0692	01199000035 10 856127429	1,000.00	0.00	0.00	0.00	-1,000.00	0.00
0692	01199000055 10 856212013	3,000.00	0.00	0.00	-511.16	-2,488.84	0.00
0692	01199006121 10 856302959	97.28	0.00	0.00	0.00	-97.28	0.00
0692	01199008877 10 856395953	1,000.00	0.00	0.00	0.00	-1,000.00	0.00
0692	01199009430 10 856371950	200.00	0.00	0.00	-19.32	-180.68	0.00
0692	01199009431 10 856323778	500.00	0.00	0.00	-55.16	-444.84	0.00
0692	01199009432 10 856390692	75.00	0.00	0.00	0.00	-75.00	0.00
0692	01199009551 10 856428004	63.84	0.00	0.00	-63.84	0.00	0.00
OBJECT TOTAL 0692		12,936.12	0.00	0.00	1,975.30	-14,911.42	0.00
APER TOTAL 067		98,807.52	0.00	0.00	7,390.41	-106,197.93	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OB-JECT	ENCUMBRANCE NUMBER/LINE/VER/C&	ORIGINAL AMOUNT	*****CURRENT MONTH***** LIQUIDATED	*****INCEPTION TO DATE***** LIQUIDATED	UNLIQUIDATED
			ADJUSTED	ADJUSTED	
0522	0119900357 20 5 4554046	12,500.00	0.00	0.00	0.00
0522	01199002484 10 4 149632	15,000.00	0.00	-12,500.00	0.00
0522	01199004801 20 7 50357858	48,187.00	0.00	-15,000.00	0.00
0522	01199006403 10 8 1075229	15,000.00	0.00	0.00	0.00
0522	01199008769 60 3 3328080	0.00	0.00	373.93	0.00
OBJECT TOTAL	0522	90,687.00	0.00	-14,626.07	0.00
0532	01199007016 60 5 3744336	0.00	0.00	959.42	0.00
OBJECT TOTAL	0532	0.00	0.00	959.42	0.00
0542	01199009164 20 8 5031668	0.00	0.00	11,400.00	0.00
OBJECT TOTAL	0542	0.00	0.00	11,400.00	0.00
APPR TOTAL	057	90,687.00	0.00	-2,266.65	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 159 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OE- JECT	ENCUMBRANCE NUMBER/LINE/VEHICOR	ORIGINAL AMOUNT	*****CURRENT MONTH*****		*****INCEPTION TO DATE*****		UNLIQUIDATED
			ADJUSTED	LIQUIDATED	ADJUSTED	LIQUIDATED	
0411	01199008018 20 8 3453685	7,040.00	0.00	0.00	0.00	-7,040.00	0.00
0411	01199008223 10 4 0354848 A	399.00	0.00	0.00	0.00	-399.00	0.00
0411	01199009373 10 7 3057217	500.00	0.00	0.00	0.00	-500.00	0.00
0411	01199009374 10 8 3044120 A	270.00	0.00	0.00	0.00	-270.00	0.00
0411	01199009375 10 3 300.00	300.00	0.00	0.00	0.00	-300.00	0.00
0411	01199009376 10 8 4076814	113.00	0.00	0.00	0.00	-113.00	0.00
0411	01199009377 10 8 5508996	454.09	0.00	0.00	0.00	-454.09	0.00
0411	01199009378 10 8 41248716	745.95	0.00	0.00	0.00	-745.95	0.00
0411	01199009379 10 8 30715545	421.50	0.00	0.00	0.00	-421.50	0.00
0411	01199009380 10 8 3038996	244.84	0.00	0.00	0.00	-244.84	0.00
0411	01199009381 10 8 3065128	158.07	0.00	0.00	0.00	-158.07	0.00
0411	01199009382 10 6 1337190	659.82	0.00	0.00	0.00	-659.82	0.00
0411	01199009383 10 4 0564848 A	426.24	0.00	0.00	0.00	-426.24	0.00
OBJECT TOTAL 0411		11,732.51	0.00	0.00	0.00	-11,732.51	0.00
0441	01199008453 20 1 2555153	6.00	0.00	0.00	0.00	-6.00	0.00
0441	01199009076 20 5 3528344	5.00	0.00	0.00	0.00	-5.00	0.00
0441	01199009077 20 5 3548194	4.00	0.00	0.00	0.00	-4.00	0.00
0441	01199009371 10 7 30231680	443.20	0.00	0.00	0.00	-443.20	0.00
OBJECT TOTAL 0441		458.20	0.00	0.00	0.00	-443.20	0.00
0491	01199007725 10 3 30248437	238.37	0.00	0.00	0.00	-238.37	0.00
0491	01199008813 10 4 1101593	495.62	0.00	0.00	0.00	-495.62	0.00
0491	01199008874 10 7 00	3,019.50	0.00	0.00	0.00	-3,019.50	0.00
0491	01195008876 10 2 30238679	525.20	0.00	0.00	0.00	-525.20	0.00
OBJECT TOTAL 0491		4,278.69	0.00	0.00	0.00	-4,040.32	0.00
AFTER TOTAL 047		16,469.40	0.00	0.00	0.00	-16,216.03	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OB- JECT	ENCUMBRANCE NUMBER/LINE/VENDOR	ORIGINAL AMOUNT	*****CURRENT MONTH***** ADJUSTED	LIQUIDATED	*****INCEPTION TO DATE***** ADJUSTED	LIQUIDATED	UNLIQUIDATED
0321	01199001870 20 303034800	640.00	0.00	0.00	0.00	-640.00	0.00
OBJECT TOTAL 0321		640.00	0.00	0.00	0.00	-640.00	0.00
APPR TOTAL 037		640.00	0.00	0.00	0.00	-640.00	0.00

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AGENCY: 521 ENERGY, MINERALS & NATURAL RESFUND: 199 GENERAL OPERATING FUND ORGN: 0711 OCD-SANTA FE OFFICE

OB-JECT	ENCUMBRANCE NUMBER/LINE/VENTON	ORIGINAL AMOUNT	CURRENT MONTH LIQUIDATED ADJUSTED	INCEPTION TO DATE LIQUIDATED ADJUSTED	UNLIQUIDATED
0221	01199007561 10 570800808	435.00	0.00	0.00	0.00
0221	01199008453 10 142535153	87.50	0.00	-87.50	0.00
0221	01199008455 11 413198834	146.00	0.00	0.00	0.00
0221	01199008456 10 209501561	282.50	0.00	0.00	0.00
0221	01199008718 10 44374585	217.50	0.00	0.00	0.00
0221	01199009074 10 230722836	87.50	0.00	-87.50	0.00
0221	01199009075 10 432245038	152.50	0.00	0.00	0.00
0221	01199009076 10 505123344	217.50	0.00	0.00	0.00
0221	01199009077 10 503548194	500.00	0.00	0.00	0.00
0221	01199009303 10 80196731	87.50	0.00	-87.50	0.00
0221	01199009532 10 449031134	87.50	0.00	0.00	0.00
OBJECT TOTAL	0221	2,301.00	0.00	-262.50	0.00
OBJECT TOTAL	0251	3,465.00	0.00	-103.59	0.00
OBJECT TOTAL	0261	3,465.00	0.00	-103.59	0.00
OBJECT TOTAL	0261	0.00	0.00	143.81	0.00
OBJECT TOTAL	0261	109.30	0.00	0.00	0.00
OBJECT TOTAL	0261	109.30	0.00	143.81	0.00
APPR TOTAL	027	5,875.30	0.00	-222.28	0.00
APPR TOTAL	027	5,875.30	0.00	-5,653.02	0.00

