Case Nos. 10793, 10981 and 11004 (Reopened)

and 11421 and 11422 Consolidated

Exhibit No. <u>2</u>

Submitted by: _____Yates Petroleum Corporation _____

TE OF NEW MEXICO ND NATURAL RESOURCES DEPARTMENT INSERVATION DIVISION

Hearing Date: _____ November 2, 1995____

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

CASE NOS. 10981 and 11004 Order No. R-9976-A

APPLICATION OF YATES PETROLEUM CORPORATION TO AMEND DIVISION ORDER NO. R-9976 TO EXPAND ITS PILOT GAS ENHANCED RECOVERY PROJECT WITHIN PORTIONS OF THE PECOS SLOPE-ABO GAS POOL, CHAVES COUNTY, NEW MEXICO.

APPLICATION OF YATES PETROLEUM CORPORATION FOR THIRTEEN UNORTHODOX INFILL GAS WELL LOCATIONS, CHAVES COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

Case No. 10981 came on for hearing at 8:15 a.m. on May 26, 1994, at Santa Fe, New Mexico, before Examiner David R. Catanach.

Case No. 11004 came on for hearing at 8:15 a.m. on June 23, 1994, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 26th day of July, 1994, the Division Director, having considered the testimony, the record, and the recommendations of the Examiners, 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) By Order No. R-9976 issued in Case No. 10793 on September 24, 1993, the Division, upon application of Yates Petroleum Corporation, approved a pilot infill drilling program within portions of the Pecos Slope-Abo Gas Pool, Chaves County, New Mexico, for the purpose of allowing the applicant the opportunity to gather data to determine if infill drilling is necessary to effectively and efficiently drain the Abo formation.

CASE NOS. 10981 and 11004 Order No. R-9976-A Page -2-

(3) The applicant was initially authorized by said Order No. R-9976 to drill an infill gas well within each of the following described 160-acre standard gas proration units, and within a non-standard 201.29-acre gas spacing and proration unit comprising all of Irregular Section 1, Township 6 South, Range 25 East, NMPM:

TOWNSHIP	6 SOUTH.	RANGE	25	<u>EAST.</u>	<u>NMPM</u>
Section 8:	NE/4				
Section 11:	SE/4	· • •·			
Section 24:	S W /4				
Section 26:	NE/4				
Section 35:	NE/4				

(4) Order No. R-9976 further authorized the applicant to produce both wells within each of the proration units described above unrestricted for a temporary period of two years for the purpose of gathering geologic and engineering data.

(5) The applicant in Case No. 10981, Yates Petroleum Corporation, seeks to amend Division Order No. R-9976 to expand its pilot infill drilling program within the Pecos Slope-Abo Gas Pool by drilling an additional gas well on each of the following existing 160-acre standard gas proration units, and on a 166.0-acre non-standard gas proration unit comprising all of Irregular Section 5, Township 6 South, Range 26 East, NMPM:

TOWNSHIP	5 SOUTH, RANGE 25 EAST, NMPM
Section 16:	NE/4
Section 32:	S W /4
TOWNSHIP	6 SOUTH, RANGE 26 EAST, NMPM
Section 7:	NE/4
Section 18:	SE/4
Section 19:	SE/4
Section 31:	NE/4
TOWNSHIP	7 SOUTH. RANGE 25 EAST. NMPM
TOWNSHIP Section 3:	
	SE/4
Section 3:	SE/4 NW/4
Section 3: Section 10:	SE/4 NW/4 SE/4
Section 3: Section 10: Section 11:	SE/4 NW/4 SE/4 NW/4
Section 3: Section 10: Section 11: Section 13:	SE/4 NW/4 SE/4 NW/4 NW/4
Section 3: Section 10: Section 11: Section 13: Section 15:	SE/4 NW/4 SE/4 NW/4 NW/4 NW/4
Section 3: Section 10: Section 11: Section 13: Section 15: Section 22:	SE/4 NW/4 SE/4 NW/4 NW/4 NW/4 NW/4

CASE NOS. 10981 and 11004 Order No. R-9976-A Page -2-

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Section 8:	NE/4			
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Section 26:	NE/4			
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(4) Order No. R-9976 further authorized the applicant to produce both wells within each of the proration units described above unrestricted for a temporary period of two years for the purpose of gathering geologic and engineering data.

(5) The applicant in Case No. 10981, Yates Petroleum Corporation, seeks to amend Division Order No. R-9976 to expand its pilot infill drilling program within the Pecos Slope-Abo Gas Pool by drilling an additional gas well on each of the following existing 160-acre standard gas proration units, and on a 166.0-acre non-standard gas proration unit comprising all of Irregular Section 5, Township 6 South, Range 26 East, NMPM:

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Section 18:	SE/4
Section 19:	SE/4
Section 31:	NE/4
TOWNSHIP '	7 SOUTH, RANGE 25 EAST, NMPM
TOWNSHIP Section 3:	
	SE/4
Section 3:	SE/4 NW/4
Section 3: Section 10:	SE/4 NW/4 SE/4
Section 3: Section 10: Section 11:	SE/4 NW/4 SE/4 NW/4
Section 3: Section 10: Section 11: Section 13:	SE/4 NW/4 SE/4 NW/4 NW/4
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Roswell, New Mexico

Case Nos. <u>10793, 10981 and 11004 (Reopened)</u> <u>and 11421 and 11422 Consolidated</u> Exhibit No. <u>2</u>

Submitted by: Yates Petroleum Corporation

TE OF NEW MEXICO ND NATURAL RESOURCES DEPARTMENT INSERVATION DIVISION

Hearing Date: _____ November 2, 1995

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NOW, on this 26th day of July, 1994, the Division Director, having considered the testimony, the record, and the recommendations of the Examiners, 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.

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TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM

•••

Section 6: NE/4 Section 18: SE/4 Section 19: SW/4 Section 21: SE/4

(6) The applicant further seeks authority to produce both wells within the abovedescribed proration units unrestricted until August. 1995, at which time Case No. 10793 is to be reopened pursuant to the provisions of Order No. R-9976, to allow the applicant to appear and present the results of the pilot infill drilling program and make recommendations, if applicable, to the rules which currently govern the Pecos-Slope Abo Gas Pool.

(7) In companion Case No. 11004, Yates Petroleum Corporation, seeks approval of thirteen unorthodox gas well locations within the existing or proposed expanded pilot infill drilling area in the Pecos Slope-Abo Gas Pool.

(8) Inasmuch as the subject matter of Case Nos. 10981 and 11004 are related, one order should be entered for both cases.

(9) The applicant presented the initial geologic and engineering results it obtained in the drilling of the six infill wells approved by Order No. R-9976. According to applicant's evidence and testimony, five of the six wells were deemed to have been geologically successful in terms of predicting and encountering sufficient sand thickness so as to establish commercial gas production.

(10) The engineering evidence and testimony presented by the applicant indicates that:

- a) all six wells encountered a reservoir pressure higher than the reservoir pressure within the existing well on the proration unit. Of the six, four wells encountered significantly higher reservoir pressures;
- b) four of the wells are currently producing at rates significantly higher than the average rate of the wells offsetting the proration unit;
- c) four of the weils should recover an average of 570 MMCF of gas reserves which would otherwise not be recovered by the existing well on the proration unit.

CASE NOS. 10981 and 11004 Order No. R-9976-A Page -4-

(11) The geologic and engineering data presented by the applicant indicates that four of the subject wells have encountered pay sands or low permeability portions of the reservoir which were not encountered and/or drained by the original well on the proration unit.

(12) The applicant contends that the results of the infill drilling conducted thus far are very encouraging but are inconclusive in determining whether infill drilling is necessary in the Pecos Slope-Abo Gas Pool.

(13) Division records indicate that the Pecos Slope-Abo Gas Pool embraces a substantially large area in portions of Townships 4 and 5 South. Ranges 24 and 25 East, and Townships 6, 7 and 8 South, Ranges 24, 25, 26 and 27 East, NMPM.

(14) The initial pilot infill drilling program was limited to areas within Township 6 South, Range 25 East, NMPM.

(15) The applicant's proposed expanded infill drilling program will encompass a much broader area of the pool than was tested in the initial pilot area.

(16) The reservoir characteristics are generally not consistent within the Pecos Slope-Abo Gas Pool and therefore additional geologic and engineering data reflecting a larger cross sectional area of the pool will be beneficial in determining the necessity of infill drilling.

(17) All of the proration units proposed to be included within the expanded pilot project area, with the exception of the SE/4 of Section 21, are completely offset by acreage owned or controlled by Yates Petroleum Corporation.

(18) The Catterson "SS" Federai Well No. 7, proposed to be drilled at an unorthodox location in the SE/4 of Section 21, will encroach on a tract owned by Merit Energy Company. The applicant presented, as evidence, a waiver of objection to the drilling of this infill well at the unorthodox location from Merit Energy Company.

(19) Notice of this application was provided to all operators in the Pecos Slope-Abo Gas Pool, and no operator and/or interest owner appeared in opposition to the application.

(20) Approval of the expansion of the pilot infill drilling program should result in the acquisition of additional and more thorough geologic and engineering data regarding the Pecos Slope-Abo Gas Pool which may ultimately aid in the determination as to the most effective method of developing the reservoir, thereby preventing waste.

(21) The applicant further seeks unorthodox location approval for the following described wells which are located within the original infill drilling pilot area:

CASE NOS. 10981 and 11004 Order No. R-9976-A Page -4-

(11) The geologic and engineering data presented by the applicant indicates that four of the subject wells have encountered pay sands or low permeability portions of the reservoir which were not encountered and/or drained by the original well on the proration unit.

(12) The applicant contends that the results of the infill drilling conducted thus far are very encouraging but are inconclusive in determining whether infill drilling is necessary in the Pecos Slope-Abo Gas Pool.

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(21) The applicant further seeks unorthodox location approval for the following described wells which are located within the original infill drilling pilot area:

TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM Section 6: NE/4 Section 18: SE/4 Section 19: SW/4 •••

Section 21: SE/4

(6) The applicant further seeks authority to produce both wells within the abovedescribed proration units unrestricted until August, 1995, at which time Case No. 10793 is to be reopened pursuant to the provisions of Order No. R-9976, to allow the applicant to appear and present the results of the pilot infill drilling program and make recommendations, if applicable, to the rules which currently govern the Pecos-Slope Abo Gas Pool.

(7) In companion Case No. 11004, Yates Petroleum Corporation, seeks approval of thirteen unorthodox gas well locations within the existing or proposed expanded pilot infill drilling area in the Pecos Slope-Abo Gas Pool.

(8) Inasmuch as the subject matter of Case Nos. 10981 and 11004 are related. one order should be entered for both cases.

(9) The applicant presented the initial geologic and engineering results it obtained in the drilling of the six infill wells approved by Order No. R-9976. According to applicant's evidence and testimony, five of the six wells were deemed to have been geologically successful in terms of predicting and encountering sufficient sand thickness so as to establish commercial gas production.

(10) The engineering evidence and testimony presented by the applicant indicates that:

- a) all six wells encountered a reservoir pressure higher than the reservoir pressure within the existing well on the proration unit. Of the six, four wells encountered significantly higher reservoir pressures;
- b) four of the wells are currently producing at rates significantly higher than the average rate of the wells offsetting the proration unit:
- c) four of the wells should recover an average of 570 MMCF of gas reserves which would otherwise not be recovered by the existing well on the proration unit.

WELL NAME & NUMBER

WELL LOCATION

 Kilgore "SO" No. 3
 2310' FSL & 1980' FWL (Unit K) 24-6S-25E

 Sacra "SA" Com No. 11
 2310' FNL & 2310' FEL (Unit G) 35-6S-25E

(22) In addition, the applicant seeks unorthodox location approval for the following eleven wells to be located within the expanded infill drilling pilot area:

WELL NAME & NUMBER

WELL LOCATION

Paulette "PV" State No. 5 2310' FNL & 1650' FEL (Unit G) 16-5S-25E Dee "OQ" State No. 5 2310' FSL & 2310' FWL (Unit K) 32-5S-25E Hansel "ANH" Federal 2110' FNL & 790' FEL (Unit H) 7-6S-26E Com No. 1 Savage "NI" Federai No. 5 2310' FSL & 990' FEL (Unit I) 19-6S-26E Federal "HJ" No. 11 2080' FNL & 1650' FEL (Unit G) 31-6S-26E Thorpe "MI" Federai No. 15 990' FNL & 2310' FWL (Unit C) 22-7S-25E Federai "HY" No. 13 2310' FSL & 460' FEL (Unit I) 33-7S-25E Crandall "UD" No. 2 510' FNL & 1980' FEL (Unit B) 6-7S-26E Leeman "OC" Federal No. 5 2310' FSL & 1980' FEL (Unit J) 18-7S-26E Nickey "RF" Federal No. 3 2310' FSL & 2310' FWL (Unit K) 19-7S-26E Catterson "SS" Federal 2310' FSL & 790' FEL (Unit I) 21-7S-26E No. 7

(23) Applicant's testimony indicates that the above-described unorthodox gas well locations are geologically necessary in order to maximize sand thickness within the various pay intervals. In addition, the unorthodox locations are adjacent to and on trend with existing gas wells exhibiting substantial cumulative production.

(24) All of the affected offset acreage to the proposed unorthodox gas well locations is owned and controlled by Yates Petroleum Corporation with the exception of the SE/4 of Section 21 as described in Finding No. (18) above.

(25) No offset operator and/or interest owner appeared at the hearing(s) in opposition to the proposed unorthodox locations.

(26) The proposed unorthodox gas well locations should be approved.

(27) Case No. 10981 should be reopened in conjunction with Case No. 10793 at an examiner hearing in August. 1995, unless reopened at an earlier date at the request of the applicant or upon motion of the Division, at which time the applicant should be required to appear and present the geologic and engineering data it has acquired from the pilot project and make recommendations to the Division concerning amendments, if any are applicable, to the rules which currently govern the Pecos Slope-Abo Gas Pool. CASE NOS. 10981 and 11004 Order No. R-9976-A Page -6-

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Yates Petroleum Corporation, is hereby authorized to expand its pilot infill drilling program within the Pecos Slope-Abo Gas Pool by drilling an additional gas well on each of the following existing 160-acre standard gas proration units, and on a 166.0-acre non-standard gas proration unit comprising all of Irregular Section 5, Township 6 South, Range 26 East, NMPM:

TOWNSHIP 5 SOUTH. RANGE 25 EAST. NMPM Section 16: NE/4

Section 32: SW/4

TOWNSHIP 6 SOUTH, RANGE 26 EAST, NMPM

Section 7: NE/4 Section 18: SE/4 Section 19: SE/4 Section 31: NE/4

TOWNSHIP 7 SOUTH. RANGE 25 EAST. NMPM

Section 3: SE/4 Section 10: NW/4 Section 11: SE/4 Section 13: NW/4 Section 15: NW/4 Section 22: NW/4 Section 25: NW/4 Section 27: SE/4 Section 33: SE/4

TOWNSHIP 7 SOUTH, RANGE 26 EAST, NMPM

Section 6: NE/4 Section 18: SE/4 Section 19: SW/4 Section 21: SE/4

(2) Each of the gas proration units described above shall be simultaneously dedicated to the existing well and to an infill well to be drilled by the applicant.

(3) The applicant is further authorized to produce both wells within the abovedescribed proration units unrestricted until August, 1995. CASE NOS. 10981 and 11004 Order No. R-9976-A Page -6-

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Yates Petroleum Corporation, is hereby authorized to expand its pilot infill drilling program within the Pecos Slope-Abo Gas Pool by drilling an additional gas well on each of the following existing 160-acre standard gas proration units, and on a 166.0-acre non-standard gas proration unit comprising all of Irregular Section 5, Township 6 South, Range 26 East, NMPM:

TOWNSHIP 5 SOUTH, RANGE 25 EAST, NMPM
Section 16: NE/4
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TOWNSHIP 6 SOUTH. RANGE 26 EAST. NMPM
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WELL NAME & NUMBER	WELL LOCATION
Kilgore "SO" No. 3	2310' FSL & 1980' FWL (Unit K) 24-6S-25E
Sacra "SA" Com No. 11	2310' FNL & 2310' FEL (Unit G) 35-6S-25E

(22) In addition, the applicant seeks unorthodox location approval for the following eleven wells to be located within the expanded infill drilling pilot area:

WELL NAME & NUMBER

Paulette "PV" State No. 5 Dee "OQ" State No. 5 Hansei "ANH" Federai Com No. 1 Savage "NI" Federai No. 5 Federai "HJ" No. 11 Thorpe "MI" Federai No. 15 Federai "HY" No. 13 Crandail "UD" No. 2 Leeman "OC" Federai No. 5 Nickey "RF" Federai No. 3 Catterson "SS" Federai No. 7

WELL LOCATION

WELL LOOPTON

2310' FNL & 1650' FEL (Unit G) 16-5S-25E 2310' FSL & 2310' FWL (Unit K) 32-5S-25E 2110' FNL & 790' FEL (Unit H) 7-6S-26E 2310' FSL & 990' FEL (Unit I) 19-6S-26E 2080' FNL & 1650' FEL (Unit G) 31-6S-26E 990' FNL & 2310' FWL (Unit C) 22-7S-25E 2310' FSL & 460' FEL (Unit I) 33-7S-25E 510' FNL & 1980' FEL (Unit I) 33-7S-26E 2310' FSL & 1980' FEL (Unit J) 18-7S-26E 2310' FSL & 2310' FWL (Unit K) 19-7S-26E 2310' FSL & 790' FEL (Unit I) 21-7S-26E

(23) Applicant's testimony indicates that the above-described unorthodox gas well locations are geologically necessary in order to maximize sand thickness within the various pay intervals. In addition, the unorthodox locations are adjacent to and on trend with existing gas wells exhibiting substantial cumulative production.

(24) All of the affected offset acreage to the proposed unorthodox gas well locations is owned and controlled by Yates Petroleum Corporation with the exception of the SE/4 of Section 21 as described in Finding No. (18) above.

(25) No offset operator and/or interest owner appeared at the hearing(s) in opposition to the proposed unorthodox locations.

(26) The proposed unorthodox gas well locations should be approved.

(27) Case No. 10981 should be reopened in conjunction with Case No. 10793 at an examiner hearing in August, 1995, unless reopened at an earlier date at the request of the applicant or upon motion of the Division, at which time the applicant should be required to appear and present the geologic and engineering data it has acquired from the pilot project and make recommendations to the Division concerning amendments, if any are applicable, to the rules which currently govern the Pecos Slope-Abo Gas Pool. (4) This case shall be reopened in conjunction with Case No. 10793 at an examiner hearing in August. 1995, unless reopened at an earlier date at the request of the applicant or upon motion of the Division, at which time the applicant shall appear and present the geologic and engineering data it has acquired from the pilot project and make recommendations to the Division concerning amendments, if any are applicable, to the rules which currently govern the Pecos Slope-Abo Gas Pool.

(5) The applicant is further authorized to drill the following infill gas wells at unorthodox locations:

WELL NAME & NUMBER

WELL LOCATION

Kilgore "SO" No. 3 Sacra "SA" Com No. 11 Paulette "PV" State No. 5 Dee "OQ" State No. 5 Hansei "ANH" Federai Com No. 1 Savage "NI" Federai No. 5 Federai "HJ" No. 11 Thorpe "MI" Federai No. 15 Federai "HY" No. 13 Crandall "UD" No. 2 Leeman "OC" Federai No. 5 Nickey "RF" Federai No. 3 Catterson "SS" Federai No. 7 2310' FSL & 1980' FWL (Unit K) 24-6S-25E 2310' FNL & 2310' FEL (Unit G) 35-6S-25E 2310' FNL & 1650' FEL (Unit G) 16-5S-25E 2310' FSL & 2310' FWL (Unit K) 32-5S-25E 2110' FNL & 790' FEL (Unit H) 7-6S-26E 2310' FSL & 990' FEL (Unit I) 19-6S-26E 2080' FNL & 1650' FEL (Unit G) 31-6S-26E 990' FNL & 2310' FWL (Unit C) 22-7S-25E 2310' FSL & 460' FEL (Unit I) 33-7S-25E 510' FNL & 1980' FEL (Unit B) 6-7S-26E

2310' FSL & 1980' FEL (Unit J) 18-7S-26E 2310' FSL & 2310' FWL (Unit K) 19-7S-26E 2310' FSL & 790' FEL (Unit I) 21-7S-26E

(6) Jurisdiction of this cause is hereby 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 WILLIAM J. I Director

SEAL