

CASE 7390: HARVEY E. YATES COMPANY FOR
COMPULSORY POOLING, CHAVES COUNTY, NEW
MEXICO

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*Pooler:
Viking*

DOCKET MAILED

Date 10/9/81 (Pooler)
11/16/81
12/11/81

Case No.

7390

Application

Transcripts.

Small Exhibits

ETC

Moshe I. Ettinger
1955 So. Kearney Way
Denver, Colorado 80224

MAY 29, 1984

CERTIFIED MAIL #P2011898.5
RETURN RECEIPT REQUESTED

Harvey E. Yates Company
Security National Bank Bldg.
Suite 300
Roswell, New Mexico 88201

Re: #1 Seymour State Well
Township 9 South, Range 27 East
Section 18: W/2
Chaves County, New Mexico

Dear Sir or Madam:

I am writing you this letter because I own a 1.25% of 3/8ths, overriding royalty interest in New Mexico State Oil and Gas Lease STA-NM-L-6907. This lease covers, in part, the E/2NW/4 of Section 18, Township 9 South, Range 27 East, Chaves County, New Mexico. That portion of Oil and Gas Lease STA-NM-L-6097 was pooled to form a standard 320-acre gas spacing and proration unit down through the Ordovician formation underlying the W/2 of Section 18, Township 9 South, Range 27 East, N.M.P.M., Chaves County, New Mexico, upon the Application of Harvey E. Yates Company for Compulsory Pooling, Case No. 7390, Order No. R-6873.

My interest in the W/2 of said Section 18, and in the production from the #1 Seymour State Well drilled in the SW/4NW/4 of Section 18, arises from the Assignment of Overriding Royalty Affecting Oil and Gas Lease STA-NM-L-6907, dated April 24, 1980, filed with the Commissioner of Public Lands on April 3, 1981, in Book No. 2 Register of Miscellaneous Instrument No. 3437. That Assignment was also recorded in the records of Chaves County, New Mexico, on March 16, 1981, in Book 203 at Page 399. I am enclosing a stamped copy of the Assignment of Overriding Royalty Affecting Oil and Gas

Harvey E. Yates Company
Page 2.

Lease STA-NM-L-6907, bearing the county recording information and the recording information for the Commissioner of Public Lands for your convenient reference.

I have not received any payments for my overriding royalty interest since the #1 Seymour State Well was completed in the Atoka and Abo formations on March 22, 1983, nor have I received any satisfactory explanation as to why I am not receiving my fair share of proceeds.

I request that you furnish me with all proceeds of production attributable to my overriding royalty interest in the #1 Seymour State Well from the date of first production to the present date, and that you hereafter remain current in making payments to me. I also request a copy of the Division Order Title Opinion (and any other title opinions) prepared for this well, along with an accounting setting forth the production history of this well since its completion.

I sincerely hope that this matter will be resolved expeditiously by your company. I have been extremely patient up to this point, but I am prepared to seek payment of my fair share of production through other remedies available to me if I receive no satisfaction from your company, including the filing of a lien upon the production from this well. If I have not received a proper accounting from you within ten (10) days after your receipt of this letter, I will be forced to resort to the mentioned remedies.

Thank you for your consideration and attention in this matter.

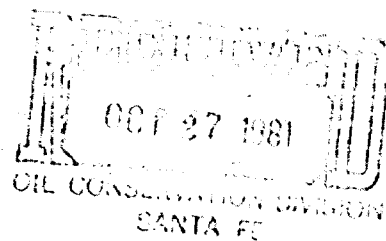
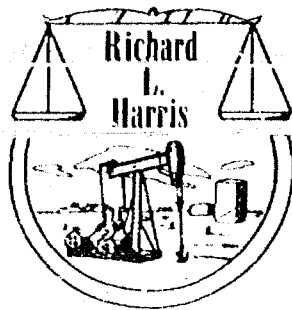
Sincerely,


Moshe I. Ettinger

MIE/

Enclosure

cc: ✓ Oil Conservation Commission
Transwestern Pipeline Company



October 20, 1981

Commission Examiner
Oil Conservation Commission
State of New Mexico
Room 205, State Land Office Bldg.
Santa Fe, New Mexico

Gentlemen:

This letter pertains to Case No. 7390 filed by Harvey E. Yates Company for compulsory pooling, in Section 18-9S-27E Chaves County, New Mexico. I have received a Notice of this Hearing and I assume that I have a mineral or royalty interest underlying the subject lands.

I have not been contacted for leasing rights on this property and the Operator should be advised that I will either lease or participate.

Very truly yours,

Richard L. Harris

RLH:lmh

cc: Harvey E. Yates Company
Suite 300, Security National
Bank Building
Roswell, NM 88201

are powerless to waive requirements of such rules. *Id.*

Learning—Prevention—Prohibition—Protection of oil or gas bearing strata

Corporation Commission has statutory power to order an operator to re-plug oil or gas wells which were improperly plugged. *Ashland Oil, Inc. v. Corporation Commission, Okl., 595 P.2d 423 (1979).*

Corporation Commission's order requiring replugging of two abandoned wells, which were not plugged in accordance with Commission rule protecting domestic fresh water in area, was supported by substantial evidence and was a lawful exercise of Commission's power. *Id.*

Fact that Corporation Commission had not yet required other operators with wells in same area containing same amount of surface casing as oil company's wells that evidence pointed to as cause of pollution of fresh water wells did not render Commission's corrective action in requiring replugging of oil company's wells an arbitrary exercise of its power. *Id.*

When owners executed oil and gas lease, their right to drill on leased premises for purpose of producing oil or gas passed to lessees whose rights to drill on leased premises were limited by proper exercise of state's police power. *Sunray Oil Co. v. Cole, Okl., 461 P.2d 395 (1969), certiorari denied 90 S.Ct. 223, 396 U.S. 907, 24 L.Ed.2d 183.*

4. Orders of commission

As long as prior order of the Corporation Commission which found natural gas formation to be single common source was in effect, the Corporation Commission was authorized to honor such order and treat source of supply in dispute as single common source when fixing allowable. *Corporation Commission v. Union Oil Co. of California, Okl., 591 P.2d 711 (1979).*

5. Rules and regulations

Even if inspectors of Corporation Commission approved original plugging of oil company's wells so as to be in violation of Commission's rule protecting fresh water, Commission would not be bound by such ultra vires actions of its agents, who were powerless to waive rule; thus, Commission was not estopped from requiring replugging in compliance with its rule. *Ashland Oil, Inc. v. Corporation Commission, Okl., 595 P.2d 423 (1979).*

Corporation Commission is empowered by legislative enactment to adopt rules and regulations relative to drilling of oil and gas wells as may be necessary to protect fresh water strata. *Id.*

Rules of Corporation Commission have force and effect of law and its agents are powerless to waive requirements of such rules. *Id.*

of supply—Orders, rules and regulations

American Quasar Petroleum Co., Okl., 617 P.2d 181 (1980).

2. Orders of commission

Corporation Commission has no statutory authority to issue a pooling order interest within a drilling and spacing unit to elect between participation in drilling unit well or, in the alternative, to accept a lesser royalty, notwithstanding fact that nonparticipating royalty owners' interest is convertible into a working interest upon payout. *O'Neill v. American Quasar Petroleum Co., Okl., 617 P.2d 181 (1980).*

As long as prior order of the Corporation Commission which found natural gas formation to be single common source was in effect, the Corporation Commission was authorized to honor

such order and treat source of supply in dispute as single common source when fixing allowable. *Corporation Commission v. Union Oil Co. of California, Okl., 591 P.2d 711 (1979).*

§ 87.1 Common source of supply of oil—Well spacing and drilling units

Whenever the production from any common source of supply of oil or natural gas in this state can be obtained only under conditions constituting waste or drainage not compensated by counterdrainage, then any person having the right to drill into and produce from such common source of supply may, except as otherwise authorized or in this section provided, take therefrom only such proportion of the oil or natural gas that may be produced therefrom without waste or without such drainage as the productive capacity of the well or wells of any such person considered with the acreage properly assignable to each such well bears to the total productive capacities of the wells in such common source of supply considered with the acreage properly assignable to each well therein.

(a) To prevent or to assist in preventing the various types of waste of oil or gas prohibited by statute, or any of said wastes, or to protect or assist in protecting the correlative rights of interested parties, the Commission, upon a proper application and notice given as hereinafter provided, and after a hearing as provided in said notice, shall have the power to establish well spacing and drilling units of specified and approximately uniform size and shape covering any common source of supply, or prospective common source of supply, of oil or gas within the State of Oklahoma; provided, that the Commission may authorize the drilling of an additional well or wells on any spacing and drilling unit or units or any portion or portions thereof or may establish, reestablish, or reform well spacing and drilling units of different sizes and shapes when the Commission determines that a common source of supply contains predominantly oil underlying an area or areas and contains predominantly gas underlying a different area or areas; provided further that the units in the predominantly oil area or areas shall be of approximately uniform size and shape, and the units in the predominantly gas area or areas shall be of approximately uniform size and shape, except that the units in the gas area or areas may be of nonuniform size and shape when they adjoin the units in the oil area or areas; provided further that the drilling pattern for such nonuniform units need not be uniform, and provided further that the Commission shall adjust the allowable production within said common source of supply, or any part thereof, and take such other action as may be necessary to protect the rights of interested parties. Any order issued pursuant to the provisions hereof may be entered after a hearing upon the petition of any person owning an interest in the minerals in lands embraced within such common source of supply, or the right to drill a well for oil or gas on the lands embraced within such common source of supply, or on the petition of the Conservation Officer of the State of Oklahoma. When such a petition is filed with the Commission, the Commission shall give at least fifteen (15) days' notice of the hearing to be held upon such petition by one publication, at least fifteen (15) days prior to said hearing, in some newspaper of general circulation printed in Oklahoma City, Oklahoma, and by one publication, at least fifteen (15) days prior to the date of said hearing, in some newspaper printed in the county, or in each county, if there be more than one, in which the lands embraced within the application are situated. Except as to the notice of hearing on such a petition, the procedural requirements of Sections 84 to 135, inclusive, of Title 52, Oklahoma Statutes, shall govern all proceedings and hearing provided for by this section.

(b) In case of a spacing unit of one hundred sixty (160) acres or more, no oil and/or gas leasehold interest outside the spacing unit in-

volved may be held by production from the spacing unit more than ninety (90) days beyond expiration of the primary term of the lease.

(c) In establishing a well spacing or drilling unit for a common source of supply thereunder, the acreage to be embraced within each unit shall not exceed six hundred forty (640) acres for a gas well plus ten percent (10%) tolerance, except fractional sections along the state boundary line may be spaced with adjoining section unit, and the shape thereof shall be determined by the Commission from the evidence introduced at the hearing, and the following facts, among other things, shall be material:

(1) The lands embraced in the actual or prospective common source of supply; (2) the plan of well spacing then being employed or contemplated in said source of supply; (3) the depth at which production from said common source of supply has been or is expected to be found; (4) the nature and character of the producing or prospective producing formation or formations; (5) any other available geological or scientific data pertaining to said actual or prospective source of supply which may be probative value to said Commission in determining the proper spacing and well drilling unit therefor, with due and relative allowance for the correlative rights and obligations of the producers and royalty owners interested therein.

The order establishing such spacing or drilling units shall set forth: (1) the outside boundaries of the surface area included in such order; (2) the size, form, and shape of the spacing or drilling units so established; (3) the drilling pattern for the area, which shall be uniform except as hereinbefore provided; and (4) the location of the permitted well on each such spacing or drilling unit. To such order shall be attached a plat upon which shall be indicated the foregoing information. Subject to other provisions of this act, the order establishing such spacing or drilling units shall direct that no more than one well shall thereafter be produced from the common source of supply on any unit so established, and that the well permitted on that unit shall be drilled at the location thereon as prescribed by the Commission, with such exception as may be reasonably necessary where it is shown, upon application, notice and hearing in conformity with the procedural requirements of Sections 84 to 135, inclusive, Title 52, Oklahoma Statutes, and the Commission finds that any such spacing unit is located on the edge of a pool and adjacent to a producing unit, or for some other reason that to require the drilling of a well at the prescribed location on such spacing unit would be inequitable or unreasonable. Whenever such an exception is granted, the Commission shall adjust the allowable production for said spacing unit and take such other action as may be necessary to protect the rights of interested parties.

Any well spacing or drilling unit for a common source of supply thereunder which exceeds six hundred forty (640) acres for a gas well plus ten percent (10%) tolerance and is not in production or in the process of drilling development on the effective date of this act shall be de-spaced. However, fractional sections along the state boundary line may be spaced with adjoining section unit, and the shape thereof shall be determined by the Commission.

(d) The Commission shall have jurisdiction upon the filing of a proper application therefor, and upon notice given as provided in subsection (a) above, to decrease the size of the well spacing units or to permit additional wells to be drilled within the established units, upon proper proof at such hearing that such modification or extension of the order establishing drilling or spacing units will prevent or assist in preventing the various types of wastes prohibited by statute, or any of said wastes, or will protect or assist in protecting the correlative rights of persons interested in said common source of supply, or upon the filing of a proper application therefor to enlarge the area covered by the spacing

order, if such proof discloses that the development indicates that such common source area not covered by the spacing order and such applicant is an owner within the area covered. Commission shall not establish well spacing unit (40) acres in size covering common sources of which lies less than 4,000 feet below the surface original or discovery well in said common source. Commission shall not establish well spacing units of acres in size covering common sources of supply, lies less than 9,990 feet and more than 4,000 feet determined by the original or discovery well in supply.

(e) The drilling of any well or wells into any pool for the purpose of producing oil or gas therefrom, if such order has been entered by the Commission covering the common source of supply, at a location other than that fixed by the order, is prohibited. The drilling of any well or wells into a common source of supply, covered by a pending spacing application, shall be prohibited unless approved by a special order of the Commission. The drilling of such well is hereby prohibited. When two or more separately owned interests are embraced within an established spacing unit, or when two or more separately owned, or both such separately owned interests embraced within such established spacing unit, owners thereof may validly pool their interests as a unit. Where, however, such owners have separate interests and where one such separate owner has drilled a well on said unit to the common source of supply, to avoid the drilling of unnecessary wells, the Commission, upon a proper application therefor, shall require such owners to pool and develop their interests as a unit. All orders requiring such pooling shall be subject to notice and hearing, and shall be upon such terms and conditions as shall be just and reasonable and will afford to the owner of the unit the opportunity to recover or receive with his just and fair share of the oil and gas. The Commission shall allocate to the owner of each tract or interest within such spacing unit formed by a pooling order, shall be considered as if produced by such owner from the common source of supply or interest by a well drilled thereon. Such pooling order shall make definite provisions for the development and operation, which shall be limited to the purposes required for such purpose not in excess of the unit. Including a reasonable charge for supervision and operation relative to such costs, the Commission shall allocate costs after due notice to interested parties. The operator of such unit, in addition to the costs incurred by the pooling order or orders of the Commission, shall be liable for mineral leasehold estate or rights owned by the unit and upon their shares of the production from the common source of supply that costs incurred in the development and operation of a charge against such interest by order of the Commission. Such liens shall be separable and enforceable within such unit, and shall remain liens until the drilling or operating the well have been paid the amount of the pooling order. The Commission is authorized to provide that the owner or owners drilling, or producing, for the operation of a well for the benefit of all interests in the common source of supply shall be received production from such well which would be received

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production from the spacing unit more than expiration of the primary term of the lease.

well spacing or drilling unit for a common source, the acreage to be embraced within each unit shall be not more than six hundred forty (640) acres for a gas well plus one (1) acre, except fractional sections along the state boundary line, and the shape thereof shall be determined by the Commission from the evidence in the record and the following facts, among other things,

(1) the actual or prospective common source of supply; (2) the depth at which production of supply has been or is expected to be found; (3) the depth of the producing or prospective producing well; (4) any other available geological or scientific data; and (5) any other actual or prospective source of supply which the Commission in determining the proper unit therefor, with due and relative allowance to the interests and obligations of the producers and royalty owners.

such spacing or drilling units shall set forth: (1) the shape of the surface area included in such order; (2) the shape of the spacing or drilling units so established; (3) the pattern for the area, which shall be uniform throughout; and (4) the location of the permitted well or drilling unit. To such order shall be attached a map showing the location of the well, which shall be indicated the foregoing information. Pursuant to this act, the order establishing such unit shall direct that no more than one well shall be drilled from the common source of supply on any unit other than the well permitted on that unit shall be drilled as prescribed by the Commission, with such exceptions as may be necessary where it is shown, upon application in conformity with the procedural requirements of this act, Title 52, Oklahoma Statutes; and that any such spacing unit is located on the edge of a producing unit, or for some other reason the location of a well at the prescribed location on such unit is equitable or unreasonable. Whenever such an application is made, the Commission shall adjust the allowable production and take such other action as may be required for the protection of the interests of interested parties.

drilling unit for a common source of supply shall be not more than six hundred forty (640) acres for a gas well plus one (1) acre, and is not in production or in the process of being placed in production on the effective date of this act shall be not more than one (1) acre, except fractional sections along the state boundary line, and the shape thereof shall be determined by the Commission.

shall have jurisdiction upon the filing of a proposed well spacing or drilling unit and upon notice given as provided in subsection 2 of this act, the Commission may, in its discretion, modify the size of the well spacing units or to permit additional wells to be drilled within the established units, upon proof that such modification or extension of the order establishing such unit will prevent or assist in preventing the production of oil or gas prohibited by statute, or any of said wastes, in protecting the correlative rights of persons having an interest in the common source of supply, or upon the filing of a proposed well spacing or drilling unit or to enlarge the area covered by the spacing

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order, if such proof discloses that the development or the trend of development indicates that such common source of supply underlies an area not covered by the spacing order and such proof discloses that the applicant is an owner within the area covered by the application. The Commission shall not establish well spacing units of more than forty (40) acres in size covering common sources of supply of oil, the top of which lies less than 4,000 feet below the surface as determined by the original or discovery well in said common source of supply. The Commission shall not establish well spacing units of more than eighty (80) acres in size covering common sources of supply of oil the top of which lies less than 9,990 feet and more than 4,000 feet below the surface as determined by the original or discovery well in said common source of supply.

(e) The drilling of any well or wells into any common source of supply for the purpose of producing oil or gas therefrom, after a spacing order has been entered by the Commission covering such common source of supply, at a location other than that fixed by said order is hereby prohibited. The drilling of any well or wells into a common source of supply, covered by a pending spacing application, at a location other than that approved by a special order of the Commission authorizing the drilling of such well is hereby prohibited. The operation of any well drilled in violation of any spacing so entered is also hereby prohibited. When two or more separately owned tracts of land are embraced within an established spacing unit, or where there are undivided interests separately owned, or both such separately owned tracts and undivided interests embraced within such established spacing unit, the owners thereof may validly pool their interests and develop their lands as a unit. Where, however, such owners have not agreed to pool their interests and where one such separate owner has drilled or proposes to drill a well on said unit to the common source of supply, the Commission, to avoid the drilling of unnecessary wells, or to protect correlative rights, shall, upon a proper application therefor and a hearing thereon, require such owners to pool and develop their lands in the spacing unit as a unit. All orders requiring such pooling shall be made after notice and hearing, and shall be upon such terms and conditions as are just and reasonable and will afford to the owner of such tract in the unit the opportunity to recover or receive without unnecessary expense his just and fair share of the oil and gas. The portion of the production allocated to the owner of each tract or interests included in a well spacing unit formed by a pooling order shall, when produced, be considered as if produced by such owner from the separately owned tract or interest by a well drilled thereon. Such pooling order of the Commission shall make definite provisions for the payment of cost of the development and operation, which shall be limited to the actual expenditures required for such purpose not in excess of what are reasonable, including a reasonable charge for supervision. In the event of any dispute relative to such costs, the Commission shall determine the proper costs after due notice to interested parties and a hearing thereon. The operator of such unit, in addition to any other right provided by the pooling order or orders of the Commission, shall have a lien on the mineral leasehold estate or rights owned by the other owners therein and upon their shares of the production from such unit to the extent that costs incurred in the development and operation upon said unit are a charge against such interest by order of the Commission or by operation of law. Such liens shall be separable as to each separate owner within such unit, and shall remain liens until the owner or owners drilling or operating the well have been paid the amount due under the terms of the pooling order. The Commission is specifically authorized to provide that the owner or owners drilling, or paying for the drilling, or for the operation of a well for the benefit of all shall be entitled to production from such well which would be received by the owner or owners

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for whose benefit the well was drilled or operated, after payment of royalty, until the owner or owners drilling or operating the well have been paid the amount due under the terms of the pooling order or order settling such dispute. No part of the production or proceeds accruing to any owner of a separate interest in such unit shall be applied toward payment of any cost properly chargeable to any other interest in said unit.

For the purpose of this section, the owner or owners of oil and gas rights in and under an unleased tract of land shall be regarded as a lessee to the extent of a seven-eighths ($\frac{7}{8}$) interest in and to said rights and a lessor to the extent of the remaining one-eighth ($\frac{1}{8}$) interest therein. Should the owners of separate tracts or interests embraced within a spacing unit fail to agree upon a pooling of their interests and the drilling of a well on the unit, and should it be established by final, unappealable judgment of a court of competent jurisdiction that the Commission is without authority to require pooling as provided for herein, then, subject to all other applicable provisions of this act, the owner of each tract or interest embraced within a spacing unit may drill on his separately owned tract, and the allowable production therefrom shall be that portion of the allowable for the full spacing unit as the area of such separately owned tract bears to the full spacing unit.

In the event a producing well or wells are completed upon a unit where there are, or may thereafter be, two or more separately owned tracts, any royalty owner or group of royalty owners holding the royalty interest under a separately owned tract included in such spacing unit shall share in the one-eighth ($\frac{1}{8}$) of all production from the well or wells drilled within the unit, or in the gas well rental provided for in the lease covering such separately owned tract or interest in lieu of the customary fixed royalty, in the proportion that the acreage of their separately owned tract or interest bears to the entire acreage of the unit; provided, where a lease covering any such separately owned tract or interest included within a spacing unit stipulates a royalty in excess of one-eighth ($\frac{1}{8}$) of the production, or said lease shall be subject to an overriding royalty, to production payment or other obligation, then the lessee of said lease out of his share of the working interests from the well drilled on said unit shall sustain and pay said excess royalty, overriding royalty, or production payment, and therefrom meet any other obligation due in respect to the separately owned tract or interest held by him.

Amended by Laws 1971, c. 246, § 1, emerg. eff. June 16, 1971; Laws 1977, c. 76, § 1, emerg. eff. May 25, 1977; Laws 1980, c. 33, § 1, emerg. eff. March 26, 1980.

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Represent leasing tra Okl. L. Rev.

State reg vent wast rights—Wh 25 Okl. L. Rev.

Statutory units. Ecu 344 (1978).

Use and royalty cla Merrill, 43

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Compulsor terests is i police powe rights of c oil and gas and Explor Commission

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3. — Due

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the well was drilled or operated, after payment of owner or owners drilling or operating the well have been made under the terms of the pooling order or order of sale. No part of the production or proceeds accruing to the separate interest in such unit shall be applied toward the cost properly chargeable to any other interest in said unit.

Under this section, the owner or owners of oil and gas in an unleased tract of land shall be regarded as a unit of a seven-eighths ($\frac{7}{8}$) interest in and to said tract to the extent of the remaining one-eighth ($\frac{1}{8}$) interest. Should the owners of separate tracts or interests in a spacing unit fail to agree upon a pooling or their drilling of a well on the unit, and should it be established by the judgment of a court of competent jurisdiction that the unit is without authority to require pooling as in, then, subject to all other applicable provisions of law, of each tract or interest embraced within a spacing unit, this separately owned tract, and the allowable production therefrom, shall be that portion of the allowable for the full spacing unit of such separately owned tract bears to the full production of the unit.

When a well or wells are completed upon a unit or may thereafter be, two or more separately owned tracts or interests in such spacing unit shall be included in such spacing unit to the extent of the one-eighth ($\frac{1}{8}$) of all production from the well or in the unit, or in the gas well rental provided for in such separately owned tract or interest in lieu of the royalty, in the proportion that the acreage of their tract or interest bears to the entire acreage of the unit; lease covering any such separately owned tract or interest within a spacing unit stipulates a royalty in excess of the production, or said lease shall be subject to an obligation to production payment or other obligation, then the owner or owners of such separately owned tract or interest shall sustain and pay said excess royalty, overproduction payment, and therefrom meet any other obligation with respect to the separately owned tract or interest held in the unit.

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Statutory well spacing and drilling units. Eugene Kuntz. 31 Okl. L.Rev. 344 (1978).

Use and proper drafting of shut-in royalty clauses. Professor Maurice H. Merrill. 43 Okl. B.J. 2247 (1972).

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2. — Police power
Laws for conservation and regulation of oil and gas represent valid exercise of police powers of state. Wickham v. Gulf Oil Corp., Okl., 623 P.2d 613 (1981).
Compulsory pooling of oil and gas interests is reasonable exercise of state police power to protect correlative rights of owners in common source of oil and gas supply. Great Resources and Exploration Corp. v. Corporation Commission, Okl., 617 P.2d 215 (1980).
Managerial responsibility of designated oil or gas unit operator in developing for, producing and selling oil or gas from unitized pool is an exercise of state police power and that power, once conferred, is nondelegable; thus, if unit operator by private contract agrees to share some or all of his responsibility, managerial acts must nonetheless continue to be carried out in name and by authority of named unit operator until he is formally relieved by order of the Corporation Commission made upon due notice and a hearing. Id.

The power of the Corporation Commission to regulate the production of oil and gas is derived from the police power but is limited by the statutes authorizing such regulation. Helmerich & Payne, Inc. v. Corporation Commission, Okl., 532 P.2d 419 (1975).

3. — Due process
Where neither order of the Corporation Commission providing for location of well within drilling unit on land whose owner did not consent to location of well on his property nor order pooling interests and adjudicating rights and equities of oil and gas owners in the

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drilling and spacing unit purported to award or deny any compensation to pro- testing owner for damage, such owner was not deprived of his property with- out due process by reason of fact that he was not afforded a jury trial. *Texas Oil & Gas Corp. v. Rein, Okl., 534 P.2d 1277 (1975).*

Permitting one producing well only on each spacing (drilling) unit without granting right to non-drilling oil and gas lessees and owners to participate in production of unit well as of time the non-drilling lessees and owners are prohibited from drilling would consti- tute taking by the state of their prop- erty without due process. *Ward v. Corporation Commission, Okl., 501 P.2d 503 (1972).*

5. — Impairment of contract

When owners executed oil and gas lease, their right to drill on leased prem- ises for purpose of producing oil or gas passed to lessees whose rights to drill on leased premises were limited by proper exercise of state's police power. *Sunray DX Oil Co. v. Cole, Okl., 461 P.2d 395 (1969), certiorari denied 90 S.Ct. 223, 395 U.S. 907, 24 L.Ed.2d 183.*

8. In general

Statutory amendment providing that leased lands lying outside the spacing unit would no longer be held by produc- tion over 90 days beyond expiration of the primary term of the lease was not applicable retrospectively to its date of enactment to preexisting oil and gas lease held by defendant oil company, in that an examination of the language contained in amendment revealed that the wording was neither so clear nor so imperative that a retrospective applica- tion of the statute was mandated nor so written as to reflect any implications which deemed necessary a retrospective application, and retroactive application of statute to oil and gas lease would im- pair the lease contract and prejudicially affect rights vested upon execution of the contract. *Wickham v. Gulf Oil Corp., Okl., 623 P.2d 613 (1981).*

Where stipulation by lessor and lessee gave lessee "reasonable time" in which to start drilling well, trial court erred when it gave lessee of oil and gas lease seven months to commence drilling of well, even though seven-month time pe- riod imposed by trial court would have been stayed pending appeal and would not have begun to run until mandate in appeal was issued. *Petroleum Reserve Corp. v. Dierksen, Okl., 623 P.2d 692 (1981).*

Use of the singular in oil and gas spacing and pooling statute when speaking to a pooling order may not be construed to mean that, in a pooling proceeding involving multiple common sources of supply or spacing units un- derlying the same tract, an owner is necessarily entitled to an election whether or not to participate in the cost as to each separate unit. *C. F. Braun & Co. v. Corporation Commission, Okl., 609 P.2d 1268 (1980).*

The shut-in gas well doctrine arose from the finding that the habendum clause of the typical oil and gas lease is satisfied by the production of gas. *Hoyt v. Continental Oil Co., Okl., 606 P.2d 560 (1980).*

Shut-in gas well doctrine has no ap- plication in instances where there has not been completion of a gas well capa- ble of production in paying quantities. *Id.*

This section governing original pro- ceedings to establish drilling and spac- ing unit orders does not relate to pro-

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ceedings to enlarge and extend the boundaries of an area previously estab- lished by a valid order of the Corpora- tion Commission. *Western Oklahoma Royalty Owners Ass'n, Inc. v. Corpora- tion Commission, Okl.App., 591 P.2d 777 (1979).*

Statute effective May 25, 1977 estab- lishing a maximum of 640 acres plus a ten percent tolerance to be embraced by a drilling or spacing unit for gas was inapplicable to order establishing four 1440-acre drilling and spacing units where effective date of such order was February 23, 1977. *Id.*

Statute providing that all orders re- quiring pooling shall be made upon such terms as are just and reasonable did not require divulgence of studies showing in what proposed well would produce in future or evidence of data from which that information might be determined of- fered in pooling order, and the order was supported by substantial evidence equating the "present" value of right to drill on tract as price offered and ac- cepted for leases in the unit. *Home- Stake Royalty Corp. v. Corporation Commission, Okl., 591 P.2d 1207 (1979).*

This section governing alterations of natural gas drilling units on common source of supply allows Corporation Commission to authorize drilling or spac- ing additional well within drilling or spac- ing unit upon proof that the additional well or modification of previous order will or modification of previous order will or assist in preventing waste or the pro- tection of correlative rights of persons interested in the common source of sup- ply. *Corporation Commission v. Union Oil Co. of California, Okl., 591 P.2d 711 (1979).*

Once area is properly classified as common source of supply, all hydrocar- bon production from that area will be controlled by spacing and drilling order classifying the area until completely or partially replaced by later order of the Corporation Commission. *Id.*

Use of word "or" to connect the phrases "...to decrease size of well spacing or to permit additional well spacing..." in this section governing altera- tions of natural gas drilling units on common source of supply indicates that grounds for relief connected thereby are disjunctive and each is sufficient in it- self to authorize relief requested. *Id.*

Oil and gas lessees and others who own interests in spacing (drilling) unit share in production of unit well, wheth- er drilled before or after the spacing (drilling) unit is established, as of the time the unit is established. *Ward v. Corporation Commission, Okl., 501 P.2d 503 (1972).*

9. Purpose

Unitization and pooling statutes have intent to maintain separately owned status among property owners. *Tenneco Oil Co. v. District Court of Twen- tieth Judicial Dist., Carter County, Okl., 465 P.2d 468 (1970).*

10. Jurisdiction of commission

District court had jurisdiction of ac- tion on an open account brought by oil and gas unit operator against a pooled mineral owner, who had elected to par- ticipate in development by agreeing to pay proportionate share of drilling costs, notwithstanding statute confer- ring continuing jurisdiction in Corpora- tion Commission to determine costs in event of dispute arising from forced pooling order; but pooled mineral owner was entitled to a stay of court proceed- ing until Commissioner makes or has made disposition of owner's applica-

tion to determine proper costs. *Stipe v. Theus, Okl., 603 P.2d 347 (1979).*

Corporation Commission's order, which determined proper and reasonable cost of drilling oil and gas well, and which did not levy a specific amount against any party to prior forced pool- ing order, did not constitute a money judgment; thus, Commission had juris- diction to enter such order. *Leas Petroleum Corp. v. Seneca Oil Co., Okl., 590 P.2d 670 (1979).*

Previous spacing order establishing formation underlying section as a com- mon source of supply, together with evi- dence that applicant held oil and gas leases covering the north 480 acres of section, established jurisdiction of the Corporation Commission to enter order authorizing applicant to drill a well within the south 160 acres of the sec- tion, despite contention that applicant had no interest in the minerals in such portion of the section. *Texas Oil & Gas Corp. v. Rein, Okl., 534 P.2d 1277 (1975).*

The Corporation Commission is autho- rized to establish well at any location on spacing unit, to pool working interests within unit, and to designate an opera- tor to drill and operate the well, regard- less of whether the owner of the land on which the well is to be located has con- sented thereto, but the Commission does not have jurisdiction to try damage suits with respect thereto. *Id.*

11. Powers of commission, in general

Until completion of project pursuant to oil or gas pooling order, amount of projected costs, approved as reasonable, lacks legal attributes of finality and, in event of cost overrun, if dispute arises as to reasonableness of expenditures to be charged, the Corporation Commission retains primary jurisdiction to adjudicate finally liability attachable to inter- est holders and neither designated opera- tor nor his transferee may, without Commission's approval, impose upon unwilling interest holder an increase in costs to be charged. *Crest Resources and Exploration Corp. v. Corporation Commission, Okl., 617 P.2d 215 (1980).*

Corporation Commission's authority to require owners of interests in spacing unit to pool their interests and contrib- ute to costs of development and opera- tion, does not authorize Commission to require owners of an overriding royalty interest to contribute as they are by statute, not "owners." *O'Neill v. American Quasar Petroleum Co., Okl., 617 P.2d 181 (1980).*

Corporation Commission has statutory power to order an operator to replug oil or gas wells which were improperly plugged. *Ashland Oil, Inc. v. Corpora- tion Commission, Okl., 595 P.2d 423 (1979).*

Fact that Corporation Commission had not yet required other operators with wells in same area containing same amount of surface casing as oil compa- ny's wells that evidence pointed to as cause of pollution of fresh water wells did not render Commission's corrective action in requiring replugging of oil company's wells an arbitrary exercise of its power. *Id.*

Corporation Commission's order re- quiring replugging of two abandoned wells, which were not plugged in ac- cordance with Commission rule protect- ing domestic fresh water in area, was supported by substantial evidence and was a lawful exercise of Commission's power. *Id.*

Statutory authority of Corporation Commission to alter size of natural gas drilling units relates to particular com-

mon source, vitally and to other sources. *Id.*

Where oil and gas common source formed pre- spacing unit and had power to pool unit to edge of pool. *Id.*

Corporation Commission's authority to pool overlying unit where there would contain common source of supply, does not resolve in Commission.

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If, powers of commission, in general until completion of project pursuant to oil or gas pooling order, amount of projected costs, approved as reasonable, lacks legal attributes of finality and, in event of cost overrun, if dispute arises as to reasonableness of expenditures to be charged, the Corporation Commission retains primary jurisdiction to adjudicate finally liability attachable to interest holders and neither designated operator nor his transferee may, without Commission's approval, impose upon unwilling interest holder an increase in costs to be charged. Crest Resources and Exploration Corp. v. Corporation Commission, Okl., 617 P.2d 215 (1980).

Corporation Commission's authority to require owners of interests in spacing unit to pool their interests and contribute to costs of development and operation, does not authorize Commission to require owners of an overriding royalty interest to contribute as they are by statute, not "owners." O'Neill v. American Quasar Petroleum Co., Okl., 417 P.2d 131 (1966).

Corporation Commission has statutory power to order an operator to plug oil or gas wells which were improperly plugged. Ashland Oil, Inc. v. Corporation Commission, Okl., 595 P.2d 423 (1979).

Fact that Corporation Commission had not yet required other operators with wells in same area containing same company's wells that evidence pointed to as cause of pollution of fresh water wells did not render Commission's corrective action in requiring replugging of oil company's wells an arbitrary exercise of its power. Id.

Corporation Commission's order requiring replugging of two abandoned wells, which were not plugged in accordance with Commission rule protecting domestic fresh water in area, was supported by substantial evidence and was a lawful exercise of Commission's power. Id.

Statutory authority of Corporation Commission to alter size of natural gas drilling units relates to particular com-

mon sources of supply considered individually and separately without regard to other sources. Corporation Commission v. Union Oil Co. of California, Okl., 591 P.2d 711 (1979).

Where only further drilling would determine configuration of prospective common source and where record confirmed presence of established common source over 75% of requested 320-acre spacing unit, Corporation Commission had power to extend drilling and spacing unit to encompass land overlying edge of prospective common source. Calvert Drilling Co. v. Corporation Commission, Okl., 589 P.2d 1064 (1979).

Corporation Commission has no authority to space areas proven not to be overlying the common source only where there is no substantial evidence which would justify a finding that land contains common source or prospective common source and in interest of conservation of economic and physical resources, doubt as to location should be resolved in favor of unit as formed by Commission. Id.

Where lease permitted pooling to promote conservation of gas that might be produced from leased premises, this section authorized Corporation Commission to create spacing unit covering part of lands in formation included in declared unit created by lessee, lease did not indicate that lessors intended to share production from their tract with other lands in declared unit subsequent to Commission's finding that declared unit no longer promoted conservation of gas and no production had been had from declared unit prior to order establishing spacing unit, the spacing unit superseded the declared unit insofar as it concerned distribution of royalty upon gas produced from spaced formation through well on spacing unit. Hladik v. Lee, Okl., 541 P.2d 195 (1975).

Statutory proviso limiting the power of eminent domain granted operator of oil and gas leases, excluding the obtaining of rights for drilling locations, had no application to restrict power of the Corporation Commission with respect to location of well, within drilling and spacing unit, on land whose owner objected to location of well on his property. Texas Oil & Gas Corp. v. Rein, Okl., 534 P.2d 1277 (1975).

The Corporation Commission's right to regulate the production of oil and gas under this section allowing it to require separate owners of tracts or interests to pool and develop their lands in spacing unit as a unit is limited to situations where common rights to drill within an existing spacing unit and separate or undivided ownership exist and this section does not authorize the inclusion of orders widening or pooling area development units. Helmerich & Payne, Inc. v. Corporation Commission, Okl., 632 P.2d 419 (1975).

The Corporation Commission exceeded its regulatory power over oil and gas by ordering an election by lessees of oil and gas interests and owners of mineral interests to participate in a drilling program or in lieu thereof to accept bonuses or overrides in a nine governmental section unit, where common rights to drill and ownership existed in single 640-acre spacing unit. Id.

12. Rules and regulations

Rules of Corporation Commission have force and effect of law and its agents are powerless to waive requirements of such rules. Ashland Oil, Inc. v. Corporation Commission, Okl., 595 P.2d 423 (1979).

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13.5 Title to property

Law of capture in oil and as to chattels previously reduced to possession by an owner is conditioned on well known and existing theory of abandonment of lost property. *Champion Exploration, Inc. v. Western Bridge and Steel Co., Inc.*, Okl., 597 P.2d 1215 (1979).

Ordinarily a landowner, lessee or unit operator who brings hydrocarbons to surface and reduces them to actual possession acquires absolute ownership of the substances, subject to operation agreement or lease, if any. *Id.*

Owner of refined hydrocarbons does not lose title to escaped hydrocarbons unless it is shown by competent evidence that he has abandoned same. *Id.*

Once oil and gas is extracted from earth, it becomes tangible, personal property and subject to absolute ownership. *Id.*

Where refiner captured his lost property, and where lost property, i. e., refined hydrocarbons, was so pure and refined that it could be blended back into marketable stock of company with little or no treatment, and where refiner's operation to recover his lost property was confined to his premises, there was no abandonment. *Id.*

14. Leases—In general

Where a well has been completed just prior to expiration of primary term of a "completion" oil and gas lease, lessee, by necessary implication, has a reasonable time in which to obtain a market for production even if primary term has expired during the interim. *McEvoy v. First Nat. Bank and Trust Co. of Enid, Okl.*, Okl.App., 624 P.2d 559 (1980).

Rights of the parties under oil and gas lease must be determined by its express provisions and any implied covenants which attach. *Id.*

Oil and gas lessee was not bona fide purchaser for value and without notice of its lessor's deficient title where court determined, on the basis of defects found to exist on face of recorded deeds, that lessee's grantor never had any mineral interest in minerals on leased land and, thus, lessee was charged with notice of lessor's defect in title. *Clary Petroleum Corp. v. Harrison, Okl.*, 621 F.2d 528 (1980).

An oil and gas lease is a presently vested interest. *Id.*

Where oil and gas lease was a "commencement" lease, requiring that a well must be commenced before and completed with due diligence after the primary term fixed therein, producing oil or gas in paying quantities, it was not necessary that production in paying quantities be obtained prior to the expiration of primary term as it was only necessary for lessee to have commenced a well by the expiration of the primary term. *Vincent v. Tideway Oil Programs, Inc.*, Okl.App., 620 P.2d 910 (1980).

Where lessees under oil and gas "commencement" lease did commence a well within the period assigned, the lease did not terminate at the end of the primary term solely for lack of production in paying quantities. *Id.*

Submission by successor to unit operator of an increased cost estimate was of no legal effect upon unwilling lessee, where the estimate had not been approved by the Corporation Commission, and lessee's alternative claim for modification of the costs was sufficient to warrant full consideration by the Corporation Commission. *Crest Resources and Exploration Corp. v. Corporation Commission, Okl.*, 617 P.2d 215 (1980).

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"Production" means production in paying quantities in Oklahoma when the term appears in the habendum clause of an oil and gas lease. *Hoyt v. Continental Oil Co.*, Okl., 606 P.2d 560 (1980).

Condition precedent to vesting of a limited estate in land covered by oil and gas lease is the completion of an oil and gas well in paying quantities, and after that occurs the lessee will retain his estate while he makes a diligent effort to obtain a market. *Id.*

Fact that expenses for recompletion of offsetting well had been approved by the lessee and that they had obtained a higher gas price in a contract for sale which would make it profitable to re-complete did not constitute evidence of resumption of operations for purpose of temporary cessation clause of oil and gas lease allowing a 60-day cessation of production following end of primary term; sales contract negotiations and internal corporate authorization to re-work did not constitute a "resumption of drilling operations," as such phrase was referable to on-site drilling and negotiations preparatory to that required activity would not save the lease. *Id.*

Where parties to an oil and gas lease have bargained for an agreed on time period for a temporary cessation clause, that provision will control over the common-law doctrine of temporary cessation allowing a reasonable time for resumption of drilling operations. *Id.*

Habendum clause of oil and gas lease providing that the lease is to remain in force after the primary term for "as long thereafter" as oil or gas is produced is not ever to be regarded as akin in effect to the common-law conditional limitation or determinable fee estate. *Stewart v. Amerada Hess Corp.*, Okl., 604 P.2d 854 (1979).

Term "produced," when used in a "thereafter" provision of a habendum clause of an oil and gas lease, denotes in law production in paying quantities and means that the lessee must produce in quantities sufficient to yield a return, however small, in excess of expenses necessary to lift the oil from the ground, even though well drilling and completion costs might never be repaid. *Id.*

For purpose of determining whether an oil and gas lease is producing in paying quantities, the cost of drilling a producing well, that is, the expense incurred before oil is actually lifted from the ground, is not an item to be considered. *Id.*

In determining whether oil and gas lease remained in force beyond its primary term under habendum clause providing that the lease would remain in force for as long as oil or gas was produced, only those expenses which were directly related to lifting operations could be included in determining whether there was production in paying quantities. *Id.*

In determining whether an oil and gas lease is producing in "paying quantities" within meaning of habendum clause providing that lease would remain in force after the primary term for as long as oil or gas was produced in "paying quantities," depreciation should be mandatorily included as an item of lifting expense and the base and period of the depreciation should be determined by reference to currently prevailing accounting standards. *Id.*

In context of implied obligation of gas and oil lessee to exercise reasonable care and diligence to prevent substantial drainage from leased land by drilling offset, burden of proving what a

reasonably prudent operator would do rests ordinarily upon the one seeking cancellation of the lease; additionally, however, because of his superior knowledge, lessee operating a well on adjacent land has burden of excusing a significant delay in drilling an offset well. *Haken v. Harper Oil Co.*, Okl.App., 609 P.2d 1227 (1979).

One significant circumstance in determination of whether a lessee is exercising reasonable care and diligence to prevent substantial drainage from leased lands by drilling offsets is whether adjoining lease is producing oil or gas in paying quantities; if it is not, then there is no duty to offset; or, even if adjoining well is producing in paying quantities, then duty to offset still does not arise unless a reasonably prudent operator would anticipate that the offset well would also be a profitable producer. *Id.*

Lessee of southeast quarter of section of land on which well was located had right to drill, receive and market production of gas from well. *Barton v. Clary Petroleum Corp.*, Okl.Cr., 566 P.2d 462 (1977).

It must be presumed that parties to gas lease were aware of Corporation Commission's existing statutory authority to create spacing units covering part of lands in formation included in declared unit created by a lessee. *Illadik v. Lee, Okl.*, 541 P.2d 196 (1975).

14.5 — Unleased mineral owners

Plaintiffs, unleased mineral owners under drilling and spacing unit who brought action for fair market value of oil and gas produce, reasonable value of oil and gas lease and punitive or exemplary damages, could have sought proper relief from Corporation Commission, which created drilling and spacing unit, or voluntarily paid their proportionate costs and received their proportionate part of 1/4th working interest as unleased lessees. *Barton v. Clary Petroleum Corp.*, Okl.Cr., 566 P.2d 462 (1977).

Where developing cotenant never recovered its cost of drilling and developing, plaintiffs, unleased mineral owners under drilling and spacing unit, could not participate in working interest. *Id.*

Owners of undivided portions of oil and gas rights in and under real estate are tenants in common, each of whom is entitled to enter upon premises for purpose of exploring for oil and gas; however, under conservation drilling and spacing statutes, cotenant is excluded from exploring for oil and gas upon creation of drilling and spacing unit and payment to him of his pro rata share of his 1/4th mineral interest as unleased lessor. *Id.*

After date of Corporation Commission's order establishing drilling and spacing unit, plaintiffs, unleased mineral owners under unit, were entitled to a 1/4th pro rata share in production of unit well, which had been drilled prior to creation of unit on land in which plaintiffs had no interest. *Id.*

15. — Continuation of term of lease For purpose of determining whether an oil and gas lease remains in force after the primary term by virtue of habendum clause providing that the lease is to remain in force for so long as oil or gas is produced, it is not the case that any cessation of production, however slight or short, puts an end to the lease; rather, the result in each case must depend on the circumstances that surround cessation. *Stewart v. Amerada Hess Corp.*, Okl., 604 P.2d 854 (1979).

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Note 15.5

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Where oil and gas lease contains habendum clause providing that the lease is to remain in force after the primary term for as long thereafter as oil or gas is produced, the lease continues in existence so long as interruption of production in paying quantities does not extend for a period longer than is reasonable or justifiable in light of all the circumstances. *Id.*

Where oil and gas lease contains habendum clause providing that the lease is to remain in force after the primary term for as long thereafter as oil or gas is produced, under no circumstances will cessation of production in paying quantities ipso facto deprive the lessee of his extended-term estate. *Id.*

15.5 Cancellation of lease

Reviewing court must affirm judgment of cancellation of oil and gas lease unless such judgment is against the clear weight of the evidence, as an action for cancellation is one of equity. *Vincent v. Tideway Oil Programs, Inc.*, Okl.App., 620 P.2d 910 (1980).

Lessor of oil and gas lease did not prove that lessees intended to abandon the lease during primary term, and failed to establish that lessees had physically relinquished the well by "shutting in" the well for period of time, and thus lessor failed to meet his burden of proof as to abandonment so as to permit cancellation of lease. *Id.*

Two-month period following filing of petition praying for cancellation of oil and gas lease for failure to obtain production in paying quantities did not constitute nonproductive time since filing of proceedings put defendants' title at issue and relieved him of production covenants until determination was made that title to the lease indeed rested with him. *Hoyt v. Continental Oil Co.*, Okl., 606 P.2d 560 (1980).

Where cessation of production clause of oil and gas lease stated, "If, after the expiration of the primary term . . . production . . . shall cease from any cause," effect thereof was that after the primary term the production clause modified the habendum clause, which specified lease term as ten years and so long thereafter as oil and gas was produced or could be produced, so as to extend or preserve lease while lessee resumed operations designed to restore production and if lessee failed to resume operations within 60-day period specified in cessation clause the lease would terminate. *Id.*

Where cessation of production clause of oil and gas lease spoke of production ceasing from any cause but under habendum clause lease term was as long as oil and gas was produced or could be produced, if production in paying quantities ceased there might or might not be a "cessation" for purposes of the production clause depending on whether effect was to modify the habendum or drilling clause, and if primary term had not expired so that production clause modified drilling clause there would be no "cessation" unless production ceased entirely, but if primary term expired and effect of production clause was to modify habendum clause there would be a "cessation" if habendum clause required production in paying quantities and such was not met. *Id.*

A decree cancelling an oil and gas lease may be rendered where the record shows that the well in suit is not producing in paying quantities and there are no compelling equitable considerations to justify continued production from the unprofitable well operation.

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Stewart v. Amerada Hess Corp., Okl., 604 P.2d 851 (1979).

The duration and cause of the cessation of production, as well as the diligence or lack of diligence exercised in resuming production, are factors to be considered in determining whether there has been such a cessation of production, in the paying quantities sense of the term, as to terminate an oil and gas lease. *Id.*

Clause of oil and gas lease providing that the lease is to remain in force after the primary term for "as long thereafter" as oil or gas is produced is to be regarded as fixing the life of a lease instead of providing a means to terminate the lease in advance of the time in which it would otherwise expire. *Id.*

Before cancellation of an oil and gas lease may be decreed, all surrounding circumstances must be taken into consideration. *Id.*

An oil and gas lease is not terminated for failure to produce the moment production stops, nor does the lease terminate the instant production falls below a profitable level. *Id.*

16. — Delay rentals

Where blanks in oil and gas lease, providing for payment of delay rentals, were not filled in, no payment of delay rentals was required by the lease, as it evidenced no intent between the parties that such rentals be paid. *Vincent v. Tideway Oil Programs, Inc., Okl.App., 620 P.2d 910 (1980).*

17. — Obligation or covenant to develop

Where lessee under oil and gas lease ceased work by "shutting in" well on leased site for nine months during primary term of lease which was agreed to by the parties, and where lessor presented no evidence that the lessee's nine-month absence from the drill site was not the action of a prudent operator, burden to prove breach of the implied covenants did not shift from lessor to lessee. *Vincent v. Tideway Oil Programs, Inc., Okl.App., 620 P.2d 910 (1980).*

Although oil and gas lease will not be cancelled for breach of implied covenant to diligently develop solely by reason of lapse of time, unreasonable delay in further development may shift the burden of proof to lessee to show the lessee acted as a reasonable prudent operator under the circumstances. *Id.*

Lessor under oil and gas lease bears the burden of establishing breach of implied covenant to develop, and question whether lessee breached implied covenants is tested under standard of the ordinary prudent operator. *Id.*

Where lessor under oil and gas lease did not prove nor offer evidence that he made demand upon lessee for forfeiture of the lease if no further development took place, lessor did not comply with prerequisite to forfeiture for breach of the implied covenants to develop that he make timely demand upon lessee. *Id.*

A prerequisite to forfeiture of breach of the implied covenants to develop in oil and gas lease is that lessor make timely demand upon the lessee to comply therewith. *Id.*

Covenants to develop implied in oil and gas leases operate during both the primary term and the secondary term. *Id.*

In absence of an express requirement in oil and gas lease to market, any covenant on part of the lessee to market can only be an implied one, in which instance the lessee has a reasonable time after completion of the well to market.

Royt v. Continental Oil Co., Okl., 606 P.2d 560 (1980).

Law adds to oil and gas lease by inferring that several additional covenants had been made between the parties; one such covenant is that lessee will, by drilling offset wells, protect lessor's land from drainage through wells on adjoining lands. *Haken v. Harper Oil Co., Okl.App., 600 P.2d 1227 (1979).*

Under oil and gas lease, lessee's implied obligation to protect lessor's land from drainage through wells on adjoining lands is to exercise reasonable care and diligence to prevent substantial drainage from leased lands by drilling offsets. *Id.*

Production of gas in paying quantities from one gas well on lessor's premises will not relieve the lessee from the implied covenant to drill offset wells to protect the lessor from drainage. *Dixon v. Anadarko Production Co., Okl., 505 P.2d 1334 (1972).*

It inheres in the prudent operator rule that, where the lessee is draining his lessor's land, he will make studies and keep abreast of the available information to determine when, or if, further drilling would be profitable and prudent. *Id.*

18. — Royalty owners

Owner of an overriding royalty interest has no right to drill and produce from a common source of supply on drilling and spacing unit. *O'Neill v. American Quasar Petroleum Co., Okl., 617 P.2d 151 (1980).*

When original lessee chooses not to participate in development of well, interests of overriding royalty owners do not come from original lessee's interest but are attributable to unit operator. *Id.*

Owners of overriding royalty interests in gas produced from two wells by defendant gas companies were not entitled to receive actual working interest value of gas at wellhead calculated on fair market value or highest sum actually received for gas by defendants, but were entitled to receive payment on basis of 10.5¢ per MCF minimum price established by Federal Energy Regulatory Commission, notwithstanding claim that portion of agreement between parties basing royalty payments on minimum wellhead price established by the Corporation Commission "or some other duly constituted body" did not mean the FERC, whose agreement did not contemplate either the Corporation Commission or the "other duly constituted body" as setting the method or amount of royalty payments, but fixed the royalty payments by providing a basis on which they were to be computed. *See-wald v. Western Gas Interstate Co., Okl., 606 P.2d 532 (1980).*

19. Allowables—in general

All owners in a common source of supply of oil or gas are prohibited from taking an unproportioned amount. *GMC Oil and Gas Co. v. Texas Oil and Gas Corp., Okl., 536 P.2d 731 (1975).*

20. — Adjustment of allowables

Where order of the Corporation Commission results in some operators producing more than their ratable proportion of hydrocarbons, the Commission is authorized to adjust future allowables in order to adjust correlative rights of the parties. *Corporation Commission v. Union Oil Co. of California, Okl., 591 P.2d 711 (1979).*

Corporation Commission properly permitted partial reinstatement of cancelled allowable production underages of well, which had been found incapable of adequately and sufficiently draining gas

underlying the drilling and spacing unit, to be applied against overages of replacement well within same drilling and spacing unit. *Marlin Oil Corp. v. Corporation Commission of State of Okl., Okl., 562 P.2d 851 (1977).*

Corporation Commission applicable oil and gas rule does not establish an exclusive method of reinstatement of underages, but merely provides a permissive, administrative method of reinstatement. *Id.*

23. Units—in general

Lessee's of oil and gas lease on quarter section of land who failed to file written unit designation to pool their land within 640-acre spacing unit established by Corporation Commission for gas and gas condensate, did not forfeit lease, even though language of lease required filing of unit designation, where there was no evidence that lessors relied to their detriment on lack of notice such filing would have given lessors. *Petroleum Reserve Corp. v. Dierksen, Okl., 623 P.2d 602 (1981).*

No attempted transfer of oil or gas drilling and spacing unit operator's status is effectual, unless it is done by order of the Corporation Commission and with its express sanction; thus, once created by Commission, unit operator's status cannot pass to another via private-contract arrangement and release from Commission-imposed responsibility effected by order of that body is indispensable prerequisite of valid change in unit operator's identity. *Crest Resources and Exploration Corp. v. Corporation Commission, Okl., 617 P.2d 215 (1980).*

While oil or gas drilling and spacing unit operator is free to subcontract any task that is to be performed in developing for, producing or selling oil or gas from unitized pool, he may not redelegate to anyone else his Corporation Commission-conferred power to operate leaseholds as unit and to safeguard correlative rights of interest holders. *Id.*

Under oil and gas spacing and pooling statutes, 13 common sources of supply underlying 640-acre tract constituted 13 separate and distinct spacing and drilling units where one bore hole could be used to test and develop one or all of the 13 units. *C. F. Braun & Co. v. Corporation Commission, Okl., 609 P.2d 1265 (1980).*

Oil and gas spacing and pooling statutes do not limit the number of separate spacing units that can be included in pooling application or proceeding; however, whether pooled owner is entitled to election whether to participate in the cost as to each common source of supply or each separate spacing unit depends upon facts and circumstances in each pooling proceeding. *Id.*

Corporation Commission had power and authority to establish drilling and spacing units whether minerals were leased or unleased. *Sunray DX Oil Co. v. Cole, Okl., 461 P.2d 335 (1959), certiorari denied 90 S.Ct. 223, 396 U.S. 907, 24 L.Ed.2d 183.*

Although lessees could not have voluntarily pooled lease acreage into units exceeding 40 acres in view of lease prohibition, parties could not by contractual agreement limit Corporation Commission from establishing drilling and spacing units in excess of the 40 acres. *Id.*

24. — Discretion of commission

Corporation Commission is not prohibited by this section from establishing all or part of lands included within a declared unit as a drilling and spacing unit. *Hladik v. Lee, Okl., 541 P.2d 196 (1975).*

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Corporation Commission is not prohibited by this section from establishing all, or part, of lands included within a declared unit as a drilling and spacing unit. *Hladik v. Lee*, Okl., 541 P.2d 196 (1975).

25. — **Spacing units**

Where spacing unit for gas and gas condensate, established by Corporation Commission, was in effect before lease was entered into, leased land was included in spacing unit, and clause of lease making lease subject to all federal and state laws, executive orders, rules and regulations was left intact in lease, drilling, and completion of successful commercial gas and oil well on lands other than on leased premises, but within same well spacing unit, complied with provision of lease requiring lessee to commence drilling of oil or gas well, and relieved lessee from payment of delay rentals for failure to commence such drilling. *Petroleum Reserve Corp. v. Dierksen*, Okl., 623 P.2d 602 (1981).

In proceeding to pool 13 common oil and gas sources of supply or spacing units in 640-acre tract, Corporation Commission's treatment of formation at 11,000 feet and all formations above it as one unit, and all formations below 11,000 feet as another unit, was responsive to the evidence. *C. F. Braun & Co. v. Corporation Commission*, Okl., 609 P.2d 1268 (1980).

Corporation Commission may exclude lands from spacing unit on ground that common source of supply does not underlie such lands and it may limit size of spacing unit on ground that one well will not effectively drain larger tract and that a larger drilling and spacing unit might not assure maximum ultimate recovery of minerals. *Hladik v. Lee*, Okl., 541 P.2d 196 (1975).

28. — **Drilling site location**

Record in proceedings on two applications of mineral rights holder for authorization to drill an off-pattern well or an additional well supported finding of Corporation Commission that permit to drill an additional well would protect the correlative rights of interested parties by allowing the applicant to offset drainage from wells on three surrounding sections. *Corporation Commission v. Union Oil Co. of California*, Okl., 591 P.2d 711 (1979).

Absent request, in proceedings on two applications of mineral rights holder for authorization to drill an off-pattern well or an additional well in quarter section, to reclassify natural gas formation as two separate common sources, Corporation Commission was bound to treat the formation as single common source as provided in prior order, though the section in dispute included two natural gas "zones" separated by 10 to 80 feet of shale. *Id.*

30. — **Modification of spacing and units**

In view of rule that a spacing order is a condition precedent to a forced pooling order, effectiveness of pooling order was gone when its basic spacing order had been abrogated by establishment of a drilling and spacing unit. *Southern Union Production Co. v. Pason Oil Co.*, Okl.App., 540 P.2d 603 (1975).

The Corporation Commission is without authority to entertain an application to amend or modify a prior spacing order establishing a common source of supply which has become final in the absence of a substantial change of conditions or substantial change in knowledge of conditions existing in the area since the prior order was entered. *Phillips Petroleum Co. v. Corporation Commission*, Okl., 482 P.2d 607 (1971).

Change in actual knowledge of Corporation Commission was not change of technical knowledge relative to common source of supply delineated in prior

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proceeding, and subsequent application seeking removal of portion of producing sand from purview of prior final order establishing common source of supply was a prohibited collateral attack on prior order where most of data applicant introduced at subsequent hearing was introduced in original hearing in which applicant failed to participate, although it had legal notice, and mere change of interpretation on part of Commission could not justify amendment of the prior spacing order in absence of new data or newly discovered scientific or technical knowledge. *Id.*

"Change in knowledge or conditions" required for Corporation Commission to have authority to entertain application to amend or modify a prior spacing order establishing a common source of supply encompasses an acquisition of additional or new data or the discovery of new scientific or technical knowledge which requires a reevaluation of the geological opinion concerning the reservoir. *Id.*

31. Pooling lands or interests—In general

Leased property was "pooled" when lessee voluntarily joined with other mineral leaseholders within spacing unit to develop producing well, within this section providing voluntary pooling unit is as fully binding as forced pooling by order of the Corporation Commission, despite failure to file such pooling agreement as a written unit designation in the county. *Petroleum Reserve Corp. v. Dierksen, Okl., 623 P.2d 602 (1981).* Absent some violating infirmity in their creation, property interests of parties affected by pooling order, once vested, can no longer be vulnerable to extinguishment. *Crest Resources and Exploration Corp. v. Corporation Commission, Okl., 617 P.2d 215 (1980).*

Where pooling order provided for 40-day period within which interest owners might perfect their right of election by paying or furnishing security for their proportionate share of estimated costs, at end of that period, property interests of affected parties came to be vested and they were hence beyond reach of Corporation Commission's power to modify. *Id.*

Where owner of an oil and gas leasehold interest in a governmental section never executed an assignment of its lease to second owner and accepted bonus consideration provided for in corporation commission's pooling order requiring first owner either to participate in unit well and pay his proportionate share of costs or accept \$35 per acre in lieu of right to participate in working interest in the unit well, this was compensation in lieu of its right to participate in the working interest in unit well drilled by second owner, and where the unit was plugged and abandoned by second owner as a dry hole the interest created by such order was terminated, and first owner was in same legal position in relation to its lease as it would have been if no forced pooling order had been issued. *Southern Union Production Co. v. Eason Oil Co., Okl.App., 610 P.2d 601 (1975).*

Order of Corporation Commission pooling separately owned mineral estates and setting bonus-penalty of protestant at 250 percent was not arbitrary, unreasonable and discriminatory in view of action of protestant in burdening leasehold estate with production payment in such amount as to cause leasehold estate to have little if any value for purposes of determining

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price which applicant, as reasonably prudent operator, could afford to pay for purchase of leasehold estate. *Hobbes v. Corporation Commission, Okl., 466 P.2d 630 (1970).*

This statute, pertaining to petitions directed at well spacing or drilling and imposing 15-day notice requirements, governs only applications for well spacing and drilling units and does not apply to applications for pooling of interests of mineral owners; pooling applications are governed by § 97 of this title. *Ranola Oil Co. v. Corporation Commission, Okl., 460 P.2d 415 (1969).*

32. — Compulsory pooling of interests

This section requiring forced pooling of mineral owners have not agreed to pool their interests or where a separate owner has drilled or proposes to drill well on drilling and spacing unit does not require that separate owner promise to drill well, but provides only that Corporation Commission has authority to order forced pooling if well is proposed. *Sellers v. Corporation Commission, Okl., 624 P.2d 1061 (1981).*

Burden of showing that forced pooling order of Corporation Commission was unconstitutional rested upon owner of land in drilling and spacing unit, and he failed to show any unconstitutional application. *Id.*

33. — Royalty interests

Where royalty provision of oil and gas lease called for payment of one-eighth to lessor, plaintiff's assignor, "at the market price at the well for gas sold" where corporation commission subsequently entered a spacing order stating that all royalty interests within a unit would be communitized and each owner would participate in royalty from a well drilled thereon in the relation his acreage bore to total unit acreage, where plaintiff was paid a royalty out of all production from well in proper proportion, but where prices for gas received in sale by defendant, plaintiff's lessee, were higher than prices sold by other working interest owners, defendant was not required to pay plaintiff in addition, out of its working interest, as a statutory "other obligation," the difference between the low gas price and higher gas price. *Pierce v. Texas Pac. Oil Co., Inc., C.A.Okla., 547 P.2d 519 (1976).*

Where limited partnership bringing alleged class action on behalf of royalty owners entitled to be paid royalties under terms of certain oil and gas leases or a pooling order of State Corporation Commission covering a gas well claimed that section of land in which class owned all of mineral interest was established by order as one 640-acre drilling and spacing unit for production of gas from common source of supply and that a subsequent order pooled all oil and gas interests for production from formation in that section, class members had common and undivided interest in one-eighth royalty interest in all gas produced from pooled formation by virtue of communitization of their fractional mineral interests and, accordingly, claims of each class member were joint or common and could be aggregated to satisfy federal jurisdictional amount requirement. *Rocket Oil & Gas Co. v. Arkla Exploration Co., D.C.Okla., 439 F.Supp. 1303 (1977).*

Upon entry of spacing order by Corporation Commission, royalty interests arising from land covered by such order are pooled by operation of law, but working interests therein are pooled

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Creation of drilling and spacing unit pools royalty interests by operation of law, but working interests are pooled only by voluntary agreement or a separate order of Corporation Commission. *O'Neill v. American Quasar Petroleum Co., Okl., 617 P.2d 181 (1980).*

"Overriding royalty" is a percentage carved from lessee's working interest, free and clear of any expense incident to production and sale of oil and gas produced from leasehold. *Id.*

Owner of an overriding royalty interest is not "a person who has right to drill into and to produce from any common source of supply and to appropriate production, either for himself or for himself and others" and, thus, not an "owner" as defined by § 56.1 of this title. *Id.*

An overriding royalty interest attaches only when oil and gas are reduced to possession; prior to this event owner of override has no ascertainable right in leasehold. *Id.*

In connection with orders of the Corporation Commission pooling and adjudicating rights and equities of oil and gas owners in formation which had been designated as drilling and spacing unit, and providing for location of well on land whose owner did not consent thereto, such owner, in receiving his just and fair share of the oil and gas, was not entitled as of right to the alternative of participating in the well as a working interest owner by paying his proportionate share of costs of the well out of production from the well. *Texas Oil & Gas Corp. v. Rehn, Okl., 534 P.2d 1280 (1975).*

34. — Costs

Valid submission of oil and gas well drilling costs estimate for approval of Corporation Commission may be made only by, or in name of, currently designated unit operator. *Crest Resources and Exploration Corp. v. Corporation Commission, Okl., 617 P.2d 215 (1980).*

Corporation Commission, which entered order determining proper and reasonable cost of drilling oil and gas well under prior forced pooling order, properly provided parties with ten days in which to pay their proportionate part of costs. *Lear Petroleum Corp. v. Seneca Oil Co., Okl., 599 P.2d 670 (1979).*

35. Orders of commission—in general

Unapproved "assignment" of unit operator's management responsibility to another did not per se constitute a ground for relief by vacation of pooling order, where transfer sought to be effected altered neither unit operator's legal status nor its liability. *Crest Resources and Exploration Corp. v. Corporation Commission, Okl., 617 P.2d 215 (1980).*

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OIL AND GAS

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Corporation Commission, which entered order determining proper and reasonable cost of drilling oil and gas well under prior forced pooling order, properly provided parties with ten days in which to pay their proportionate part of costs. *Lear Petroleum Corp. v. Seneca Oil Co., Okl., 580 P.2d 670 (1979).*

35. Orders of commission—in general

Unapproved "assignment" of unit operator's management responsibility to another did not per se constitute a ground for relief by vacation of pooling order, where transfer sought to be effected altered neither unit operator's legal status nor its liability. *Crest Resources and Exploration Corp. v. Corporation Commission*, Okl., 617 P.2d 215 (1980).

Portion of pooling order of Corporation Commission which set amount of lessee's option on basis that, although nonparticipating, he would stand obligations owed owners of overriding royalty interests was erroneous because lessee who elected not to participate was no longer possessed of a working interest in well unit and by that election working interest became property of unit operator who was required to pay the bonus. *O'Neill v. American Quasar Petroleum Co., Okl., 617 P.2d 181 (1980).*

Corporation Commission has no statutory authority to issue a pooling order requiring owner of an overriding royalty interest within a drilling and spacing unit to elect between participation in

drilling unit well or, in the alternative, to accept a lesser royalty, notwithstanding fact that nonparticipating royalty owners' interest is convertible into a working interest upon payout. *Id.*

Under oil and gas spacing and pooling statute, rights of all owners, including owner seeking pooling order, must be considered, because all orders requiring pooling "shall be [made] upon such terms and conditions as are just and reasonable and will afford to the owner of such tract in the unit the opportunity to recover or receive without unnecessary expense his just and fair share of the oil and gas." *C. F. Braun & Co. v. Corporation Commission*, Okl., 599 P.2d 1268 (1980).

Corporation Commission was without authority to enter nunc pro tunc order seeking to amend effective date of order establishing drilling and spacing unit where effective date of original order was neither discussed nor mentioned before Commission prior to time order was filed and order was not appealed and became final. *Kuykendall v. Corporation Commission*, Okl.App., 597 P.2d 1221 (1979).

As long as prior order of the Corporation Commission which found natural gas formation to be single common source was in effect, the Corporation Commission was authorized to honor such order and treat source of supply in dispute as single common source when fixing allowable. *Corporation Commission v. Union Oil Co. of California*, Okl., 591 P.2d 711 (1979).

An order of Corporation Commission modifying its previous spacing order has prospective application while a determination that such previous order was void may be applied retroactively. *State v. Corporation Commission*, Okl., 593 P.2d 674 (1979).

Rights accruing under a pooling order do not terminate if well is a dry hole. *Lear Petroleum Corp. v. Seneca Oil Co., Okl., 580 P.2d 670 (1979).*

Applicant for a spacing order need not establish that whole area is underlain by a formation productive enough to support a well which would be economic in its own right; it is sufficient that formation probably contains oil and gas capable of being withdrawn by well on drilling and spacing unit. *Calvert Drilling Co. v. Corporation Commission*, Okl., 589 P.2d 1064 (1979).

Corporation Commission has jurisdiction to enter order establishing drilling and spacing unit whether or not all of lands are leased or unleased. *Barton v. Cleary Petroleum Corp., Okl.Cr., 566 P.2d 452 (1977).*

Oil and gas conservation statutes require that evidence show that area for which drilling and spacing units are established must be underlain by common source of supply; State Corporation Commission has no authority to include known nonproductive area in drilling and spacing unit. *Caudillo v. Corporation Commission*, Okl., 551 P.2d 1110 (1976).

Where boundaries of common sources of gas supply in area involved in application for 160-acre drilling and spacing order were not yet defined, order denying 160-acre application, and including area involved in an extension of previously-granted 640-acre well spacing, indicated exercise by Corporation Commission of technical skill and experience and was proper, notwithstanding that less rapid withdrawal of gas from common reservoir might initially result in production of less gas condensate in the area and that 640-acre order would require applicant to

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Note 35

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give leaseholder of area included in 640-acre order a 55% interest in well producing on leasehold owned entirely by applicant. *Ward v. Corporation Commission*, Okl., 470 P.2d 993 (1970).

In view of testimony that well of applicant for 160-acre drilling and spacing order would drain gas and gas condensate from an area of 640 acres surrounding its site, it was irrelevant and immaterial that production came from section of geological formation from which none of wells governed by previously entered 640-acre spacing orders produced. *Id.*

36. — Order governing

Order of State Corporation Commission establishing 10-acre drilling and spacing unit for production of oil and gas, which unit was not wholly underlain by common source of supply and which unit did not embrace all of area which was underlain by common source of supply, was erroneous and would be reversed. *Caudillo v. Corporation Commission*, Okl., 551 P.2d 1110 (1976).

Fact that spacing order did not authorize drilling of well and in location other than center of the section involved did not preclude entry of order pooling and adjudicating rights and equities of oil and gas owners in formations underlying section, where the Commission also entered order authorizing location of well near corner of the section. *Texas Oil & Gas Corp. v. Rein*, Okl., 534 P.2d 1280 (1975).

37. — Findings to support orders

Testimony that well in center of section could not successfully compete for hydrocarbons under such section, that uncompensated drainage was occurring, and that well at proposed location near corner of section could compensate for future drainage constituted substantial evidence in support of Commission's order authorizing well in the proposed location. *Texas Oil & Gas Corp. v. Rein*, Okl., 534 P.2d 1277 (1975).

38. — Evidence sustaining order

In proceeding to pool 13 common oil and gas sources of supply or spacing units in a 640-acre tract, wherein Corporation Commission took judicial notice of its previous determination for well cost allocations, and evidence upon which findings and conclusions were based was not in the record, Commission did not meet minimum standards of due process, and that part of order which related to cost participation formula was not supported by substantial evidence. *C. F. Braun & Co. v. Corporation Commission*, Okl., 609 P.2d 1268 (1980).

In proceeding to pool 13 common oil and gas sources of supply or spacing units in a 640-acre tract, Corporation Commission's order that election to participate in cost of drilling to a specified formation included, by implication, election to drill to any and all shallower formations was responsive to the evidence where parties did not treat the 13 separate common sources of supply as separate units, but treated the formation at 11,000 feet and all shallower formations as one unit, and the formations below 11,000 feet as another unit. *Id.*

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mula was not supported by substantial evidence. *Id.*

In lessor's action for order requiring oil and gas lessees to develop leased property or release the lease, evidence supported finding of trial court that substantial drainage of the leased land was taking place by wells on adjoining land and that a prudent operator would conclude that an offset well would be a profitable venture; such findings furnished adequate foundation for cancellation of the lease. *Hatten v. Harper Oil Co.*, Okl.App., 600 P.2d 1227 (1979).

Evidence was sufficient to support authorization of drilling of an additional well after spacing order establishing 640-acre drilling unit had become final. *Gibbons v. Corporation Commission*, Okl., 556 P.2d 1260 (1979).

Although applicants may not have been entitled to all relief requested in their application for modification of 640-acre spacing order so as to allow establishment of 160-acre drilling and spacing units for a particular section, evidence was insufficient to support order denying them any relief whatsoever. *Id.*

Expert witness' testimony that highest price paid by corporation, which petitioned Corporation Commission for order pooling interests in oil and gas found in common sources underlying section was \$25 per acre with a one-eighth royalty was substantial evidence supporting portion of order allowing offered bonus of \$25 per acre and one-eighth royalty as alternative to participation. *Home-Stake Royalty Corp. v. Corporation Commission*, Okl., 594 P.2d 1207 (1979).

In proceedings on two applications of mineral rights holder pertaining to drilling authorization for well in quarter section, substantial evidence supported order of Corporation Commission fixing allowable for proposed additional well at 2.45 MMCFD and providing 50% penalty for drainage based on productive acreage in the section. *Corporation Commission v. Union Oil Co. of California*, Okl., 591 P.2d 711 (1979).

A determination as to whether there is substantial evidence to support a spacing order does not require that evidence be weighed, but only that supporting order of Corporation Commission be considered to determine whether it implies a quality or proof inducing conviction that order was proper and furnishes a substantial basis of fact from which issue tendered could reasonably be resolved. *Calvert Drilling Co. v. Corporation Commission*, Okl., 589 P.2d 1064 (1979).

Corporation Commission's order fixing cash bonus of \$35 per acre and 1/8 royalty for oil and gas owners, in lieu of participation in forced pooling order, was supported by substantial evidence. *Coogan v. Arkla Exploration Co.*, Okl., 559 P.2d 1061 (1979).

In view of evidence that, under the 160-acre spacing units established by the Corporation Commission, if a producing well were drilled on the southeast corner, payments would be made to the royalty owners properly entitled thereto and where it could not be said that 640-acre spacing was necessarily required in the two sections involved, order of the Commission establishing 160-acre drilling and spacing units for the production of gas and gas condensate in certain sections was sustained by the law and by substantial evidence was, therefore, affirmed. *Brooks v. LPCX Corp.*, Okl., 587 P.2d 1358 (1978).

OIL AND GAS

In proceeding on oil and gas corporation's application for exception to spacing orders, Corporation Commission's order granting permission to drill off-pattern well was supported by substantial evidence. *GMC Oil and Gas Co. v. Texas Oil and Gas Corp.*, Okl., 556 P.2d 731 (1977).

In proceeding in which Corporation Commission granted oil and gas corporation permission to drill off-pattern well, Commission's determination that the well should be subject to 25% penalty on the regularly assigned allowable for the common source of supply was supported by substantial evidence. *Id.*

Where Corporation Commission's order establishing the Morrow Sands as a common single source of supply was not unequivocal in its wording and evidence now pointed to two separate common sources of supply, if Corporation Commission acknowledged from evidence that geological conditions now known demonstrate that the Morrow Sand actually consists of two separate common sources of supply, then required prerequisite of change in condition or change of knowledge of conditions has been met and Commission could vacate prior order and reclassify formation as two separate common sources of supply. *Martin Oil Corp. v. Corporation Commission*, Okl., 569 P.2d 961 (1977).

Corporation Commission which found, on application to vacate prior order of Commission establishing that entire Morrow formation as a single common source of supply and to reclassify formation as two separate common sources of supply, that evidence did not establish required change of conditions because geological and engineering facts obtained from drilling of new well were consistent with facts known at time of prior order, which was not explicit as to common source of supply, did not pursue its authority in proper manner and denial of application was not sustained by law and substantial evidence showing that formation constituted two sources of supply. *Id.*

Substantial evidence rule controls appeals from oil and gas conservation orders. *French v. Champlin Exploration, Inc.*, Okl., 534 P.2d 1302 (1975).

Evidence, including comparative pressure analysis and fluid analysis, was insufficient to show change of conditions or change in knowledge of conditions sufficient to authorize modification of spacing order by deletion of producing well from common source of supply. *Phillips Petroleum Co. v. Corporation Commission*, Okl., 461 P.2d 597 (1969).

40. — Modification of orders

Where failure of operator to make in lieu payment within time prescribed by pooling order did not render pooling order ineffective as to appellant's interest, with result that 1977 order pooling interest in a 640-acre drilling and spacing unit was still operative, and there was no evidence submitted that would justify orders modification, commission properly dismissed appellant's pooling application seeking permission to participate in producing well completed by operator some 15 months earlier. *Buttram Energies, Inc. v. Corporation Commission of State of Okl.*, Okl., 629 P.2d 1252 (1981).

Where all procedures mandated by this section were followed in Corporation Commission's issuance of forced pooling order and correlative rights of nonconsenting mineral owners were protected, obvious clerical misprison in citation of statute as authority for issu-

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Where Corporation Commission's order establishing the Morrow Sands as a common single source of supply was not unequivocal in its wording and evidence now pointed to two separate common sources of supply, if Corporation Commission acknowledged from evidence that geological conditions now known demonstrate that the Morrow Sands actually consists of two separate common sources of supply, then required prerequisite of change in condition or change of knowledge of conditions has been met and Commission could vacate prior order and reclassify formation as two separate common sources of supply. *Murkin Oil Corp. v. Corporation Commission*, Okl., 569 P.2d 951 (1977).

Corporation Commission which found, on application to vacate prior order of Commission establishing that entire Morrow formation as a single common source of supply and to reclassify formation as two separate common sources of supply, that evidence did not establish required change of conditions because geological and engineering facts obtained from drilling of new well were consistent with facts known at time of prior order, which was not explicit as to common source of supply, did not pursue its authority in proper manner and denial of application was not sustained by law and substantial evidence showing that formation constituted two sources of supply. Id.

Substantial evidence rule controls appeals from oil and gas conservation orders. *French v. Champlin Exploration, Inc.*, Okl., 534 P.2d 1302 (1975).

Evidence, including comparative pressure analysis and fluid analysis, was insufficient to show change of conditions or change in knowledge of conditions sufficient to authorize modification of spacing order by deletion of producing well from common source of supply. *Phillips Petroleum Co. v. Corporation Commission*, Okl., 461 P.2d 597 (1969).

40. — Modification of orders

Where failure of operator to make in lieu payment within time prescribed by pooling order did not render pooling order ineffective as to appellant's interest, with result that 1977 order pooling interest in a 640-acre drilling and spacing unit was still operative, and there was no evidence submitted that would justify orders modification, commission properly dismissed appellant's pooling application seeking permission to participate in producing well completed by operator some 15 months earlier. *Luttram Energies, Inc. v. Corporation Commission of State of Okl.*, Okl., 629 P.2d 1232 (1981).

Where all procedures mandated by this section were followed in Corporation Commission's issuance of forced pooling order and correlative rights of nonconsenting mineral owners were protected, obvious clerical misprision in citation of statute as authority for issu-

ance of the order was not ground for vacation of the order. *Sellers v. Corporation Commission*, Okl. 624 P.2d 1061 (1981).

Order pooling oil and gas interests, when free from vitiating infirmity, is res judicata, but some terms of prior pooling order may be modified upon changed conditions. *Crest Resources and Exploration Corp. v. Corporation Commission*, Okl., 617 P.2d 215 (1980).

Oil and gas spacing order which has become final may be modified only upon substantial evidence which shows change in conditions, or change in knowledge of conditions, arising since the last order. *Spaeth v. Corporation Commission*, Okl., 597 P.2d 320 (1979).

In proceeding on mineral owners' application for modification of Corporation Commission's order creating drilling and spacing units within common source of supply to permit drilling of additional well to protect mineral owners from drainage and consequent prejudice of their correlative rights, there was no substantial evidence to support Commission's finding that there had not been substantial change of conditions or substantial change of knowledge of conditions since previous spacing order or that there had been no violation of correlative rights of applicants or of owners of oil and gas rights in and under the unit in question. Id.

Owners of interests in minerals affected by Corporation Commission's order creating drilling and spacing units within common source of supply had standing to seek permit to drill additional wells to protect them from drainage and consequent prejudice of their correlative rights. Id.

Drilling and spacing order can be modified only upon substantial evidence showing a change in circumstances, or a change in knowledge of conditions, arising since spacing order became final. *Gibbons v. Corporation Commission*, Okl., 536 P.2d 1260 (1979).

Statutory showing necessary for a modification order under this section governing alterations of natural gas drilling units on common source of supply is satisfied for purposes of review in the Supreme Court when the requested order curtails waste or where it would protect correlative rights. *Corporation Commission v. Union Oil Co. of California*, Okl., 531 P.2d 711 (1979).

In respect to applications for an off-pattern well or an additional well, a "change of condition" justifying modification of Corporation Commission's prior drilling order was shown by proof establishing that the well previously drilled to the center of the section could not successfully compete for hydrocarbons, that uncompensated drainage was accruing, and that a well in the proposed location would compensate for future drainage. Id.

Although Corporation Commission cannot entertain application to amend a final spacing order without proof of change of condition, finding of change of condition does not confer jurisdiction on Commission to enter order modifying prior final order. *State v. Corporation Commission*, Okl., 590 P.2d 674 (1979).

Order of Corporation Commission, which modified prior final order by extending drilling and spacing units in common source and which lacked recitation that there had been change of condition, was not subject to collateral attack; thus, Commission properly refused to vacate its order. Id.

Prior order of Corporation Commission, which modified a preceding order by extending drilling and spacing units in common source, could be examined in a collateral proceeding for limited purpose of determining jurisdiction of Commission. *Id.*

Generally, there must be a change of conditions or a change in knowledge of conditions as a requisite to modification of an unappealed Corporation Commission order creating drilling and spacing units. *Marlin Oil Corp. v. Corporation Commission*, Okl., 569 P.2d 861 (1977). Legislature in enacting 52 Okl.St. Ann. § 111 relating to collateral attack on Corporation Commission orders did not intend that every application for modification of an order made on grounds such order was based on incomplete geological data be deemed a collateral attack. *Id.*

Substantial evidence and additional knowledge sustained Corporation Commission's modification of its prior order, which established 540-acre units with one permitted well for production of natural gas and natural gas condensate from Hunton "B" formation, so as to permit drilling of two additional wells for prevention of waste and protection of correlative rights. *French v. Champlin Exploration, Inc.*, Okl., 534 P.2d 1302 (1975).

Final spacing order not appealed from can be modified only upon substantial evidence which shows change of conditions, or change in knowledge of conditions, arising since last order. *Phillips Petroleum Co. v. Corporation Commission*, Okl., 461 P.2d 537 (1969).

41. Procedure—in general

Under oil and gas spacing and pooling statutes, pooling order should be responsive to the application and evidence; if parties treat two or more spacing units underlying the same tract as a single unit, pooling order may treat them as a single unit; if parties treat different common sources of supply or spacing units as separate and distinct spacing units, and evidence discloses an intent or desire on owners' part that they be considered separately, an owner may not be required to have his rights under one spacing unit be dependent or contingent upon his rights or his election in another spacing unit. *C. F. Braun & Co. v. Corporation Commission*, Okl., 609 P.2d 1268 (1980).

The exact delineation of an underground channel is a proper subject for expert testimony in a proceeding before the Corporation Commission for an order establishing drilling and spacing units for the production of gas and gas condensate. *Brooks v. LPCX Corp.*, Okl., 587 P.2d 1358 (1978).

41.5 Admissibility of evidence

Testimony of terms of price paid for recent oil and gas leases in surrounding area is admissible to establish reasonable market value of lessee's working interest. *Home-Stake Royalty Corp. v. Corporation Commission*, Okl., 594 P.2d 1207 (1979).

In proceeding in which Corporation Commission entered order fixing cash bonus of \$35 per acre and $\frac{1}{4}$ royalty for oil and gas owners, in lieu of participation in forced pooling order terms and price paid for leases in the area were admissible to establish reasonable market value in light of fact that such leases were purchased prior to institution of the proceeding before the Commission and that there was no indication that the lease transactions were not open market sales and purchases of mineral

leases. *Coogan v. Arkla Exploration Co.*, Okl., 589 P.2d 1061 (1979).

42. — Notice

When an applicant seeks to establish a drilling and spacing unit which includes a producing leasehold and the applicant knows of the identity of parties owning an interest therein or can with due diligence ascertain same, such applicant must not only give published notice required by statute and rule but must use due diligence in notifying such parties of the application. *Ciavenna v. Corporation Commission*, Okl., 613 P.2d 442 (1980), certiorari denied 101 S.Ct. 1479.

Notice requirements of § 97 requiring publication of notice only in Oklahoma city were applicable in proceedings brought under subsection (d) of this section in Corporation Commission to pool separately owned mineral estates, and notice requirements of subsection (a) of this section were not applicable. *Holmes v. Corporation Commission*, Okl., 456 P.2d 630 (1970).

47. Review—in general

Trial court's finding that holder of oil and gas lease did not abandon property remaining on the lease after its expiration, when production in paying quantity ceased, was not clearly against the weight of the evidence. *Wilson v. Owens*, Okl., 619 P.2d 866 (1980).

Order of Corporation Commission will be affirmed if supported by substantial evidence and law. *Corporation Commission v. Union Oil Co. of California*, Okl., 591 P.2d 711 (1979).

In order to secure a reversal of a spacing order of Corporation Commission on grounds that Commission had no authority to space land not overlying common source, an appellant must preclude existence of a present or prospective common source. *Calvert Drilling Co. v. Corporation Commission*, Okl., 539 P.2d 1064 (1979).

In an application to "force pool" outstanding leasehold interest for production of oil and casinghead gas, error could not be predicated on failure of Corporation Commission to decide the application without first preparing and considering a transcript of hearing before trial examiner absent showing of compliance with rule requiring a party taking exception to a hearing officer's report to furnish a transcript or attach a "correct summary" to his exception. *Bray v. Cap Corp.*, Okl., 571 P.2d 1224 (1977).

48. — Scope of review

Upon finding that Corporation Commission should have modified spacing order, Supreme Court did not have authority to make the order which the Commission should have made and could only reverse the order. *Spaeth v. Corporation Commission*, Okl., 537 P.2d 320 (1979).

When order of the Corporation Commission is appealed, the Supreme Court is not required to weigh evidence but will review evidence and sustain decision of the Commission if order appealed from is supported by substantial evidence. *Corporation Commission v. Union Oil Co. of California*, Okl., 591 P.2d 711 (1979).

Supreme Court cannot and will not review evidence to determine preponderance thereof but will affirm order of Corporation Commission where decision of that body follows applicable law and is supported by substantial evidence. *Id.*

Supreme Court, in reviewing Corporation Commission order, is not required

to weigh and measure evidence in an endeavor to determine its preponderance, but, rather, court's duty ends with a finding that there is evidence of a probative value reasonably and substantially sustaining Commission's finding and order. *GMC Oil and Gas Co. v. Texas Oil and Gas Corp.*, Okl., 586 P.2d 731 (1978).

Where there was conflicting evidence as to value of an oil and gas lease on property which was within drilling and spacing unit and whose owner did not consent to location of well on his property, Supreme Court, in reviewing contention that bonus established in lieu of participation would not compensate protesting surface and minerals owner for his fair, equitable and reasonable share of unit production was not privileged to weigh the evidence, but merely to determine if there was substantial evidence to support the findings and conclusions of the Corporation Commission. *Texas Oil & Gas Corp. v. Rein*, Okl., 534 P.2d 1280 (1975).

Provision of the Utilization Act was not applicable to proceeding on application to pool and adjudicate equities of oil and gas owners in certain formation which had been designated as drilling and spacing unit. *Id.*

49. — Substantial evidence

There was substantial evidence supporting Corporation Commission order establishing four 1440-acre drilling and

§ 94. Maps and drawings—Location of pipe Verification

1. In general

In suit brought by pipeline company against contractors to recover for the damage done a subsurface pipeline and for the expense incurred by company in locating the point of damage, there was sufficient, competent testimony upon which to base a finding that the company's pipeline was in fact buried considerably shallower than it should have been, particularly in view of the published depth; accordingly, the con-

spacing unit which order and order to create in view of Morrow-Sp. Hunton cor. delay such common se.

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§ 97. Commission—Jurisdiction to make order Hearings

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Order of Corporation Commission will be affirmed if supported by substantial evidence and law. *Corporation Commission v. Union Oil Co. of California, Okl., 591 P.2d 711 (1979).*

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In an application to "force pool" outstanding leasehold interest for production of oil and casinghead gas, error could not be predicated on failure of Corporation Commission to decide the application without first preparing and considering a transcript of hearing before trial examiner absent showing of compliance with rule requiring a party taking exception to a hearing officer's report to furnish a transcript or attach a "correct summary" to his exception. *Bray v. Cap Corp., Okl., 571 P.2d 1224 (1977).*

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Upon finding that Corporation Commission should have modified spacing order, Supreme Court did not have authority to make the order which the Commission should have made, and could only reverse the order. *Spaeth v. Corporation Commission, Okl., 597 P.2d 320 (1979).*

When order of the Corporation Commission is appealed, the Supreme Court is not required to weigh evidence but will review evidence and sustain decision of the Commission if order appealed from is supported by substantial evidence. *Corporation Commission v. Union Oil Co. of California, Okl., 591 P.2d 711 (1979).*

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to weigh and measure evidence in an endeavor to determine its preponderance, but, rather, court's duty ends with a finding that there is evidence of a probative value reasonably and substantially sustaining Commission's finding and order. *GMC Oil and Gas Co. v. Texas Oil and Gas Corp., Okl., 586 P.2d 731 (1975).*

Where there was conflicting evidence as to value of an oil and gas lease on property which was within drilling and spacing unit and whose owner did not consent to location of well on his property, Supreme Court, in reviewing contention that bonus established in lieu of participation would not compensate protesting surface and minerals owner for his fair, equitable and reasonable share of unit production was not privileged to weigh the evidence, but merely to determine if there was substantial evidence to support the findings and conclusions of the Corporation Commission. *Texas Oil & Gas Corp. v. Refn, Okl., 534 P.2d 1280 (1975).*

Provision of the Unitization Act was not applicable to proceeding on application to pool and adjudicate equities of oil and gas owners in certain formation which had been designated as drilling and spacing unit. *Id.*

49. — Substantial evidence

There was substantial evidence supporting Corporation Commission order establishing four 1440-acre drilling and

spacing units in Beckham County, which order consolidated two prior orders and extended the consolidated order to encompass seven additional units in view of evidence indicating that the Morrow-Springer, Mississippian, and Hutton common sources of supply underlying such 1440-acre units and were common sources of supply for the production of gas and gas condensate. *Western Oklahoma Royalty Owners Ass'n, Inc. v. Corporation Commission, Okl.App., 597 P.2d 477 (1979).*

Substantial evidence rule controls appeal involving oil and gas conservation orders of Corporation Commission. *Spaeth v. Corporation Commission, Okl., 597 P.2d 320 (1979).*

In reviewing order of Corporation Commission, Supreme Court is required to determine if there is substantial evidence to support factual determinations of Commission and it is not required to weigh evidence, but must accept facts and conclusions therefrom supported by substantial evidence. *Home Stake Royalty Corp. v. Corporation Commission, Okl., 594 P.2d 1207 (1979).*

Corporation Commission's order determining proper and reasonable cost of drilling oil and gas well under prior forced pooling order was supported by substantial evidence; thus, order would be affirmed. *Lear Petroleum Corp. v. Seneca Oil Co., Okl., 590 P.2d 670 (1979).*

§ 94. Maps and drawings—Location of pipe lines and connections—Verification

1. In general

In suit brought by pipeline company against contractors to recover for the damage done a subsurface pipeline and for the expense incurred by company in locating the point of damage, there was sufficient, competent testimony upon which to base a finding that the company's pipeline was in fact buried considerably shallower than it should have been, particularly in view of line's published depth; accordingly, the con-

tractors were not guilty of negligence when their digging machine made contact with the pipeline, causing a dent or stricture therein. *Magnolia Pipe Line Co. v. Cowen, Okl., 477 P.2d 848 (1970).*

With respect to its construction activities, a contractor has the right to rely on pipeline depths as published on official plats. *Id.*

§ 97. Commission—Jurisdiction to make orders, rules and regulations—Hearings

Law Review Commentaries

Interpreting corporation commission orders—Should commission be a spectator or a player? *Philip D. Hart, 48 Okl.B.J. 1343 (1977).*

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2. Notice of hearing

Absence of signatures on copy of notice of hearing in application for pooling of interests of mineral owners in lime formations underlying described land

was not a defect sufficient to invalidate notice where original of notice in files of Commission was signed by all members of Commission. *Ranola Oil Co. v. Corporation Commission, Okl., 460 P.2d 416 (1969).*

Even if notice of hearing on application for pooling interests of mineral owners in lime formations underlying described land was sent to wrong address of owner notice to that owner was not defective where he received copy of it and had actual notice of hearing. *Id.*

3. Prematurity

On appeal from order of Corporation Commission scheduling hearing on motion to reopen proceedings in which Commission had entered order pooling interests of owners of mineral rights, argument asserting that such order for hearing deprived owner to whom pooling order had been issued of state and federal constitutional rights but failing to demonstrate how such owner had yet been deprived of those rights was premature. *Gose v. Corporation Commission, Okl., 460 P.2d 118 (1969).*

4. Pooling applications

"Third alternative" given by "three way" pooling orders of Corporation Commission to owners of minerals in

C. F. BRAUN & CO.; Robert L. Scott;
Jones & Pellow Oil Company; Robert S.
Bowers; Virgil Boll; John Reinhart;
and Jim Biddick, Appellants,

v.

The CORPORATION COMMISSION of
the State of Oklahoma and Leonard
S. Fowler, Appellees.

No. 51673.

Supreme Court of Oklahoma.

March 25, 1980.

Owners of leasehold interests in 13 common oil and gas sources of supply under a 640-acre tract appealed from an order of the Corporation Commission which pooled their interests. The Supreme Court, Irwin, V. C. J., held that: (1) Commission's order that election to participate in cost of drilling to a specified formation included election to drill to shallower formations was responsive to the evidence, and (2) the cost participation formula was not supported by substantial evidence.

Reversed.

Barnes, J., dissented.

1. Mines and Minerals ⇌ 92.78

Under oil and gas spacing and pooling statutes, 13 common sources of supply underlying 640-acre tract constituted 13 separate and distinct spacing and drilling units where one bore hole could be used to test and develop one or all of the 13 units. 52 O.S.Supp.1977, § 87.1(a, c, e).

2. Mines and Minerals ⇌ 92.78

Oil and gas spacing and pooling statutes do not limit the number of separate spacing units that can be included in pooling application or proceeding; however, whether pooled owner is entitled to election whether to participate in the cost as to each common source of supply or each separate spacing unit depends upon facts and circumstances in each pooling proceeding. 52 O.S.Supp.1977, § 87.1(a, c, e).

3. Mines and Minerals ⇌ 92.80

Use of the singular in oil and gas spacing and pooling statute when speaking to a pooling order may not be construed to mean that, in a pooling proceeding involving multiple common sources of supply or spacing units underlying the same tract, an owner is necessarily entitled to an election whether or not to participate in the cost as to each separate unit. 52 O.S.Supp.1977, § 87.1(a, c, e).

4. Mines and Minerals ⇌ 92.79

Under oil and gas spacing and pooling statutes, pooling order should be responsive to the application and evidence; if parties treat two or more spacing units underlying the same tract as a single unit, pooling order may treat them as a single unit; if parties treat different common sources of supply or spacing units as separate and distinct spacing units, and evidence discloses an intent or desire on owners' part that they be considered separately, an owner may not be required to have his rights under one spacing unit be dependent or contingent upon his rights or his election in another spacing unit. 52 O.S.Supp.1977, § 87.1(a, c, e).

5. Mines and Minerals ⇌ 92.78

Under oil and gas spacing and pooling statute, rights of all owners, including owner seeking pooling order, must be considered, because all orders requiring pooling "shall be [made] upon such terms and conditions as are just and reasonable and will afford to the owner of such tract in the unit the opportunity to recover or receive without unnecessary expense his just and fair share of the oil and gas." 52 O.S.Supp.1977, § 87.1(a, c, e).

6. Mines and Minerals ⇌ 92.78

In proceeding to pool 13 common oil and gas sources of supply or spacing units in 640-acre tract, Corporation Commission's treatment of formation at 11,000 feet and all formations above it as one unit, and all formations below 11,000 feet as another unit, was responsive to the evidence. 52 O.S.Supp.1977, § 87.1(a, c, e).

7. Mines and Minerals ⇌ 92.78

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8. Corporation Commission ⇌ 92.78

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9. Corporation Commission ⇌ 92.78

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C. F. BRAUN & CO. v. CORPORATION COMMISSION Okl. 1269

Cite as, Okl., 609 P.2d 1269

7. Mines and Minerals ⇐ 92.79

In proceeding to pool 13 common oil and gas sources of supply or spacing units in 640-acre tract, Corporation Commission's order that election to participate in cost of drilling to a specified formation included, by implication, election to drill to any and all shallower formations was responsive to the evidence where parties did not treat the 13 separate common sources of supply as separate units, but treated the formation at 11,000 feet and all shallower formations as one unit, and the formations below 11,000 feet as another unit. 52 O.S.Supp.1977, § 87.1(a, c, c).

8. Constitutional Law ⇐ 318(1)

Provision of Administrative Procedures Act that party shall be notified of material officially noticed and shall be afforded an opportunity to contest material so noticed expresses minimum standards of state and federal due process. 75 O.S.1971, §§ 301 et seq., 310(4); O.S.1971 Const. art. 2, § 7; U.S.C.A.Const. Amends. 5, 14.

9. Constitutional Law ⇐ 318(2)

Mines and Minerals ⇐ 92.80

In proceeding to pool 13 common oil and gas sources of supply or spacing units in a 640-acre tract, wherein Corporation Commission took judicial notice of its previous determination for well cost allocations, and evidence upon which findings and conclusions were based was not in the record, Commission did not meet minimum standards of due process, and that part of order which related to cost participation formula was not supported by substantial evidence. 52 O.S.Supp.1977, § 87.1(a, c, e); 75 O.S. 1971, §§ 301 et seq., 310(4); O.S.1971 Const. art. 2, § 7; U.S.C.A.Const. Amends. 5, 14.

APPEAL FROM THE CORPORATION COMMISSION OF THE STATE OF OKLAHOMA.

1. Extension orders were granted in Cause No. 50229 and at time the pooling application was filed the following formations, listed in order of depth, had been established as common sources of supply: Douglas (Upper Tonkawa),

Appellants, owners of leasehold interests in thirteen common sources of supply under a 640 acre tract, which constitutes thirteen separate 640 acre drilling units in the 640 acre tract, appeal from a Corporation Commission order which pooled their respective interests.

REVERSED.

H. B. Watson, Jr., Richard K. Books, Oklahoma City, for appellants.

Robert J. Emery, Oklahoma City, for appellee Leonard S. Fowler.

IRWIN, Vice Chief Justice.

The Oklahoma Corporation Commission (Commission) established thirteen separate common sources of supply under a 640 acre tract.¹ These thirteen separate common sources of supply had been spaced and constituted thirteen separate and distinct drilling and spacing units within the 640 acre tract. Leonard S. Fowler, appellee, filed an application to pool the thirteen common sources of supply or spacing units in the 640 acre tract under 52 O.S.1977 Supp., § 87.1(e). Appellee proposed to drill a test well to the Hunton formation which was 13,500 feet below the surface. Appellants, owners of some leasehold interests under the 640 acre tract, proposed to drill a test well to the Morrow Sand which was 11,000 feet.

The Commission, after hearing, entered its pooling order which scheduled a cash bonus or overriding royalty for each formation if an owner elected not to participate in the costs in all the formations. Or, an owner could elect to accept the cash bonus as to certain formations and participate in the costs as to other formations, provided, however, "that any election to drill to a specified formation, shall, by implication, include the election to drill to any and all formations shallower than said specified formation."

Tonkawa (Lower Tonkawa), Cottage Grove, Cleveland, Big Lime, Oswego, Cherokee, Atoka, Morrow Sand, Springer Sand, Chester, Mississippi-Meramec, and Hunton.

That portion of the order which provided for the apportionment of costs required the owners electing to participate in the Morrow Sand to pay:

$$75\% \times \frac{11,000}{\text{Total Depth of Well in Feet}} \times \text{Total Cost to Casing Point}$$

and all participating owners, who elected to join in the well for a test below the Morrow Sand were required to pay, in addition to their proportionate share of the above costs, the entire costs of drilling and testing below the Morrow Sand on the following basis:

$$25\% \times \frac{11,000}{\text{Total Depth of Well in Feet}} \times \text{Total Cost to Casing Point}$$

Plus

$$\frac{\text{Total Depth of Well in Feet minus 11,000}}{\text{Total Depth of Well in Feet}} \times \text{Total Cost to Casing Point}$$

Under the above formula, (1) if a well is drilled only to the Morrow Sand (11,000'), all participating owners will pay their proportionate share of the costs, (2) if the total depth is 13,500 feet, which the evidence indicates is the depth sufficient to test the Hunton, owners who elect to participate only in the Morrow Sand, will pay their proportionate share of 61.11% of the total costs, and (3) owners who elect to participate in the Hunton will pay their proportionate share of the 61.11% above set forth, and in addition thereto, the balance of the costs or 38.89% of the total costs.

Appellants elected (1) to accept the cash bonus for each of the eight formations above the Morrow Sand (totalling \$67.90 per acre) (2) to participate in the costs for the Morrow Sand, and (3) to accept the cash bonus and excess override in the formations below the Morrow Sand.²

Appellants' election was contrary to the Commission's pooling order because under the order, appellants' election to participate in the Morrow Sand, by implication, included an election to participate in the eight shallower formations. Therefore, under the order, appellants were not entitled to a cash bonus for each of the eight formations above the Morrow Sand in view of their election to participate in the Morrow Sand.

2. Appellants, in their Letters of Election, notified they were required to elect within 15 days of the pooling order and they planned to appeal

Appellants' first specification of error is directed to that part of the pooling order which provided that an election to participate in the costs to a specified formation included, by implication, an election to participate in all shallower formations. Appellants contend that since appellee's application to pool included all thirteen common sources of supply underlying the 640 acre tract, and the Commission pooled all thirteen, the Commission's order was erroneous because it did not allow an election as to each common source of supply.

Appellee contends that 52 O.S.1977 Supp., § 87.1(e) does not require a separate election for each separate and distinct common source of supply underlying the same 640 acre tract. Appellee says that if such construction is now placed on our pooling statute "there will be a whole new ball game" at the Commission, and therefore, a new ball game in the industry itself. Appellee recognizes the Commission is authorized to provide for an election as to each common source of supply, but contends that a pooling order must be "just and reasonable" and based upon the facts and circumstances in each case. Appellee argues in determining whether the pooling order in the case at bar is valid, this court should keep in mind that only working interests are involved and that appellants proposed to drill a well to a depth sufficient to test the Morrow Sand, whereas appellee proposed to drill to a depth sufficient to test the Hunton Lime.

The Commission has "the power to establish well spacing and drilling units covering any common source of supply." 52 O.S.1977 Supp. § 87.1(a). In establishing a well spacing or drilling unit for a common source of supply, the acreage to be embraced within each unit shall not exceed a specified number of acres, depending upon certain factors. § 87.1(c). When two or more separately owned tracts of land are embraced within an established spacing unit, or where there are undivided interests embraced within such unit, the owners

to the Supreme Court. All elections were made subject to their appeal.

thereof may validly pool their interests and develop their lands as a unit. In case the owners cannot agree, the Commission, upon proper application and hearing shall require such owners to pool and develop their lands in the spacing unit as a unit. "All orders requiring such pooling shall be made upon such terms and conditions as are just and reasonable." 52 O.S.1977 Supp. § 87.1(e).

[1, 2] As we view our spacing and pooling statutes, the thirteen common sources of supply underlying the 640 acre tract in the case at bar constitute thirteen separate and distinct spacing and drilling units where one bore hole can be used to test and develop one or all of the thirteen units.³ Our statutes do not limit the number of separate spacing units that can be included in a pooling application or proceeding. However, whether a pooled owner is entitled to an election as to each common source of supply or each separate spacing unit as argued by appellant depends upon the facts and circumstances in each pooling proceeding.

[3-5] The singular is used in our statutes when they speak to a pooling order, but this may not be construed to mean that in a pooling proceeding involving multiple common sources of supply or spacing units underlying the same tract that an owner is necessarily entitled to an election as to each separate unit. The pooling order should be responsive to the application and evidence. If the parties treat two or more spacing units underlying the same tract as a single unit, the pooling order may treat them as a single unit.⁴ If the parties treat the different common sources of supply or spacing units as separate and distinct spacing units, and the evidence discloses an intent or desire on the owners' part that they be con-

sidered separately, an owner may not be required to have his rights under one spacing unit be dependent or contingent upon his rights or his election in another spacing unit. But the rights of all owners, including the owner seeking the pooling order, must be considered, because all orders requiring pooling "shall be [made] upon such terms and conditions as are just and reasonable and will afford to the owner of such tract in the unit the opportunity to recover or receive without unnecessary expense his just and fair share of the oil and gas." § 87.1(e), *supra*.

Appellee was authorized to include in his pooling application any or all of the thirteen spacing units, and he included all thirteen. Appellee proposed to drill a well to a sufficient depth to test the Hunton formation, and his evidence, in effect, treated the entire thirteen separate common sources of supply or thirteen spacing units as a single unit.

Appellants did not challenge appellee's application to pool although they did challenge the value of the leasehold estate and also proposed they be named the operator. Appellants wanted to test the Morrow, and whether they would later test the Hunton depended on the outcome of a well in another section and the structural position of the proposed well. Appellants said that if they were named the operator and after drilling to the Morrow they did not want to take the well on the Hunton, " . . . if any party wanted to take that well on the Hunton, they should have the option of taking over operation of the well." Appellants' evidence, in effect, treated the thirteen separate common sources of supply or spacing units as two units, *i. e.* one unit including

units underlying the same 640 acre tract. If the appellants and the appellee had wanted to drill and test only the Morrow Sand (or the Hunton), and the parties had treated all thirteen separate units as a single unit, a pooling order authorizing an election to participate in the proposed well or accept a single bonus for all the spacing units would have been proper. It appears that this is in harmony with the Commission's policy.

3. *Helmerich & Payne v. Corporation Commission*, Okl., 532 P.2d 419 (1975) involved 640 acre drilling and spacing units under nine governmental sections. Although there were seven common sources of supply under each of the nine sections, the manner in which the seven common sources of supply were pooled was not in issue.

4. As an example: In the case at bar there are thirteen common sources of supply or spacing

the Morrow Sand and all shallower formations, and another unit including all formations below the Morrow Sand.

[6] Under the Commission's order, the Morrow Sand, and all formations above it, were, in effect, treated as one unit, and all formations below the Morrow were treated as another unit. This was responsive to the evidence. Appellants did not suggest they wanted to participate in the Morrow and accept bonuses for the shallower formation until after the pooling order was entered.

[7] Appellants' argument that they were entitled to an election as to each common source of supply or each separate spacing unit may not be sustained. The parties did not treat the thirteen separate common sources of supply as separate units, but treated the Morrow Sand and all shallower formations as one unit, and the formations below the Morrow as another unit. The pooling order was responsive to the evidence.

We approve the pooling order in all respects except the participation formula, and the manner in which the Commission determined such formula. Appellants contend there is insufficient evidence to support the formula.

Appellee offered no evidence tending to demonstrate the proper approach in determining a formula to allocate the well costs. Appellants on the other hand, presented expert testimony as to the allocation of costs and recommended the approach suggested in Bulletin No. 2, Determinations of Values for Well Cost Adjustments, Joint Operations published by the Council of Petroleum Accountants Societies of North America. The Commission adopted the cost-participation formula heretofore set forth, and appellants contend that it is not supported by substantial evidence.

In reaching its conclusions concerning the cost formula, the Commission noted in its order:

"[I]n view of the possibility that certain owners will elect to drill only to the base of the Morrow Sand formation while other owners may elect to join

with Applicant in the drilling of the proposed unit well to a depth sufficient to test the Hunton Lime formation, it is necessary for the Commission to provide herein for allocation of well costs between the owners electing to join in a Morrow Sand test and the owners electing to join in a Hunton Lime test; that a witness testifying for a group of owners, some of which may elect to join in the proposed unit well only to the base of the Morrow Sand formation, recommended that well costs be allocated as suggested in Bulletin No. 2 of the Council of Petroleum Accountants Societies of North America [COPAS]; the Commission finds that the COPAS Bulletin No. 2 is recommended simply as a 'guide' for determination of values for well cost adjustments in joint operations and that the Commission has heretofore, in a variety of prior orders, adjusted well cost allocation on varying bases depending upon the operational facts of the particular case and the Commission takes judicial notice of its previous determinations for well cost allocations."

It is apparent the Commission did not base its participation formula upon any specific evidence in the case before it, but upon principles and evidence which it had followed in previous cases. Appellee defends this use of "judicial notice" by arguing that the Commission may take "judicial notice" of previous decisions. This abstract statement may be correct but how can it be applicable in the case at bar? To put the question more concretely by paraphrasing the language in *Ohio Bell Telephone Co. v. Public Utilities Commission of Ohio*, 301 U.S. 292, 57 S.Ct. 724, 81 L.Ed. 1093 (1937): How is it possible for this Court to review the law and facts and intelligently decide that the findings and conclusions of the Commission are supported by substantial evidence when the evidence upon which the findings and conclusions are based are not in the record and unknown?

In the *Ohio Bell* case, the Ohio Public Utilities Commission, in determining the value of Ohio Bell's property for rate mak-

C. F. BRAUN & CO. v. CORPORATION COMMISSION Okl. 1273

Cite as, Okl. 609 P.2d 1268

ing purposes, modified the value established by Ohio Bell's evidence as of a certain date, by the percentage of decline or rise indicated during subsequent years by price trends of which the Commission took judicial notice. According to the Commission's findings, "The trend of land valuation was ascertained from the tax value in communities where 'Bell' had its largest real estate holdings." "For building trends resort was had to price indices of the Engineering News Record, a recognized magazine. Labor trends were developed from the same sources." Ohio Bell was not given an opportunity to explain or rebut the price trends which the Commission judicially noticed. The United States Supreme Court recognized that regulatory commissions have been vested with broad powers within the sphere of duty assigned them by law, and that even in quasi-judicial proceedings their informed and expert judgment exacts and receives a proper deference from courts when it has been reached with due submission to constitutional restraints, but it said "The fundamentals of a trial were denied . . . upon the strength of evidential facts not spread upon the record. This is not the fair hearing essential to due process."

In *Dayco Corporation v. Federal Trade Commission*, 362 F.2d 180 (6th Cir. 1966), the Commission found a manufacturer of automobile parts had violated certain federal laws by selling like products to different sellers at different prices and by entering into agreements to fix resale prices. On review, the Circuit Court held that F.T.C.'s use of official notice of another case as a substitute for proof in proceedings alleging the manufacturer of automobile parts, inter alia, was guilty of price fixing was a procedural impropriety requiring vacation of the order finding manufacturer guilty. The Circuit Court said: "However salutary the liberal use of official notice as an aid to the Federal Trade Commission and other administrative agencies in the dispatch of their business, due process must be observed in such use."

The annotation in 18 ALR2d 552 on "Administrative decisions or findings based on

evidence secured outside of hearing," at page 555, states:

"As a general proposition, it is not proper for an administrative authority to base a decision of an adjudicatory nature, or findings in support thereof, upon evidence or information outside the record and in particular upon evidence obtained without the presence of and notice to the interested parties, and not made known to them prior to the decision."

In *Oklahoma Natural Gas v. Corporation Commission*, 90 Okl. 84, 216 P. 917 (1923), the Corporation Commission had determined, based upon its "independent knowledge", that the utility could obtain natural gas for a price approximately one-third less than the cost indicated by the evidence presented. This court said:

"The Commission should base its findings upon evidence before it. The rights of the parties depend upon facts established at the hearing, and not upon some independent knowledge of the Commission acquired after the hearing . . . A finding without evidence to support it is arbitrary and baseless."

Although the Administrative Procedures Act 75 O.S.1971, § 301 et seq., as amended, is not applicable to the Corporation Commission, (§ 301), § 310(4) provides:

"Notice may be taken of judicially cognizable facts. In addition, notice may be taken of generally recognized technical or scientific facts within the agency's specialized knowledge. Parties shall be notified either before or during the hearing, or by reference in preliminary reports or otherwise, of the material noticed, including any staff memoranda or data, and they shall be afforded an opportunity to contest the material so noticed. The agency's experience, technical competence, and specialized knowledge may be utilized in the evaluation of the evidence."

[8,9] The above statute expresses the minimum standards of state and federal due process. The Commission, taking judicial notice of "prior orders, adjusted well

cost allocation on varying bases depending upon the operational facts of the particular case," did not meet the minimum standards of due process, and that part of the order which relates to the participation formula is not supported by substantial evidence.

REVERSED.

LAVENDER, C. J., and WILLIAMS, HODGES, SIMMS, DOOLIN, HARGRAVE and OPALA, JJ., concur.

BARNES, J., dissents.



Bob J. VINZANT, Appellee,

v.

HILLCREST MEDICAL CENTER,
Appellant.

No. 51798.

Supreme Court of Oklahoma.

April 1, 1980.

As Corrected April 10, 1980.

Rehearing Denied May 5, 1980.

Action was instituted for declaratory judgment with respect to priority of liens between a hospital and an attorney representing patient. The District Court, Rogers County, Edwin D. Carden, J., determined that attorney's lien was superior to hospital's lien and hospital appealed. The Supreme Court, Hodges, J., held that hospital was to have a lien upon that part going or belonging to patient of any recovery or sum had or collected or to be collected, and its lien was inferior to any lien or any claim of attorney handling matter for patient; hence, where patient had contracted that attorney was to receive 40% of whatever he recovered, and patient could have received only \$6,000, part "going or belonging" to patient for purpose of hospital's lien was

the part remaining after the fee of the attorney was deducted.

Affirmed.

Opala, J., concurred in part and dissented in part and filed opinion.

1. Appeal and Error ⇐1024.3

Question of fact of residence for venue purposes is for the determination of trial court and its determination is conclusive upon appeal unless it is clearly against all weight of evidence.

2. Declaratory Judgment ⇐271

Evidence presented to trial court on issue of venue in action for declaratory judgment with respect to priority of liens between hospital and lawyer representing patient was sufficient for trial court to conclude that patient's residence was in Rogers County and that action was, therefore, promptly laid in Rogers County. 12 O.S.1971, § 1653.

3. Appeal and Error ⇐187(1)

An objection to a misjoinder of parties must be promptly interposed in manner provided by law, and failure to do so will preclude the question being raised on appeal.

4. Appeal and Error ⇐170(1)

Claim that patient was not a necessary or proper party to action for declaratory judgment as to priority of liens between hospital and lawyer representing patient was not presented to trial court and, hence, could not be raised for first time on appeal.

5. Hospitals ⇐5

Purpose of statute making a hospital's lien inferior to any lien or claim of an attorney who handles a matter on behalf of a patient is to provide a certain degree of protection to an attorney while he effectuates a recovery for patient. 5 O.S.1971, § 6; 42 O.S.1971, § 43.

6. Attorney and Client ⇐179

Question whether a lien was perfected by attorney pursuant to statute governing imposition of attorney's lien from time of

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Joe Hall

WEST VIRGINIA

Perry,

This is a first draft of
my reply to Frank Miller's
motion to stay.

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT
FOR THE COUNTY OF CHAVES, STATE OF NEW MEXICO

VIKING PETROLEUM, INC.

Petitioner,

vs.

OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO AND
HARVEY E. YATES COMPANY

Respondent.

No. CV-82-77

RESPONDENT'S BRIEF

AMENDED MOTION FOR STAY OR SUSPENSION OF ORDER No. R-6873

The Motion for Stay or Suspension of Order No. R-6873 is predicated upon §70-2-25(C) N.M.S.A., 1978, which in part states:

"the district court in its discretion may,... stay or suspend, in whole or in part, operation of the order...pending review thereof, on such terms as the court deems just and proper and in accordance with the practice of courts exercising equity jurisdiction."

The key to the above quoted passage is the phrase "in accordance with the practice of courts exercising equity jurisdiction." The phrase sets out the parameters within which the court is expected to exercise its "discretion."

The exercise of equity jurisdiction is flexible but not without historically derived limits. One of those is that equity will not suffer a wrong without providing a remedy 27 Am.Jur.2d Equity §120. But this maxim must have a corollary--if there is no wrong or harm, there is no need for an equitable remedy.

The petitioner in his motion has not alleged any harm that he will suffer if the order is not stayed while its validity is reviewed. On the contrary, part 8 of his motion says that "no party shall suffer loss or damage due to the stay or suspension of the order" if the order is affirmed by the court. If the petitioner prevails and the court vacates the order, the same reasoning should apply. In either case, petitioner has not been required to pay any money and thus by his own admission has suffered no loss or damage. If petitioner has suffered no wrong if the order is not stayed, there is no reason to grant the order petitioner requests.

A second equitable jurisdiction parameter is that equity will not take jurisdiction when an adequate legal remedy exists. General Tel. Co. of the Southwest v State Tax Commission, 367 P2d 711, 69 N.M. 403 (1962).

The only points in the motion in which petitioner alleges harm to itself are those in which he directly attacks the provisions of Order No. R-6873. Petitioner has a direct legal remedy for his disagreement with the provisions of Order No. R-6873, his Petition for Review pursuant to §70-2-25(B) N.M.S.A. (1978). Under the parameter stated above, the court should not have equitable jurisdiction to rule upon the validity of the order. Petitioner's collateral attack upon the order by way of a motion to stay or suspend is improper.

Clearly the purpose behind §70-2-25(C) was to protect a party from any harm he might suffer while a review of an order was made. Petitioner has not alleged he will suffer any harm while waiting for the court to review the validity of Order No. R-6873 and the harm he does claim results from the order itself and will be decided as part of the direct review of the order. Therefore, there is no reason for the court to issue an order staying or suspending the operation of Order No. R-6873.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION COMMISSION

JAN 27 1981

SANTA FE

IN THE MATTER OF THE)
APPLICATION OF HARVEY E.)
YATES COMPANY FOR COMPULSORY)
POOLING CHAVES COUNTY,)
NEW MEXICO)

Case No. 7390
Order No. R-6873

APPLICATION FOR REHEARING

COMES NOW, VIKING PETROLEUM, INC., by and through its attorneys, JONES, GALLEGOS, SNEAD & WERTHEIM, P.A., and hereby applies to the Oil Conservation Commission for a rehearing on the above-styled application to reconsider the Order entered January 7, 1982, herein and in support of its application states:

1. It is the duty of the Commission to prevent waste prohibited by the Oil and Gas Act, §70-2-1 et seq., NMSA 1978, and to protect correlative rights, as provided in the said Act.

2. The Order from which this application is made:

a. is not supported by substantial evidence concerning the prevention of waste and protection of correlative rights;

b. makes no findings as to the amount of recoverable gas or oil in the pools sought to be drilled;

c. makes no findings as to the amount of recoverable gas or oil in any pool;

d. makes no findings as to the risk or existence of economic waste involved in the application of Harvey E. Yates Company or the plan proposed by Viking Petroleum, Inc.; and

e. makes no findings as to the unnecessary expense to Viking Petroleum, Inc. to recover its fair share of oil or gas, or both, or has its correlative rights are protected.

1 3. The two hundred percent charge for risk involved
2 in the drilling of the well which is the subject of the
3 Commission's Order is neither just nor fair in light of the
4 unnecessary expense involved in the drilling of the subjct well
5 and does not allow nonconsenting working interest owners an
6 opportunity to recover their just share of oil and gas.

7 4. Viking Petroleum, Inc., has newly discovered
8 evidence which is relevant to Case No. 7390 and should be
9 considered in its entirety prior any Order of the Commission;
10 see the affidavit attached hereto and incorporated herein as
11 Exhibit "A".

12 WHEREFORE, the Viking Petroleum, Inc., requests the
13 Commission set this matter for rehearing at an early date, give
14 notice as required by law and after rehearing enter its Order
15 granting the relief it requested in the original hearing as
16 reflected in the transcript of that proceeding, eliminate the
17 two hundred percent charge for risk and grant such further
18 relief as appears just and proper.

19
20 VIKING PETROLEUM, INC.

21 JONES, GALLEGOS, SNEAD & WERTHEIM, P.A.
22 Attorneys for Applicant

23 By

Francis J. Mathew
FRANCIS J. MATHEW
Post Office Box 2228
Santa Fe, New Mexico 87501
(505) 982-2691

24
25 CERTIFICATE OF MAILING

26
27 It is hereby certified that on the 27th day of
28 January, 1982, a true copy of the foregoing Application for
29 Rehearing was mailed to opposing counsel or record, Robert
30 Strand, Esq., Post Office Box 1933, Roswell, New Mexico 88201
31 and Thomas Hall, Esq., Post Office Box 1933, Roswell, New
32 Mexico 88201, by first-class mail, postage prepaid.

Francis J. Mathew
FRANCIS J. MATHEW

State of Colorado)
)
City and County of Denver)

Jack J. Grynberg, having been first duly sworn, deposes
and states:

1. A new well (the "Well") has been drilled and pipe
set on Sunday, January 17, 1982, in the 990' FNL and 1980'
FWL of Section 19, T9S - R27E, Chaves County, New Mexico.

2. The Well, which was drilled to a depth of 5200
feet, encountered productive Abo sand from the depth of 4898
feet until 4910 feet.

3. Because of the circumstances described in paragraphs
"1" and "2", supra, I obtained additional geological infor-
mation concerning the areas contiguous to the Well. Based
upon this new information, it is my best business judgment
that a new well to test the Abo formation only should be
drilled in the Western half of Section 18, T9S- R27E, Chaves
County, New Mexico.



Jack J. Grynberg

Sworn to before me this
____ day of January, 1982.

Notary Public

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D).

Table 1. *Salmonella* serotypes and their percentages in the studied samples

10/8
RLC

While Grynberg told us what he wanted (participation to the Abo) he submitted insufficient evidence ~~to permit proper issuance of a~~ upon which to write a split risk order.

Nothing on relative costs.
Nothing on how to ~~deal with~~ determine which costs to the Abo would be applicable to the lower zone (larger casing, additional cement, logging)

Granting Grynberg's request could conceivably damage his correlative rights.

Yates could complete a deep zone and produce to depletion before plugging back to Abo. This would increase the cost of Abo recovery to Grynberg.

Grynberg's position does not seem to be that he ~~should~~ should only participate to the Abo as a right but because the Abo is a better prospect. The evidence does not seem to support this position to any great degree.

pretty
poor

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RLS

The question is not whether to drill a San Andres Well, Abo Well or Ordovician well but ~~whether~~ to drill a 6350 foot well and attempt to complete the same commercially in one or more zones. ~~That is~~

Your right, this is not a great transcript. Also the findings in the order do not deal with the primary questions of split risk or split pooling. Nothing is said about the geologic or engineering evidence presented.

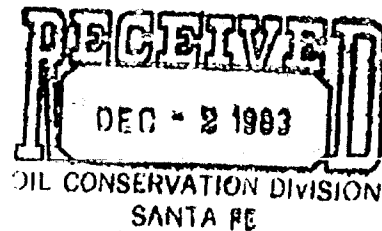
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JONES, GALLEGOS, SNEAD & WERTHEIM

7390

November 30, 1983

W. Perry Pearce
General Counsel
State of New Mexico
Energy & Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501



RE: Viking Petroleum, Inc., v. Oil Conservation
Commission and Harvey E. Yates Company;
Chaves County Cause No. CV-82-77

Dear Perry:

This will confirm our telephone conversation of November 29, 1983 concerning the written objections of Viking Petroleum and Jack Grynberg to the costs submitted by HEYCO regarding the Seymour State Well. You have advised me that our motion is of record and will be set for hearing upon request. I anticipate that I will have all documentary evidence on hand analyzed within the next few weeks.

If it is determined that our objections will be pressed upon analysis of that material, I will promptly request a hearing.

Very truly yours,

JONES, GALLEGOS, SNEAD & WERTHEIM, P. A.

By

ARTURO L. JARAMILLO

ALJ:y1f

cc: Joe Hall, Esq.
Jack Grynberg

O RUSSELL JONES (1912-1978)

JE GALLEGOS	JUDITH C. HERRERA
JAMES E. SNEAD	KATHLEEN A. HEMPELMAN
JERRY WERTHEIM	CHARLES A. PURDY
M. J. RODRIGUEZ	MARTHA VAZQUEZ
JOHN WENTWORTH	LELAND ARES
STEVEN L. TUCKER	ASENATH M. KEPLER
ARTURO L. JARAMILLO	MICHAEL BAIRD
PETER V. CULBERT	J. SCOTT HANCOCK
JAMES G. WHITLEY III	NANCY R. LONG
FRANCIS J. MATHEW	
ROBERT W. ALLEN	

ATTORNEYS AT LAW

JONES, GALLEGOS, SNEAD & WERTHEIM

November 30, 1983

Thomas J. Hall, III, Esq.
Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88201

BEST AVAILABLE COPY

RE: Viking Petroleum, Inc., v. Oil Conservation
Commission and Harvey E. Yates Company;
Chaves County Cause No. CV-82-77

Dear Joe:

In accordance with our telephone conversation of November 28, 1983 on behalf of Jack Grynberg I am requesting return of the \$90,000 with interest which was the subject of the District Court Order in the above-referenced case. I would appreciate that a check with all accrued interest be drawn to the account of Jones, Gallegos, Snead & Wertheim, P.A. Secondly, I have contacted Perry Pearce to determine the status of our written objections to the costs of the Seymour State well. Perry has advised me that our written objections are on file and will be set for hearing upon request.

I am conferring with Mr. Grynberg concerning the cost related documentation that we have available from your files. In the event we find that we have not yet obtained all necessary information, I will be in touch with you to determine whether or not we can agree on the production of additional information by your client.

I hope to have this matter ready for hearing in the next few weeks if a hearing is determined to be necessary. If you have any questions regarding either of these matters, please let me know.

Very truly yours,

JONES, GALLEGOS, SNEAD & WERTHEIM, P. A.

By

ARTURO L. JARAMILLO

ALJ:ylf

cc: Jack Grynberg,
Perry Pearce, Esq.

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JOE GALLEGOS	JUDITH C. WERTHEIM
JAMES E. SNEAD	KATHLEEN A. MEMPELSON
JERRY WERTHEIM	CHARLES A. FURDY
M. J. RODRIGUEZ	MARTHA L. DUFFY
JOHN WENTWORTH	LOU ANDERSON
STEVEN L. TUCKER	ASIM K. M. KETTER
ARTURO L. JARAMILLO	MICHAEL B. BORDO
PETER J. CLEGG	SCOTT HANCOCK
JAMES G. WHELAN	NANCY K. LONG
FRANCIS J. MATHEW	
ROBERT W. AUSEN	

ATTORNEYS AT LAW

1
2 STATE OF NEW MEXICO
3 ENERGY AND MINERALS DEPARTMENT
4 OIL CONSERVATION DIVISION
5 STATE LAND OFFICE BLDG.
6 SANTA FE, NEW MEXICO
7 22 December 1961

8 COMMISSION HEARING

9 IN THE MATTER OF:

10 Application of Harvey E. Yates Company CASE
11 for compulsory pooling, Chaves County, 7390
12 New Mexico.

13 BEFORE: Mr. Ramey
14 Mr. Arnold

15 TRANSCRIPT OF HEARING

16
17 A P P E A R A N C E S

18
19 For the Oil Conservation
20 Division:

W. Perry Pearce, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

21
22 For the Applicant:
23
24
25

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MR. RAMEY: The hearing will come to
order.

3

4

We'll call first this morning Case Num-
ber 7390.

5

6

MR. PEARCE: Application of Harvey E.
Yates Company for compulsory pooling, Chaves County, New
Mexico.

8

9

MR. RAMEY: This case was heard first
on November 24th and was readvertised due to an error in the
formation, I believe. I think the previous ad read Pennsyl-
vanian and it should have read Orddivision.

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Is there anyone here that wishes to
testify or add anything to this case?

15

16

If not, the Commission will take the
case under advisement.

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(Hearing concluded.)

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C E R T I F I C A T E

BEST AVAILABLE COPY

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that
the foregoing Transcript of Hearing before the Oil Conserva-
tion Division was ~~reported by me~~; that the said transcript
is a full, true, and correct record of the hearing, prepared
by me to the best of my ability.

Sally W. Boyd CSR

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARING

SANTA FE

, NEW MEXICO BEST AVAILABLE COPY

Hearing Date NOVEMBER 24, 1981 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
Joe Hall	HEYCO	Roswell
Bob Huber	Byram	Santa Fe
Bob Strant	HEYCO	Roswell
STEVE GROSS	HEYCO	ROSWEII
Morris Ettinger	Grynberg & Assoc.	Denver
ARTURO JARAMILLO	Grynberg & Assoc - UKing Pet	Santa Fe
Ed Hall	State Land Office	ST

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
24 November 1981

COMMISSION HEARING

IN THE MATTER OF:

Application of Harvey E. Yates Com-
pany for compulsory pooling, Chaves
County, New Mexico.

CASE
7390

and

Application of Viking Petroleum, Inc.,
for compulsory pooling, Chaves County,
New Mexico.

CASE
7409

BEFORE:

Commissioner Ramey
Commissioner Arnold

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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Division:

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Santa Fe, New Mexico 87501

For the Applicant:
Harvey E. Yates Company:

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Roswell, New Mexico

A P P E A R A N C E S

For Viking Petroleum, Inc.: Arthur Jaramillo, Esq.
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MORRIS L. ETTINGER

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2 MR. RAMEY: We'll call next Case 7390.

3 MR. PEARCE: Application of Harvey E.
4 Yates Company for compulsory pooling, Chaves County, New
5 Mexico.

6 MR. RAMEY: I wonder if we shouldn't
7 call Case 7409.

8 MR. PEARCE: That's application of
9 Viking Petroleum, Incorporated, for compulsory pooling,
10 Chaves County, New Mexico.

11 MR. RAMEY: It will, I think, probably
12 be best to consolidate these cases unless counsel have ob-
13 jections to this.

14 MR. JARAMILLO: We have no objection.

15 MR. STRAND: Yes, that's fine.

16 MR. RAMEY: Okay, we'll write two orders
17 for them but we will consolidate the cases for purposes of
18 taking testimony.

19 Ask for appearances in these two cases.

20 MR. STRAND: Mr. Examiner, Robert H.
21 Strand, attorney from Roswell, appearing for Harvey E. Yates
22 Company in Case Number 7390.

23 MR. RAMEY: How many witnesses do you
24 have, Mr. Strand?

25 MR. STRAND: Two witnesses, Mr. Chairman.

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2 MR. JARAMILLO: Mr. Examiner, Arthur
3 Jaramillo, Jones, Gallegos, Snead, and Wertheim, substituting
4 for J. E. Gallegos, and representing the applicant Viking
5 Petroleum Company in Case Number 7409.

6 And we have one witness.

7 MR. RAMEY: Would all of the witnesses
8 rise at this time, please?

9
10 (Witnesses sworn.)

11
12 MR. JARAMILLO: Mr. Examiner, it appears
13 as though if perhaps we could begin with some opening state-
14 ments, we might be able to narrow this scope of the proceedings
15 considerably, or at least I believe I might be able to do
16 that, as well, if I may begin.

17 MR. RAMEY: All right.

18 MR. JARAMILLO: Mr. Strand?

19 MR. STRAND: Certainly.

20 MR. JARAMILLO: Over the past three
21 weeks it's my understanding that there has been some discus-
22 sions between my client, Viking Petroleum, and the Yates
23 Petroleum Company with respect to trying to work out some
24 kind of an agreement that would be compatible to both parties.

25 As I understand the wishes of my client.

1
2 at the present time, we wish to withdraw our application for
3 unitization of the north one-half of Section 18, and we are
4 willing to accede to the unitization of the west half of Sec-
5 tion 18 with the following restrictions, which I believe are
6 the crux of the dispute between the Commission today -- before
7 the Commission today.

8 Viking Petroleum Company is willing to
9 participate in the unitization fully and completely in the
10 test well down through and including the Abo formation.

11 Now, it's our position, and the evidence
12 that we'll present today will indicate that the present pro-
13 duction history in -- with respect to wells in the vicinity
14 of the test well in the proposed unit will indicate that
15 there's not sufficient evidence at the present time to justi-
16 fy a test well deeper than the Abo formation. I believe the
17 application is through the Mississippian.

18 We believe that that presents an unreason-
19 able and unjustifiable risk to the correlative rights of
20 Viking to drill deeper than the Abo formation, and our first
21 position then would be that we feel that the west one-half
22 could and should be unitized but the test well should be
23 limited to the Abo formation.

24 Alternatively, if the Commission does
25 grant the unitization of the west one-half down through and

1 including the Mississippian as applied for by Yates, our
2 position would be that we are ready, willing, and able to
3 participate fully in the costs as correlative right owner, in
4 all costs down through and including completion of the Abo
5 formation.
6

7 Our position is that if the unitization
8 is granted as applied for, that there should be a dual com-
9 pletion of the wells, one at the Abo formation and the second
10 at the Mississippian.

11 Our position with respect to the cost
12 differential between completion of the Abo and completion of
13 the Mississippian would be that those costs should be borne
14 by the applicant, Yates, and they should be entitled to re-
15 cover their costs but the Commission should not allow the
16 risk factor charge provided for in the statute that the Com-
17 mission at its discretion may impose, first of all, because
18 that additional cost, we believe, is not justifiable from
19 the production history of the wells in the vicinity; it pre-
20 sents an unreasonable economic risk to a correlative right
21 owner; and our position, therefor, is that if ^{7/1/50} Viking is intent
22 on drilling to these deeper formations, the Mississippian
23 formation, it should bear the risk of that. It should indeed
24 recover its cost for the difference between the Abo and the
25 Mississippian, but no more than that in light of what we be-

1
2 believe the evidence will show is unjustifiable risk in that
3 further exploration.

4 I think with that, my feeling is that
5 the dispute here is simply whether there is sufficient evi-
6 dence to justify unitization below the Abo formation, and I
7 think that's primarily the matter before this Commission.

8 MR. RAMEY: Mr. Strand.

9 MR. STRAND: Mr. Examiner, I would con-
10 cur with Mr. Jaramillo's statements as to the situation down
11 through the Abo and the agreements to date, and all of this
12 has been oral discussions, there have been ^{no} written agree-
13 ments as such on it; however, I think the fact remains that
14 there is no agreement as to those depths below the base of the
15 Abo.

16 I don't think there's any question under
17 the statute whether or not Harvey E. Yates Company as appli-
18 cant would be entitled to an order of compulsory pooling in
19 such a situation where agreement can't be reached as to those
20 particular mineral interests below the Abo formation.

21 In my experience before the Division and
22 the Commission, I haven't run into a compulsory pooling order
23 entered that's framed in the manner requested by Mr. Jaramillo,
24 that a particular interest owner be allowed to participate
25 down to a certain depth and then the forced pooling order take

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effect below that. There may have been some but I haven't seen them.

I think we would like to proceed at this point because of the fact that we have no written agreements of any kind with our application as stated from the surface through the Mississippian for compulsory pooling of the west half of the section.

As to whether or not Viking wishes to participate in the well, of course, under the normal compulsory pooling order entered, they would have that option anyhow, within thirty days to participate by advancing costs.

But I would oppose any order that would allow them to participate to a certain point and then not participate. Either they participate or they don't; one or the other.

That is our position.

MR. RAMEY: Okay, thank you, Mr. Strand. I think we're back to the start, where we'll hear both cases.

MR. JARAMILLO: All right. Just to frame this issue, I understand Mr. Strand's position that there hasn't been a case, nor to my knowledge has there been a case similar to this. Our position is that the statute is broad enough, though, to allow this Commission to enter such an order allowing the allocation of costs as I've described

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2 to the Commission, and also, I'll save that for closing in
3 referring to the statutes I had reference to.

4 MR. NUTTER: Now, Mr. Jaramillo, let me
5 get this straight.

6 is your client proposing -- well, first
7 of all, you're proposing to dismiss your case, I presume?

8 MR. JARAMILLO: We're proposing to dis-
9 miss our application, yes, sir.

10 MR. NUTTER: All right. Then you'd leave
11 the Yates case stand but you would wish to participate on a
12 voluntary basis to the Abo, is that it?

13 MR. JARAMILLO: Well, I think we have
14 two positions in that regard.

15 We will resist the Yates case, first of
16 all, insofar as it seeks to drill a test well beyond the base
17 of the Abo formation. To the extent the application seeks
18 more than that, we resist it.

19 Alternatively, if this Commission should
20 decide that it will grant the application as applied for, our
21 position is that we would participate fully in the costs of
22 that test well through and including the Abo formation.

23 MR. NUTTER: Okay, what you'd want then
24 would be an estimate of costs through the Abo.

25 MR. JARAMILLO: That's correct.

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MR. NUTTER: And an estimate of costs from the Abo to the base of the Penn, or the base of the Mississippi, whatever it is.

MR. JARAMILLO: That is correct.

MR. NUTTER: And then you would make your election, which all of these pooling orders provide. They provide an election that you could pay your costs in advance, and you would advance your share of the costs to the Abo based on that original estimate.

MR. JARAMILLO: That's correct.

MR. NUTTER: But you would resist paying any penalty, being carried from the base of the Abo to the Mississippian?

MR. JARAMILLO: That's correct. Our interpretation of the statute is that this Commission has the authority for allowing the recovery of the difference in that cost to Yates, and in addition to that in its discretion the, what I would call a penalty or addition to that cost up to 200 percent of that difference.

MR. NUTTER: The risk factor.

MR. JARAMILLO: The risk factor.

Our position is that the evidence that we have to present will show that that risk factor is so extreme at this point that there should not be a penalty or risk

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2 factor charge imposed.

3 In other words, if the well does go
4 through the Mississippian on the basis of what the Commission
5 hears today, then we will pay our share of the cost down
6 through the Abo; Yates will pay its share of the cost down
7 through the Abo, as well as the cost from the Abo to the
8 Mississippian. We hope that to be a dual completion well,
9 which I understand this Commission needs to authorize.

10 From the first production from the Miss-
11 issippian, if there is any, Yates would recover all of the
12 difference in the cost from the Abo to the Mississippian from
13 the first production. We will get none.

14 When that recovery of the cost is made,
15 however, we believe that should be the extent of the relief
16 allowed to Yates in this proceeding, and then we would have
17 our share of the production paid to us from the remainder.

18 There should be no charge for a risk
19 factor, and again, on the evidence that we'll present today,
20 that it's an unreasonable risk to drill that deep on the
21 information that is available to us today.

22 MR. STRAND: Mr. Examiner, if I might
23 add a couple of comments.

24 First of all, we propose to drill the
25 well, the actual location of the well, on a lease that is

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2 owned by Harvey E. Yates Company and several other people
3 that have agreed to the drilling of the well. We have the
4 right to drill that well to any depth we want; to any formation;
5 clear to China, if we want; and if there is no agreement as to
6 the drilling of that well from other interest owners, we are
7 entitled to the compulsory pooling order under the statute.
8 That's my interpretation of it.

9 Likewise, we will request the full 200
10 percent risk penalty, and we will present some testimony on
11 that as we go along.

12 MR. PEARCE: Excuse me, gentlemen, if I
13 may, Mr. Chairman.

14 From a procedural standpoint, particularly
15 Mr. Jaramillo, is Case 7409 still alive?

16 MR. JARAMILLO: I'm authorized to with-
17 draw the application in Case 7409 and have that case dismissed.

18 MR. PEARCE: Okay, and so if that is
19 done, then you will simply be here as an opponent to --

20 MR. JARAMILLO: That's our procedural
21 posture at this point.

22 MR. PEARCE: All right.

23 MR. JARAMILLO: Yes, sir.

24 MR. NUTTER: As an opponent to a risk
25 factor from the base of the Abo to the Mississippian, really.

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2 MR. JARAMILLO: Yes. And I think insofar
3 as we resist the application to the Mississippian in the first
4 place. They're related but I think they are two distinctly
5 different issues.

6 MR. RAMEY: Okay, we will dismiss, then,
7 Case 7409 and proceed with Case 7390.

8
9 THOMAS J. HALL III
10 being called as a witness and being duly sworn upon his oath,
11 testified as follows, to-wit:

12
13 DIRECT EXAMINATION

14 BY MR. STRAND:

15 Q Please state your full name for the re-
16 cord.

17 A Thomas J. Hall III.

18 Q Mr. Hall, where do you reside and what
19 is your occupation?

20 A Roswell, New Mexico. I'm an attorney
21 for Harvey E. Yates Company.

22 Q Mr. Hall, are you employed by Harvey E.
23 Yates Company on a fulltime basis?

24 A Yes, I am.

25 Q In that capacity?

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1 A. That's correct.

2 Q. Would you please state the purpose of
3 the application in Case Number 7390?
4

5 A. The application of Harvey E. Yates Com-
6 pany is for compulsory pooling in Chaves County, New Mexico.
7 We seek an order pooling all mineral interests down through
8 the Mississippian formation underlying the west half of Sec-
9 tion 18, Township 9 South, Range 27 East, to be dedicated to
10 a well drilled at a standard location thereon.

11 Also to be considered will be the cost
12 of drilling and completing said well and the allocation of
13 the costs thereof, as well as actual operating costs and
14 charges for supervision, designation of applicant as operator
15 of the well, and a charge for risk involved in drilling said
16 well.

17 Q. Mr. Hall, I refer you to what we have
18 marked as Exhibit Number One. Would you please describe that
19 exhibit and its contents?

20 A. Yes, sir. Exhibit Number One is a land
21 plat of the -- that contains Section 18 of Township 9 South,
22 Range 27 East, and marked thereon is a -- is a rectangle in-
23 dicated the west half of that section.

24 Q. Mr. Hall, the proposed location of the
25 well is not marked on that plat. Where is it located?

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A. No, sir, it is not. It is 1980 from the north line and 660 from the west line of Section 18, and that would be in the southwest of the northwest of that Section 18.

Q. Mr. Hall, will you state for the record what the ownership of the mineral interest under the west half of that section is?

A. All right, sir. There will be 240 acres of that west half of Section 18 is under State lease L-6775, which is presently owned by Harvey E. Yates Company, and various partners of Harvey E. Yates Company.

The 80 acres in the east half of the northwest quarter is State lease L-6907, which the -- the record title owner is Celeste Grynberg.

Q. Mr. Hall, and the ownership, the mineral ownership under the lands is the State of New Mexico, is that correct?

A. That's correct.

Q. Mr. Hall, would you state somewhat briefly the negotiations, or the tenor of the negotiations, that Harvey E. Yates Company has had with Celeste Grynberg, Jack Grynberg, Viking, or whoever is involved in this thing?

A. Well, sir, they've been -- we have been in negotiations with the -- Mr. Grynberg and Viking Petroleum. Primarily Mr. Grynberg is the -- tells me he is acting as

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2 agent for Viking Petroleum, so our dealings have been primar-
3 ily with Mr. Grynberg.

4 We originally proposed a west half loca-
5 tion, a west half proration unit in Section 18, which Mr.
6 Grynberg did not agree to. He wanted a north half. We
7 couldn't reach any agreement on that, which precipitated a
8 filing of these two cases.

9 Since that time we have moved to a point
10 where we had agreed to put together a working interest unit
11 under the whole of Section 18, and Mr. Grynberg eventually
12 came around and told us that he would agree to a west half
13 drilling, and then in the past four or five days we got down
14 to the serious negotiation which Mr. Jaramillo has alluded to
15 that the Viking-Grynberg interest is that they will agree to
16 go to the Abo formation but they will not go deeper than
17 that, and we were not able to reach any sort of a compromise
18 or an agreement below the Abo formation.

19 Q Mr. Hall, has there been an agreement,
20 oral or otherwise, as to drilling to the Abo formation?

21 A There has not been an agreement that we
22 will drill just to the Abo formation. We have not been able
23 to reach an agreement --

24 Q So as it stands at this point --

25 A -- on that.

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Q. -- there is no agreement as to drilling this proposed test well to the Abo or to the Mississippian in any event?

A. No, not any, a concrete agreement, no, sir.

Q. Are there any lease expiration dates that become relevant?

A. Yes, sir, there are. Harvey E. Yates Company's lease expires December 1st of this year. I'm not exactly certain when the Grynberg lease expires. I understand it's sometime in February.

MR. RAMEY: Excuse me, Mr. Hall, you have to have a well started by December 1?

A. That's correct. That's correct.

Q. Mr. Hall, I refer you to Exhibit Number Two. Would you please describe that exhibit briefly?

A. Yes, sir. This is an operating agreement covering Section 18 of Township 9 South, Range 27 East. It is the latest revision of this that -- it covers the whole section. The first one we put together just covered the west half. This one covers the whole Section 18 and it would propose drilling a west half location to the Mississippian formation. Or to a depth of 6350.

Q. Mr. Hall, which of the working interest

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2 owners that you've mentioned before have executed that agree-
3 ment to date?

4 A. Mr. Seymour Smith and his -- and his
5 brother have, David Smith, have -- have sent us back their
6 ratifications of this agreement.

7 Q Are the other interest owners under that
8 agreement, with the exception of Viking Petroleum, affiliated
9 companies with Harvey E. Yates Company?

10 A. Yes, sir, they are. They're all family
11 companies.

12 Q And to your knowledge have those com-
13 panies agreed verbally to participate under this form of oper-
14 ating agreement?

15 A. Yes, sir, we're confident that they will
16 go along with us on this.

17 Q Mr. Hall, I refer you back to the COPAS
18 form attached to the agreement, which I believe is Exhibit C.
19 Would you please state for the record the supervision rates
20 that are included there, both for drilling purposes and for
21 producing purposes?

22 A. All right, sir. The drilling well rate
23 is listed as \$3550. The producing well rate is \$355 per month.

24 Q Mr. Hall, I refer to you Exhibits Number
25 Three and Number Four. Will you please just briefly describe

1
2 those for the record?

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3 A. Yes, sir. Exhibit Number Three is a
4 communitization agreement on the State of New Mexico form
5 covering a communitization of the northwest quarter of Sec-
6 tion 18 for an -- excuse me, covering the Abo formation.

7 And Exhibit Number Four is a communiti-
8 zation agreement on Section 18 for the Mississippian forma-
9 tion, and it covers the west half of Section 18.

10 Q. Mr. Hall, have these particular communi-
11 tization agreements been submitted to Viking Petroleum for
12 their approval?

13 A. Yes, sir, they were. They were sent to
14 Mr. Grynberg, to Celeste Grynberg, since she is the lessee
15 of record.

16 Q. Mr. Hall, back to the drilling and pro-
17 ducing rates you just testified to previously, in your posi-
18 tion with Harvey E. Yates Company do you examine a substantial
19 number of operating agreements?

20 A. Yes, sir, I do.

21 Q. And do the majority of those operating
22 agreements involve wells and prospects to be drilled in
23 southeastern New Mexico?

24 A. Yes, sir, they do.

25 Q. Are you then familiar personally with

drilling rates, producing rates, in Southeast New Mexico, as reflected by these operating agreements?

A. Yes, sir, I am.

Q. Would you state that these particular rates you've testified to are comparable to the rates for like wells?

A. Yes, sir, I would say -- I would say they are.

Q. As found in those operating agreements?

A. Yes, sir.

Q. Mr. Hall, on behalf of the applicant, Harvey E. Yates Company, would you request that these particular drilling and producing rates be made a part of any order entered in this matter?

A. Yes, sir, I would.

Q. I refer you to Exhibit Number Five. Would you please describe that?

A. This is an AFE for the well that we propose to drill in the -- 660 from the west line and 1980 from the north line of Section 18, and it proposes going to a depth of 6350 feet.

Q. Would you state for the record the dry hole costs and the completed costs for that well?

A. The dry hole costs are estimated to

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be \$446,200 and the completion -- completed well costs are estimated to be \$643,175.

Q. Mr. Hall, who prepared that Authority for Expenditure?

A. It was prepared by a petroleum engineer in the employ of Harvey E. Yates Company, Mr. Pat Hardy.

Q. Mr. Hall, in the event an order is entered in this matter, would Harvey E. Yates Company request that it be designated as operator?

A. Yes, sir, we would.

Q. Were Exhibits One through Five prepared by you or under your supervision?

A. Yes, sir, they were.

Q. Or do they reflect materials, to your knowledge, that come from Harvey E. Yates Company files?

A. Yes, sir, they do.

MR. STRAND: That's all I have on direct.

MR. RAMEY: Any questions of Mr. Hall?

MR. JARAMILLO: Yes, Mr. Chairman. May I have a minute, sir?

MR. RAMEY: Sure.

MR. JARAMILLO: Thank you.

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CROSS EXAMINATION

BY MR. JARAMILLO:

Q Mr. Hall, I notice in comparing the original application that was filed with the Division with a letter that was sent to the Division dated October 8th, 1981, the difference that the initial application sought communitization of the Mississippian formation.

A That's correct.

Q The modification letter that I refer to has asked for to cover all formations from the surface through the Mississippian formation. What was the reason for this modification in the application by Yates?

A The original application was an oversight, a mistake on my part in filing the application. I was going to rectify that through that letter.

Q Well, what do you see as the difference between covering all formations as opposed to simply having unitization of the Mississippian formation?

A If we didn't -- we we found something in another formation other than the Mississippian, technically it wouldn't be communitized.

A All right, and when you filed the modification letter did Yates Company have some expectation of finding commercially producable quantities of hydrocarbons

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2 between the surface and the Mississippian formation?

3 A. Yes, sir, we did.

4 Q. Was there any particular zone or forma-
5 tion where you thought there would be producable quantities
6 of oil or gas?

7 A. I wouldn't be able to testify directly
8 because I'm not -- I don't have that expertise or that know-
9 ledge. I have been told that we have a good possibility in
10 the San Andres, in the Abo, and Mississippian.

11 A. All right, and was that part of the
12 reason, then, for modifying --

13 A. Yes, sir.

14 Q. -- the application?

15 A. Yes, sir, it was.

16 Q. Now, has the company in discussions with
17 respect to this application discussed the potential and the
18 prospective volumes that could be recovered from those forma-
19 tions you've just named?

20 A. I wouldn't be able to testify directly
21 whether they have or not. I have not been part of any --
22 any such discussions, no, sir.

23 Q. All right. And you don't know the posi-
24 tion of the company with respect to where they anticipate
25 commercially producable volumes of hydrocarbons to be located

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1 in these prospective zones?
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3 A. I don't think it would be my place to
4 make a supposition on that particular point.

5 A. All right. Well, my question was simply
6 whether or not you had any information of the company's posi-
7 tion on that.

8 A. Well, I don't feel that I would be a good
9 spokesman for what the company's position would be, because
10 I'm not directly involved with those matters.

11 MR. STRAND: Mr. Examiner, or Mr. Chair-
12 man, we'll have the opportunity to visit with Mr. Thompson
13 at some length about that shortly.

14 Q. Now, with respect to the negotiations
15 that have been carried on between Yates Petroleum and Jack
16 Grynberg as agent for Viking Petroleum Company, you indicated
17 that there has been no agreement to drill the test well just
18 to the Abo formation, I think you -- was the crux of what you
19 said?

20 A. Yes, sir. Yes, sir.

21 Q. All right. You do recognize, though,
22 that by virtue of the agreements -- by virtue of the discus-
23 sions and negotiations between Yates and Viking there is at
24 least no dispute as to Viking's participation through the
25 completion of the Abo formation in this test well?

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2 A. I would agree with that, yes, sir, there
3 is no dispute on that. But there's no agreement to stop at
4 the Abo or to just limit it to that. That was the basis of
5 my answer.

6 Q. As well as there not being any agreement
7 to --

8 A. To go on down.

9 Q. -- participate further than the Abo.

10 A. That's correct.

11 Q. Just to clear up something that I was
12 confused about, with respect to Exhibit Two, the operating
13 agreement.

14 A. Yes, sir.

15 Q. I believe I heard you say that that
16 covered all of Section 18, or was I mistaken about that?

17 A. You were correct. It covers all of Sec-
18 tion 18.

19 A. All right. Why does -- why does the
20 agreement encompass more than the proposed unit that's being
21 sought here?

22 A. Well, that was in the -- the carrying
23 on of the negotiations with Mr. Grynberg. He had indicated
24 that he would like to talk about putting together a -- he
25 said communitize the whole section. So we agreed that we

1
2 would try to put together an operating agreement covering the
3 whole section, and then we would drill -- we want to drill a
4 well in the west half; he wanted to drill one for the north
5 half spacing and he came around eventually to the west half,
6 but he was interested in having an interest in the whole sec-
7 tion, so we did that. This is the latest attempt at getting
8 our agreement together.

9 Q So that there's no confusion, however,
10 that agreement wouldn't comport with what is being applied
11 for, what this Commission is being asked to grant in your
12 case?

13 A No, sir, no, sir, it wouldn't.

14 Q The drilling and production rates that
15 you testified about are fairly standard in the industry for
16 that type of service, isn't that correct?

17 A I would say so, yes, sir.

18 Q In your discussions with Mr. Grynberg,
19 those of Yates and Company, has there ever been any discussion,
20 or has Yates ever prepared or had prepared an AFE form for
21 completion of the well through the Abo formation?

22 A No, we haven't. We haven't prepared
23 one through the Abo.

24 Q Had there been any discussions as to
25 what the approximate cost of completion through the Abo would

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be?

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A.

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We -- we -- I had discussions on -- following my conversations with Mr. Grynberg on Saturday, I talked with our production man and he made an estimate of what he thought it would cost to go to the Abo, based on this AFE.

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Q

Do you know what the approximate cost was?

A.

As I recall it was \$371,000.

Q

All right. Did -- first of all let me ask you if you know whether Yates and Company agreed that was a reasonable estimate for these costs?

A.

I would hate to say that it was -- that we would be bound to those right now. I think we'd like to go back and do some work on it. It was Saturday morning and we were trying to get some figures in case we were able to work it out with Jack and he did it very hurriedly, just looking at the AFE and looking at the prognosis of the depths we were -- we were going to.

MR. NUTTER: Mr. Hall, by referring to "Jack" do you mean Mr. Grynberg?

A.

Yes, sir, excuse me, Mr. Grynberg.

Q

Well, is it your view, your opinion, that the cost between \$371,000 and say \$400,000 would be in

1
2 the range of the probable cost?

3 A. I would say that \$371,000 is pretty
4 close.

5 Q. Okay. With respect to the expiration
6 date of this lease, is it that you must start drilling by
7 December 1st?

8 A. Yes, sir.

9 Q. Or in six days?

10 A. Yes, well, we will have to be drilling
11 on December 1st. The lease expires on November the 30th.

12 Q. All right, and your company is prepared
13 to meet that deadline should an order be granted in one form
14 or another by the Commission?

15 A. Yes, sir, we are.

16 Q. All right. Now, the individuals that
17 you testified that were part of the family business with
18 Yates that signed the operating agreement, how many indivi-
19 duals actually signed that?

20 A. Well, excuse me, I said that the family
21 individuals have not signed it yet, because this was in such
22 a state of flux. We haven't presented it to the actual
23 family members.

24 I have been, the only non-family partner
25 to this is Mr. Seymour Smith and his brother David in Chicago,

1
2 and I have been dealing with Seymour Smith, and he has signed
3 a -- signed the operating agreement. Really he signed one
4 that just had the west half and we have sent him the replace-
5 ment pages that include these changes and he has agreed to
6 let his signature stand for those, too.

7 Q All right, and if only the west half is
8 unitized, which is your application, you'd have to have that
9 modified one more time for an operating agreement to conform.

10 A Just to conform to the west half, yes,
11 sir.

12 Q All right, so what you're telling us is
13 that while you don't anticipate any difficulty in the Yates
14 family members signing your agreement, there has as yet been
15 no signature on that.

16 A That's correct.

17 MR. JARAMILLO: I have no further ques-
18 tions.

19 MR. RAMEY: Any other questions of Mr.
20 Hall? He may be excused.

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BEST AVAILABLE COPY
RODNEY O. THOMPSON

being called as a witness and being duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. STRAND:

Q State your full name for the record.

A Rodney O. Thompson.

Q Mr. Thompson, where do you reside and by whom are you employed?

A Midland, Texas, and I'm employed by Harvey E. Yates Company.

Q And in what capacity are you employed?

A I'm a geologist, exploration geologist.

Q Mr. Thompson, have you testified before the Oil Conservation Division in the past and are your qualifications as an expert witness a matter of record?

A Yes, sir, I have, and yes, they -- they are.

MR. STRAND: Mr. Examiner, I would tender Mr. Thompson as a qualified expert geologist.

MR. RAMEY: He is so qualified, Mr. Strand.

Q Mr. Thompson, are you familiar with the

1 application in Case 7390 that Mr. Hall has testified to?

2 A. Yes, I am.

3 Q. And in your capacity as an exploration
4 geologist for Harvey E. Yates Company have you had occasion
5 to study this particular area as to its potential for oil and
6 gas production?
7

8 A. Yes, I have.

9 Q. And as a part of that process have you
10 prepared several exhibits, geological exhibits, that you wish
11 to present here today?

12 A. Yes, I have.

13 Q. I refer you to what we've designated as
14 Exhibit Number Six. Would you please describe that in some
15 detail and its relevance to this application?

16 A. Yes. Exhibit Number Six is a structure
17 map contoured on the top of the pre-Mississippian dolomite.
18 The contour interval is 50 feet and this map shows that re-
19 gional dip in this area is to the east. The map also shows
20 a reversal in regional dip between the Yates Petroleum Smith
21 "JR" State No. 1 in Section 14 of Township 9 South, Range 26
22 East, and the Fred Poole Eastland State No. 1 in Section 13
23 of Township 9 South, Range 26 East, and between the Plains
24 Radio Broadcasting Company Callam (sic) No. 1 in Section 7 of
25 Township 9 South, Range 27 East.

1
2 In other words, a reversal in dip at the
3 pre-Mississippian dolomite between the well in Section 14 and
4 the well in Section 13 of 9, 26, and the one in Section 7 of
5 9, 27.

6 Now we believe that structural closure
7 is evident at the pre-Mississippian dolomite horizon under
8 our proposed location due to the reversal in regional dip, as
9 well as the fact that the Eastland State No. 1 was completed
10 as a gas well from the pre-Mississippian dolomite interval.

11 We expect to be structurally flat or
12 possibly even high to the Eastland State No. 1 at the pre-
13 Mississippian dolomite level.

14 Now this prospect occurs in an established
15 oil producing trend where pre-Mississippian dolomites are
16 productive over small structures similar to the one that we
17 have interpreted under our prospect. These one to four well
18 fields include the Haystack, the Light Cap, the Twin Lakes,
19 the Racetrack, the Chisum, and the White Ranch, for example,
20 and these wells average around 100,000 barrels of oil per
21 well and some wells have produced over 500,000 barrels of
22 oil.

23 Enserch has also made some recent pre-
24 Mississippian dolomite completions in the southeast of Elkins
25 for over 200 barrels of oil per day.

So we think we're in a good trend for pre-Mississippian dolomite production in that we have good reason through subsurface geology to believe we do have closure at the pre-Mississippian dolomite under our proposed location.

Q. Mr. Thompson, I refer you to Exhibit Number Seven. Would you please describe that and then we can go back and discuss the two of them together.

A. Okay. Exhibit Number Seven is a west/east structural cross section running through the prospect area. The subsea datum used was a -2000 feet.

The cross section shows the development of the pre-Mississippian dolomite, the basal Penn sands, and the Abo sands in this area. Evidence of a structural high at the pre-Mississippian dolomite is shown on the cross section in the Eastland well, where the Mississippian limestone has been eroded away completely. The Eastland well has basal Penn sandstone sitting on pre-Mississippian dolomite and there is no Mississippian limestone in this well, so in other words, there was a -- we interpret a structural high to have been present at the pre-Penn time under the location of the Eastland State Well, as evidenced by the Mississippian lime being eroded away and evidence of that well producing from the pre-Mississippian dolomite, we anticipate structural closure as being some type of trap there.

The Eastland State No. 1 was completed in the pre-Mississippian dolomite for 631,800 cubic feet of gas per day with bottom hole pressures of 2364 pounds.

The Campbell No. 1 on the cross section and the Conkey No. 1 on the cross section here, Phillips State No. 1, and Kitchens No. 1, all on the cross section, all had shows of oil and gas in the pre-Mississippian dolomite.

The Campbell No. 1 on the cross section was completed in the basal Penn sands for a calculated absolute open flow of 4,187,000 cubic feet of gas per day with bottom hole pressures of 2365 pounds.

Now, off of the cross section Fred Poole recently completed the Byron State No. 1 in Section 1 of Township 9 South, Range 26 East. You can see it on the little legend on the right on the cross section, the well in Section 1. This well was completed from the basal Penn sands for a calculated absolute open flow of 4,144,000 cubic feet of gas per day with bottom hole pressures of 2379 pounds.

The Eastland State No. 1 in Section 13 also appears to have commercially productive basal Penn sands that have not been tested and are still behind pipe because they're completed out of the pre-Mississippian dolomite.

Several wells west of our prospect here have made completions in the Abo Sands. The Eastland State

No. 1 had several gas shows while drilling through the Abo Sands. One break and show was in the McConkey sands in the central part of the -- or the middle part of the Abo. You can see around 4900 feet in the Eastland State No. 1 Well on the cross section is what we interpret to be the McConkey sand.

Now, the Elk Oil Company Runyan State No. 1 is located in Section 24 of Township 9 South, Range 26 East. In this well casing was set for the purpose of making a completion in the Abo Sands but the last I heard this well was waiting on a completion unit.

The Abo Sands, however, appear to be noncommercial in the Campbell No. 1 in Section 7, as well as the Byron State No. 1 in Section 1 of Township 9 South, Range 26 East. Small oil shows in the San Andres carbonates have been reported from several wells in the prospect area. The Eastland State No. 1 reported having oil in the pits along with a drilling break while drilling through the San Andres.

So in summary, then, we feel that a well drilled at our proposed location will encounter commercial reserves from both the pre-Mississippian dolomite and the basal Penn sands.

We also have secondary potential reserves from the Abo sandstones and the San Andres carbonates.

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2 Q Mr. Thompson, could you discuss in a
3 little bit more detail the potential for production from the
4 various zones that Mr. Hall had testified to under questioning
5 from Mr. Jaramillo?

6 A Yes.

7 Q Particularly the San Andres and also
8 some discussion of production from the Mississippian zone?

9 A Uh-huh. Okay, well, Mr. Strand, I be-
10 lieve that our main objective zones will be -- there's a big
11 debate as to what the dolomite is. I call it pre-Mississippian
12 dolomite. It's been labeled in the production books as
13 Fusselman and Montoya in different areas, and just exactly
14 what formation it is is a controversial matter. So I've
15 labeled it as pre-Mississippian dolomite here.

16 Now, the Mississippian formation itself
17 I feel is not an objective zone. It's -- it has not had
18 production in the area and I think the pre-Mississippian
19 dolomite is our major objective here.

20 And the Pennsylvanian sandstones are
21 another major objective and they are developed very well in
22 the -- in recent wells that have been drilled, in the East-
23 land State, the Campbell No. 1, and the Byron State No. 1,
24 and we feel that with our -- we've had lots of experience
25 in this area drilling these basal Pennsylvanian sands, and

1
2 as far as completion techniques and types of drilling fluids
3 to use while drilling through these sands. They are very
4 susceptible to formation damage and they have to be treated
5 with great care. We've had analogous sands developed over
6 around the Tatum area where some other companies have been
7 unsuccessful in making completions, but with the proper tech-
8 niques used, we've been fairly successful at making commer-
9 cial wells.

10 I'm talking about type of drilling fluids
11 used with low water loss type of drilling muds, using a
12 polyhydroxaluminum in the drilling mud to prevent clay migra-
13 tion in your kaolinite clays, which are very common in these
14 basal Penn sands and are very easy to -- to be damaged by
15 drilling muds and completion techniques.

16 In addition we've used recently what's
17 called DV tools and this isolates the Penn Sands, and we've
18 also used it in Mississippian carbonates with good success.
19 And what it does is channels the cement, which also is a
20 low water loss cement of what the standard that's been used
21 in the industry lately.

22 This DV tool channels cement around the
23 formation and keeps a high hydrostatic head of cement off
24 these sandstones.

25 We've found that drill stem tests have

1
2 shown good pressures and have tapered out after cementing the
3 well, and we think that formation damage in the mud system
4 completion fluids and cement have all combined to -- to be
5 a major factor in damaging these formations.

6 Q Mr. Thompson, is it your opinion that
7 there's at least reasonable expectation of obtaining commer-
8 cial production from each of these zones which you've discussed?

9 A Yes, with what we've interpreted, commer-
10 cial production from the both the basal Penn sands as well as
11 the pre-Mississippian dolomites.

12 Q Now, as to those two particular zones,
13 also the San Andres, also the Abo, would you please state
14 for the record what you would anticipate, natural gas pro-
15 duction or primarily oil production from each of those zones?

16 A I would anticipate natural gas production
17 from each of these zones -- or excuse me, the San Andres --
18 I'll start from the top. We'll go from younger down.

19 San Andres I would anticipate oil pro-
20 duction. Many of these wells that have been drilled in the
21 area, particularly to the west, have had oil shows through
22 the San Andres, and the operators that I've talked to have
23 felt that with the pressures in the area, the permeability
24 in the carbonates in this area, that these are -- we're
25 talking about 3 to 5 barrel a day San Andres oil wells.

1
2 The Abo Sands are a little of a higher
3 risk in the particular -- in the localized area we're at.
4 The sands that are present that have had shows, even in the
5 Eastland Well, have looked to be rather shaley. Now sometimes
6 this shale effect can be just radioactive material in the
7 sands, making them look shaley, but if you look at the good
8 sands in the main Abo trend and all the way in Township 4
9 South, Range 25 and 26 East, down to Township 7 South, Range
10 25 and 26 East, these sands look real clean in the gamma rays
11 and they have good gas crossover in the neutron logs.

12 So I feel that at the Abo location due
13 to the development of the Abo Sands in the well in Section 1
14 of Township 9, 26, Range 26, and the Campbell Well in Section
15 7 of Township 9 South, Range 27 East, that a west half loca-
16 tion for primarily the Abo, speaking only of the Abo, would
17 be a lower risk location than a north half, due to its better
18 development of the Abo Sands in the Eastman Well in Section
19 13, and in the Elk Oil Company well in Section 24, Township
20 9 South, Range 26 East.

21 Now I expect gas production from these
22 Abo Sands but the risk is higher that these would be commer-
23 cial.

24 I expect gas production from the basal
25 Pennsylvanian Sands, and as far as the type of spacing in

1
2 Section 18 for those, I wouldn't -- either one would be about
3 the same risk, I would think.

4 And that would hold true for the pre-
5 Mississippian dolomite also.

6 Now, that was -- Fred Poole completed his
7 well in the Eastland State No. 1 from the pre-Mississippian
8 dolomite, which was a gas completion. So I would have to go
9 along with a gas completion in that well, too, although this
10 pre-Mississippian dolomite is oil productive in the -- in the
11 area and they didn't -- they didn't run any drill stem tests;
12 they just completed it. They haven't had any oil yet that--
13 I've heard that maybe we're just looking at a gascap.

14 Q Mr. Thompson, with regard to the risk
15 of drilling these types of wells, have you been involved in
16 the drilling of a number of wells in southeastern New Mexico
17 during your tenture as a geologist?

18 A Yes, I have.

19 Q And are you somewhat familiar anyhow
20 with the -- with the risk involved in drilling these types
21 of well as to the possibilities of losing holes and so on and
22 so forth?

23 A Yes, I am, and I think the largest risk
24 in this area is to whether your formation is going to be
25 there or not. Both the Lower Silurian and the Ordovician

units are, as well as the Mississippian, are truncating out over low relief structures in this area, and I think there is some risk attached to -- to our proposed location.

Q Could you comment at all on mechanical risk involved in drilling the well?

A. Well --

Q I guess what I'm getting at, Mr. Thompson, is it risky to drill a well to 6000 feet, roughly, as you discussed?

A. Yes, I think it is, as far as completion problems, which is twisting off pipe or -- or getting stuck on drill stem tests is a big problem, because these shales in the Penn blow out into the wellbore and the -- if you're running drill stem tests that's one thing that's easily a good way to -- it would be fairly common to be stuck on that and raise the cost.

Q In your experience, Mr. Thompson, the deeper, as you drill deeper do you normally experience more risk of losing the well?

A. Yes.

Q Are you familiar, Mr. Thompson, with the statutory penalty in the State of New Mexico that's involved in compulsory pooling which allows recovery of costs from the nonparticipating interest owner plus 200 percent?

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A. Yes.

Q Are you also familiar with operating agreements and relating to other wells drilled in southeastern New Mexico and what the penalties range on operating agreements?

A. Yes.

Q Could you please state basically what the penalties range?

MR. JARAMILLO: If I might --

A. Well --

MR. JARAMILLO: If I might interpose an objection to this particular question.

First of all, the statutory penalties has been referred to. I find no reference to penalty in that particular statute and I believe each case is one to be decided on the facts by the particular commission, and my feeling is that any generalization over unspecified contracts is irrelevant and not material here.

MR. STRAND: Mr. Examiner, I may have to rephrase the question but I think it is relevant as to what people entering into voluntary operating agreements relating to wells, for nonconsent operations under those operating agreements, feel the risk penalty should be.

MR. RAMEY: Why don't you rephrase the

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question, Mr. Strand, and see if we --

MR. STRAND: See if we can get it straight?

Q Mr. Thompson, are you familiar with the standard form operating agreement that's used almost exclusively in southeastern New Mexico?

A I have read the -- read it over before.

Q Are you aware and are you -- of the fact that there is a provision in all of these operating agreements that provides for a non-operator working interest owner not to consent in the drilling of additional wells or the reworking of wells?

A Yes, uh-huh.

Q And are you also familiar with the percentages in operating agreements in southeastern New Mexico that are quite often utilized in these operating agreements?

A Yes, I am.

Q Would you please state from your knowledge in general terms what those penalties range from?

A I would --

MR. JARAMILLO: Mr. Examiner, again, I would have to impose an objection. Mr. Strand himself at the outset of this proceeding said there's not ever been a proceeding before this Commission that he was aware of where the

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2 facts in this particular case arose, which is not a penalty
3 for not going along with the entire project but one where
4 we're willing to go along with a certain percentage.

5 To simply generalize what the range of
6 standard penalties are in a case not before the Commission
7 simply has no relevancy or materiality to the decision the
8 Commission must make on this case.

9 MR. STRAND: Mr. Examiner, I'll withdraw
10 that question and ask another one.

11 MR. RAMEY: All right.

12 Q Mr. Thompson, I have here an operating
13 agreement that's designated, I believe it's Exhibit Number
14 Two.

15 A Uh-huh.

16 Q I am referring to page five of that
17 agreement.

18 A Yes.

19 Q Which in this particular agreement was
20 to cover all of Section 18, as Mr. Hall testified to.

21 On page five under Subsection B, Subse-
22 quent Operations, under paragraph (b) there's a percentage
23 stated. Will you please state that percentage?

24 MR. JARAMILLO: Same objection.

25 MR. RAMEY: This is, I assume, Exhibit

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Two that you're talking about?

MR. STRAND: Yes.

MR. RAMEY: I think we can have the witness say what is in Exhibit Two.

A. That would be 300 percent. Do you want me to read the --

Q. I don't know that it's necessary to read the paragraph in. I just want to get something in as to what at least some other parties that have executed this agreement have agreed to.

With that, I need say no more. Nothing further on the matter.

Mr. Thompson, in connection, again, with the risk involved in drilling this particular well, would it be your opinion that the maximum statutory risk penalty allowable of 200 percent would be appropriate?

A. Yes, it would.

Q. And you would request on behalf of the applicant, Harvey E. Yates Company, that such penalty may be made a part of any order entered in this matter?

A. Yes, I would.

Q. Would you also request that that penalty be made a part of any order whether that order relates to compulsory pooling from the surface through the Mississippian

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2 or from the base of the Abo to the lower depth?

3 A. Yes.

4 Q Mr. Thompson, were Exhibits Six and Seven
5 prepared by you or under your supervision?

6 A. Yes, they were.

7 MR. STRAND: I have nothing further on
8 direct.

9 MR. RAMEY: Any questions of Mr. Thomp-
10 son?

11 Let's take about a fifteen minute recess
12

13 (Thereupon a recess was
14 taken.)
15

16 MR. RAMEY: I had asked if there were
17 any questions of Mr. Thompson and Mr. Jaramillo indicated
18 that he was ready to ask some questions.

19 MR. JARAMILLO: I have a few and, hope-
20 fully, brief questions, Mr. Examiner.
21

22 CROSS EXAMINATION

23 BY MR. JARAMILLO:

24 Q Mr. Thompson, let me begin with the
25 structural map which you presented, I believe.

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A. Yes.

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Q. What's the exhibit number of that?

4

A. That's the Exhibit Number Six.

5

Q. Okay. Was the basis of this map seismic

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or is it subsurface?

7

A. Subsurface.

8

Q. It's a subsurface map?

9

A. Right.

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Q. All right. Now, on any kind of a struc-

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tural map like this isn't it always better in terms of ob-

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taining harder and more clear information to verify it by

13

seismic?

14

A. Yes. In -- depending on control, it's --

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the more information one has in a certain area, of course,

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the better it is, but one has to look at economics, too, in

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evaluating an area, and if a person feels confident with the

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amount of control he has in an area without shooting seismic,

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then it sometimes is deemed unnecessary.

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Q. All right. Now this proposition that

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you've just been talking about, I assume this applies in

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terms of lessening risk of an oil and gas operation, that the

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more information you have available to you in order to esti-

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mate the potential for commercial productivity, the better

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off you are. Would you agree with that?

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A. Yes.

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Q All right, and that should not only pertain to verifying structural maps by seismic but also having production history from wells in adjacent or adjoining sections. Is that also true?

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A. Yes, that's true developmentwise speaking,

but when we're talking about the exploration well it's a different ballgame and very seldom do you have even as much well control as we have in this prospect in lots -- in other areas.

Q Even in exploration, however, is there not a standard that each operator would apply before entering a venture where in protection of his own interests and those of other working interests are perhaps going to be impacted by that, is there not a standard, some standard, where an operator will say I either do have or I don't have enough data available to me in order to start out on this venture?

A. Well, of course, we'd have to -- I'd have to answer that for our exploration manager himself, but the way I feel that he would answer that is that we do have our standards, but as far as a set standard, I wouldn't -- I would say we have no set standard. We evaluate an area the best way we feel possible and we run economics on the area with what information we have, from trends in the area, or what information we feel that we interpreted having, and we

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2 go from there.

3 Q And it's not unusual in the oil and gas
4 industry that working interest owners looking at the same
5 basic data will come to different conclusions as far as
6 measuring the risk that they're willing to accept in certain
7 ventures. Would you agree with that?

8 A Yes.

9 Q Now, what is an objective zone, I believe
10 you referred to that in your testimony on direct?

11 A That would be one-- zones that we feel
12 have commercial production.

13 Q And what, would you define what commer-
14 cial production is as you've testified?

15 A That would -- that would be production
16 that is economical to our company to -- to drill a well for
17 the reason of drilling a well and penetrating.

18 Q Would that be recovery of costs plus a
19 fair rate of return?

20 A It would involve both of those, yes.

21 Q As well as --

22 A As --

23 Q Excuse me, go ahead.

24 A As well as other factors, such as we
25 have several different forms that we go by. One is what we

1
2 call a risk profile, and of course that involves your forma-
3 tion being present, the type of reserves that you expect in
4 that formation, the amount of risk of the actual reservoir
5 rock being there, and the TD of that well as to AFE costs and
6 costs of operating the well, and when all these are put to-
7 gether and analyzed we determine how much of an interest we
8 would take in a prospect to -- to be -- to have a profitable
9 gain for the company.

10 Q All right. Well, the ultimate goal of
11 these factors that you're talking about, though, however, is
12 for you and joint interest owners in the property to recover
13 the cost expended, of course you want to do that --

14 A Yes.

15 Q -- as well as make a fair rate of return
16 on your investment, correct?

17 A Yes, and the line between -- well, rate
18 of return would be -- would be more standard than amount of
19 profit. Some companies, you know, would have a different line
20 for the return on their profits. In other words, their pro-
21 fits in other companies, I would -- I would imagine.

22 Q Okay. Now do you consider these factors
23 that we've been talking about in developing your objective
24 zones?

25 A Yes.

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Q All right. You've indicated in your testimony today that the Mississippian is not itself an objective zone of Harvey E. Yates and Company in making this application for unitization.

A. That's correct.

Q You've indicated as well that there's been no production reported from the Mississippian formation.

A. That's -- that's correct, in this immediate area.

Q All right, so why are --

A. That under this prospect there would not be Mississippian production.

Q Why then have you applied to this Commission for unitization up to and including the Mississippian formation?

A. Well, that needs to be revised to indicate to penetrate the pre-Mississippian dolomite. We had additional information that we received since that time to warrant us to rephrase that to pre-Mississippian dolomite.

It doesn't make any difference as far as the cost or AFE on the well because TD would be the same.

Q Would you explain what TD is?

A. Well, our proposed total depth of the well; what your AFE costs are based on; part of what they're

1 based on, would be the depth of the well.

2 Q In any event, some information has re-
3 cently come to your attention to lead you to conclude that
4 there would be no production in the Mississippian formation at
5 the location where this proposed well is --
6

7 A That's correct.

8 Q -- to be drilled?

9 Now, with respect to the increasing risk
10 factor that you also testified about, that as you drill
11 deeper you increase your risk, is it not true from your ex-
12 perience and knowledge as a petroleum geologist or a geolo-
13 gical engineer, that there is also a balance that has to be
14 struck in terms of risk versus the anticipated production
15 that one can reasonable expect to obtain in entering into
16 a venture such as this one?

17 A Well, that's correct, and it's a --
18 quite a range of difference. You may have very low -- and
19 it's mainly involved with number of reserves versus I guess
20 it would be risk, and of course, a high reserve type well
21 versus a high risk will sometimes come out economical where
22 a low reserve well versus a high risk would not, or a low
23 reserve versus a low risk would, you know, and those ranges
24 are variable and set up different between companies.

25 Q Is it your opinion as a geological en-

1
2 gineer that there are commercially producable reserves of
3 oil and gas in the Abo formation at the site where this pro-
4 posed well is to be drilled?

5 A. I would say that the chance of depending
6 only on an Abo well on this location would not be economical
7 when the risk is involved, under including both risk and re-
8 serve.

9 Q. Let me ask you this in two stages, then.

10 A. Uh-huh.

11 Q. First, are there reserves of oil and gas
12 in the Abo formation at this location?

13 A. There -- I have reserves estimated but
14 the -- under the economical line as to being a commercial
15 Abo well.

16 Q. What is the proposal for this particular
17 well in terms of more than one completion in a different form-
18 ation, do you know?

19 A. No, we would -- we generally would, for
20 the sake of making better completions, we would -- I would
21 almost guarantee that we would make a completion out of the
22 pre-Mississippian dolomite first, produce it, and then come
23 on up to the basal Penn Sands rather than running two strings
24 of tubing in the hole and having all kinds of mechanical prob-
25 lems that might develop from that.

1
2 So, you know, I can't really say for sure
3 how that would be done, but that's how we've been doing it
4 recently.

5 Q Is there not set proposal, then, that --

6 A There would be -- there would -- I'm not
7 sure. We'd have to talk with the manager on that.

8 Q All right, you're not prepared to testi-
9 fy here today about that?

10 A Not really, not as to what we actually
11 would do, if we'd make a dual completion or a single comple-
12 tion and then plug back and come up to the next highest
13 horizon, next lowest horizon.

14 Q All right. Did you not testify that
15 there is a lower risk in obtaining a commercially producable
16 oil and gas at this location from the Abo formation than for
17 the north half of Section 18? Was that not your testimony?

18 A Yes.

19 Q All right, so you do anticipate some
20 production from the Abo formation in this well?

21 A I would say if there is production from
22 the Abo a western half location would be better than northern
23 half, according to how this sand development is -- the sand
24 in the Abo is developed in the offsetting wells.

25 Q All right, I --

1
2 A. There's no sand up to the north in the
3 Fred Poole well.

4 Q. I detect some --

5 A. No commercial sand, I should say.

6 Q. I detect some hesitancy on your part to
7 conclude on a reasonable basis, let's say, that there are
8 commercially producible volumes within the Abo formation
9 under this proposed well.

10 A. I would say that with the risk involved
11 economically productive Abo gas would be -- or production
12 from the Abo Sands would -- would, according to our analysis
13 at Harvey E. Yates Company, come on uneconomical.

14 Q. All right. Now, does not your risk in-
15 crease the deeper that you drill for oil and gas reserves?
16 Was that not your testimony?

17 A. The risk as far as mechanical problems
18 plus, well, in this area, lower Ordovician rocks, because
19 they're right in an area where they're being truncated and
20 they come and go a lot quicker than, for example, an ABo reef
21 trend, which is, you know, more of a continuous carbonate
22 trend which you can follow for, laterally, for several miles.
23 There are problems with that, too, but, you know, that's a
24 lot less of a risk type venture than -- than these others.

25 But of course, right where these lower

1
2 Ordovician rocks are pinching out are where good traps are
3 developed, too, so that helps your reserve estimate, to that
4 balances the risk out.

5 Q Let me have you assume that before this
6 hearing is over there will be some testimony that there is a
7 reasonable probability of there being commercially producible
8 volumes within the Abo formation under the proposed well site
9 here. Is it not true, if -- let me have you assume that as
10 a fact; that one of the risks that you have in drilling below
11 the Abo formation would be risk of losing the Abo well alto-
12 gether?

13 A Well, of course, there would be -- every
14 foot you go after a horizon that your potential after, you
15 know, that would be true for anything, and any deeper you go
16 in a well there's more of a chance of having something go
17 wrong with it.

18 Q All right. Are you familiar, Mr. Thomp-
19 son, of that kind of problem occurring within the vicinity
20 of the wellsite here in Chaves County within the last year or
21 two years?

22 A Well, I know from our experience in the
23 over to the east of this area, southeast, I should say, in
24 the northern Lea County, where these Pennsylvanian Sands are
25 developed, there is some commercial risk drilling through

1 these, as well as the Permian Shale in the Wolfcamp formation
2 mainly, where you had trouble running logs because the shales
3 had washed out in your hole, and you have trouble running drill
4 stem tests because of the shale problem. And you have lost
5 circulation zones in the Pennsylvanian carbonates that were --
6 that sometimes pipe will get stuck in and raise your mechan-
7 ical risk problems.

8 Now as far as the Abo goes, I'm not as
9 familiar with the -- with the risk of mechanical risks in the
10 Abo.

11 Q Okay.

12 A As I am with the lower horizons.

13 Q In terms of trying to decide how deep
14 you should drill a well, what the estimated production of oil
15 and gas would be, is it not true that one would put more
16 emphasis on a well which is located in an adjoining area of
17 the test well than one that would be located farther away?
18 As a general principle is that true?

19 A I don't under -- didn't understand that
20 question.

21 Q Well, let me -- let me kind of set it
22 out with a foundation question. You do look to the production
23 in other wells in the same area in making a decision what
24 to drill and how far to drill it.
25

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A. That's correct.

2

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Q. All right, you look at the production from those wells, is that correct, the production history?

4

5

A. That's correct, in the local area as well as the regional trend.

6

7

Q. All right. Now, the proximity of the wells that you use for comparison, that has some relationship to what you can reasonably expect to find in the test well, as opposed to using a well that may be farther away, is that true as a general proposition?

10

11

12

A. Generally, unless you have reason to believe that what you're looking at, such as a sand or a channel, is more apt to be developed in the -- in the area under your proposed location than it was in the offset wells.

13

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15

16

Q. Okay. Let me refer you to -- your attention to the well that I believe you testified to in Section 13, which is to the east, I believe, of the proposed unit.

17

18

19

A. To the west of the unit.

20

21

Q. To the west of the proposed unit. That's the Eastland State No. 1?

22

23

A. That's correct.

Q. It's your testimony that in looking at the production history, or it was reported to you that that well was completed for 632-million cubic feet per day. Do

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you recall that testimony?

A. That's 632,000.

Q. 632,000 --

A. Yes.

Q. -- cubic feet per day.

A. Right.

Q. All right, now is that calculated at
absolute open flow?

A. I believe -- I don't know for sure on
that. I can't answer that for sure but I think it was. Let
me look at my notes that I have in here.

I don't believe that was a COAF reading.
I think it was initial production flowed, so it's an IPF.

Q. Okay, so --

A. So I would imagine that a COAF would be
higher than that.

Q. Well --

A. A regular 4-point but -- but I'm not
sure on it.

Q. All right, you're not certain about
whether it was calculated absolute open flow or not?

A. Well, I just, you know, initial production
flow.

Q. All right, let me then just have you

1
2 assume that that is calculated absolute open flow.

3 A. I would guess that it isn't. I would
4 guess that it would be just a flow, an IPF.

5 Q. All right.

6 A. Not COAF.

7 Q. Let me just have you assume to the con-
8 trary for purposes of my question, then, --

9 A. Un-huh.

10 Q. -- and we'll leave that establishment
11 for some further evidence.

12 The actual gas which delivered would be
13 less than 632,000 cubic feet per day if it was calculated at
14 absolute open flow, is that correct?

15 A. The gas per day would be less than the
16 600, yes, that would be correct.

17 Q. All right, when it's attached to a pipe-
18 line you're going to get less than absolute open flow of this
19 gas.

20 A. Yes.

21 Q. All right, and is it your opinion that
22 if it is 632,000 cubic feet per day produced at that well
23 in Section 13, that once it's put into the pipeline that
24 will be commercially producible?

25 A. I think it will if combined with the

1 techniques that we use to complete our wells as operators,
2 as well as the pressure data that we have, which is very
3 limited up to this point. Two of these wells aren't even
4 hooked up to the pipeline yet.
5

6 Q Have you computed what this would amount
7 to on a per Mcf basis?

8 A Per day?

9 Q Per day.

10 A I haven't personally myself.

11 Q Do you have an opinion as to the approx-
12 imate amount per Mcf that that would be?

13 A I would say probably -- I believe that
14 this one has -- has -- is stabilized at around 300 to 400,000
15 a day now, and that would be from information gathered from,
16 let's see, what Mr. -- Mr. Kelly with Fred Poole.

17 Q That's where you obtained this informa-
18 tion?

19 A Yes, well, part -- part of the pressure
20 information, yes. John Klee, I'm sorry, K-L-E-E.

21 Q Okay.

22 A John Klee.

23 Q You did not verify the 632 in any re-
24 cords of the Oil Conservation Commission?

25 A No. That's the -- I don't know if they

1
2 have received those yet. That's what they had on their --
3 on their form, completion form, that's labeled -- let me get
4 that. The Form C-122, and that's to the New Mexico Oil Con-
5 servation Commission, so they probably have that.

6 Q Okay. In your opinion if this were
7 632,000 cubic feet per day calculated at absolute open flow,
8 and let me have you assume that the costs being projected for
9 this particular well were computed as against this amount of
10 productivity, would it be your opinion that if that per Mcf
11 amount cost versus production were in the range of \$5.00 per
12 Mcf, that that would be a commercially producable gas?

13 A Yes.

14 Q At \$5.00 per Mcf?

15 A Yes.

16 Q Okay.

17 A Especially at 6100 feet, 6200 feet, I
18 guess, where these sands would be at, and really the Fussel-
19 man would be at around 6 -- let me look at the cross section
20 here -- we're looking at a depth of 6100 feet. So at those
21 depths and at those gas prices, yes, it -- I'm sure it would
22 be economical.

23 Q All right, you're saying that at \$5.00
24 or so an Mcf a producer could sell his gas to a pipeline and
25 recover his costs and a fair profit?

1
2 A. I would say to my knowledge, yes.
3 You're talking about, for example, a tight reservoir?

4 Q. I'm talking about what the estimation is
5 in your opinion of what would be produced at the test well
6 here.

7 A. I'm not sure if this well is classified
8 as -- or this formation is classified in this area as \$5.00
9 gas, are you?

10 Q. No. I'm asking if there's a fair com-
11 parison, though, that can be made. You've relied on the
12 data from the well at Section 13 --

13 A. Yes.

14 Q. -- to support your opinion that there
15 are producable quantities of gas at the proposed site in Sec-
16 tion 18.

17 A. Uh-huh, that's correct.

18 Q. I'm asking you whether or not there is
19 a valid comparison to be made there.

20 A. I think there are commercial quantities
21 of gas to be made in the well in Section 13 from the pre-
22 Mississippian dolomite.

23 Q. And from that you're basing your opinion
24 on the proposed well in Section 18.

25 A. In Section 13, you mean? The well that

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was drilled?

Q No, I'm talking about the proposed well

A. Right.

Q -- here.

A. Okay, that's -- that's what I'm talking about, is that proposed location.

Q Have you been involved at all in the negotiations between Yates Petroleum or the Yates Company and Viking Petroleum?

A. No, sir.

Q In this matter? Have you been consulted on the matter?

A. I, yes, I've consulted on portions of the matter, that dealt with me.

Q All right, were you --

A. And my work.

Q Were you made aware of the reluctance of Viking Petroleum to participate voluntarily in the drilling below the Abo formation?

A. Yes.

Q Did you provide any information to Yates to substantiate its position that it was reasonable to do so?

A. Yes.

Q Do you know, was that in any kind of

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written form?

A. It is in a risk analysis form and in variables that we have estimates of for -- it's called a risk profile, is what we call it, and it involves economics -- it involves production as well as risk.

And this was presented to George Yates and with this information he analyzes it and decides on the -- is the well being commercially -- commercial for us to drill or not to this depth.

Q All right.

A. To test this formation.

Q You also advised him, I assume, somewhere in the course of your working for him, that there is no, in your opinion, producable volumes of gas within the Mississippian formation.

A. Right.

MR. TARAMILLO: I believe that's all I have, Mr. Hearing Officer.

MR. RAMEY: Any other questions? Mr. Nutter?

QUESTIONS BY MR. NUTTER:

Q Mr. Thompson, did I hear you make a reference to Abo production in Section 7?

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No, sir, that well, with the information I have from the logs and the mud logs and the geologist who worked on that well, I believe that the Abo Sands would be noncommercial in that well, the Campbell No. 1.

Q. There is some slight development of the Abo Sands compared to the well to the left on your cross section, however, isn't there?

A. Yes, there are compared to the -- at first the well in Section 1, now, let's see, the Byron, yeah.

Q. I'm comparing the Plains well to the Fred Poole well. The Abo appears to be slightly more developed in the Plains well.

A. Slightly better developed in the Plains than the well in Section 1, correct.

Q. So neither one of those wells -- you mean the well in Section 13.

A. No, I think the Abo Sands in Section 13 are -- are better developed and have a better chance of being commercial than those in the -- the Abo Sands in Section 7.

Q. I see. Okay, now, apparently the Plains well is completed in the basal Pennsylvanian, is that it?

A. That's correct, basal Penn Sand.

Q. And you do have Mississippian section present in that well.

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A. There's a small Mississippian section present in the Plains, yes.

Q. Now, in the -- in the Yates Petroleum well in Section 14 --

A. Uh-huh.

Q. -- you also have about 60 to 75 feet of Mississippian section there.

A. That's correct.

Q. But on your cross section you show Mississippian pinching out.

A. That's correct, in the Eastland well.

Q. In the Eastland well.

A. Yes, sir.

Q. And also at the proposed location.

A. Correct.

Q. Now on your stick diagram of the proposed location you show this proposed well going down to what I interpret to be the Ordovician or the Ellenburger.

A. That's correct.

Q. In between the dotted lines there.

A. Uh-huh.

Q. But the application is for pooling down to the Mississippian. We're not even talking about pooling the formations that you're projecting the well to, then, are

we?

A. No, we're talking about going through the -- at least into the Ordovician, correct.

Q So what are we going to have to have, another hearing to amend, or another advertisement, at least, to amend the application, Mr. Strand?

MR. STRAND: Mr. Examiner, as Mr. Thompson testified to earlier, some of this information came to his attention after the application was filed, and really just within the last few days, which now indicates that the previous total depth that we had indicated on the AFE is really in the Ordovician as opposed to the Mississippian, and it was my intention to go ahead and put on the evidence that we have relating to the Ordovician and then request a readvertisement.

MR. NUTTER: Well, normally in the course of these proceedings we can't enter an order until there has been an advertisement giving us jurisdiction over what we're doing. Is this going to hold you up as far as the deadline on December 1st for starting this well?

MR. STRAND: Mr. Nutter, we have no choice, really, anyhow but to put a cable tool rig on the location and go ahead and hold the lease for that period of time. In fact, it's my understanding that a cable tool rig is being moved out there right now and we, of course, will

1
2 get that squared away with the State Land Office and their
3 requirements, but we're doing that right now.

4 MR. NUTTER: I see, so the December 1st
5 deadline is not as critical as it might appear to be, then.

6 MR. STRAND: Not really, no, not really.

7 Q Mr. Thompson, on this Eastland well --

8 A Uh-huh.

9 Q -- down there in that perforated inter-
10 val --

11 A Yes.

12 Q -- there's no -- you don't see any lime
13 there at all. It's --

14 A No, that's dolomite.

15 Q There's just a complete absence of the
16 Mississippian lime in that well.

17 A That's correct. The mud log on the --
18 on the J. R. Smith at 6020 to 6065 is a lime and that's
19 verified on the mud log as well as personal communication
20 with geologists at Yates Petroleum.

21 Now, after obtaining information on the
22 Eastland State No. 1, usually on a neutron -- well, with
23 Schlumberger it's formation density -- when you go -- when
24 you drill into a dolomite your neutron curve and your den-
25 sity curve will show some -- some pretty good separation, as

it does in the Eastland well.

And after verifying with the geologist that worked on this well, Mr. Allen, who's a consultant geologist in Roswell, that was true. They had basal Penn Sands sitting on pre-Mississippian dolomite, and there is also evidence for a structure being there due to that absence of the Mississippian where it was shaved off but was structurally high at Mississippian time.

Q. I see.

MR. NUTTER: I believe that's all.

MR. RAMEY: Any other questions of Mr. Thompson?

MR. JARAMILLO: I have one further question, if I may, Mr. Hearing Examiner.

MR. RAMEY: Okay.

RE CROSS EXAMINATION

BY MR. JARAMILLO:

Q. Mr. Thompson, I overlooked asking you before with respect to the Plains Radio well in Section 7 --

A. Yes.

Q. -- do you know how much gas that well has produced? Since its completion in May, I believe?

A. No, I'd better not answer that to be sure.

1
2 That question should be directed to someone else or to me at
3 a different time when I can find that out.

4 I believe that's the only one that's
5 hooked up to the pipeline right now, though.

6 MR. JARAMILLO: That's all I have.
7 Thank you.

8 MR. RAMEY: Any other questions?

9 MR. STRAND: Mr. Examiner, I would move
10 the admission of Exhibits One through Seven for Harvey E.
11 Yates Company.

12 MR. RAMEY: Exhibits One through Seven
13 will be admitted.

14 Does that conclude your --

15 MR. STRAND: Yes.

16 MR. RAMEY: I haven't excused the witness.
17 He may be excused.

18 Do you want to put your witness on, Mr.
19 Jaramillo?

20 MR. JARAMILLO: Yes, Mr. Examiner. On
21 behalf of the intervenor in opposition to this application,
22 we would call a witness, Morris Ettinger.

23 These are our proposed exhibits.
24
25

MORRIS I. ETTINGER

being called as a witness and being duly sworn upon his oath,
testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. JARAMILLO:

Q Would you state your name, please?

A Morris Ettinger, E-T-T-I-N-G-E-R.

Q Mr. Ettinger, what is your business address?

A It's 1050 - 17th Street, Denver, Colorado,
84265.

Q What is your business or occupation?

A I am the exploration manager for Grynberg
and Associates.

Q All right, how long have you been so
employed?

A For about three years.

Q And what is the general nature and scope
of your duties in that capacity?

A It's exploration and production of oil
and gas.

Q And would you describe what Grynberg
and Associates is, please?

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A. For about three years.

Q. And what is the general nature and scope

of your duties in that capacity?

A. It's exploration and production of oil

and gas.

Q. And would you describe what Grynberg

and Associates is, please?

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2 A. Grynberg and Associates is a private --
3 privately held company, and engaged in oil and gas exploration
4 and production.

5 It has ventures throughout the Rocky
6 Mountains, southeast New Mexico, Mississippi, and other places.

7 Q All right, and would you explain for the
8 Commission what the relationship is between Grynberg and As-
9 sociates and Viking Petroleum?

10 A. We have a number of joint ventures in a
11 number of states, and this is another case of joint venture.

12 Q All right, and what is your relationship
13 to Viking Petroleum?

14 A. I am agent and consultant of Viking.

15 Q All right. Mr. Ettinger, have you ap-
16 peared and testified before the Oil Conservation Commission
17 on prior occasions --

18 A. Yes.

19 Q -- with respect to matters of geology in
20 connection with properties in southeast New Mexico?

21 A. Yes.

22 Q All right.

23 MR. JARAMILLO: Mr. Examiner, we tender
24 the testimony of Mr. Ettinger as an expert witness.

25 MR. RAMEY: He is so qualified.

1
2 Q Mr. Ettinger, so that I can focus your
3 testimony on what I believe are the true issues in this parti-
4 cular case, have I stated the position in opening statement
5 here of Viking Petroleum accurately, that number one, we would
6 accede to the choice of Yates Petroleum in unitizing, with
7 some exceptions I'll talk about, the west half of Section 18?
8 Is Viking in accord with that being the -- at least on the
9 surface, the unit that should be unitized in this case?

10 A We'll, yes, Viking will agree to that.

11 Q All right. Now, as I understand the
12 disagreement, it is only with respect to how far the test well
13 that's being proposed on the unit should be drilled, is that
14 correct?

15 A Correct.

16 Q All right, and Viking is taking a position
17 that the drilling of the well should not exceed the base of
18 the Abo formation, is that correct?

19 A Yes, only I'll add at this time.

20 Q All right, and what is the basis for that
21 particular position?

22 A Information, in our opinion, this area
23 is very sketchy. I think the previous testimony showed that.
24 There is a confusion as to the formations, what is what form-
25 ation, and the data is not readily available, and we feel

1
2 that at this time to go ahead and spend this extra money with
3 very little information, very unclear information, is waste
4 of money.

5 What we prefer to do is drill to the Abo.
6 We recognize the fact that the leases are about to expire and
7 the well should be drilled. We think that San Andres and Abo
8 are good objectives, and as far as the deeper objectives, we
9 should study, wait for more production history, and if we
10 find it, I don't know, in six months from now, justified,
11 we'll drill.

12 Q All right, Mr. Ettinger, let me go through
13 this data that we're talking about on a step by step basis,
14 if I may, and let me refer you to what's been marked as Ex-
15 hibit A before you, and I'll ask if you can identify that?

16 A Yes. Exhibit A is basically showing the
17 area in question, showing Section 18, the lease ownership,
18 the proposed location, and the other wells drilled in the
19 general area.

20 Q All right. In terms of the data that
21 you're talking about that you feel is incomplete at this
22 time, what relationship does Exhibit A bear to that data that
23 you've referred to? What is the significance of this docu-
24 ment?

25 A Well, we see here that recently, I would

1
2 say in probably the last year or less, four wells have been
3 drilled.

4 Q Could you refer to those?

5 A Going from north to south, there is one
6 well that was, as I understand, just completed in Section 1
7 of Township 9 South, 26 East; another well is in Section 7
8 of Township 9 South, 27 East; another well is in Section 13,
9 Township 9 South, 26 East; and another well is in Section 24
10 of Township 9 South, 26 East.

11 Q All right, are these all wells that have
12 been completed of recent times?

13 A Yes.

14 Q All right. Now, let me refer you to
15 what's been marked as Plaintiff's Exhibit B, and ask you if
16 you can identify that, please?

17 A Yes. This is a copy of the producing
18 section in the deeper formation in the Fred Poole Eastland
19 State No. 1 in Section 13.

20 Q All right, that's the well that appears
21 on Exhibit A with a checkmark?

22 A That's correct.

23 Q All right, where was EXhibit B, the in-
24 formation contained on this document obtained?

25 A This is the -- we were able to receive

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a copy of the log from the operator.

Q All right, explain what this log is, first of all, Mr. Ettinger.

A The log is the compensated neutron density log on the righthand side and on the lefthand side it shows the gamma ray and caliper log.

Q All right, and if you could, explain the significance of this document with respect to the well in Section 13 which you have reference to.

A Well, it shows that the interval from 6072 to 6082 shows porosity development and this is the zone that was perforated in this well.

Our information, which was obtained from the -- and I must say by telephone -- from the Oil and Gas Conservation Commission of New Mexico, indicates that this zone was completed for 632 Mcf per day of calculated absolute open flow.

Q All right, that's indicated over on the righthand side about the middle of Exhibit B?

A That's right.

Q All right, is that the same figure that Mr. Thompson had reference to from the same well --

A Yes, the same number with different classification, so, simply I think that the exact figure is

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2 not known to us.

3 Q All right, it's your information from the
4 Commission staff that this was calculated at absolute open
5 flow?

6 A This is the information we received over
7 the telephone.

8 Q Okay. Now, you've put some particular
9 focus on the well in Section 13. Why is that?

10 A Because it's so close to the proposed
11 location.

12 Q All right, in the adjoining section.

13 A Yes, but it's only about 1300, 1320 feet
14 away.

15 Q 1320 feet. All right, Mr. Ettinger, the
16 632 Mcf per day that's depicted on Exhibit B, what is the sig-
17 nificance of that to you in terms of commercial productivity
18 of this well in Section 13?

19 A If this is the calculated absolute open
20 flow, I would estimate that the deliverability of this zone
21 won't be more than 100 to 150,000 cubic feet per day, and
22 the real question is how long will it stay at this level.

23 Q All right, what is the basis for your
24 opinion?

25 A It is experience in the general area.

1
2 Q All right, in other words, the absolute
3 productivity this -- this absolute open flow is diminished
4 considerably by the time you attach it to a pipeline and its
5 gas is actually delivered to the pipeline?

6 A Well, the reason is very simple. When
7 we measure calculated absolute open flow, we really have no
8 back pressure; it's open to the atmosphere.

9 When we have a pipeline you do have a
10 certain pressure in the pipeline, which could be 100, 150, or
11 even more, and therefor the deliverability would be less.

12 Q All right, in your opinion is the amount
13 of gas produced as depicted on Exhibit B in this well in Sec-
14 tion 13 of commercial productivity?

15 A I would say, at this stage, I would say
16 no, unless we have some production history to see that the
17 decline is not there or what is the decline.

18 Q And what inference or conclusion, if any,
19 can you draw with respect to the proposed well in Section
20 18 from the information you've gathered from the Section 13
21 well?

22 A We have the -- this zone, this deeper
23 zone, how commercial it is is very questionable at this time,
24 and therefor we don't think it justified to risk additional
25 something in the order of \$250,000, plus the possibility of

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2 losing the entire hole, at this time.

3 Q All right, was this position made known
4 to Yates and Company in the negotiations which have transpired
5 between those two companies?

6 A I myself did not talk to a representative of
7 Yates but it's my understanding that Mr. Grynberg discussed
8 this with them.

9 Q All right, you expressed your opinion on
10 this matter to Mr. Grynberg?

11 A Yes.

12 Q Now, let me refer you, if I might, to
13 Exhibit C and ask if you can identify that, please?

14 A Yes. Exhibit C is simply to show our
15 concern, and as I mentioned before, there is quite a lot of
16 confusion as to the various position formations, but this is
17 a -- information from a well that we have this information,
18 which is located something like 15 miles to the north and
19 west of this proposed location, and this is an example of a
20 reservoir with similar thickness and this is the Penn section
21 in which it shows on the log, even, a much better development
22 than we see in this adjoining well here in Section 13, the
23 Eastland well.

24 Q All right, is this also a Penn section?

25 A Well, this is, again, I cannot say a yes

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2 or no at this point, but roughly speaking this is a deeper
3 horizon and it's somewhere there.

4 Q All right.

5 A And what we see here, that this well was
6 tested for 1.55 million.

7 Q You're referring to page three of this
8 exhibit?

9 A Yes. Absolute, calculated absolute open
10 flow, and here we have the production history.

11 In March of 1981 it produced 552 Mcf per
12 month. In April, 546; in May, 218; in June, 61; in July, 163;
13 nothing in August, which shows a very rapid decline, and this
14 is our concern.

15 Q What in your opinion is the basis for
16 the decline in the well depicted in Exhibit C?

17 A Well, it's probably a limited reservoir.

18 Q And what relationship and conclusion, if
19 any, can you draw, Mr. Ettinger, between the well as depicted
20 on Exhibit C comparing it to the well in Section 13 as de-
21 picted on Exhibit B?

22 A We see the same thickness. It could or
23 it could not be the same formation, but until we have more
24 data we are very concerned that the depletion would be so
25 fast that we won't be able even to recover -- this well won't

1
2 recover even \$10,000 from this formation. ^{QUESTIONABLE COPY}

3 Q The well in --

4 A I might add that this is based on \$5.00
5 for tight sand and there is a question whether this objective
6 or reservoir of the proposed location will be classified under
7 tight gas, and therefor the price will be only \$3.00 per Mcf,
8 not \$5.00.

9 Q All right. Aside from what's depicted
10 in Exhibits A, B, and C, do you have any other information
11 that you have referred to in reaching an opinion as to the
12 advisability of drilling deeper than the Abo formation at
13 the proposed site?

14 A Yes, we have additional concern, and
15 this is based on the drilling and the risk we're taking in
16 drilling deeper. We had a copy of the log from the Elk Oil
17 Company well in Section 24 and based on this log we see that
18 this well was drilled to 6200 feet but they did have mechan-
19 ical trouble that we know from the operator. They were
20 fighting for about a week until they were able to log the
21 well only to 5120. They couldn't even go below 5120, which
22 is roughly the base of the Abo, indicating that mechanically
23 we take a risk of losing the entire well for a very question-
24 able objective.

25 As I understand right now, they did set

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2 pipe. They were able to overcome and they did set pipe to
3 6200 but they don't know what they have from log and that
4 kind of thing. A very unpleasant situation in my opinion.

5 Q Now, with respect to the potential risk
6 of losing the well from what you've observed of the Elk Oil
7 well in Section 24, what conclusion do you draw with respect
8 to the proposed well in Section 18?

9 A Well, considering everything that we
10 discussed, one, we don't know the productivity of this form-
11 ation, we even don't know exactly what is this formation. We
12 do take a mechanical risk. We even don't know what will be
13 the price for the gas. We -- this is the first time I saw
14 today this structure map, which indicates a very interesting
15 structure, which in my opinion should be verified further by
16 maybe seismic because we have no control to the east, we
17 don't know how large, really, this structure is, and there-
18 for how economical it might be.

19 I think at this time to drill to 6350,
20 I think is the proposed depth, it simply, it doesn't justify
21 it to take the risk, this additional risk below the Abo.

22 Q In your opinion would that additional
23 risk be unreasonable to prudent joint interest owner and
24 operator of a well?

25 A Yes.

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2 Q All right. Now, Viking Petroleum is not
3 taking a position here, are they, Mr. Ettinger, that ulti-
4 mately it may be adviseable -- it may well be adviseable to
5 drill a deeper well.

6 A Well, what we said that we don't want
7 to drill it now because of lack of information. As informa-
8 tion, those various wells would be connected to a pipeline,
9 we would have some production information. We'd probably be
10 able to better define the various reservoirs, correlate the
11 various wells here. At that time we might be very willing to
12 participate.

13 Q At present, however, the information has
14 not been sufficient, in your own view and that of Viking Pet-
15 roleum, to justify the additional expense.

16 A Yes.

17 Q All right, with respect to dual comple-
18 tion of this well in the event that an order is entered al-
19 lowing drilling to the deeper formation, what is your opinion
20 as to how that should -- that procedure should be accomplished?

21 A I know in some other wells in the area
22 dual completion practice was approved by the Commission, of
23 which the Penn and Abo was dually completed, and I don't see
24 any reason if we find in this well that the two zones can be
25 produced, the Abo and the deeper horizon, why it cannot, the

1 same practice cannot be utilized.

2 Q All right. For purposes of the record,
3 would you explain what dual completion is and how it works
4 and how the production of the -- how the production is measured
5 in terms of the ownership.
6

7 A Well, this can be separated in two hori-
8 zons and one can be produced from the tubing and the other
9 one through the annulus, so that we can measure each zone,
10 the production from each zone so there won't be any question
11 as to who gets what and whether it's royalty owner or working
12 interest owner or whatever it is.

13 Q All right, there's no commingling of the
14 gas from these two formations.

15 A That's correct.

16 Q All right, and that would provide vir-
17 tually a mathematical way of computing the various costs and
18 production allocations should there be dual completion.

19 A As far as production, yes.

20 Q Do you have an opinion, Mr. Ettinger, as
21 to whether or not there is the potential of commercially
22 producable oil or gas from the Abo formation? At the pro-
23 posed wellsite in Section 18?

24 A I think there is.

25 Q All right, sufficient that you've recom-

1 mended participation in this venture to that extent?

2 A. Yes.

3 Q. The ownership interest of Viking in the
4 proposed unit is 25 percent measured by the surface acreage,
5 is that right?
6

7 A. Yeah. If we talk about the west half of
8 Section 18 it would be about 25 percent.

9 Q. Was there anything presented in the test-
10 imony of Mr. Thompson that has convinced you that the risk
11 is any more reasonable than your opinion that's been given
12 during your testimony?

13 A. I would say yes, because I was concerned
14 all the time that we don't have sufficient data. Now I am
15 convinced that Harvey Yates -- is that your oil company?

16 MR. STRAND: Yes.

17 A. Doesn't also have sufficient data, so
18 it makes my concern even further that we're going into some-
19 thing we don't know what we can expect.

20 So it even strengthened my feeling that
21 at this point we shouldn't take this additional risk for
22 drilling deeper.

23 Q. All right, sir. My question, so it will
24 be clear, what's been presented here today has not been any-
25 thing that has changed your opinion that there is not yet suf-

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2 ficient information to justify the additional drilling below
3 the Abo formation?

4 A. Yes.

5 MR. JARAMILLO: That's all I have, Mr.
6 Examiner.

7 MR. RAMEY: Any questions of Mr. Ettinger?

8 MR. STRAND: I have just a few, Mr.
9 Examiner.

10
11 CROSS EXAMINATION

12 BY MR. STRAND:

13 Q Mr. Ettinger, I'll ask you the same ques-
14 tion that Mr. Jaramillo asked Mr. Thompson. Is it your opin-
15 ion that competent, reasonable geologists can differ in
16 opinions as to risk, the existence of structure, and so forth
17 and so on?

18 A. Yes.

19 Q You talked some about a dual completion
20 in the well, Mr. Ettinger. Does not a dual completion also
21 involve mechanical risk?

22 A. Well, anything you do involves mechani-
23 cal risk but I think it's justified when you consider the
24 alternative and this means to drill another well.

25 Q Will it not be less risky to drill the

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2 to the Ordovician and produce that zone, if there is commercial
3 production there, and then plug back up and produce the
4 Abo, as opposed to the dual completion?

5 A. Let me answer you in this way. If I was
6 convinced that the Mississippian, or whichever it is, is a
7 pretty good potential capable of producing, let's say, a
8 million cubic feet per day, with the Abo producing maybe
9 200,000 cubic feet per day, I would say it's reasonable, because
10 what we are doing is delaying all the income from the
11 Abo into I don't know how many years to the future, whereas
12 as I see it here, it could very well be that the Abo has better
13 potential than the Mississippian, of course assuming that
14 the Mississippian or the lower had the potential.

15 So what are we doing is we are doing
16 very low income, we're getting very low income and postponing
17 the real income into some time in the future losing our money
18 because of discount factor and present interest rate. It's
19 a losing proposition.

20 Q. Mr. Ettinger, assuming for the purposes
21 of this question that there are commercial reserves in the
22 lower zones, whatever they may be, I'm going to ask the question
23 again. Wouldn't normal operator or a prudent operator
24 consider it less risky to plug back to the upper zone than
25 to dual complete the well?

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2 A Would you repeat again for me?

3 Q Assuming, economics not being considered,
4 assuming that there is commercial production, commercial re-
5 serves in the lower zones that we're talking about, would
6 not a prudent operator normally plug back up to the next
7 zones as opposed to dual completing the well?

8 A Not necessarily.

9 MR. NUTTER: Mr. Strand, do you mean to
10 produce the lower zone first --

11 MR. STRAND: Yes.

12 MR. NUTTER: -- and then plug back?

13 MR. STRAND: Yes.

14 A I would say first of all is comparison
15 between the potential of the two zones and then you decide
16 what is the best method and most economical method of pro-
17 ducing. I think what we are doing here is talking about some
18 thing we don't have the information.

19 All that we are requesting is that
20 should there be a commercial zone in the deeper zones and
21 should there be also a commercial zone in the Abo, simply to
22 allow, the Commission to allow to produce the two zones, like
23 in many other wells in the area.

24 Q How many other dual completions are
25 there in the area?

1
2 A. Well, this example I gave is dually com-
3 pleted. The one that I have in Exhibit C is dually completed
4 in the Penn and in the Abo.

5 Q How many others?

6 A The problem is very often that the Penn
7 was completed, or dually completed, and then it went to
8 nothing and then we were left only with the Abo.

9 So there are, I would say quite -- I can-
10 not tell you how many, but I know there are -- this is a very
11 accepted practice in oil industry.

12 Q Mr. Ettinger, at this time is it your
13 position that Viking and the Grynbergs, whatever the connection,
14 are not willing to participate in the drilling of a well from
15 the surface to the total depth listed on the AFE?

16 A If the AFE is as it was presented, no.

17 Q At this time you are not willing to part-
18 icipate in the drilling of that well from top to bottom.

19 A That is correct.

20 Q And you're basing that primarily on the
21 fact that you feel that there is too much risk involved in
22 that.

23 A Correct.

24 MR. STRAND: I don't have anything
25 further right now.

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2 MR. RAMEY: Any other questions of Mr.
3 Ettinger?

4 MR. JARAMILLO: I have only a few.

5
6 REDIRECT EXAMINATION

7 BY MR. JARAMILLO:

8 Q. Just to clarify one matter, Mr. Ettinger,
9 on Exhibit C, the well that you had comparison on, where you
10 show on the front cover between March of '81 and August of
11 '81, the production going from 550 to zero, that is production
12 from the Penn formation only, is that correct?

13 A. That is correct.

14 Q. And you said that this is a dual comple-
15 tion well. Is there still production from the Abo formation
16 in this well?

17 A. Yes, my information, yes.

18 Q. All right, and is that production still
19 commercially producible?

20 A. Yes.

21 Q. Now, with respect to the question Mr.
22 Strand just asked you as to whether you agree or do not agree
23 to participate in the well from the surface to the, well, the
24 proposed right now before this Commission is the Mississippian.
25 There is no question, though, that Yates Petroleum is willing

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2 to participate fully in all of the prorated production costs
3 from the surface down through and including the base of the
4 Abo formation.

5 A. That's what we had today, that they see
6 a potential in San Andres; they see potential in the Abo.
7 They also see potential in the Mississippian where we don't.

8 Q So the only area of disagreement is who
9 will pay or whether indeed there should be any drilling below
10 the formation of the Abo.

11 A. That's correct.

12 Q Thank you.

13 MR. STRAND: A couple more.

14 MR. RAMEY: Mr. Strand.

15
16 RECROSS EXAMINATION

17 BY MR. STRAND:

18 Q Just -- on Exhibit C, the Fred Poole
19 Grynberg Federal No. 1 Well, that says Township 6 South,
20 Range 24 East, Section 13. Now how far away is that?

21 A. We said about 15 miles or so.

22 Q Okay.

23 MR. STRAND: That's all.

24 MR. RAMEY: Any other questions of Mr.
25 Ettinger? He may be excused.

Do you have closing statements?

MR. JARAMILLO: Yes, I do.

MR. STRAND: Go right ahead, I'll follow.

That's fine.

MR. JARAMILLO: I think I can be brief with this, Mr. Hearing Officer and members of the Commission.

We have basically two propositions that we're promoting by our appearance in opposition and then some not in opposition to this proposal.

First of all, we think that what's before the Commission while it's controverted, I think there's evidence on both sides. The Commission is experienced in matters of this nature and understand risk factors as well as anyone can, and I'm sure far better than most people not totally familiar with the oil and gas industry.

What I would say is this: The evidence indicates that there could be producable volumes of gas -- well, we know not at the Mississippian but perhaps in the strata above that, and the question that has to be decided is do you balance the \$272,000 that Yates is asking for participation in by my client as against the estimate of recovering commercial volumes of gas. One's got to make that decision. That decision is now being placed before this Commission because the parties themselves could not agree on that.

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2 Our position is that the evidence has
3 established there just simply isn't sufficient data for a
4 reasonable operator to make that decision now and bind some-
5 body else to go along and to drill to that depth.

6 Now, because of our second position here
7 that doesn't prohibit this Commission from saying that it
8 finds sufficient evidence that it could or could not be
9 reasonable to go ahead to do it, Yates Petroleum, but this
10 is your risk. You're promoting the venture, you should stand
11 that portion of the risk below the Abo because there is also
12 evidence produced by Viking that that is unreasonable.

13 Now what I'm proposing is this: I be-
14 lieve that the statutory authority of this Commission is
15 broad enough, I think the statutes are clear, and I'll go
16 through that in a minute, number one, to say that the evidence
17 supports the position that there should be no drilling below
18 the Abo. That should be the order of the Commission.

19 Number two, if the Commission finds suf-
20 ficient evidence to justify that deeper venture, then our
21 client, Viking, is willing to participate all the way through
22 and including the completion of the Abo formation. The great
23 majority then of the costs that are set forth in this appli-
24 cation, FEA, will be participated in by my client.

25 From the Abo formation down, though, I

1 think it's clear and I think it's uncontroverted from both of
2 the geologists that have testified here today, you increase
3 your risk clearly, and here we think you increase your risk
4 substantially and unreasonably, until you have sufficient data
5 to justify the belief that there is commercially producible
6 gas in the deeper formations.

7 Now if Yates is willing to drill that,
8 as Mr. Strand said in his opening statement, they could drill
9 all the way to China if they want to, and I agree with that.
10 There's no way to stop them from drilling as deep as they want
11 to drill.

12 But we do have relief from the Commission
13 that if deeper drilling is unreasonable, then the cost between
14 the Abo and the deeper formations should be borne by the
15 party who wants to accept that risk, and the Commission can
16 do that under the statute by simply saying that if there is
17 production from the deeper pool, from the deeper formation,
18 the first production out of those formations would go to reim-
19 burse Yates for their cost incurred between the Abo and the
20 Mississippian formation.

21 The production, if it's a dual completion
22 will be easy, won't be commingled, you'll be able to tell how
23 much should be allocated to them. They will recover their
24 \$272,000, if indeed there is production, and their risk will
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2 have been a good one.

3 If the risk is a bad one and there is
4 no producable gas in the deeper regions, then I think Yates
5 should have to bear that risk and not our client who has
6 looked at the matter, has looked at the evidence and has de-
7 cided on the basis of it as a reasonable joint interest oper-
8 ator that there's insufficient data for me to say I'm willing
9 to take that risk.

10 Now, what is the statutory authority
11 for the Commission to be able to make a decision, one, we
12 drill only to the Abo, that's what the order of unitization
13 will provide; or B, Yates you drill to the Mississippian but
14 Viking, you will participate only to the Abo.

15 I believe that that authority can be
16 found in Sections 70-2-17, which is the statute providing for
17 equitable allocation of production, pooling, and spacing, in
18 this Commission.

19 At Subsection C of that statute it is
20 provided that the pooling order of the Division shall make
21 definite provision as to any owner, or owners, who elect not
22 to pay his proportionate share in advance for the prorated
23 reimbursements solely out of production to the parties ad-
24 vancing the costs of development and operation. Let me stop
25 there.

1
2 In the ordinary case it's someone who's
3 not willing to go along at all. The Commission can say that's
4 fine, you don't have to, but the operator is going to recover
5 his costs from the production.

6 The statute goes on to say, which shall
7 be limited to the actual expenditures required for such pur-
8 pose, not in excess of what are reasonable. Now there's dis-
9 cretion vested then in the Commission to decide is this a
10 reasonable expense or not. But which shall include a reason-
11 able charge for supervision, and we have no dispute with the
12 \$3500 and the \$300 per month for supervision and operation of
13 the well, and may, and note the word may, include a charge
14 for the risk involved in drilling of such well, which charge
15 for risk shall not exceed 200 percent of the nonconsenting
16 working interest owner's pro rata share of the cost of
17 drilling and completing the well.

18 This Commission may allow that. The
19 statute does not say you shall allow it, and that means to
20 any attorney that this Commission has the discretion to decide
21 under the facts presented here, should they allow such a cost
22 or not. If the Commission decides to allow this drilling
23 to the base of the Mississippian as applied for here, or will
24 be modified to be applied for, there is discretion within
25 the statute to say that we will go along, we being Viking, to

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2 the cost of the production and completion to the Abo, and
3 Yates will pay the difference in that cost.

4 They will be entitled to recover every
5 penny of the difference in that cost from the first production
6 under this statute, the Commission can order that, and the
7 Commission can also say under this statute that on the evidence
8 before me, before us today, that risk is unreasonable at this
9 time on the evidence that's before the geologists. That
10 being the case, there is not a reasonable expense at this time
11 before the correlative right owner, Viking, to accept those
12 costs.

13 Therefor I think this Commission can or-
14 der that on that basis Yates can drill the well, they can
15 recover from the first production their costs, being the
16 difference between the Abo and the completion, and no addi-
17 tional charge for risk should be imposed here because we sub-
18 mit on the evidence that risk is unreasonable. And if it's
19 unreasonable, the statute certainly allows this Commission
20 discretion to disallow that.

21 Now, if I can refer the Commission to
22 the Statutory Unitization Act, Section 70-7-1 and following.

23 At Section 6 there are six findings that
24 this Commission must make from the evidence before it can
25 enter an order of unitization, and two and possibly three of

1
2 those findings are quite important.

3 The first one is this Commission must
4 find from the evidence that the estimated additional cost, if
5 any, of conducting such operations, being unitized operations,
6 will not exceed the estimated value of the additional oil and
7 gas so recovered, plus a reasonable profit.

8 I don't think there's sufficient evidence
9 here before this Commission for you to make that finding.

10 MR. RAMEY: Let me interrupt. Are you
11 talking -- is this the compulsory unitization for secondary
12 recovery?

13 MR. JARAMILLO: It's the Statutory
14 Unitization Act.

15 MR. RAMEY: Yeah, I don't think that
16 would be apropos to this particular hearing. This is compul-
17 sory pooling to form a standard drilling unit.

18 MR. JARAMILLO: Well, as I read the
19 statute --

20 MR. RAMEY: You can go ahead and put it
21 in the record.

22 MR. JARAMILLO: All right. As I read
23 the statute, Mr. Hearing Examiner, in Section 70-70-8, which
24 provides for ratification and approval, in the event there
25 is no ratification by the interest owners, as there's not here,

Subsection D provides that when a person owning the required percentage of interest in the unit area have approved the plan for operations, and here that's been only the people affiliated with Yates, the interest of all persons in a unit are unitized whether or not those persons have approved the plan of unitization in writing. And to me that sounds like compulsory unitization, and that's what I had understood the purpose for the application by Yates to be in this proceeding.

But in any event, let me say this, that whether these elements must be found in this proceeding does not change the fact that there isn't any evidence here that the interests of the joint interest owners, the correlative right owners here, are being adequately protected with respect to drilling below the Abo formation, and that's essentially the point I want to make.

Whether that's an evidentiary requirement here or simply a matter for the Commission to consider in entering its order.

Very briefly, let me just say that any order that's issued by this Commission by mandate of statute must be one upon which the terms are fair, reasonable, and equitable. I'm sure the Commission is familiar with all the statutes that empower it to have that requirement and that is the power upon which we're invoking in our opposition to

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2 this proceeding here.

3 Briefly, and in conclusion, let me just
4 say that an order which would compulsorily require Viking
5 to participate in unreasonable costs on the basis of the
6 evidence presented would not be fair and equitable or just
7 in this case. One that would require participation only to
8 the extent of the Abo formation would be because that's un-
9 contested, I believe, at this point as being a reasonable
10 venture for these operators to undertake. The question then
11 is do we allow the deeper formation? If so, what is the rate
12 of return to the operator. It's the operator's risk clearly;
13 they're promoting it; they should bear the brunt of it.
14 They should recover their costs from the first production,
15 but I don't believe there's sufficient justification to
16 carry Viking Petroleum along with those risks when one, it's
17 not voluntarily acceding to those and two, it's not for a
18 good reason. There's insufficient data to justify that and
19 therefor our position is the deeper drilling should not be
20 allowed, or if it is, they should simply be able to recover
21 those additional costs until they are recovered without a
22 penalty or a charge for the risk factor involved.

23 Thank you.

24 MR. STRAND: Very quickly. Mr. Examiner,
25 I'd like to go back and start at the beginning on this.

Harvey E. Yates Company proposed a well to the various interest owners under the west half of Section 18, to drill a well to what we thought at that time was the Mississippian. It turns out it's the Ordovician.

There has been no formal agreement with the Viging-Grynberg group that they will participate in the drilling of this well, either to the Abo or all the way. There is no formal agreement at this point.

We filed under the compulsory pooling statute an application for pooling through the Mississippian of the west half of that particular section for a gas well to be dedicated -- or at a standard location.

Up until the time of this hearing there has still been no agreement. The time is running out. We are having to put a spudder on the lease to hold it. We need to go out and drill the well.

There's been testimony here today that the Viking-Grynberg is not willing to take the risk and pay their share of drilling a well to the total depth in the Ordovician, period. That's what he said, Mr. Ettinger said in his testimony, we're not willing to do that. We're not willing to take that risk.

This is just exactly the purpose that the compulsory unitization -- or compulsory pooling statute

1
2 was passed for in the first place. It's a policy of the
3 State of New Mexico that they want development of oil and gas
4 reserves in the State of New Mexico. The statute simply says
5 if two interest owners can't agree, then the Commission has
6 the authority, not only the authority but the obligation to
7 enter an order pooling those mineral interests, so that that
8 particular well can be drilled that the application was made
9 for.

10 It is our position today that an order
11 should be entered in this matter pooling the interests of
12 the Grynberg-Viking group from the surface to the Ordovician,
13 base of the Ordovician, which we will ask that a readvertise-
14 ment be done so that that is taken care of from a procedural
15 standpoint.

16 I don't think there's any controversy
17 on the part of HEYCO and Viking that there may be a different
18 formation involved, but we're still talking about drilling
19 a well to 6350 feet.

20 We would like an order pooling their
21 interest from the surface to the base of the Ordovician. At
22 that point, if the order is entered in the usual form, it
23 will provide that they will have 30 days within which to
24 pay their estimated well costs in advance. We may well
25 settle the thing before that 30 days is up and make some

1 arrangements relating to different participation below the
2 base of the Abo, but that's a contractual matter between the
3 parties.
4

5 But I think the Commission not only has
6 the authority but has the obligation to enter a compulsory
7 pooling order from the surface to the base of the Ordovician.

8 As to the penalty, the penalty was put
9 in there for the same purpose that, again, that the statutory
10 pooling statute was passed. The Legislature said, well,
11 okay, if somebody doesn't want to participate in drilling this
12 well that the pooling application is applied for, fine; how-
13 ever, then the other party that are agreeable to do it are
14 going to take all the risk, monetary risk, and that's what
15 that risk is talking about, not mechanical risk. The statute
16 refers to financial risk.

17 We are going to take all of the risk
18 of drilling that well, losing it, or whatever, from a finan-
19 cial standpoint; therefor the statute gives the Commission
20 the authority to provide for a penalty to partially compen-
21 sate the operator and the interest owners who are drilling
22 the well for taking that risk on behalf of the nonconsenting
23 and nonparticipating parties.

24 That's the purpose of the risk provision.
25 We have requested, and I think we have had testimony that

1
2 justifies the full 200 percent risk penalty, and I would ask
3 that that be included in the order.

4 And I -- I personally, in reviewing the
5 statute, do not think the Commission has the authority to
6 provide for allowing someone to -- or an interest owner to
7 participate to the base of the Abo formation and then not
8 participate below. I don't think the statute was intended
9 that way. I don't think there's language in there that can
10 be construed that way, and I would request, as I stated be-
11 fore, just a compulsory pooling order from top to bottom, as
12 requested in the application.

13 MR. RAMEY: Thank you, Mr. Strand.

14 Does anyone else have anything to add
15 to Case 7390?

16 If not, we'll take the case under ad-
17 visement, and we'll have to readvertise the case. We'll con-
18 tinue and readvertise the case.

19 MR. STRAND: Let's just square away
20 where we're going to readvertise it to, is that --

21 MR. THOMPSON: Let's see, can we just
22 keep it to 6350 or do you need a formation name?

23 MR. RAMEY: I think we'll need a forma-
24 tion name.

25 MR. STRAND: I think so.

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MR. THOMPSON: Okay, let's say Ordovician.

MR. STRAND: To the base?

MR. NUTTER: From the surface to the Ordovician.

MR. RAMEY: Okay, so it will be continued and readvertised to pool all mineral interests down through the Ordovician.

Okay.

MR. JARAMILLO: On a procedural point, Mr. Examiner, I did not move the admission of the exhibits. I would do so at this time.

MR. RAMEY: Exhibits A through C will be admitted.

And the hearing is adjourned.

(Hearing concluded.)

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C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
21 October 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of Harvey E. Yates
Company for compulsory pooling,
Chaves County, New Mexico.

CASE
7390

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

W. Perry Pearce, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

MR. STAMETS: We'll call next Case 7390.

MR. PEARCE: Application of Harvey E.
Yates Company for compulsory pooling, Chaves County, New
Mexico.

MR. STAMETS: At the request of the
applicant, this case will be continued to an Oil Conservation
Commission Hearing on November 24th.

(Hearing concluded.)

BEST AVAILABLE COPY

C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B

Santa Fe, New Mexico 87501

Phone (505) 455-7409

I do hereby certify that the foregoing is a correct and true transcript of the proceedings in the case of the hearing of Case No. 7396, heard by me on 10/21 1981.

Richard W. Ham Examiner
Oil Conservation Division



BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

January 8, 1982

Mr. Robert H. Strand
Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88201

Re: CASE NO. 7390
ORDER NO. 8-6873

Applicant:

Harvey E. Yates Company

Dear Sir:

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

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC x
Artesia OCC x
Aztec OCC

Other Arthur Jaramillo

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION COMMISSION

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

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CASE NO. 7390
Order No. R-6873

APPLICATION OF HARVEY E. YATES
COMPANY FOR COMPULSORY POOLING,
CHAVES COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 24, 1981, and was continued, readvertised, and reopened on December 22, 1981, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 7th day of January, 1982, the Commission having considered the testimony and the exhibits, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Harvey E. Yates Company, seeks an order pooling all mineral interests down through the Ordovician formation underlying the W/2 of Section 18, Township 9 South, Range 27 East, NMPM, Chaves County, New Mexico.
- (3) That the applicant has the right to drill and proposes to drill a well at a standard location on said 320-acre tract.
- (4) That there are interest owners in the proposed proration unit who have not agreed to pool their interests.
- (5) That to avoid the drilling of unnecessary wells, to protect correlative rights, and to afford to the owner of each interest in said unit the opportunity to recover or receive without unnecessary expense his just and fair share of the gas in said pool, the subject application should be approved by pooling all mineral interests, whatever they may be, within said unit.

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-2-

Case No. 7390
Order No. R-6873

(6) That the applicant should be designated the operator of the subject well and unit.

(7) That any non-consenting working interest owner should be afforded the opportunity to pay his share of estimated well costs to the operator in lieu of paying his share of reasonable well costs out of production.

(8) That any non-consenting working interest owner who does not pay his share of estimated well costs should have withheld from production his share of the reasonable well costs plus an additional 200 percent thereof as a reasonable charge for the risk involved in the drilling of the well.

(9) That any non-consenting interest owner should be afforded the opportunity to object to the actual well costs but that actual well costs should be adopted as the reasonable well costs in the absence of such objection.

(10) That following determination of reasonable well costs, any non-consenting working interest owner who has paid his share of estimated costs should pay to the operator any amount that reasonable well costs exceed estimated well costs and should receive from the operator any amount that paid estimated well costs exceed reasonable well costs.

(11)) That \$3550.00 per month while drilling and \$355.00 per month while producing should be fixed as reasonable charges for supervision (combined fixed rates); that the operator should be authorized to withhold from production the proportionate share of such supervision charges attributable to each non-consenting working interest, and in addition thereto, the operator should be authorized to withhold from production the proportionate share of actual expenditures required for operating the subject well, not in excess of what are reasonable, attributable to each non-consenting working interest.

(12) That all proceeds from production from the subject well which are not disbursed for any reason should be placed in escrow to be paid to the true owner thereof upon demand and proof of ownership.

(13) That upon the failure of the operator of said pooled unit to commence drilling of the well to which said unit is dedicated on or before March 1, 1982, the order pooling said unit should become null and void and of no effect whatsoever.

-3-

Case No. 7390
Order No. R-6873

IT IS THEREFORE ORDERED:

(1) That all mineral interests, whatever they may be, down through the Ordovician formation underlying the W/2 of Section 18, Township 9 South, Range 27 East, NMPM, Chaves County, New Mexico, are hereby pooled to form a standard 320-acre gas spacing and proration unit to be dedicated to a well to be drilled at a standard location on said 320-acre tract.

PROVIDED HOWEVER, that the operator of said unit shall commence the drilling of said well on or before the 1st day of March, 1982, and shall thereafter continue the drilling of said well with due diligence to a depth sufficient to test the Ordovician formation;

PROVIDED FURTHER, that in the event said operator does not commence the drilling of said well on or before the 1st day of March, 1982, Order (1) of this order shall be null and void and of no effect whatsoever, unless said operator obtains a time extension from the Oil Conservation Division for good cause shown.

PROVIDED FURTHER, that should said well not be drilled to completion, or abandonment, within 120 days after commencement thereof, said operator shall appear before the Division Director and show cause why Order (1) of this order should not be rescinded.

(2) That Harvey E. Yates Company is hereby designated the operator of the subject well and unit.

(3) That within 20 days after the effective date of this order, the operator shall furnish the Division and each known working interest owner in the subject unit an itemized schedule of estimated well costs.

(4) That within 15 days from the date the schedule of estimated well costs is furnished to him, any non-consenting working interest owner shall have the right to pay his share of estimated well costs to the operator in lieu of paying his share of reasonable well costs out of production, and that any such owner who pays his share of estimated well costs as provided above shall remain liable for operating costs but shall not be liable for risk charges.

(5) That the operator shall furnish the Division and each known working interest owner an itemized schedule of actual well costs within 90 days following completion of the well; that if no objection to the actual well costs is received by the Division and the Division has not objected within 45 days

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Case No. 7390
Order No. R-6873

following receipt of said schedule, the actual well costs shall be the reasonable well costs; provided however, that if there is an objection to actual well costs within said 45-day period the Division will determine reasonable well costs after public notice and hearing.

(6) That within 60 days following determination of reasonable well costs, any non-consenting working interest owner who has paid his share of estimated costs in advance as provided above shall pay to the operator his pro rata share of the amount that reasonable well costs exceed estimated well costs and shall receive from the operator his pro rata share of the amount that estimated well costs exceed reasonable well costs.

(7) That the operator is hereby authorized to withhold the following costs and charges from production:

(A) The pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(B) As a charge for the risk involved in the drilling of the well, 200 percent of the pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(8) That the operator shall distribute said costs and charges withheld from production to the parties who advanced the well costs.

(9) That \$3550.00 per month while drilling and \$355.00 per month while producing are hereby fixed as reasonable charges for supervision (combined fixed rates); that the operator is hereby authorized to withhold from production the proportionate share of such supervision charges attributable to each non-consenting working interest, and in addition thereto, the operator is hereby authorized to withhold from production the proportionate share of actual expenditures required for operating such well, not in excess of what are reasonable, attributable to each non-consenting working interest.

(10) That any unsevered mineral interest shall be considered a seven-eighths (7/8) working interest and a

-5-

Case No. 7390
Order No. R-6873

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one-eighth (1/8) royalty interest for the purpose of allocating costs and charges under the terms of this order.

(11) That any well costs or charges which are to be paid out of production shall be withheld only from the working interest's share of production, and no costs or charges shall be withheld from production attributable to royalty interests.

(12) That all proceeds from production from the subject well which are not disbursed for any reason shall immediately be placed in escrow in Chaves County, New Mexico, to be paid to the true owner thereof upon demand and proof of ownership; that the operator shall notify the Division of the name and address of said escrow agent within 30 days from the date of first deposit with said escrow agent.

(13) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

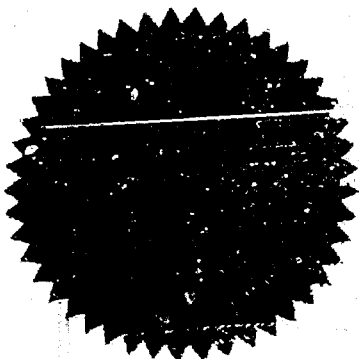
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


EMERY C. ARNOLD, Chairman

ALEX J. ARMIJO, Member


JOE D. RAMEY, Member & Secretary



S E A L

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36

Handwritten notes on map:

- 370 acres* (near section 6)
- 325' 41' adms* (near section 8)
- 41.40*, *41.30*, *41.27*, *41.22*, *650.4*, *63.60* (near section 12)
- 9 27* (near section 16)
- WOLAND 8 1/2* (near section 14)
- 2390*, *HEXCO*, *11-24-81* (near section 31)

Numbers on federal leases indicate following:
(1) Primary term.

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Seymour State #1

A.A.P.L. FORM 610-1977

MODEL FORM OPERATING AGREEMENT

SEYMOUR STATE
WORKING INTEREST UNIT

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OPERATING AGREEMENT

DATED

September 18, 19 81.

OPERATOR HARVEY E. YATES COMPANY

CONTRACT AREA Township 9 South, Range 27 East, N.M.P.M.
Section 18: Lots 1, 2, 3, 4, E/2 W/2,
E/2

Containing 645.04 acres, more or less

COUNTY OR PARISH OF CHAVES

STATE OF NEW MEXICO

BEFORE THE	
OIL COMMISSION COMMISSION	
COUNTY OF CHAVES, NEW MEXICO	
CONTRACT NO. 7370	Page 2
Signed by HEYCO	
Date 11-24-81	

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AMERICAN ASSOCIATION OF PETROLEUM LANDMEN

APPROVED FORM - A.A.P.L. NO. 610 - 1977 REVISED

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OPERATING AGREEMENT

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THIS AGREEMENT, entered into by and between HARVEY E. YATES COMPANY, hereinafter designated and referred to as "Operator", and the signatory party or parties other than Operator, hereinafter referred to individually herein as "Non-Operator", and collectively as "Non-Operators",

WITNESSETH:

WHEREAS, the parties to this agreement are owners of oil and gas leases and/or oil and gas interests in the land identified in Exhibit "A", and the parties hereto have reached an agreement to explore and develop these leases and/or oil and gas interests for the production of oil and gas to the extent and as hereinafter provided;

NOW, THEREFORE, it is agreed as follows:

ARTICLE I DEFINITIONS

As used in this agreement, the following words and terms shall have the meanings here ascribed to them:

A. The term "oil and gas" shall mean oil, gas, casinghead gas, gas condensate, and all other liquid or gaseous hydrocarbons and other marketable substances produced therefrom, unless an intent to limit the inclusiveness of this term is specifically stated.

B. The terms "oil and gas lease", "lease" and "leasehold" shall mean the oil and gas lease covering tracts of land lying within the Contract Area which are owned by the parties to this agreement.

C. The term "oil and gas interests" shall mean undivided fee and mineral interests in tracts of land lying within the Contract Area which are owned by parties to this agreement.

D. The term "Contract Area" shall mean all of the land, oil and gas leasehold interests and oil and gas interests intended to be developed and operated for oil and gas purposes under this agreement. Such lands, oil and gas leasehold interests and oil and gas interests are described in Exhibit "A".

E. The term "drilling unit" shall mean the area fixed for the drilling of one well by order or rule of any state or federal body having authority. If a drilling unit is not fixed by any such rule or order, a drilling unit shall be the drilling unit as established by the pattern of drilling in the Contract Area or as fixed by express agreement of the Drilling Parties.

F. The term "drillsite" shall mean the oil and gas lease or interest on which a proposed well is to be located.

G. The terms "Drilling Party" and "Consenting Party" shall mean a party who agrees to join in and pay its share of the cost of any operation conducted under the provisions of this agreement.

H. The terms "Non-Drilling Party" and "Non-Consenting Party" shall mean a party who elects not to participate in a proposed operation.

Unless the context otherwise clearly indicates, words used in the singular include the plural, the plural includes the singular, and the neuter gender includes the masculine and the feminine.

ARTICLE II EXHIBITS

The following exhibits, as indicated below and attached hereto, are incorporated in and made a part hereof:

☒ A. Exhibit "A", shall include the following information:

- (1) Identification of lands subject to agreement.
- (2) Restrictions, if any, as to depth or formation.
- (3) Percentages or fractional interests of parties to this agreement.
- (4) Oil and gas leases and/or oil and gas interests subject to this agreement.
- (5) Addresses of parties for notice purposes.

☐ B. Exhibit "B", Form of Lease.

☒ C. Exhibit "C", Accounting Procedure.

☒ D. Exhibit "D", Insurance.

☒ E. Exhibit "E", Gas Balancing Agreement.

☒ F. Exhibit "F", Non-Discrimination and Certification of Non-Segregated Facilities.

☒ G. Exhibit "G", Escrow Agreement.

If any provision of any exhibit, except Exhibit "E", is inconsistent with any provision contained in the body of this agreement, the provisions in the body of this agreement shall prevail.

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ARTICLE III INTERESTS OF PARTIES

A. Oil and Gas Interests:

If any party owns an unleased oil and gas interest in the Contract Area, that interest shall be treated for the purpose of this agreement and during the term hereof as if it were a leased interest under the form of oil and gas lease attached as Exhibit "B". As to such interest, the owner shall receive royalty on production as prescribed in the form of oil and gas lease attached hereto as Exhibit "B". Such party shall, however, be subject to all of the provisions of this agreement relating to lessees, to the extent that it owns the lessee interest.

B. Interest of Parties in Costs and Production:

Exhibit "A" lists all of the parties and their respective percentage or fractional interests under this agreement. Unless changed by other provisions, all costs and liabilities incurred in operations under this agreement shall be borne and paid, and all equipment and material acquired in operations on the Contract Area shall be owned by the parties as their interests are shown in Exhibit "A". All production of oil and gas from the Contract Area, subject to the payment of lessor's royalties ~~which will be borne by the lessor~~, shall also be owned by the parties in the same manner during the term hereof; provided, however, this shall not be deemed an assignment or cross-assignment of interests covered hereby.

ARTICLE IV TITLES

A. Title Examination:

Title examination shall be made on the drillsite of any proposed well prior to commencement of drilling operations or, if the Drilling Parties so request, title examination shall be made on the leases and/or oil and gas interests included, or planned to be included, in the drilling unit around such well. The opinion will include the ownership of the working interest, minerals, royalty overriding royalty and production payments under the applicable leases. At the time a well is proposed, each party contributing leases and/or oil and gas interests to the drillsite, or to be included in such drilling unit, shall furnish to Operator all abstracts (including Federal Lease Status Reports), title opinions, title papers and curative material in its possession free of charge. All such information not in the possession of or made available to Operator by the parties, but necessary for the examination of title, shall be obtained by Operator. Operator shall cause title to be examined by attorneys on its staff or by outside attorneys. Copies of all title opinions shall be furnished to each party hereto. The cost incurred by Operator in this title program shall be borne as follows:

~~Option No. 1: Costs incurred by Operator in procuring abstracts and title examination (including preliminary, supplemental, shut-in gas royalty opinions and division order title opinions) shall be a part of the administrative overhead as provided in Exhibit "C," and shall not be a direct charge, whether performed by Operator's staff attorneys or by outside attorneys.~~

X Option No. 2: Costs incurred by Operator in procuring abstracts and fees paid outside attorneys for title examination (including preliminary, supplemental, shut-in gas royalty opinions and division order title opinions) shall be borne by the Drilling Parties in the proportion that the interest of each Drilling Party bears to the total interest of all Drilling Parties as such interests appear in Exhibit "A". Operator shall make no charge for services rendered by its staff attorneys or other personnel in the performance of the above functions.

Each party shall be responsible for securing curative matter and pooling amendments or agreements required in connection with leases or oil and gas interests contributed by such party. The Operator shall be responsible for the preparation and recording of Pooling Designations or Declarations as well as the conduct of hearings before Governmental Agencies for the securing of spacing or pooling orders. This shall not prevent any party from appearing on its own behalf at any such hearing.

No well shall be drilled on the Contract Area until after (1) the title to the drillsite or drilling unit has been examined as above provided, and (2) the title has been approved by the examining attorney or title has been accepted by all of the parties who are to participate in the drilling of the well.

B. Loss of Title:

1 Failure of Title: Should any oil and gas interest or lease, or interest therein, be lost through failure of title, which loss results in a reduction of interest from that shown on Exhibit "A", this agreement, nevertheless, shall continue in force as to all remaining oil and gas leases and interests, and

(a) The party whose oil and gas lease or interest is affected by the title failure shall bear alone the entire loss and it shall not be entitled to recover from Operator or the other parties any development

or operating costs which it may have theretofore paid, but there shall be no monetary liability on its part to the other parties hereto for drilling, development, operating or other similar costs by reason of such title failure; and

(b) There shall be no retroactive adjustment of expenses incurred or revenues received from the operation of the interest which has been lost, but the interests of the parties shall be revised on an acreage basis, as of the time it is determined finally that title failure has occurred, so that the interest of the party whose lease or interest is affected by the title failure will thereafter be reduced in the Contract Area by the amount of the interest lost; and

(c) If the proportionate interest of the other parties hereto in any producing well theretofore drilled on the Contract Area is increased by reason of the title failure, the party whose title has failed shall receive the proceeds attributable to the increase in such interests (less costs and burdens attributable thereto) until it has been reimbursed for unrecovered costs paid by it in connection with such well; and

(d) Should any person not a party to this agreement, who is determined to be the owner of any interest in the title which has failed, pay in any manner any part of the cost of operation, development, or equipment, such amount shall be paid to the party or parties who bore the costs which are so refunded; and

(e) Any liability to account to a third party for prior production of oil and gas which arises by reason of title failure shall be borne by the party or parties in the same proportions in which they shared in such prior production; and

(f) No charge shall be made to the joint account for legal expenses, fees or salaries, in connection with the defense of the interest claimed by any party hereto, it being the intention of the parties hereto that each shall defend title to its interest and bear all expenses in connection therewith.

2. Loss by Non-Payment or Erroneous Payment of Amount Due: If, through mistake or oversight, any rental, shut-in well payment, minimum royalty or royalty payment, is not paid or is erroneously paid, and as a result a lease or interest therein terminates, there shall be no monetary liability against the party who failed to make such payment. Unless the party who failed to make the required payment secures a new lease covering the same interest within ninety (90) days from the discovery of the failure to make proper payment, which acquisition will not be subject to Article VIII.B., the interests of the parties shall be revised on an acreage basis, effective as of the date of termination of the lease involved, and the party who failed to make proper payment will no longer be credited with an interest in the Contract Area on account of ownership of the lease or interest which has terminated. In the event the party who failed to make the required payment shall not have been fully reimbursed, at the time of the loss, from the proceeds of the sale of oil and gas attributable to the lost interest, calculated on an acreage basis, for the development and operating costs theretofore paid on account of such interest, it shall be reimbursed for unrecovered actual costs theretofore paid by it (but not for its share of the cost of any dry hole previously drilled or wells previously abandoned) from so much of the following as is necessary to effect reimbursement:

(a) Proceeds of oil and gas, less operating expenses, theretofore accrued to the credit of the lost interest, on an acreage basis, up to the amount of unrecovered costs;

(b) Proceeds, less operating expenses, thereafter accrued attributable to the lost interest on an acreage basis, of that portion of oil and gas thereafter produced and marketed (excluding production from any wells thereafter drilled) which, in the absence of such lease termination, would be attributable to the lost interest on an acreage basis, up to the amount of unrecovered costs, the proceeds of said portion of the oil and gas to be contributed by the other parties in proportion to their respective interests; and

(c) Any monies, up to the amount of unrecovered costs, that may be paid by any party who is, or becomes, the owner of the interest lost, for the privilege of participating in the Contract Area or becoming a party to this agreement.

3. Other Losses: All losses incurred, other than those set forth in Articles IV.B.1. and IV.B.2. above, shall not be considered failure of title but shall be joint losses and shall be borne by all parties in proportion to their interests. There shall be no readjustment of interests in the remaining portion of the Contract Area.

ARTICLE V. OPERATOR

A. DESIGNATION AND RESPONSIBILITIES OF OPERATOR:

HARVEY E. YATES COMPANY shall be the Operator of the Contract Area, and shall conduct and direct and have full control of all operations on the Contract Area as permitted and required by, and within the limits of, this agreement. It shall conduct all such operations in a good and workmanlike manner, but it shall have no liability as Operator to the other parties for losses sustained or liabilities incurred, except such as may result from gross negligence or willful misconduct.

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B. Resignation or Removal of Operator and Selection of Successor:

1. **Resignation or Removal of Operator:** Operator may resign at any time by giving written notice thereof to Non-Operators. If Operator terminates its legal existence, no longer owns an interest in the Contract Area, or is no longer capable of serving as Operator, it shall cease to be Operator without any action by Non-Operator, except the selection of a successor. Operator may be removed if it fails or refuses to carry out its duties hereunder, or becomes insolvent, bankrupt or is placed in receivership by the affirmative vote of two (2) or more Non-Operators owning a majority interest based on ownership as shown on Exhibit "A", and not on the number of parties remaining after excluding the voting interest of Operator. Such resignation or removal shall not become effective until 7:00 o'clock A.M. on the first day of the calendar month following the expiration of ninety (90) days after the giving of notice of resignation by Operator or action by the Non-Operators to remove Operator, unless a successor Operator has been selected and assumes the duties of Operator at an earlier date. Operator, after effective date of resignation or removal, shall be bound by the terms hereof as a Non-Operator. A change of a corporate name or structure of Operator or transfer of Operator's interest to any single subsidiary, parent or successor corporation shall not be the basis for removal of Operator.

2. **Selection of Successor Operator:** Upon the resignation or removal of Operator, a successor Operator shall be selected by the Parties. The successor Operator shall be selected from the parties owning an interest in the Contract Area at the time such successor Operator is selected. If the Operator that is removed fails to vote or votes only to succeed itself, the successor Operator shall be selected by the affirmative vote of two (2) or more parties owning a majority interest based on ownership as shown on Exhibit "A", and not on the number of parties remaining after excluding the voting interest of the Operator that was removed.

C. Employees:

The number of employees used by Operator in conducting operations hereunder, their selection, and the hours of labor and the compensation for services performed, shall be determined by Operator, and all such employees shall be the employees of Operator.

D. Drilling Contracts:

All wells drilled on the Contract Area shall be drilled on a competitive contract basis at the usual rates prevailing in the area. If it so desires, Operator may employ its own tools and equipment in the drilling of wells, but its charges therefor shall not exceed the prevailing rates in the area and the rate of such charges shall be agreed upon by the parties in writing before drilling operations are commenced, and such work shall be performed by Operator under the same terms and conditions as are customary and usual in the area in contracts of independent contractors who are doing work of a similar nature.

ARTICLE VI DRILLING AND DEVELOPMENT

A. Initial Well:

On or before the 31st day of December, 1981, Operator shall commence the drilling of a well for oil and gas at the following location:

SW/4 NW/4,
Section 18, Township 9 South, Range 27 East.
Chaves County, New Mexico

and shall thereafter continue the drilling of the well with due diligence to a depth adequate to test the Mississippian formation or to a depth of 6,350', whichever is shallower,

unless granite or other practically impenetrable substance or condition in the hole, which renders further drilling impractical, is encountered at a lesser depth, or unless all parties agree to complete or abandon the well at a lesser depth. Operators only liability for failure to commence said test well shall be the ipso facto termination of this agreement.

Operator shall make reasonable tests of all formations encountered during drilling which give indication of containing oil and gas in quantities sufficient to test, unless this agreement shall be limited in its application to a specific formation or formations, in which event Operator shall be required to test only the formation or formations to which this agreement may apply.

If, in Operator's judgment, the well will not produce oil or gas in paying quantities, and it wishes to plug and abandon the well as a dry hole, it shall first secure the consent of all parties and shall plug and abandon same as provided in Article VII.E.I. hereof.

B. Subsequent Operations:

1. Proposed Operations: Should any party hereto desire to drill any well on the Contract Area other than the well provided for in Article VI.A., or to rework, deepen or plug back a dry hole drilled at the joint expense of all parties or a well jointly owned by all the parties and not then producing in paying quantities, the party desiring to drill, rework, deepen or plug back such a well shall give the other parties written notice of the proposed operation, specifying the work to be performed, the location, proposed depth, objective formation and the estimated cost of the operation. The parties receiving such a notice shall have thirty (30) days after receipt of the notice within which to notify the parties wishing to do the work whether they elect to participate in the cost of the proposed operation. If a drilling rig is on location, notice of proposal to rework, plug back or drill deeper may be given by telephone and the response period shall be limited to forty-eight (48) hours, exclusive of Saturday, Sunday or legal holidays. Failure of a party receiving such notice to reply within the period above fixed shall constitute an election by that party not to participate in the cost of the proposed operation. Any notice or response given by telephone shall be promptly confirmed in writing.

2. Operations by Less than All Parties: If any party receiving such notice as provided in Article VI.B.1. or VI.E.1. elects not to participate in the proposed operation, then, in order to be entitled to the benefits of this article, the party or parties giving the notice and such other parties as shall elect to participate in the operation shall, within sixty (60) days after the expiration of the notice period of thirty (30) days (or as promptly as possible after the expiration of the forty-eight (48) hour period where the drilling rig is on location, as the case may be) actually commence work on the proposed operation and complete it with due diligence. Operator shall perform all work for the account of the Consenting Parties; provided, however, if no drilling rig or other equipment is on location, and if Operator is a Non-Consenting Party, the Consenting Parties shall either: (a) request Operator to perform the work required by such proposed operation for the account of the Consenting Parties, or (b) designate one (1) of the Consenting Parties as Operator to perform such work. Consenting Parties, when conducting operations on the Contract Area pursuant to this Article VI.B.2., shall comply with all terms and conditions of this agreement.

If less than all parties approve any proposed operation, the proposing party, immediately after the expiration of the applicable notice period, shall advise the Consenting Parties of (a) the total interest of the parties approving such operation, and (b) its recommendation as to whether the Consenting Parties should proceed with the operation as proposed. Each Consenting Party, within forty-eight (48) hours (exclusive of Saturday, Sunday or legal holidays) after receipt of such notice, shall advise the proposing party of its desire to (a) limit participation to such party's interest as shown on Exhibit "A", or (b) carry its proportionate part of Non-Consenting Parties' interest. The proposing party, at its election, may withdraw such proposal if there is insufficient participation, and shall promptly notify all parties of such decision.

The entire cost and risk of conducting such operations shall be borne by the Consenting Parties in the proportions they have elected to bear same under the terms of the preceding paragraph. Consenting Parties shall keep the leasehold estates involved in such operations free and clear of all liens and encumbrances of every kind created by or arising from the operations of the Consenting Parties. If such an operation results in a dry hole, the Consenting Parties shall plug and abandon the well at their sole cost, risk and expense. If any well drilled, reworked, deepened or plugged back under the provisions of this Article results in a producer of oil and or gas in paying quantities, the Consenting Parties shall complete and equip the well to produce at their sole cost and risk, and the well shall then be turned over to Operator and shall be operated by it at the expense and for the account of the Consenting Parties. Upon commencement of operations for the drilling, reworking, deepening or plugging back of any such well by Consenting Parties in accordance with the provisions of this Article, each Non-Consenting Party shall be deemed to have relinquished to Consenting Parties, and the Consenting Parties shall own and be entitled to receive, in proportion to their respective interests, all of such Non-Consenting Party's interest in the well and share of production therefrom until the proceeds of the sale of such share, calculated at the well, or market value thereof if such share is not sold (after deducting production taxes, ~~royalty, overriding royalty~~ ^{windfall profits tax,} and other interests existing on the effective date hereof, payable out of or measured by the production from such well accruing with respect to such interest until it reverts) shall equal the total of the following:

(a) 100% of each such Non-Consenting Party's share of the cost of any newly acquired surface equipment beyond the wellhead connections (including, but not limited to, stock tanks, separators, treaters, pumping equipment and piping), plus 100% of each such Non-Consenting Party's share of the cost of operation of the well commencing with first production and continuing until each such Non-Consenting Party's relinquished interest shall revert to it under other provisions of this Article, it being agreed that each Non-Consenting Party's share of such costs and equipment will be that interest which would have been chargeable to each Non-Consenting Party had it participated in the well from the beginning of the operation; and

(b) 300% of that portion of the costs and expenses of drilling, reworking, deepening, or plugging back, testing and completing, after deducting any cash contributions received under Article VIII.C., and

1 300 % of that portion of the cost of newly acquired equipment in the well (to and including the well-
2 head connections), which would have been chargeable to such Non-Consenting Party if it had partici-
3 pated therein.

4
5 Gas production attributable to any Non - Consenting Party's relinquished interest upon such Party's
6 election, shall be sold to its purchaser, if available, under the terms of its existing gas sales con-
7 tract. Such Non - Consenting Party shall direct its purchaser to remit the proceeds receivable from
8 such sale direct to the Consenting Parties until the amounts provided for in this Article are recov-
9 ered from the Non - Consenting Party's relinquished interest. If such Non - Consenting Party has not
10 contracted for sale of its gas at the time such gas is available for delivery, or has not made the elec-
11 tion as provided above, the Consenting Parties shall own and be entitled to receive and sell such Non-
12 Consenting Party's share of gas as hereinabove provided during the recoupment period.

13
14 During the period of time Consenting Parties are entitled to receive Non-Consenting Party's share
15 of production, or the proceeds therefrom, Consenting Parties shall be responsible for the payment of
16 all production, severance, gathering/~~windfall profits tax,~~ and other taxes, and all royalty, overriding royalty and other
17 burdens applicable to Non-Consenting Party's share of production.

18
19 In the case of any reworking, plugging back or deeper drilling operation, the Consenting Parties shall
20 be permitted to use, free of cost, all casing, tubing and other equipment in the well, but the ownership of
21 all such equipment shall remain unchanged; and upon abandonment of a well after such reworking,
22 plugging back or deeper drilling, the Consenting Parties shall account for all such equipment to the
23 owners thereof, with each party receiving its proportionate part in kind or in value, less cost of
24 salvage.

25
26 Within sixty (60) days after the completion of any operation under this Article, the party con-
27 ducting the operations for the Consenting Parties shall furnish each Non-Consenting Party with an in-
28 ventory of the equipment in and connected to the well, and an itemized statement of the cost of drilling,
29 deepening, plugging back, testing, completing, and equipping the well for production; or, at its option,
30 the operating party, in lieu of an itemized statement of such costs of operation, may submit a detailed
31 statement of monthly billings. Each month thereafter, during the time the Consenting Parties are being
32 reimbursed as provided above, the Party conducting the operations for the Consenting Parties shall furn-
33 ish the Non-Consenting Parties with an itemized statement of all costs and liabilities incurred in the
34 operation of the well, together with a statement of the quantity of oil and gas produced from it and the
35 amount of proceeds realized from the sale of the well's working interest production during the preceding
36 month. In determining the quantity of oil and gas produced during any month, Consenting Parties
37 shall use industry accepted methods such as, but not limited to, metering or periodic well tests. Any
38 amount realized from the sale or other disposition of equipment newly acquired in connection with any
39 such operation which would have been owned by a Non-Consenting Party had it participated therein
40 shall be credited against the total unreturned costs of the work done and of the equipment purchased,
41 in determining when the interest of such Non-Consenting Party shall revert to it as above provided;
42 and if there is a credit balance, it shall be paid to such Non-Consenting party.

43 On the first day of the month, following that month in which
44 ~~and when~~ the Consenting Parties recover from a Non-Consenting Party's relinquished interest
45 the amounts provided for above, the relinquished interests of such Non-Consenting Party shall auto-
46 matically revert to it, and, from and after such reversion, such Non-Consenting Party shall own the same
47 interest in such well, the material and equipment in or pertaining thereto, and the production there-
48 from as such Non-Consenting Party would have been entitled to had it participated in the drilling,
49 reworking, deepening or plugging back of said well. Thereafter, such Non-Consenting Party shall be
50 charged with and shall pay its proportionate part of the further costs of the operation of said well in
51 accordance with the terms of this agreement and the Accounting Procedure, attached hereto.

52
53 Notwithstanding the provisions of this Article VI.B.2, it is agreed that without the mutual consent
54 of all parties, no wells shall be completed in or produced from a source of supply from which a well
55 located elsewhere on the Contract Area is producing, unless such well conforms to the then-existing
56 well spacing pattern for such source of supply.

57
58 The provisions of this Article shall have no application whatsoever to the drilling of the initial
59 well described in Article VI.A. except (a) when Option 2, Article VII.D.1., has been selected, or (b)
60 to the reworking, deepening and plugging back of such initial well, if such well is or thereafter shall
61 prove to be a dry hole or non-commercial well, after having been drilled to the depth specified in Article
62 VI.A.

63 C. Right to Take Production in Kind:

64
65 Each party shall have the right to take in kind or separately dispose of its proportionate share of
66 all oil and gas produced from the Contract Area, exclusive of production which may be used in de-
67 velopment and producing operations and in preparing and treating oil for marketing purposes and
68 production unavoidably lost. Any extra expenditure incurred in the taking in kind or separate dispo-
69

party taking its share of production in kind shall be required to pay for only its proportionate share of such part of Operator's surface facilities which it uses.

Each party shall execute such division orders and contracts as may be necessary for the sale of its interest in production from the Contract Area, and, except as provided in Article VII.B., shall be entitled to receive payment direct from the purchaser thereof for its share of all production.

In the event any party shall fail to make the arrangements necessary to take in kind or separately dispose of its proportionate share of the oil and gas produced from the Contract Area, Operator shall have the right, subject to the revocation at will by the party owning it, but not the obligation, to purchase such oil and gas or sell it to others at any time and from time to time, for the account of the non-taking party at the best price obtainable in the area for such production. Any such purchase or sale by Operator shall be subject always to the right of the owner of the production to exercise at any time its right to take in kind, or separately dispose of, its share of all oil and gas not previously delivered to a purchaser. Any purchase or sale by Operator of any other party's share of oil and gas shall be only for such reasonable periods of time as are consistent with the minimum needs of the industry under the particular circumstances, but in no event for a period in excess of one (1) year. Notwithstanding the foregoing, Operator shall not make a sale, including one into interstate commerce, of any other party's share of gas production without first giving such other party thirty (30) days notice of such intended sale.

In the event one or more parties' separate disposition of its share of the gas causes split-stream deliveries to separate pipelines and or deliveries which on a day-to-day basis for any reason are not exactly equal to a party's respective proportionate share of total gas sales to be allocated to it, the balancing or accounting between the respective accounts of the parties shall be in accordance with any Gas Balancing Agreement between the parties hereto, whether such Agreement is attached as Exhibit "E", or is a separate Agreement.

D. Access to Contract Area and Information: or its representative

Each party shall have access to the Contract Area at all reasonable times, at its sole risk to inspect or observe operations, and shall have access at reasonable times to information pertaining to the development or operation thereof, including Operator's books and records relating thereto. Operator, upon request, shall furnish each of the other parties with copies of all forms or reports filed with governmental agencies, daily drilling reports, well logs, tank tables, daily gauge and run tickets and reports of stock on hand at the first of each month, and shall make available samples of any cores or cuttings taken from any well drilled on the Contract Area. The cost of gathering and furnishing information to Non-Operator, other than that specified above, shall be charged to the Non-Operator that requests the information.

E. Abandonment of Wells:

1. **Abandonment of Dry Holes:** Except for any well drilled pursuant to Article VI.B.2., any well which has been drilled under the terms of this agreement and is proposed to be completed as a dry hole shall not be plugged and abandoned without the consent of all parties. Should Operator, after diligent effort, be unable to contact any party, or should any party fail to reply within forty-eight (48) hours (exclusive of Saturday, Sunday or legal holidays) after receipt of notice of the proposal to plug and abandon such well, such party shall be deemed to have consented to the proposed abandonment. All such wells shall be plugged and abandoned in accordance with applicable regulations and at the cost, risk and expense of the parties who participated in the cost of drilling of such well. Any party who objects to the plugging and abandoning such well shall have the right to take over the well and conduct further operations in search of oil and or gas subject to the provisions of Article VI.B.

2. **Abandonment of Wells that have Produced:** Except for any well which has been drilled or re-worked pursuant to Article VI.B.2. hereof for which the Consenting Parties have not been fully reimbursed as therein provided, any well which has been completed as a producer shall not be plugged and abandoned without the consent of all parties. If all parties consent to such abandonment, the well shall be plugged and abandoned in accordance with applicable regulations and at the cost, risk and expense of all the parties hereto. If, within thirty (30) days after receipt of notice of the proposed abandonment of such well, all parties do not agree to the abandonment of any well, those wishing to continue its operation shall tender to each of the other parties its proportionate share of the value of the well's salvable material and equipment, determined in accordance with the provisions of Exhibit "C", less the estimated cost of salvaging and the estimated cost of plugging and abandoning. Each abandoning party shall assign to the non-abandoning parties, without warranty, express or implied, as to title or as to quantity, quality, or fitness for use of the equipment and material, all of its interest in the well and related equipment, together with its interest in the leasehold estate as to, but only as to, the interval or intervals of the formation or formations then open to production. If the interest of the abandoning party is or includes an oil and gas interest, such party shall execute and deliver to the non-abandoning party or parties an oil and gas lease, limited to the interval or intervals of the formation or formations then open to production, for a term of one year and so long thereafter as oil and or gas is produced from the interval or inter-

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1 vads of the formation or formations covered thereby, such lease to be on the form attached as Exhibit
2 "B". The assignments or leases so limited shall encompass the "drilling unit" upon which the well is
3 located. The payments by, and the assignments or leases to, the assignees shall be in a ratio based upon
4 the relationship of their respective percentages of participation in the Contract Area to the aggregate of
5 the percentages of participation in the Contract Area of all assignees. There shall be no readjustment
6 of interest in the remaining portion of the Contract Area.

7
8 Thereafter, abandoning parties shall have no further responsibility, liability, or interest in the op-
9 eration of or production from the well in the interval or intervals then open other than the royalties
10 retained in any lease made under the terms of this Article. Upon request, Operator shall continue to
11 operate the assigned well for the account of the non-abandoning parties at the rates and charges con-
12 templated by this agreement, plus any additional cost and charges which may arise as the result of
13 the separate ownership of the assigned well.

14 15 **ARTICLE VII.** 16 **EXPENDITURES AND LIABILITY OF PARTIES**

17 18 **A. Liability of Parties:**

19
20 The liability of the parties shall be several, not joint or collective. Each party shall be responsible
21 only for its obligations, and shall be liable only for its proportionate share of the costs of developing
22 and operating the Contract Area. Accordingly, the liens granted among the parties in Article VII.B. are
23 given to secure only the debts of each severally. It is not the intention of the parties to create, nor shall
24 this agreement be construed as creating, a mining or other partnership or association, or to render the
25 parties liable as partners.

26 27 **B. Liens and Payment Defaults:**

28
29 Each Non-Operator grants to Operator a lien upon its oil and gas rights in the Contract Area, and a
30 security interest in its share of oil and or gas when extracted and its interest in all equipment, to secure
31 payment of its share of expense, together with interest thereon at the rate provided in the Accounting
32 Procedure attached hereto as Exhibit "C". To the extent that Operator has a security interest under the
33 Uniform Commercial Code of the State, Operator shall be entitled to exercise the rights and remedies
34 of a secured party under the Code. The bringing of a suit and the obtaining of judgment by Operator
35 for the secured indebtedness shall not be deemed an election of remedies or otherwise affect the lien
36 rights or security interest as security for the payment thereof. In addition, upon default by any Non-
37 Operator in the payment of its share of expense, Operator shall have the right, without prejudice to
38 other rights or remedies, to collect from the purchaser the proceeds from the sale of such Non-Operator's
39 share of oil and or gas until the amount owed by such Non-Operator, to include interest on the
40 deficiency and, if suit is brought to collect any deficiency, reasonable attorney's
41 fees, has been paid. Each purchaser shall be entitled to rely upon Operator's
42 written statement concerning the amount of any default. Operator grants a like lien
43 and security interest to the Non-Operators to secure payment of Operator's propor-
44 tionate share of expense.

44 If any party fails or is unable to pay its share of expense within sixty (60) days after rendition of
45 a statement therefor by Operator, the non-defaulting parties, including Operator, shall, upon request by
46 Operator, pay the unpaid amount in the proportion that the interest of each such party bears to the in-
47 terest of all such parties. Each party so paying its share of the unpaid amount shall, to obtain reimburse-
48 ment thereof, be subrogated to the security rights described in the foregoing paragraph.

49 50 **C. Payments and Accounting:**

51
52 Except as herein otherwise specifically provided, Operator shall promptly pay and discharge expenses
53 incurred in the development and operation of the Contract Area pursuant to this agreement and shall
54 charge each of the parties hereto with their respective proportionate shares upon the expense basis pro-
55 vided in the Accounting Procedure attached hereto as Exhibit "C". Operator shall keep an accurate
56 record of the joint account hereunder, showing expenses incurred and charges and credits made and
57 received.

58
59 Operator, at its election, shall have the right from time to time to demand and receive from the
60 other parties payment in advance of their respective shares of the estimated amount of the expense to
61 be incurred in operations hereunder during the next succeeding month, which right may be exercised only
62 by submission to each such party of an itemized statement of such estimated expense, together with
63 an invoice for its share thereof. Each such statement and invoice for the payment in advance of esti-
64 mated expense shall be submitted on or before the 20th day of the next preceding month. Each party
65 shall pay to Operator its proportionate share of such estimate within thirty (30) days after such es-
66 timate and invoice is received. If any party fails to pay its share of said estimate within said time, the
67 amount due shall bear interest as provided in Exhibit "C" until paid. Proper adjustment shall be
68 made monthly between advances and actual expense to the end that each party shall bear and pay its
69 proportionate share of actual expenses incurred, and no more.

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D. Limitation of Expenditures:

1. **Drill or Deepen:** Without the consent of all parties, no well shall be drilled or deepened, except any well drilled or deepened pursuant to the provisions of Article VI.B.2. of this Agreement, it being understood that the consent to the drilling or deepening shall include:

~~Option No. 1: All necessary expenditures for the drilling or deepening, testing, completing and equipping of the well, including necessary tankage and or surface facilities.~~

X **Option No. 2:** All necessary expenditures for the drilling or deepening and testing of the well. When such well has reached its authorized depth, and all tests have been completed, Operator shall give immediate notice to the Non-Operators who have the right to participate in the completion costs. The parties receiving such notice shall have forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) in which to elect to participate in the setting of casing and the completion attempt. Such election, when made, shall include consent to all necessary expenditure for the completing and equipping of such well, including necessary tankage and or surface facilities. Failure of any party receiving such notice to reply within the period above fixed shall constitute an election by that party not to participate in the cost of the completion attempt. If one or more, but less than all of the parties, elect to set pipe and to attempt a completion, the provisions of Article VI.B.2. hereof (the phrase "reworking, deepening or plugging back" as contained in Article VI.B.2. shall be deemed to include "completing") shall apply to the operations thereafter conducted by less than all parties.

2. **Rework or Plug Back:** Without the consent of all parties, no well shall be reworked or plugged back except a well reworked or plugged back pursuant to the provisions of Article VI.B.2. of this agreement, it being understood that the consent to the reworking or plugging back of a well shall include consent to all necessary expenditures in conducting such operations and completing and equipping of said well, including necessary tankage and or surface facilities.

3. **Other Operations:** Operator shall not undertake any single project reasonably estimated to require an expenditure in excess of **Twenty-Five Thousand** Dollars (\$ 25,000.00) except in connection with a well, the drilling, reworking, deepening, completing, recompleting, or plugging back of which has been previously authorized by or pursuant to this agreement; provided, however, that, in case of explosion, fire, flood or other sudden emergency, whether of the same or different nature, Operator may take such steps and incur such expenses as in its opinion are required to deal with the emergency to safeguard life and property but Operator, as promptly as possible, shall report the emergency to the other parties. If Operator prepares "Authority for Expenditures" for its own use, Operator, upon request, shall furnish copies of its "Authority for Expenditures" for any single project costing in excess of **Fifteen Thousand** Dollars (\$ 15,000.00).

E. Royalties, Overriding Royalties and Other Payments:

Each party shall pay or deliver, or cause to be paid or delivered, all royalties to the extent of **One-Eighth (1/8)** due on its share of production and shall hold the other parties free from any liability therefor. If the interest of any party in any oil and gas lease covered by this agreement is subject to any royalty, overriding royalty, production payment, or other charge over and above the aforesaid royalty, such party shall assume and alone bear all such obligations and shall account for or cause to be accounted for, such interest to the owners thereof.

No party shall ever be responsible, on any price basis higher than the price received by such party, to any other party's lessor or royalty owner; and if any such other party's lessor or royalty owner should demand and receive settlements on a higher price basis, the party contributing such lease shall bear the royalty burden insofar as such higher price is concerned.

F. Rentals, Shut-in Well Payments and Minimum Royalties:

Rentals, shut-in well payments and minimum royalties which may be required under the terms of any lease shall be paid by the party or parties who subjected such lease to this agreement at its or their expense. In the event two or more parties own and have contributed interests in the same lease to this agreement, such parties may designate one of such parties to make said payments for and on behalf of all such parties. Any party may request, and shall be entitled to receive, proper evidence of all such payments. In the event of failure to make proper payment of any rental, shut-in well payment or minimum royalty through mistake or oversight where such payment is required to continue the lease in force, any loss which results from such non-payment shall be borne in accordance with the provisions of Article IV.B.2.

Operator shall notify Non-Operator of the anticipated completion of a shut-in gas well, or the shutting in or return to production of a producing gas well, at least five (5) days (excluding Saturday, Sunday and holidays), or at the earliest opportunity permitted by circumstances, prior to taking such action, but assumes no liability for failure to do so. In the event of failure by Operator to so notify Non-

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1 of any shut-in well payment shall be borne jointly by the parties hereto under the provisions of Article
2 IV.B.3.

3
4 **G. Taxes:**

5
6 Beginning with the first calendar year after the effective date hereof, ~~Operator shall render for ad~~
7 ~~valorem taxation all property subject to this agreement which by law should be rendered for such~~
8 ~~taxes, and it shall pay all such taxes assessed thereon before they become delinquent. Prior to the ren-~~
9 ~~dition date, each Non-Operator shall furnish Operator information as to burdens (to include, but not be~~
10 ~~limited to, royalties, overriding royalties and production payments) on leases and oil and gas interests con-~~
11 ~~tributed by such Non-Operator. If the assessed valuation of any leasehold estate is reduced by reason of its~~
12 ~~being subject to outstanding excess royalties, overriding royalties or production payments, the reduction in~~
13 ~~ad valorem taxes resulting therefrom shall inure to the benefit of the owner or owners of such leasehold~~
14 ~~estate, and Operator shall adjust the charge to such owner or owners so as to reflect the benefit of such~~
15 ~~reduction. Operator shall bill other parties for their proportionate share of all tax payments in the man-~~
16 ~~ner provided in Exhibit "C".~~

17
18 If Operator considers any tax assessment improper, Operator may, at its discretion, protest within
19 the time and manner prescribed by law, and prosecute the protest to a final determination, unless all
20 parties agree to abandon the protest prior to final determination. During the pendency of administrative
21 or judicial proceedings, Operator may elect to pay, under protest, all such taxes and any interest and
22 penalty. When any such protested assessment shall have been finally determined, Operator shall pay
23 the tax for the joint account, together with any interest and penalty accrued, and the total cost shall then
24 be assessed against the parties, and be paid by them, as provided in Exhibit "C".

25
26 Each party shall pay or cause to be paid all production, severance, gathering and other taxes im-
27 posed upon or with respect to the production or handling of such party's share of oil and or gas pro-
28 duced under the terms of this agreement.

29
30 **II. Insurance:**

31
32 At all times while operations are conducted hereunder, Operator shall comply with the Workmen's
33 Compensation Law of the State where the operations are being conducted, provided, however, that Op-
34 erator may be a self-insurer for liability under said compensation laws in which event the only charge
35 that shall be made to the joint account shall be an amount equivalent to the premium which would have
36 been paid had such insurance been obtained. Operator shall also carry or provide insurance for the
37 benefit of the joint account of the parties as outlined in Exhibit "D", attached to and made a part hereof.
38 Operator shall require all contractors engaged in work on or for the Contract Area to comply with the
39 Workmen's Compensation Law of the State where the operations are being conducted and to maintain
40 such other insurance as Operator may require.

41
42 In the event Automobile Public Liability Insurance is specified in said Exhibit "D", or subsequently
43 receives the approval of the parties, no direct charge shall be made by Operator for premiums paid for
44 such insurance for Operator's fully owned automotive equipment.

45
46 **ARTICLE VIII.**

47 **ACQUISITION, MAINTENANCE OR TRANSFER OF INTEREST**

48
49 **A. Surrender of Leases:**

50
51 The leases covered by this agreement, insofar as they embrace acreage in the Contract Area, shall
52 not be surrendered in whole or in part unless all parties consent thereto.

53
54 However, should any party desire to surrender its interest in any lease or in any portion thereof, and
55 other parties do not agree or consent thereto, the party desiring to surrender shall assign, without express
56 or implied warranty of title, all of its interest in such lease, or portion thereof, and any well, material and
57 equipment which may be located thereon and any rights in production thereafter secured, to the parties
58 not desiring to surrender it. If the interest of the assigning party includes an oil and gas interest, the as-
59 signing party shall execute and deliver to the party or parties not desiring to surrender an oil and gas
60 lease covering such oil and gas interest for a term of one year and so long thereafter as oil and/or gas
61 is produced from the land covered thereby, such lease to be on the form attached hereto as Exhibit "B".
62 Upon such assignment, the assigning party shall be relieved from all obligations thereafter accruing,
63 but not theretofore accrued, with respect to the acreage assigned and the operation of any well thereon,
64 and the assigning party shall have no further interest in the lease assigned and its equipment and pro-
65 duction other than the royalties retained in any lease made under the terms of this Article. The parties
66 assignee shall pay to the party assignor the reasonable salvage value of the latter's interest in any wells
67 and equipment on the assigned acreage. The value of all material shall be determined in accordance
68 with the provisions of Exhibit "C", less the estimated cost of salvaging and the estimated cost of plug-
69 ging and abandoning. If the assignment is in favor of more than one party, the assigned interest shall
70

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1 be shared by the parties assignee in the proportions that the interest of each bears to the interest of all
2 parties assignee.

3
4 Any assignment or surrender made under this provision shall not reduce or change the assignor's or
5 surrendering parties' interest, as it was immediately before the assignment, in the balance of the Contract
6 Area, and the acreage assigned or surrendered, and subsequent operations thereon, shall not thereafter
7 be subject to the terms and provisions of this agreement.

8
9 **B. Renewal or Extension of Leases:**

10
11 If any party secures a renewal of any oil and gas lease subject to this Agreement, all other parties
12 shall be notified promptly, and shall have the right for a period of thirty (30) days following receipt
13 of such notice in which to elect to participate in the ownership of the renewal lease, insofar as such
14 lease affects lands within the Contract Area, by paying to the party who acquired it their several proper
15 proportionate shares of the acquisition cost allocated to that part of such lease within the Contract Area,
16 which shall be in proportion to the interests held at that time by the parties in the Contract Area.

17
18 If some, but less than all, of the parties elect to participate in the purchase of a renewal lease, it
19 shall be owned by the parties who elect to participate therein, in a ratio based upon the relationship of
20 their respective percentage of participation in the Contract Area to the aggregate of the percentages
21 of participation in the Contract Area of all parties participating in the purchase of such renewal lease.
22 Any renewal lease in which less than all parties elect to participate shall not be subject to this agreement.

23
24 Each party who participates in the purchase of a renewal lease shall be given an assignment, with-
25 out warranty of title, of its proportionate interest therein by acquiring party.

26
27 The provisions of this Article shall apply to renewal leases whether they are for the entire interest
28 covered by the expiring lease or cover only a portion of its area or an interest therein. Any renewal lease
29 taken before the expiration of its predecessor lease, or taken or contracted for within six (6) months after
30 the expiration of the existing lease shall be subject to this provision; but any lease taken or contracted
31 for more than six (6) months after the expiration of an existing lease shall not be deemed a renewal
32 lease and shall not be subject to the provisions of this agreement.

33
34 The provisions in this Article shall apply also and in like manner to extensions of oil and gas
35 leases.

36
37 **C. Acreage or Cash Contributions:**

38
39 While this agreement is in force, if any party contracts for a contribution of cash toward the drilling
40 of a well or any other operation on the Contract Area, such contribution shall be paid to the party who
41 conducted the drilling or other operation and shall be applied by it against the cost of such drilling or
42 other operation. If the contribution be in the form of acreage, the party to whom the contribution is
43 made shall promptly tender an assignment of the acreage, without warranty of title, to the Drilling
44 Parties in the proportions said Drilling Parties shared the cost of drilling the well. If all parties hereto
45 are Drilling Parties and accept such tender, such acreage shall become a part of the Contract Area and
46 be governed by the provisions of this agreement. If less than all parties hereto are Drilling Parties and
47 accept such tender, such acreage shall not become a part of the Contract Area. Each party shall prompt-
48 ly notify all other parties of all acreage or money contributions it may obtain in support of any well or
49 any other operation on the Contract Area.

50
51 If any party contracts for any consideration relating to disposition of such party's share of substances
52 produced hereunder, such consideration shall not be deemed a contribution as contemplated in this
53 Article VIII.C.

54
55 **D. Subsequently Created Interest:**

56
57 Notwithstanding the provisions of Article VII.E. and VII.G., if any party hereto shall, subsequent
58 to execution of this agreement, create an overriding royalty, production payment, or net proceeds inter-
59 est, which such interests are hereinafter referred to as "subsequently created interest", such subsequently
60 created interest shall be specifically made subject to all of the terms and provisions of this agreement, as
61 follows:

62
63 1. If non-consent operations are conducted pursuant to any provision of this agreement, and the
64 party conducting such operations becomes entitled to receive the production attributable to the interest
65 out of which the subsequently created interest is derived, such party shall receive same free and clear
66 of such subsequently created interest. The party creating same shall bear and pay all such subsequently
67 created interests and shall indemnify and hold the other parties hereto free and harmless from any and
68 all liability resulting therefrom.

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2. If the owner of the interest from which the subsequently created interest is derived (1) fails to pay when due its share of expenses chargeable hereunder, or (2) elects to abandon a well under provisions of Article VII E hereof, or (3) elects to surrender a lease under provisions of Article VII A hereof, the subsequently created interest shall be chargeable with the pro rata portion of all expenses hereunder in the same manner as if such interest were a working interest. For purposes of collecting such chargeable expenses, the party or parties who receive assignments as a result of (2) or (3) above shall have the right to enforce all provisions of Article VII B hereof against such subsequently created interest.

E. Maintenance of Uniform Interest:

For the purpose of maintaining uniformity of ownership in the oil and gas leasehold interests covered by this agreement and notwithstanding any other provisions to the contrary, no party shall sell, encumber, transfer or make other disposition of its interest in the leases embraced within the Contract Area and in wells, equipment and production unless such disposition covers either:

1. the entire interest of the party in all leases and equipment and production; or
2. an equal undivided interest in all leases and equipment and production in the Contract Area.

Every such sale, encumbrance, transfer or other disposition made by any party shall be made expressly subject to this agreement, and shall be made without prejudice to the right of the other parties.

If, at any time the interest of any party is divided among and owned by four or more co-owners, Operator, at its discretion, may require such co-owners to appoint a single trustee or agent with full authority to receive notices, approve expenditures, receive billings for and approve and pay such party's share of the joint expenses, and to deal generally with, and with power to bind, the co-owners of such party's interests within the scope of the operations embraced in this agreement; however, all such co-owners shall have the right to enter into and execute all contracts or agreements for the disposition of their respective shares of the oil and gas produced from the Contract Area and they shall have the right to receive, separately, payment of the sale proceeds hereof.

F. Waiver of Right to Partition:

If permitted by the laws of the state or states in which the property covered hereby is located, each party hereto owning an undivided interest in the Contract Area waives any and all rights it may have to partition and have set aside to it in severalty its undivided interest therein.

~~G. Preferential Right to Purchase:~~

~~Should any party desire to sell all or any part of its interests under this agreement, or its rights and interests in the Contract Area, it shall promptly give written notice to the other parties, with full information concerning its proposed sale, which shall include the name and address of the prospective purchaser (who must be ready, willing and able to purchase), the purchase price, and all other terms of the offer. The other parties shall then have an optional prior right, for a period of ten (10) days after receipt of the notice, to purchase on the same terms and conditions the interest which the other party proposes to sell and, if this optional right is exercised, the purchasing parties shall share the purchased interest in the proportions that the interest of each bears to the total interest of all purchasing parties. However, there shall be no preferential right to purchase in those cases where any party wishes to mortgage its interests, or to dispose of its interests by merger, reorganization, consolidation, or sale of all or substantially all of its assets to a subsidiary or parent company or to a subsidiary of a parent company, or to any company in which any one party owns a majority of the stock.~~

ARTICLE IX. INTERNAL REVENUE CODE ELECTION

This agreement is not intended to create, and shall not be construed to create, a relationship of partnership or an association for profit between or among the parties hereto. Notwithstanding any provisions herein that the rights and liabilities hereunder are several and not joint or collective, or that this agreement and operations hereunder shall not constitute a partnership, if, for Federal income tax purposes, this agreement and the operations hereunder are regarded as a partnership, each party hereby affected elects to be excluded from the application of all of the provisions of Subchapter "K", Chapter 1, Subtitle "A", of the Internal Revenue Code of 1954, as permitted and authorized by Section 761 of the Code and the regulations promulgated thereunder. Operator is authorized and directed to execute on behalf of each party hereby affected such evidence of this election as may be required by the Secretary of the Treasury of the United States or the Federal Internal Revenue Service, including specifically, but not by way of limitation, all of the returns, statements, and the data required by Federal Regulations 1.761. Should there be any requirement that each party hereby affected give further evidence of this election, each such party shall execute such documents and furnish such other evidence as may be required by the Federal Internal Revenue Service or as may be necessary to evidence this election. No

such party shall give any notices or take any other action inconsistent with the election made hereby. If any present or future income tax laws of the state or states in which the Contract Area is located or any future income tax laws of the United States contain provisions similar to those in Subchapter "K", Chapter 1, Subtitle "A" of the Internal Revenue Code of 1954, under which an election similar to that provided by Section 161 of the Code is permitted, each party hereby affected shall make such election as may be permitted or required by such laws. In making the foregoing election, each such party states that the income derived by such party from Operations hereunder can be adequately determined without the computation of partnership taxable income.

ARTICLE X. CLAIMS AND LAWSUITS

Operator may settle any single damage claim or suit arising from operations hereunder if the expenditure does not exceed Five Thousand Dollars (\$ 5,000.00) and if the payment is in complete settlement of such claim or suit. If the amount required for settlement exceeds the above amount, the parties hereto shall assume and take over the further handling of the claim or suit, unless such authority is delegated to Operator. All costs and expense of handling, settling, or otherwise discharging such claim or suit shall be at the joint expense of the parties. If a claim is made against any party or if any party is sued on account of any matter arising from operations hereunder over which such individual has no control because of the rights given Operator by this agreement, the party shall immediately notify Operator, and the claim or suit shall be treated as any other claim or suit involving operations hereunder.

ARTICLE XI. FORCE MAJEURE

If any party is rendered unable, wholly or in part, by force majeure to carry out its obligations under this agreement, other than the obligation to make money payments, that party shall give to all other parties prompt written notice of the force majeure with reasonably full particulars concerning it; thereupon, the obligations of the party giving the notice, so far as they are affected by the force majeure, shall be suspended during, but no longer than, the continuance of the force majeure. The affected party shall use all reasonable diligence to remove the force majeure situation as quickly as practicable.

The requirement that any force majeure shall be remedied with all reasonable dispatch shall not require the settlement of strikes, lockouts, or other labor difficulty by the party involved, contrary to its wishes; how all such difficulties shall be handled shall be entirely within the discretion of the party concerned.

The term "force majeure", as here employed, shall mean an act of God, strike, lockout, or other industrial disturbance, act of the public enemy, war, blockade, public riot, lightning, fire, storm, flood, explosion, governmental action, governmental delay, restraint or inaction, unavailability of equipment, and any other cause, whether of the kind specifically enumerated above or otherwise, which is not reasonably within the control of the party claiming suspension.

ARTICLE XII. NOTICES

All notices authorized or required between the parties, and required by any of the provisions of this agreement, unless otherwise specifically provided, shall be given in writing by United States mail or Western Union telegram, postage or charges prepaid, or by teletype, and addressed to the party to whom the notice is given at the addresses listed on Exhibit "A". The originating notice given under any provision hereof shall be deemed given only when received by the party to whom such notice is directed, and the time for such party to give any notice in response thereto shall run from the date the originating notice is received. The second or any responsive notice shall be deemed given when deposited in the United States mail or with the Western Union Telegraph Company, with postage or charges prepaid, or when sent by teletype. Each party shall have the right to change its address at any time, and from time to time, by giving written notice hereof to all other parties.

ARTICLE XIII. TERM OF AGREEMENT

This agreement shall remain in full force and effect as to the oil and gas leases and/or oil and gas interests subjected hereto for the period of time selected below; provided, however, no party hereto shall ever be construed as having any right, title or interest in or to any lease, or oil and gas interest contributed by any other party beyond the term of this agreement except pursuant to Article VIII, Part B.

~~Option No. 1: So long as any of the oil and gas leases subject to this agreement remain or are continued in force as to any part of the Contract Area, whether by production, extension, renewal or otherwise, and/or so long as oil and/or gas production continues from any lease or oil and gas interests.~~

X Option No. 2 In the event the well described in Article VIA, or any subsequent well drilled under any provision of this agreement, results in production of oil and/or gas in paying quantities, this agreement shall continue in force so long as any such well or wells produce, or are capable of production, and for an additional period of 180 days from cessation of all production, provided, however, if, prior to the expiration of such additional period, one or more of the parties hereto are engaged in drilling or reworking a well or wells hereunder, this agreement shall continue in force until such operations have been completed and if production results therefrom, this agreement shall continue in force as provided herein. In the event the well described in Article VIA, or any subsequent well drilled hereunder, results in a dry hole and no other well is produced or capable of producing oil and/or gas from the Contract Area, this agreement shall terminate unless drilling or reworking operations are commenced within 180 days from the date of abandonment of said well.

It is agreed, however, that the termination of this agreement shall not relieve any party hereto from any liability which has accrued or attached prior to the date of such termination.

ARTICLE XIV. COMPLIANCE WITH LAWS AND REGULATIONS

A. Laws, Regulations and Orders:

This agreement shall be subject to the conservation laws of the state in which the committed acreage is located, to the valid rules, regulations, and orders of any duly constituted regulatory body of said state; and to all other applicable federal, state and local laws, ordinances, rules, regulations, and orders. However, non-operators agree to release operator from any and all losses, damages, injuries, claims and causes of action arising out of or incident to or resulting directly or indirectly from operator's interpretation or application of rules, rulings, regulations or orders of the Department of Energy, Federal Energy Regulatory Commission or predecessor agencies to the extent operator's interpretation or application of such rules, rulings, regulations or orders were made in good faith. Non-operators further agree to reimburse operator for their proportionate share of any amounts operator may be required to refund, rebate or pay as a result of an incorrect interpretation or application of the above noted rules, rulings, regulations or orders, together with the non-operators' proportionate part of interest and penalties owing by operator as a result of such incorrect interpretation or application of such rules, regulations or orders. Operator shall furnish Non-Operators copies of all notices, forms and other documents received and sent to all government agency.

B. GOVERNING LAW:

The essential validity of this agreement and all matters pertaining thereto, including, but not limited to, matters of performance, breach, remedies, procedures, rights, duties and interpretation or construction, shall be governed and determined by the law of the state in which the Contract Area is located. If the Contract Area is in two or more states, the law of the state where most of the land in the Contract Area is located shall govern.

ARTICLE XV OTHER PROVISIONS

A. SUBSTITUTE WELL:

1. If, in the drilling of the Initial Well, Operator loses the hole or encounters mechanical difficulties rendering it impracticable, in the opinion of the Operator, to drill the well to the Objective Depth, then and in any of such events on or before sixty (60) days after completion of the Initial Well, Operator shall have the option to commence the actual drilling of another well (Substitute Well) at a lawful location of Operator's selection on the Unit Area, and prosecute the drilling of said well with due diligence and in a good and workmanlike manner to the Objective Depth. For all purposes of this agreement, the drilling of the Substitute Well shall be considered as the drilling of the Initial Well.

2. Any provision herein concerning the Initial Well shall also apply to the Substitute Well, and any provision herein excepting the Initial Well shall also except the Substitute Well.

3. Any funds remaining in escrow for the Initial Well shall be transferred to the escrow account for the Substitute Well and shall be applied to the costs of said Substitute Well. If these funds are not sufficient to cover the total AFE costs of the Substitute Well, the Operator shall have the option of requiring a Non-Operator to deposit additional funds sufficient to pay its proportionate share, as set out on Exhibit "A", of the total AFE costs for said well in an escrow account set up pursuant to the escrow agreement attached hereto as Exhibit "G". The additional funds will be deposited not less than fifteen (15) days prior to commencement of drilling operations on the Substitute Well.

B. SUBSEQUENT OPERATIONS

If subsequent operations should be undertaken pursuant to Article VI-B, the Operator shall have the option of requiring a Non-Operator to deposit its proportionate share, as set out on Exhibit "A", of the total AFE costs for the proposed operation in an escrow account set up pursuant to the escrow agreement attached hereto as Exhibit "G". If a Non-Operator fails to deposit the full amount set out above within thirty (30) days of receipt of the AFE or not less than fifteen (15) days prior to the commencement of the proposed operation, whichever is sooner, that party shall become a Non-Consenting Party under Article VI-B.

A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT - 1977

ARTICLE XVI
MISCELLANEOUS

This agreement shall be binding upon and shall inure to the benefit of the parties hereto and to their respective heirs, devisees, legal representatives, successors and assigns.

This instrument may be executed in any number of counterparts, each of which shall be considered an original for all purposes.

IN WITNESS WHEREOF, this agreement shall be effective as of 18th day of September 1981.

OPERATOR

ATTEST: HARVEY E. YATES COMPANY

Secretary By: President

NON-OPERATORS

ATTEST: VIKING PETROLEUM, INC.

Secretary By: President

ATTEST: CIBOLA ENERGY CORPORATION

Secretary By: President

WITNESS:

SEYMOUR SMITH

WITNESS:

DAVID SMITH

ATTEST: EXPLORERS PETROLEUM CORPORATION

Secretary By: President

ATTEST: SPIRAL, INC.

Secretary By: President

ATTEST: FRED G. YATES, INC.

Secretary By: President

STATE OF NEW MEXICO)
) SS
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by GEORGE M. YATES, President of HARVEY E. YATES COMPANY, a New Mexico Corporation, on behalf of said corporation.

My Commission Expires:

Notary Public

STATE OF OKLAHOMA)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by _____, President of VIKING PETROLEUM, INC., a _____ Corporation, on behalf of said corporation.

My Commission Expires:

Notary Public

STATE OF NEW MEXICO)
) SS
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by HARVEY E. YATES, JR., President of CIBOLA ENERGY CORPORATION, a New Mexico Corporation, on behalf of said corporation.

My Commission Expires:

Notary Public

STATE OF _____)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by SEYMOUR SMITH.

My Commission Expires:

Notary Public

STATE OF _____)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by DAVID SMITH.

My Commission Expires:

Notary Public

STATE OF NEW MEXICO)
) SS
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by GEORGE M. YATES, President of EXPLORERS PETROLEUM CORPORATION, a New Mexico Corporation, on behalf of said corporation.

My Commission Expires:

Notary Public

STATE OF NEW MEXICO)
) SS
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by HARVEY E. YATES, President of SPIRAL, INC., a New Mexico Corporation, on behalf of said corporation.

My Commission Expires:

Notary Public

STATE OF NEW MEXICO)
) SS
COUNTY OF CHAVES)

The foregoing instrument was acknowledged before me this _____ day of _____, 1981, by FRED G. YATES, President of FRED G. YATES, INC., a New Mexico Corporation, on behalf of said corporation.

My Commission Expires:

Notary Public

EXHIBIT "A"
ATTACHED TO AND MADE A PART OF THE OPERATING AGREEMENT
DATED SEPTEMBER 18, 1981,
BETWEEN HARVEY E. YATES COMPANY AS OPERATOR
AND VIKING PETROLEUM, INC., ETAL AS NON-OPERATORS

1. LANDS SUBJECT TO CONTRACT:

Township 9 South, Range 27 East, N.M.P.M.

Section 18: Lots 1, 2, 3, 4, E/2 W/2,
E/2

Containing 645.04 acres, more or less
Chaves County, New Mexico

2. PERCENTAGE INTERESTS OF THE PARTIES TO THIS AGREEMENT:

<u>OWNER</u>	<u>WORKING INTEREST</u>
Viking Petroleum, Inc.	31.005829%
*David A. Smith	8.624271%
Seymour Smith	8.624271%
Cibola Energy Corporation	6.584856%
Spiral, Inc.	2.587281%
Fred G. Yates, inc.	2.587281%
Explorers Petroleum Corporation	2.587281%
Harvey E. Yates Company	37.398930%
	<u>100.000000%</u>

*David A. Smith also holds a 5% Overriding
Royalty Interest under State Lease L-6775

3. OIL AND GAS LEASES AND/OR OIL AND GAS INTERESTS SUBJECT TO THIS AGREEMENT:

- a. Oil and Gas Lease dated February 1, 1972 bearing State Lease Number L-6907 between the State of New Mexico as Lessor and Viking Petroleum, Inc., as Lessee covering the following described lands in Chaves County, New Mexico, insofar as said lease is situated in Chaves County, New Mexico:

Township 9 South, Range 27 East, N.M.P.M.

Section 18: E/2 NW/4, W/2 NE/4, NE/4 NE/4

Containing 200.0 acres, more or less

- b. Oil and Gas Lease dated December 1, 1971 bearing State Lease Number L-6775 between the State of New Mexico as Lessor and Harvey E. Yates Company as Lessee, covering the following described lands situated in Chaves County, New Mexico:

Township 9 South, Range 27 East, N.M.P.M.

Section 18: Lots 1, 2, 3, 4, E/2 SW/4,
SE/4 NE/4, SE/4

Containing 445.04 acres, more or less

4. ADDRESSES OF PARTIES FOR NOTICE PURPOSES:

Viking Petroleum, Inc.
2700 Center Building
2761 East Skelly Drive
Tulsa, Oklahoma 74105

Seymour Smith
David A. Smith
105 W. Madison
Chicago, Illinois 60602

Harvey E. Yates Company
Explorers Petroleum Corporation
Spiral, Inc.
Fred G. Yates, Inc.
P. O. Box 1933
Roswell, New Mexico 88201

Cibola Energy Corporation
P. O. Box 1668
Albuquerque, New Mexico 87103

EXHIBIT " C "

Attached to and made a part of THE OPERATING AGREEMENT
DATED SEPTEMBER 18, 1981,
BY AND BETWEEN HARVEY E. YATES COMPANY AS OPERATOR
AND VIKING PETROLEUM, INC., ETAL, AS NON-OPERATORS

ACCOUNTING PROCEDURE JOINT OPERATIONS

I. GENERAL PROVISIONS

1. Definitions

"Joint Property" shall mean the real and personal property subject to the agreement to which this Accounting Procedure is attached.

"Joint Operations" shall mean all operations necessary or proper for the development, operation, protection and maintenance of the Joint Property.

"Joint Account" shall mean the account showing the charges paid and credits received in the conduct of the Joint Operations and which are to be shared by the Parties.

"Operator" shall mean the party designated to conduct the Joint Operations.

"Non-Operators" shall mean the parties to this agreement other than the Operator.

"Parties" shall mean Operator and Non-Operators.

"First Level Supervisors" shall mean those employees whose primary function in Joint Operations is the direct supervision of other employees and or contract labor directly employed on the Joint Property in a field operating capacity.

"Technical Employees" shall mean those employees having special and specific engineering, geological or other professional skills, and whose primary function in Joint Operations is the handling of specific operating conditions and problems for the benefit of the Joint Property.

"Personal Expenses" shall mean travel and other reasonable reimbursable expenses of Operator's employees.

"Material" shall mean personal property, equipment or supplies acquired or held for use on the Joint Property.

"Controllable Material" shall mean Material which at the time is so classified in the Material Classification Manual as most recently recommended by the Council of Petroleum Accountants Societies of North America.

2. Statement and Billings

Operator shall bill Non-Operators on or before the last day of each month for their proportionate share of the Joint Account for the preceding month. Such bills will be accompanied by statements which identify the authority for expenditure, lease or facility, and all charges and credits, summarized by appropriate classifications of investment and expense except that items of Controllable Material and unusual charges and credits shall be separately identified and fully described in detail.

3. Advances and Payments by Non-Operators

Unless otherwise provided for in the agreement, the Operator may require the Non-Operators to advance their share of estimated cash outlay for the succeeding month's operation. Operator shall adjust each monthly billing to reflect advances received from the Non-Operators.

Each Non-Operator shall pay its proportion of all bills within thirty (30) days after receipt. If payment is not made within such time, the unpaid balance shall bear interest monthly at the rate of twelve percent (12%) per annum or the maximum contract rate permitted by the applicable usury laws in the state in which the Joint Property is located, whichever is the lesser, plus attorney's fees, court costs, and other costs in connection with the collection of unpaid amounts.

4. Adjustments

Payment of any such bills shall not prejudice the right of any Non-Operator to protest or question the correctness thereof; provided, however, all bills and statements rendered to Non-Operators by Operator during any calendar year shall conclusively be presumed to be true and correct after twenty-four (24) months following the end of any such calendar year, unless within the said twenty-four (24) month period a Non-Operator takes written exception thereto and makes claim on Operator for adjustment. No adjustment favorable to Operator shall be made unless it is made within the same prescribed period. The provisions of this paragraph shall not prevent adjustments resulting from a physical inventory of Controllable Material as provided for in Section V.

5. Audits

A. Non-Operator, upon notice in writing to Operator and all other Non-Operators, shall have the right to audit Operator's accounts and records relating to the Joint Account for any calendar year within the twenty-four (24) month period following the end of such calendar year; provided, however, the making of an audit shall not extend the time for the taking of written exception to and the adjustments of accounts as provided for in Paragraph 4 of this Section I. Where there are two or more Non-Operators, the Non-Operators shall make every reasonable effort to conduct joint or simultaneous audits in a manner which will result in a minimum of inconvenience to the Operator. Operator shall bear no portion of the Non-Operators' audit cost incurred under this paragraph unless agreed to by the Operator.

6. Approval by Non-Operators

Where an approval or other agreement of the Parties or Non-Operators is expressly required under other sections of this Accounting Procedure and if the agreement to which this Accounting Procedure is attached contains no contrary provisions in regard thereto, Operator shall notify all Non-Operators of the Operator's proposal, and the agreement or approval of a majority in interest of the Non-Operators shall be controlling on all Non-Operators.

II. DIRECT CHARGES

Operator shall charge the Joint Account with the following items:

1. Rentals and Royalties

Lease rentals and royalties paid by Operator for the Joint Operations.

2. Labor

A. (1) Salaries and wages of Operator's field employees directly employed on the Joint Property in the conduct of Joint Operations.

(2) Salaries of First Level Supervisors in the field.

(3) Salaries and wages of Technical Employees directly employed on the Joint Property if such charges are excluded from the Overhead rates.

B. Operator's cost of holiday, vacation, sickness and disability benefits and other customary allowances paid to employees whose salaries and wages are chargeable to the Joint Account under Paragraph 2A of this Section II. Such costs under this Paragraph 2B may be charged on a "when and as paid basis" or by "percentage assessment" on the amount of salaries and wages chargeable to the Joint Account under Paragraph 2A of this Section II. If percentage assessment is used, the rate shall be based on the Operator's cost experience.

C. Expenditures or contributions made pursuant to assessments imposed by governmental authority which are applicable to Operator's costs chargeable to the Joint Account under Paragraphs 2A and 2B of this Section II.

D. Personal Expenses of those employees whose salaries and wages are chargeable to the Joint Account under Paragraph 2A of this Section II.

3. Employee Benefits

Operator's current costs of established plans for employees' group life insurance, hospitalization, pension, retirement, stock purchase, thrift, bonus, and other benefit plans of a like nature, applicable to Operator's labor cost chargeable to the Joint Account under Paragraphs 2A and 2B of this Section II shall be Operator's actual cost not to exceed twenty per cent (20%).

4. Material

Material purchased or furnished by Operator for use on the Joint Property as provided under Section IV. Only such Material shall be purchased for or transferred to the Joint Property as may be required for immediate use and is reasonably practical and consistent with efficient and economical operations. The accumulation of surplus stocks shall be avoided.

5. Transportation

Transportation of employees and Material necessary for the Joint Operations but subject to the following limitations:

A. If Material is moved to the Joint Property from the Operator's warehouse or other properties, no charge shall be made to the Joint Account for a distance greater than the distance from the nearest reliable supply store, recognized barge terminal, or railway receiving point where like material is normally available, unless agreed to by the Parties.

B. If surplus Material is moved to Operator's warehouse or other storage point, no charge shall be made to the Joint Account for a distance greater than the distance to the nearest reliable supply store, recognized barge terminal, or railway receiving point unless agreed to by the Parties. No charge shall be made to the Joint Account for moving Material to other properties belonging to Operator, unless agreed to by the Parties.

C. In the application of Subparagraphs A and B above, there shall be no equalization of actual gross trucking cost of \$200 or less excluding accessorial charges.

6. Services

The cost of contract services, equipment and utilities provided by outside sources, except services excluded by Paragraph 9 of Section II and Paragraph 1, ii of Section III. The cost of professional consultant services and contract services of technical personnel directly engaged on the Joint Property if such charges are excluded from the Overhead rates. The cost of professional consultant services or contract services of technical personnel not directly engaged on the Joint Property shall not be charged to the Joint Account unless previously agreed to by the Parties.

7. Equipment and Facilities Furnished by Operator

A. Operator shall charge the Joint Account for use of Operator owned equipment and facilities at rates commensurate with costs of ownership and operation. Such rates shall include costs of maintenance, repairs, other operating expense, insurance, taxes, depreciation, and interest on investment not to exceed eight per cent (8%) per annum. Such rates shall not exceed average commercial rates currently prevailing in the immediate area of the Joint Property.

B. In lieu of charges in Paragraph 7A above, Operator may elect to use average commercial rates prevailing in the immediate area of the Joint Property less 20%. For automotive equipment, Operator may elect to use rates published by the Petroleum Motor Transport Association.

8. Damages and Losses to Joint Property

All costs or expenses necessary for the repair or replacement of Joint Property made necessary because of damages or losses incurred by fire, flood, storm, theft, accident, or other cause, except those resulting from Operator's gross negligence or willful misconduct. Operator shall furnish Non-Operator written notice of damages or losses incurred as soon as practicable after a report thereof has been received by Operator.

9. Legal Expense

A. Expense of handling, investigating and settling litigation or claims, discharging of liens, payment of judgments and amounts paid for settlement of claims incurred in or resulting from operations under the agreement or necessary to protect or recover the Joint Property, except that no charge for services of Operator's legal staff or fees or expense of outside attorneys shall be made unless previously agreed to by the Parties. All other legal expense is considered to be covered by the overhead provisions of Section III unless otherwise agreed to by the Parties, except as provided in Section I, Paragraph 3.

B. Expenses incurred by operator in representing the Joint Property at hearings or proceedings before state or federal regulatory or administrative agencies.

10. Taxes

All taxes of every kind and nature assessed or levied upon or in connection with the Joint Property, the operation thereof, or the production therefrom, and which taxes have been paid by the Operator for the benefit of the Parties.

11. Insurance

Net premiums paid for insurance required to be carried for the Joint Operations for the protection of the Parties. In the event Joint Operations are conducted in a state in which Operator may act as self-insurer for Workmen's Compensation and or Employers Liability under the respective state's laws, Operator may, at its election, include the risk under its self-insurance program and in that event, Operator shall include a charge at Operator's cost not to exceed manual rates.

12. Other Expenditures

Any other expenditure not covered or dealt with in the foregoing provisions of this Section II, or in Section III, and which is incurred by the Operator in the necessary and proper conduct of the Joint Operations.

III. OVERHEAD

1. Overhead - Drilling and Producing Operations

- i. As compensation for administrative, supervision, office services and warehousing costs, Operator shall charge drilling and producing operations on either:

- (X) Fixed Rate Basis, Paragraph 1A, or
- () Percentage Basis, Paragraph 1B.

Unless otherwise agreed to by the Parties, such charge shall be in lieu of costs and expenses of all offices and salaries or wages plus applicable burdens and expenses of all personnel, except those directly chargeable under Paragraph 2A, Section II. The cost and expense of services from outside sources in connection with matters of taxation, traffic, accounting or matters before or involving governmental agencies shall be considered as included in the Overhead rates provided for in the above selected Paragraph of this Section III unless such cost and expense are agreed to by the Parties as a direct charge to the Joint Account.

- ii. The salaries, wages and Personal Expenses of Technical Employees and or the cost of professional consultant services and contract services of technical personnel directly employed on the Joint Property shall () shall not (X) be covered by the Overhead rates.

A. Overhead - Fixed Rate Basis

- (1) Operator shall charge the Joint Account at the following rates per well per month:

Drilling Well Rate \$ 3,550.00

Producing Well Rate \$ 355.00

- (2) Application of Overhead - Fixed Rate Basis shall be as follows:

(a) Drilling Well Rate

- [1] Charges for onshore drilling wells shall begin on the date the well is spudded and terminate on the date the drilling or completion rig is released, whichever is later, except that no charge shall be made during suspension of drilling operations for fifteen (15) or more consecutive days.
- [2] Charges for offshore drilling wells shall begin on the date when drilling or completion equipment arrives on location and terminate on the date the drilling or completion equipment moves off location or rig is released, whichever occurs first, except that no charge shall be made during suspension of drilling operations for fifteen (15) or more consecutive days.
- [3] Charges for wells undergoing any type of workover or recompletion for a period of five (5) consecutive days or more shall be made at the drilling well rate. Such charges shall be applied for the period from date workover operations, with rig, commence through date of rig release, except that no charge shall be made during suspension of operations for fifteen (15) or more consecutive days.

(b) Producing Well Rates

- [1] An active well either produced or injected into for any portion of the month shall be considered as a one-well charge for the entire month.
 - [2] Each active completion in a multi-completed well in which production is not commingled down hole shall be considered as a one-well charge providing each completion is considered a separate well by the governing regulatory authority.
 - [3] An inactive gas well shut in because of overproduction or failure of purchaser to take the production shall be considered as a one-well charge providing the gas well is directly connected to a permanent sales outlet.
 - [4] A one-well charge may be made for the month in which plugging and abandonment operations are completed on any well.
 - [5] All other inactive wells (including but not limited to inactive wells covered by unit allowable, lease allowable, transferred allowable, etc.) shall not qualify for an overhead charge.
- (3) The well rates shall be adjusted as of the first day of April each year following the effective date of the agreement to which this Accounting Procedure is attached. The adjustment shall be computed by multiplying the rate currently in use by the percentage increase or decrease in the average weekly earnings of Crude Petroleum and Gas Production Workers for the last calendar year compared to the calendar year preceding as shown by the index of average weekly earnings of Crude Petroleum and Gas Fields Production Workers as published by the United States Department of Labor, Bureau of Labor Statistics, or the equivalent Canadian index as published by Statistics Canada, as applicable. The adjusted rates shall be the rates currently in use, plus or minus the computed adjustment.

B. Overhead - Percentage Basis

(1) Operator shall charge the Joint Account at the following rates:

(a) Development

Percent (%) of the cost of Development of the Joint Property exclusive of costs provided under Paragraph 9 of Section II and all salvage credits.

(b) Operating

Percent (%) of the cost of Operating the Joint Property exclusive of costs provided under Paragraphs 1 and 9 of Section II, all salvage credits, the value of injected substances purchased for secondary recovery and all taxes and assessments which are levied, assessed and paid upon the mineral interest in and to the Joint Property.

(2) Application of Overhead - Percentage Basis shall be as follows:

For the purpose of determining charges on a percentage basis under Paragraph 1B of this Section III, development shall include all costs in connection with drilling, redrilling, deepening or any remedial operations on any or all wells involving the use of drilling crew and equipment; also, preliminary expenditures necessary in preparation for drilling and expenditures incurred in abandoning when the well is not completed as a producer, and original cost of construction or installation of fixed assets, the expansion of fixed assets and any other project clearly discernible as a fixed asset, except Major Construction as defined in Paragraph 2 of this Section III. All other costs shall be considered as Operating.

2. Overhead - Major Construction

To compensate Operator for overhead costs incurred in the construction and installation of fixed assets, the expansion of fixed assets, and any other project clearly discernible as a fixed asset required for the development and operation of the Joint Property, Operator shall either negotiate a rate prior to the beginning of construction, or shall charge the Joint Account for Overhead based on the following rates for any Major Construction project in excess of \$ * :

A. * % of total costs if such costs are more than \$ * but less than \$ * ; plus

B. * % of total costs in excess of \$ * but less than \$1,000,000; plus

C. * % of total costs in excess of \$1,000,000.

Total cost shall mean the gross cost of any one project. For the purpose of this paragraph, the component parts of a single project shall not be treated separately and the cost of drilling and workover wells shall be excluded.

*To be negotiated

3. Amendment of Rates

The Overhead rates provided for in this Section III may be amended from time to time only by mutual agreement between the Parties hereto if, in practice, the rates are found to be insufficient or excessive.

IV. PRICING OF JOINT ACCOUNT MATERIAL PURCHASES, TRANSFERS AND DISPOSITIONS

Operator is responsible for Joint Account Material and shall make proper and timely charges and credits for all material movements affecting the Joint Property. Operator shall provide all Material for use on the Joint Property; however, at Operator's option, such Material may be supplied by the Non-Operator. Operator shall make timely disposition of idle and/or surplus Material, such disposal being made either through sale to Operator or Non-Operator, division in kind, or sale to outsiders. Operator may purchase, but shall be under no obligation to purchase, interest of Non-Operators in surplus condition A or B Material. The disposal of surplus Controllable Material not purchased by the Operator shall be agreed to by the Parties.

1. Purchases

Material purchased shall be charged at the price paid by Operator after deduction of all discounts received. In case of Material found to be defective or returned to vendor for any other reason, credit shall be passed to the Joint Account when adjustment has been received by the Operator.

2. Transfers and Dispositions

Material furnished to the Joint Property and Material transferred from the Joint Property or disposed of by the Operator, unless otherwise agreed to by the Parties, shall be priced on the following bases exclusive of cash discounts:

A. New Material (Condition A)

(1) Tubular goods, except line pipe, shall be priced at the current new price in effect on date of movement on a maximum carload or barge load weight basis, regardless of quantity transferred, equalized to the lowest published price f.o.b. railway receiving point or recognized barge terminal nearest the Joint Property where such Material is normally available.

(2) Line Pipe

(a) Movement of less than 30,000 pounds shall be priced at the current new price, in effect at date of movement, as listed by a reliable supply store nearest the Joint Property where such Material is normally available.

(b) Movement of 30,000 pounds or more shall be priced under provisions of tubular goods pricing in Paragraph 2A (1) of this Section IV.

(3) Other Material shall be priced at the current new price, in effect at date of movement, as listed by a reliable supply store or f.o.b. railway receiving point nearest the Joint Property where such Material is normally available.

B. Good Used Material (Condition B)

Material in sound and serviceable condition and suitable for reuse without reconditioning:

(1) Material moved to the Joint Property

(a) At seventy-five percent (75%) of current new price, as determined by Paragraph 2A of this Section IV.

(2) Material moved from the Joint Property

(a) At seventy-five percent (75%) of current new price, as determined by Paragraph 2A of this Section IV, if Material was originally charged to the Joint Account as new Material, or

- (b) at sixty-five percent (65%) of current new price, as determined by Paragraph 2A of this Section IV, if Material was originally charged to the Joint Account as good used Material at seventy-five percent (75%) of current new price.

The cost of reconditioning, if any, shall be absorbed by the transferring property.

C. Other Used Material (Condition C and D)

(1) Condition C

Material which is not in sound and serviceable condition and not suitable for its original function until after reconditioning shall be priced at fifty percent (50%) of current new price as determined by Paragraph 2A of this Section IV. The cost of reconditioning shall be charged to the receiving property, provided Condition C value plus cost of reconditioning does not exceed Condition B value.

(2) Condition D

All other Material, including junk, shall be priced at a value commensurate with its use or at prevailing prices. Material no longer suitable for its original purpose but usable for some other purpose, shall be priced on a basis comparable with that of items normally used for such other purpose. Operator may dispose of Condition D Material under procedures normally utilized by the Operator without prior approval of Non-Operators.

D. Obsolete Material

Material which is serviceable and usable for its original function but condition and/or value of such Material is not equivalent to that which would justify a price as provided above may be specially priced as agreed to by the Parties. Such price should result in the Joint Account being charged with the value of the service rendered by such Material.

E. Pricing Conditions

- (1) Loading and unloading costs may be charged to the Joint Account at the rate of fifteen cents (15¢) per hundred weight on all tubular goods movements, in lieu of loading and unloading costs sustained, when actual hauling cost of such tubular goods are equalized under provisions of Paragraph 5 of Section II.

- (2) Material involving erection costs shall be charged at applicable percentage of the current knocked-down price of new Material.

3. Premium Prices

Whenever Material is not readily obtainable at published or listed prices because of national emergencies, strikes or other unusual causes over which the Operator has no control, the Operator may charge the Joint Account for the required Material at the Operator's actual cost incurred in providing such Material, in making it suitable for use, and in moving it to the Joint Property; provided notice in writing is furnished to Non-Operators of the proposed charge prior to billing Non-Operators for such Material. Each Non-Operator shall have the right, by so electing and notifying Operator within ten days after receiving notice from Operator, to furnish in kind all or part of his share of such Material suitable for use and acceptable to Operator.

4. Warranty of Material Furnished by Operator

Operator does not warrant the Material furnished. In case of defective Material, credit shall not be passed to the Joint Account until adjustment has been received by Operator from the manufacturers or their agents.

V. INVENTORIES

The Operator shall maintain detailed records of Controllable Material.

1. Periodic Inventories, Notice and Representation

At reasonable intervals, Inventories shall be taken by Operator of the Joint Account Controllable Material. Written notice of intention to take inventory shall be given by Operator at least thirty (30) days before any inventory is to begin so that Non-Operators may be represented when any inventory is taken. Failure of Non-Operators to be represented at an inventory shall bind Non-Operators to accept the inventory taken by Operator.

2. Reconciliation and Adjustment of Inventories

Reconciliation of a physical inventory with the Joint Account shall be made, and a list of overages and shortages shall be furnished to the Non-Operators within six months following the taking of the inventory. Inventory adjustments shall be made by Operator with the Joint Account for overages and shortages, but Operator shall be held accountable only for shortages due to lack of reasonable diligence.

3. Special Inventories

Special Inventories may be taken whenever there is any sale or change of interest in the Joint Property. It shall be the duty of the party selling to notify all other Parties as quickly as possible after the transfer of interest takes place. In such cases, both the seller and the purchaser shall be governed by such inventory.

4. Expense of Conducting Periodic Inventories

The expense of conducting periodic inventories shall not be charged to the Joint Account unless agreed to by the Parties.

EXHIBIT "D"

BEST AVAILABLE COPY

Attached to and made a part of
Operating Agreement dated SEPTEMBER 18, 1981,
between Harvey E. Yates Company as Operator,
and the other parties signatory thereto as
Non-Operators.

At all times during the conduct of operations hereunder,
Operator shall maintain in force the following insurance:

- A. Workmen's Compensation Insurance and Employers'
Liability Insurance as required by the laws of the
State in which operations are being conducted.
- B. Comprehensive General Public Liability in the
following:
 - Bodily Injury: \$200,000 each person
\$300,000 each accident
 - Property Damage: \$100,000 each accident
\$100,000 aggregate
- C. Automobile Public Liability and Property Damage
Insurance with limits of not less than \$100,000
for any one person injured in any accident and
not less than \$300,000 for any number of persons
injured in one accident, and with not less than
\$50,000 property damage coverage for one accident.

All premiums paid on such insurance shall be charged to the
joint account. Except by mutual consent of the parties, no
other insurance shall be maintained for the joint account,
and all losses not covered by such insurance shall be charged
to the joint account.

EXHIBIT "E"
ATTACHED TO AND MADE PART OF
OPERATING AGREEMENT DATED SEPTEMBER 18, 1981,
BETWEEN HARVEY E. YATES COMPANY AS OPERATOR,
AND VIKING PETROLEUM, INC., ET AL AS
NON-OPERATORS

BEST AVAILABLE COPY

GAS STORAGE AND BALANCING AGREEMENT

The parties to the Operating Agreement to which this agreement is attached own the working interest in the gas rights underlying the Unit Area covered by such agreement in accordance with the percentages of participation as set forth in Exhibit "A" to the Operating Agreement.

In accordance with the terms of the Operating Agreement, each party thereto has the right to take its share of gas produced from the Unit Area and market the same. In the event any of the parties hereto is not at any time taking or marketing its share of gas or has contracted to sell its share of gas produced from the Unit Area to a purchaser which does not at any time while this agreement is in effect take the full share of gas attributable to the interest of such party, the terms of this agreement shall automatically become effective.

During the period or periods when any party hereto has no market for its share of gas produced from any proration unit within the Unit Area, or its purchaser does not take its full share of gas produced from such proration unit, the other parties shall be entitled to produce each month one hundred percent (100%) of the allowable gas production assigned to such proration unit by the State regulatory body having jurisdiction and shall be entitled to take and deliver to its or their purchaser all of such gas production. All parties hereto shall share in and own the liquid hydrocarbons recovered from such gas by lease equipment in accordance with their respective interests and subject to the Operating Agreement to which this agreement is attached, but the party or parties taking such gas shall own all of the gas delivered to its or their purchaser.

On a cumulative basis, each party not taking or marketing its full share of the gas produced shall be credited with gas in storage equal to its full share of the gas produced under this agreement, less its share of gas used in lease operations, vented or lost, and less that portion such party took or delivered to its purchaser. The Operator will maintain a current account of the gas balance between the parties and will furnish all parties hereto monthly statements showing the total quantity of gas produced, the amount used in lease operations, vented or lost, the total quantity of liquid hydrocarbons recovered therefrom, and the monthly and cumulative over and under account of each party.

At all times while gas is produced from the Unit Area, each party hereto will make settlement with the respective royalty owners to whom they are accountable, just as if each party were taking or delivering to a purchaser its share, and its share only, of total gas production exclusive of gas used in lease operations, vented or lost. Each party hereto agrees to hold each other party harmless from any and all claims for royalty payments asserted by royalty owners to whom each party is accountable. The term "royalty owner" shall include owners of royalty, overriding royalties, production payments and similar interest.

After notice to the Operator, any party at any time may begin taking or delivering to its purchaser its full share of the gas produced from a proration unit under which it has gas in storage less such party's share of gas used in operations, vented or lost. In addition to such share, each party, including the Operator, until it has recovered its gas in storage and balanced the gas account as to its interest, shall be entitled to take or deliver to its purchaser a share of gas determined by multiplying fifty percent (50%) of the interest in the current gas production of the party or parties without gas in storage by a fraction, the numerator of which is the interest in the proration unit of such party with gas in storage and the denominator of which is the total percentage interest in such proration unit of all parties in storage currently taking or delivering to a purchaser.

Each party producing and taking or delivering gas to its purchaser shall pay any and all production taxes due on such gas.

Nothing herein shall be construed to deny any party the right, from time to time, to produce and take or deliver to its purchaser its full share of the allowable gas production to meet the deliverability tests required by its purchaser.

Should production of gas from a proration unit be permanently discontinued before the gas account is balanced, settlement will be made between the underproduced and overproduced parties. In making such settlement, the underproduced party or parties will be paid a sum of money by the overproduced party or parties attributable to the overproduction which said overproduced party received less applicable taxes theretofore paid. Such settlement shall be based upon the price actually received by the parties for overproduction when it occurred of a volume of gas equal to that for which settlement is made.

Nothing herein shall change or affect each party's obligation to pay its proportionate share of all costs and liabilities incurred, as its share thereof is set forth in the Operating Agreement.

This agreement shall constitute a separate agreement as to each proration unit within the Unit Area and shall become effective in accordance with its terms and shall remain in force and effect as long as the Operating Agreement to which it is attached remains in effect, and shall insure to the benefit of and be binding upon the parties hereto, their successors, legal representatives and assigns.

EXHIBIT "F"

ATTACHED TO AND MADE A PART OF
OPERATING AGREEMENT DATED SEPTEMBER 18, 1981,
BETWEEN HARVEY E. YATES COMPANY AS OPERATOR,
AND VIKING PETROLEUM, INC., ET AL AS
NON-OPERATORS.

NONDISCRIMINATION CLAUSE

HARVEY E. YATES COMPANY, hereinafter referred to as "Operator," agrees, unless exempt therefrom, to comply with all provisions of Executive Order 11246, which are incorporated herein by reference, and if Operator has more than 50 employees, Operator must file Standard Form 100 (EEO-1) and develop a written "Affirmative Action Compliance Program" for each of its establishments according to the Rules and Regulations published by the United States Department of Labor in 41 C.F.R., Chapter 60. Operator further hereby certifies that it does not now and will not maintain any facilities provided for its employees in a segregated manner or permit its employees to perform their services at any location under its control where segregated facilities are maintained, as such segregated facilities are defined in Title 41, Chapter 60-1.8, Code of Federal Regulations, revised as of 1/1/69, unless exempt therefrom.

Unless exempt by rules, regulations or orders of the United States Secretary of Labor, issued pursuant to Section 204 of the Executive Order 11246 dated September 24, 1965, during the performance of this contract, the Operator agrees as follows:

- "(1) The Operator will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The Operator will take affirmative action to ensure the Applicants are employed and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Operator agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting office setting forth the provisions of this nondiscrimination clause.
- "(2) The Operator will, in all solicitations or advertisements for employees placed by or on behalf of the Operator, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
- "(3) The Operator will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the Operator's commitments under Section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- "(4) The Operator will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.
- "(5) The Operator will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.

- "(6) In the event of the Operator's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations or orders, this contract may be cancelled, terminated or suspended in whole or in part and the Operator may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation or order of the Secretary of Labor, or as otherwise provided by law.
- "(7) The Operator will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Operator will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance; provided however, that in the event the Operator becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Operator may request the United States to enter into such litigation to protect the interests of the United States."

EXHIBIT "G"


Attached To and Made a Part of
Operating Agreement
dated September 18, 1981

LETTER ESCROW AGREEMENT

BEST AVAILABLE COPY

Gentlemen:

This letter supplements the Operating Agreement dated September 18, 1981, covering Lots 1, 2, 3, 4, E/2 W/2, E/2 (All) of Section 18, Township 9 South, Range 27 East, N.M.P.M., Chaves County, New Mexico, and evidences our agreement whereby you will deposit in an interest bearing escrow account to be established at the Security National Bank of Roswell, Roswell, New Mexico, the cash sum of \$ _____ for your portion of the cost, and expenses in drilling and completing (or plugging and abandoning, if dry) the Seymour State Number 1 Well, as provided for in that Operating Agreement. Upon your approval and acceptance hereof, as hereinafter provided for, you agree to open such account and deposit that sum with said Bank, hereinafter referred to as the "Escrow Agent", and agree that said Escrow Agent may thereafter disburse the same as hereinafter provided for.

Upon the drilling of the well to total depth, as more fully set forth in the Operating Agreement, we as Operator, shall submit our statement to both you and the Escrow Agent for your proportionate part of the drilling costs and related incidental expenses to that time, and said Escrow Agent shall thereupon pay Operator such amount so billed, provided that amount does not exceed the amount on deposit: if the amount so billed exceeds the amount on deposit, the Escrow Agent shall pay over to us that amount on  it, and you agree to forthwith pay any deficiency. Upon completion of that Well, Operator shall similarly

submit our statement to both you and the Escrow Agent for the additional costs of completing and equipping that well (or plugging and abandoning the same, if it be dry) and said Escrow Agent shall forthwith pay that statement, provided that amount does not exceed the amount on deposit, if the amount so billed exceeds the amount on deposit, the Escrow Agent shall pay over to us that amount on deposit, and you agree to forthwith pay any deficiency.

If the initial drilling operations be abandoned and a Substitute Well be necessary, then any funds remaining on deposit in the Escrow Account following payment of all expenses for the Initial Well shall be retained in said Escrow Account by the Escrow Agent to be applied to expenses incurred in connection with the Substitute Well. If a Substitute Well is drilled pursuant to Article XV-A of the Operating Agreement, you shall deposit with said Escrow Agent all additional sums required to constitute payment in full of your proportionate share of the total AFE costs and expenses not fewer than fifteen (15) days prior to the commencement of the Substitute Well.

If Subsequent Operations should be undertaken pursuant to Article VI-B of the Operating Agreement, you shall deposit with said Escrow Agent all additional sums required to constitute payment in full of your proportionate share of the total AFE costs and expenses within thirty (30) days of your receipt of such AFE by registered or certified mail from Operator, or not fewer than fifteen (15) days prior to the commencement of the proposed operation, whichever event occurs earlier. Should that deposit not be made within that period, you shall become a "Non-Consenting Party" under the Operating Agreement, and Article VI-B heretofore noted.

Upon full payment of such sums as heretofore provided for, and completion of the drilling program as set forth in the Operating Agreement, the Escrow Agent shall return any sums left on deposit with it, together with earned interest if any there be to you.

If this letter correctly sets forth our agreement, please evidence your acceptance on both the original and two copies and return the same to us together with your funds to establish the escrow account. Upon the deposit thereof with the Escrow Agent, said Bank will evidence its acceptance of the escrow, whereupon one fully executed copy of this letter agreement will be returned to you.

Very truly yours,

HARVEY E. YATES COMPANY

By _____

Accepted and agreed to
this _____ day of
November, 1981.

By _____

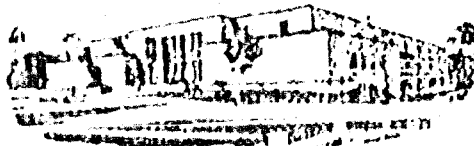
Acceptance of Escrow:

The Security National Bank of
Roswell, Roswell, New Mexico,
acknowledged receipt of the cash
sum of \$ _____ and
accepts this escrow statement
this _____ day of November, 1981.

State of New Mexico



ALEX J. ARMijo
COMMISSIONER



Commissioner of Public Lands

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

COMMUNITIZATION AGREEMENT

STATE OF NEW MEXICO) KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF CHAVES)

BEST AVAILABLE COPY

THAT THIS AGREEMENT* is entered into as of the 15th of October
19 81, by and between the parties subscribing, ratifying or consenting
hereto, such parties hereinafter being referred to as "Parties hereto";

WHEREAS, The Commissioner of Public Lands of the State of New Mexico
is authorized by the Legislature, as set forth in Sec. 19-10-53, New Mexico
Statutes, Annotated, 1973 Laws, in the interest of conservation of oil and
gas and the prevention of waste to consent to and approve the development
or operation of State lands under agreements made by lessees of oil and gas
leases thereon, jointly or severally with other oil and gas lessees of State
lands, or oil and gas lessees or mineral owners of privately owned or fee
lands, for the purpose of pooling or communitizing such lands to form a pro-
duction unit or portion thereof, or well-spacing unit, pursuant to any order,
rule or regulation of the New Mexico Oil Conservation Division of the New
Mexico Energy and Minerals Department where such agreement provides for the
allocation of the production of oil or gas from such pools or communitized
area on an acreage or other basis found by the Commissioner to be fair and
equitable.

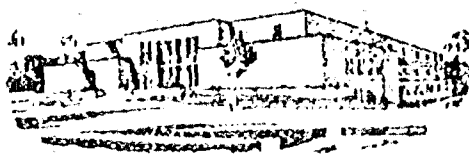
WHEREAS, the parties hereto, being oil and gas lessees of record,
covering lands subject to this agreement, insofar as such leases cover the
lands hereinafter described, which leases are more particularly, described
in the schedule attached hereto, marked Exhibit "A" and made a part hereof,
for all purposes, and

WHEREAS, said leases, insofar as they cover the ABO
Formation (hereinafter referred to as "said formation") in and

OG-66
Rev. 9-6-79

* This agreement not to be used for helium or carbon dioxide.

BEFORE THE	
OIL CONSERVATION COMMISSION	
Santa Fe, New Mexico	
Corn No. <u>7390</u>	No. <u>3</u>
Submitted by <u>HEYCO</u>	
Hearing Date <u>11-24-81</u>	



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ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Commissioner of Public Lands

under the land hereinafter described cannot be independently developed and operated in conformity with the well-spacing program established for such formation in and under said lands; and

WHEREAS, the parties hereto desire to communitize and pool their respective interests in said leases subject to this Agreement for the purpose of developing, operating and producing hydrocarbons in the said formation in and under the land hereinafter described subject to the terms hereof.

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the undersigned as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

- Township 9 South Range 27 East N.M.P.M.

Northwest Quarter (NW/4) Section 18

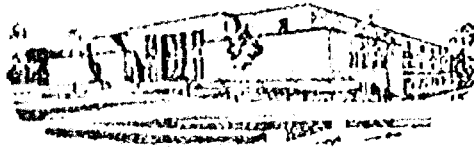
CHAVES County, New Mexico

containing 162.70 acres, more or less, and so hereby declare that it is the judgment of the parties hereto that the communitization, pooling and consolidation of the aforesaid land into a single unit for the development and production of hydrocarbons from the said formation in and under said land is necessary and advisable in order to properly develop and produce the hydrocarbons in the said formation beneath said land in accordance with the spacing rules of the Oil Conservation Division of the New Mexico Energy and Minerals Department, State of New Mexico, and in order to promote the conservation of the hydrocarbons in and that may be produced from said formation in and under said lands, and would be in the public interest;

AND, for the purposes aforesaid, the parties hereto do hereby communitize, for proration or spacing purposes only the leases described in Exhibit "A" hereto insofar as they cover hydrocarbons within and that may be produced from the said formation (hereinafter referred to as "Communitized Sub-



ALEX J. ARMIJO
COMMISSIONER



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P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Commissioner of Public Lands

stances") beneath the above-described land, into a single communitization, for the development, production, operation and conservation of the hydrocarbons in said formation beneath said lands.

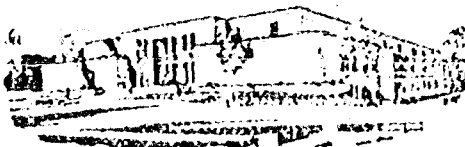
Attached hereto and made a part of this Agreement for all purposes, is Exhibit "A" showing the acreage, and ownership (Lessees of Record) of all lands within the communitized area.

2. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leases described in Exhibit "A" hereto in the proportion that the number of surface acres covered by each of such leases and included within the communitized area bears to the total number of acres contained in the communitized area.

3. Subject to Paragraph 4, the royalties payable on communitized substances allocated to the individual leases and the rentals provided for in said leases shall be determined and paid in the manner and on the basis prescribed in each of said leases. Except as provided for under the terms and provisions of the leases described in Exhibit "A" hereto or as herein provided to the contrary, the payment of rentals under the terms of said leases shall not be affected by this Agreement; and except as herein modified and changed or heretofore amended, the oil and gas leases subject to this agreement shall remain in full force and effect as originally issued and amended.

4. The State of New Mexico hereafter is entitled to the right to take in kind its share of the communitized substances allocated to such tract, and operator shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws, and regulations.

5. There shall be no obligation upon the parties hereto to offset any well or wells situated on the tracts of land comprising the communitized area,



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ALEX J. ARMIJO
COMMISSIONER

Commissioner of Public Lands

P. O. BOX 1140
SANTA FE, NEW MEXICO 87501

nor shall the undersigned be required to measure separately the communitized substances by reason of the diverse ownership of the separate tracts of land comprising the said communitized area; provided, however, that the parties hereto shall not be released from their obligation to protect the communitized area from drainage of communitized substances by wells which may be drilled within offset distance (as that term is defined) of the communitized area.

6. The Commencement, Completion, and Continued operation of production of a well or wells for communitized substances on the communitized area shall be considered as the commencement, completion, continued operation or production as to each of the leases described in Exhibit "A" hereto.

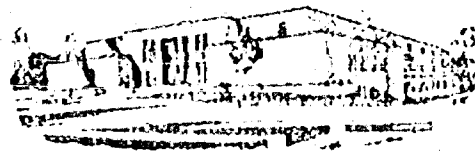
7. The production of communitized substances and disposal thereof shall be in conformity with the allocations, allotments and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State laws or statutes. This Agreement shall be subject to all applicable Federal and State laws, executive orders, rules and regulations affecting the performance of the provisions hereof, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this Agreement if compliance is prevented by or if such failure results from compliance with any such laws, orders, rules and regulations.

8. HARVEY E. YATES COMPANY shall be the Operator of said communitized area and all matters of operation shall be determined and performed by HARVEY E. YATES COMPANY.

9. This Agreement shall be effective as of the date herein-above written upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Commissioner of Public Lands, shall remain in full



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

BEST AVAILABLE COPY

force and effect for a period of one year from the date hereof and as long thereafter as communitized substances are produced from the communitized area in commercial quantities; provided, however, that prior to production in commercial quantities from the communitized area, and upon fulfillment of all requirements of the Commissioner of Public Lands with respect to any dry hole or abandoned well drilled upon the communitized area, this Agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production of communitized substances if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of non-production.

10. Operator will furnish the Oil Conservation Division of the New Mexico Energy and Minerals Department, and the Commissioner of Public Lands, of the State of New Mexico, with any and all reports, statements, notices and well logs and records which may be required under the laws and regulations of the State of New Mexico.

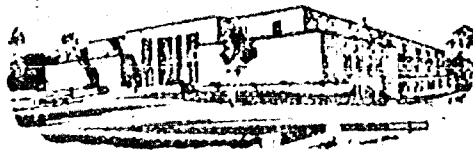
11. It is agreed between the parties hereto that the Commissioner of Public Lands, or his duly authorized representatives, shall have the right of supervision over all operations under the communitized area to the same extent and degree as provided in the oil and gas leases described in Exhibit "A" hereto and in the applicable oil and gas regulations of the State of New Mexico.

12. If any order of the Oil Conservation Division of the New Mexico Energy and Minerals Department, upon which this agreement is predicated or based is in anyway changed or modified, then and in such event said agreement is likewise modified to conform thereto.

13. This Agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instruments, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart,



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

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ratification or consent hereto with the same force and effect as if all parties had signed the same document.

14. This Agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

ATTEST: OPERATOR: HARVEY E. YATES COMPANY

Secretary By: President

LESSEES OF RECORD:

JACK J. GRYNBERG

CELESTE C. GRYNBERG

STATE OF NEW MEXICO)
COUNTY OF CHAVES) SS

The foregoing instrument was acknowledged before me this day of November 1978 by GEORGE M. YATES ~~XXXXXXXXXX~~ President
on behalf of HARVEY E. YATES Company.

My Commission Expires

NOTARY PUBLIC

BEST AVAILABLE COPY

[illegible]

NOTARY PUBLIC

~~XX~~

NOTARY PUBLIC

My Commission Expires: _____ NOTARY PUBLIC

My Commission Expires: _____ NOTARY PUBLIC

EXHIBIT "A"

Attached to and made a part of that Communitization Agreement dated

October 15, 1981 by and between Harvey E. Yates Company, Jack J.

Grynberg, and Celeste C. Grynberg .XXXXXXXXXXXXXXXXXXXXX

XXXXXX covering the NW/4 Section 18 Township 9 South

Range 27 East, CHAVES County, New Mexico

Operator of Communitized Area:

Company HARVEY E. YATES COMPANY

Description of Leases Committed:

Company _____

Tract No. 1

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:

HARVEY E. YATES COMPANY

Serial No. of Lease:

L-6775

Date of Lease:

December 1, 1971

Description of Lands

Committed:

Lots 1, 2 - Section 18,
Township 9 South, Range 27 East

No. of Acres:

82.70

Company:

Tract No. 2

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:

Jack J. Grynberg & wife, Celeste C. Grynberg

Serial No. of Lease:

L-6907

Date of Lease:

February 1, 1972

Description of lands

Committed:

E/2 NW/4 - Section 18,
Township 9 South, Range 27 East

No. of Acres:

80.0

Tract No. 3

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:

Serial No. of Lease:

Date of Lease:

Description of Lands

Committed:

No. of Acres

Company:

Tract No. 4

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:

Serial No. of Lease:

Date of Lease:

Description of Lands

Committed:

No. of Acres:

RECAPITULATIONTRACT NO.NO. OF ACRES
COMMITTEDPERCENTAGE OF INTEREST
IN COMMUNITIZED AREA

Lease No. 1

82.70

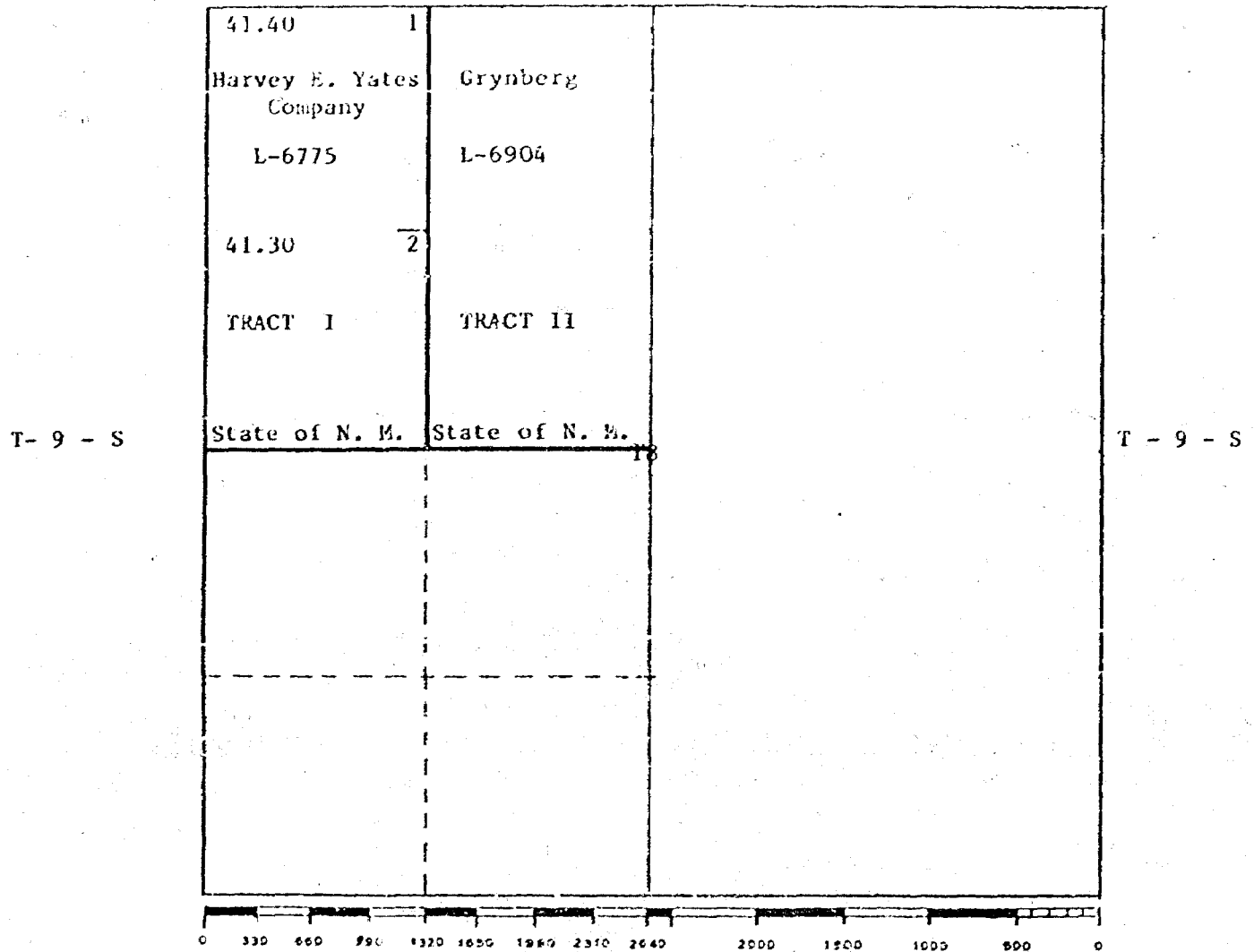
50.829748%

Lease No. 2

80.00
162.7049.170252%
100.000000%

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R - 27 - E



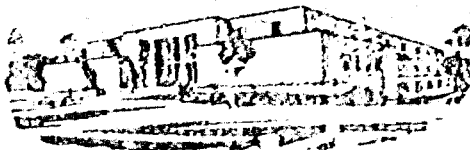
R - 27 - E

ATTACHED TO AND MADE A PART OF THE COMMUNITIZATION AGREEMENT
DATED OCTOBER 15, 1981,
COVERING THE NORTHWEST QUARTER (NW/4)
SECTION 18, T-9S, R-27E, N.M.P.M.
CHAVES COUNTY, NEW MEXICO

ABO FORMATION

SEYMOUR STATE COM #1

State of New Mexico



Commissioner of Public Lands

ALEX J. ARMISTO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

COMMUNITIZATION AGREEMENT

STATE OF NEW MEXICO) KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF CHAVES)

THAT THIS AGREEMENT* is entered into as of the 15th of October
19 81, by and between the parties subscribing, ratifying or consenting
hereto, such parties hereinafter being referred to as "Parties hereto";

WHEREAS, The Commissioner of Public Lands of the State of New Mexico
is authorized by the Legislature, as set forth in Sec. 19-10-53, New Mexico
Statutes, Annotated, 1978 Laws, in the interest of conservation of oil and
gas and the prevention of waste to consent to and approve the development
or operation of State lands under agreements made by lessees of oil and gas
leases thereon, jointly or severally with other oil and gas lessees of State
lands, or oil and gas lessees or mineral owners of privately owned or fee
lands, for the purpose of pooling or communitizing such lands to form a pro-
duction unit or portion thereof, or well-spacing unit, pursuant to any order,
rule or regulation of the New Mexico Oil Conservation Division of the New
Mexico Energy and Minerals Department where such agreement provides for the
allocation of the production of oil or gas from such pools or communitized
area on an acreage or other basis found by the Commissioner to be fair and
equitable.

WHEREAS, the parties hereto, being oil and gas lessees of record,
covering lands subject to this agreement, insofar as such leases cover the
lands hereinafter described, which leases are more particularly, described
in the schedule attached hereto, marked Exhibit "A" and made a part hereof,
for all purposes, and

WHEREAS, said leases, insofar as they cover the MISSISSIPPIAN
Formation (hereinafter referred to as "said formation") in and

OG-66
Rev. 9-6-79

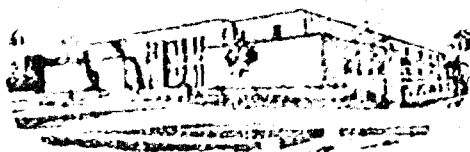
* This agreement not to be used for helium or carbon dioxide

BEFORE THE	
OIL CONSERVATION COMMISSION	
Santa Fe, New Mexico	
Case No. <u>7390</u>	Subscribed by <u>HEYCO</u>
Hearing Date <u>11/24/81</u>	



ALEX J. ARMISTEAD
COMMISSIONER

State of New Mexico



BEST AVAILABLE COPY

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Commissioner of Public Lands

under the land hereinafter described cannot be independently developed and operated in conformity with the well-spacing program established for such formation in and under said lands; and

WHEREAS, the parties hereto desire to communitize and pool their respective interests in said leases subject to this Agreement for the purpose of developing, operating and producing hydrocarbons in the said formation in and under the land hereinafter described subject to the terms hereof.

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the undersigned as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

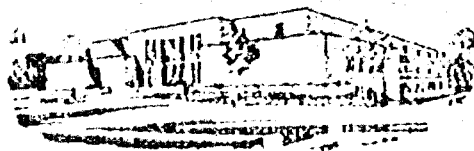
- Township 9 South, Range 27 East N.M.P.M.

West One-half (W/2) Section 18

Chaves County, New Mexico

containing 325.04 acres, more or less, and so hereby declare that it is the judgment of the parties hereto that the communitization, pooling and consolidation of the aforesaid land into a single unit for the development and production of hydrocarbons from the said formation in and under said land is necessary and advisable in order to properly develop and produce the hydrocarbons in the said formation beneath said land in accordance with the spacing rules of the Oil Conservation Division of the New Mexico Energy and Minerals Department, State of New Mexico, and in order to promote the conservation of the hydrocarbons in and that may be produced from said formation in and under said lands, and would be in the public interest;

AND, for the purposes aforesaid, the parties hereto do hereby communitize, for proration or spacing purposes only the leases described in Exhibit "A" hereto insofar as they cover hydrocarbons within and that may be produced from the said formation (hereinafter referred to as "Communitized Sub-



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ALEX J. ARMIJO
COMMISSIONER

Commissioner of Public Lands

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

stances") beneath the above-described land, into a single communitization; for the development, production, operation and conservation of the hydrocarbons in said formation beneath said lands.

Attached hereto and made a part of this Agreement for all purposes, is Exhibit "A" showing the acreage, and ownership (Lessees of Record) of all lands within the communitized area.

2. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leases described in Exhibit "A" hereto in the proportion that the number of surface acres covered by each of such leases and included within the communitized area bears to the total number of acres contained in the communitized area.

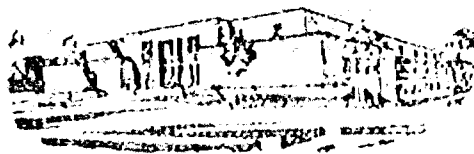
3. Subject to Paragraph 4, the royalties payable on communitized substances allocated to the individual leases and the rentals provided for in said leases shall be determined and paid in the manner and on the basis prescribed in each of said leases. Except as provided for under the terms and provisions of the leases described in Exhibit "A" hereto or as herein provided to the contrary, the payment of rentals under the terms of said leases shall not be affected by this Agreement; and except as herein modified and changed or heretofore amended, the oil and gas leases subject to this agreement shall remain in full force and effect as originally issued and amended.

4. The State of New Mexico hereafter is entitled to the right to take in kind its share of the communitized substances allocated to such tract, and operator shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws, and regulations.

5. There shall be no obligation upon the parties hereto to offset any well or wells situated on the tracts of land comprising the communitized area,



ALEX J. ARMijo
COMMISSIONER



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P. O. BOX 1142
SANTA FE, NEW MEXICO 87501

Commissioner of Public Lands

nor shall the undersigned be required to measure separately the communitized substances by reason of the diverse ownership of the separate tracts of land comprising the said communitized area; provided, however, that the parties hereto shall not be released from their obligation to protect the communitized area from drainage of communitized substances by wells which may be drilled within offset distance (as that term is defined) of the communitized area.

6. The Commencement, Completion, and Continued operation of production of a well or wells for communitized substances on the communitized area shall be considered as the commencement, completion, continued operation or production as to each of the leases described in Exhibit "A" hereto.

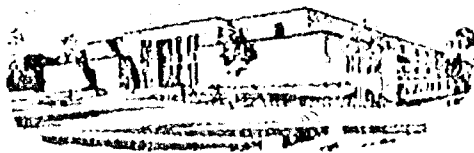
7. The production of communitized substances and disposal thereof shall be in conformity with the allocations, allotments and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State laws or statutes. This Agreement shall be subject to all applicable Federal and State laws, executive orders, rules and regulations affecting the performance of the provisions hereof, and no party hereto shall suffer a forfeiture or be liable in damages for failure to comply with any of the provisions of this Agreement if compliance is prevented by or if such failure results from compliance with any such laws, orders, rules and regulations.

8. HARVEY E. YATES COMPANY shall be the Operator of said communitized area and all matters of operation shall be determined and performed by HARVEY E. YATES COMPANY.

9. This Agreement shall be effective as of the date herein-above written upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Commissioner of Public Lands, shall remain in full



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

BEST AVAILABLE COPY

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

force and effect for a period of one year from the date hereof and as long thereafter as communitized substances are produced from the communitized area in commercial quantities; provided, however, that prior to production in commercial quantities from the communitized area, and upon fulfillment of all requirements of the Commissioner of Public Lands with respect to any dry hole or abandoned well drilled upon the communitized area, this Agreement may be terminated at any time by mutual agreement of the parties hereto. This agreement shall not terminate upon cessation of production of communitized substances if, within sixty (60) days thereafter, reworking or drilling operations on the communitized area are commenced and are thereafter conducted with reasonable diligence during the period of non-production.

10. Operator will furnish the Oil Conservation Division of the New Mexico Energy and Minerals Department, and the Commissioner of Public Lands, of the State of New Mexico, with any and all reports, statements, notices and well logs and records which may be required under the laws and regulations of the State of New Mexico.

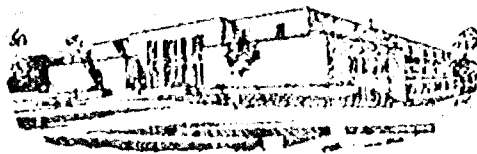
11. It is agreed between the parties hereto that the Commissioner of Public Lands, or his duly authorized representatives, shall have the right of supervision over all operations under the communitized area to the same extent and degree as provided in the oil and gas leases described in Exhibit "A" hereto and in the applicable oil and gas regulations of the State of New Mexico.

12. If any order of the Oil Conservation Division of the New Mexico Energy and Minerals Department, upon which this agreement is predicated or based is in anyway changed or modified, then and in such event said agreement is likewise modified to conform thereto.

13. This Agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instruments, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart,



ALEX J. ARMijo
COMMISSIONER



Commissioner of Public Lands

BEST AVAILABLE COPY

P. O. BOX 1103
SANTA FE, NEW MEXICO 87501

ratification or consent hereto with the same force and effect as if all parties had signed the same document.

14. This Agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written.

ATTEST:

OPERATOR:

HARVEY E. YATES COMPANY

Secretary

BY:

President

LESSEES OF RECORD:

JACK J. GRYNBERG

CELESTE C. GRYNBERG

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

SS

The foregoing instrument was acknowledged before me this day of November 1978 by GEORGE M. YATES ~~XXXXXX~~ President ~~XXXXXX~~ on behalf of HARVEY E. YATES Company.

My Commission Expires

NOTARY PUBLIC

STATE OF _____)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____
day of _____, 1978 by JACK J. GRYNBERG, _____
in Fact on behalf of _____ Company.

My Commission Expires: _____ NOTARY PUBLIC

STATE OF _____)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____
day of _____, 1978 by CELESTE C. GRYNBERG, _____
in Fact on behalf of _____ Company.

My Commission Expires: _____ NOTARY PUBLIC

STATE OF _____)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____
day of _____, 197____ by _____, as Attorney
in Fact on behalf of _____ Company.

My Commission Expires: _____ NOTARY PUBLIC

STATE OF _____)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____
day of _____, 197____ by _____, as Attorney
in Fact on behalf of _____ Company.

My Commission Expires: _____ NOTARY PUBLIC

EXHIBIT "A"

Attached to and made a part of that Commitment Agreement dated

October 15, 1981 by and between Harvey E. Yates Company, Jack J.Grynberg, and Celeste C. Grynberg. xxxxxxxxxxxxxxxxxxxxxxxxcovering the W/2 Section 18 Township 9 SouthRange 27 East, Chaves County, New MexicoOperator of Commitment Area:Company HARVEY E. YATES COMPANYDescription of Leases Committed:

Company _____

Tract No. 1

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:

HARVEY E. YATES COMPANY

Serial No. of Lease:

L-6775

Date of Lease:

December 1, 1971

Description of Lands

Committed:

Lots 1, 2, 3, 4, E/2 SW/4 - Section 18
Township 9 South, Range 27 East

No. of Acres:

245.04

Company: _____

Tract No. 2

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:

Jack J. Grynberg & wife, Celeste C. Grynberg

Serial No. of Lease:

L-6907

Date of Lease:

February 1, 1972

Description of Lands

Committed:

E/2 NW/4 - Section 18
Township 9 South, Range 27 East

No. of Acres:

80.00

Tract No. 3

BEST AVAILABLE COPY

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:
Serial No. of Lease:
Date of Lease:
Description of Lands
Committed:

No. of Acres

Company:

Tract No. 4

Lessor:

State of New Mexico acting by and
through its Commissioner of Public
Lands

Lessee of Record:
Serial No. of Lease:
Date of Lease:
Description of Lands
Committed:

No. of Acres:

RECAPITULATION

TRACT NO.

NO. OF ACRES
COMMITTED

PERCENTAGE OF INTEREST
IN COMMUNITIZED AREA

Lease No. 1

245.04

75.387645%

Lease No. 2

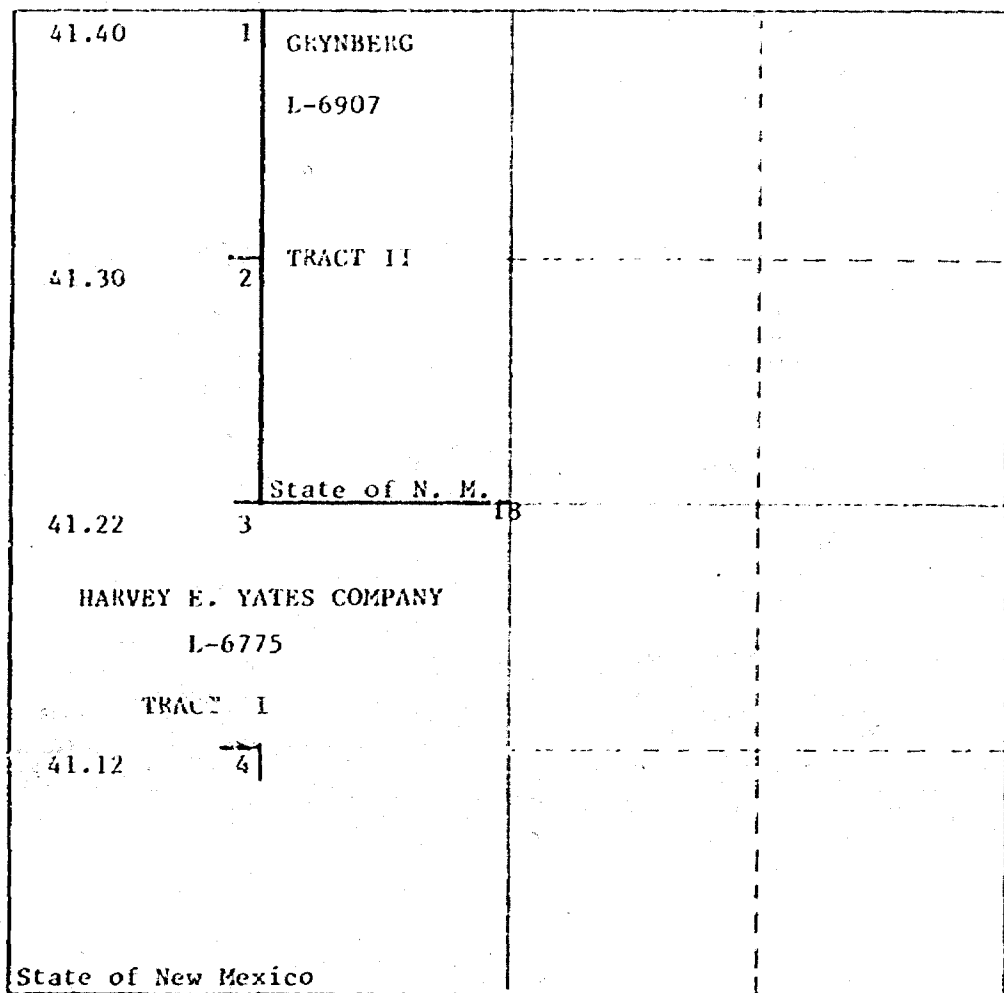
80.00
325.04

24.612355%
100.000000%

BEAT AND ADJ COPY

R - 27 - E

T - 9 - S



T - 9 - S

R - 27 - E

ATTACHED TO AND MADE A PART OF THE COMMUNITIZATION AGREEMENT
DATED OCTOBER 15, 1981,
COVERING THE WEST ONE-HALF (W/2)
SECTION 18, T-9S, R-27E, N.M.P.M.
CHAVES COUNTY, NEW MEXICO

MISSISSIPPIAN FORMATION

SEYMOUR STATE COM #1

LOCATION: 660' INL & 1980' ENL, Sec-18, T-9S, R-27E

COUNTY: Chaves

WELL NO: 6350

WELL TYPE: COMMERCIAL; Penn-Miss

Drilling and completion costs

Intangible drilling costs

Location	20000	20000
Contract 6350 34.95/ft + tax	230800	230800
Contract 5 days 7700	38500	38500
Surface casing service	4700	4700
Intermediate casing service	9000	9000
Prod. water	35000	35000
Company supervision, engineer	3000	3000
Rental, casing service	15000	15000
Miscellaneous	25000	25000
Total intangible drilling costs	381000	381000

Intangible formation evaluation cost

Form. CND GR-Caliper, DLL	16500	16500
Micro-SFL w/GR & Caliper		
2 3500/each	7000	7000
Geological and logging service	5000	5000
Miscellaneous	4000	4000
Total intangible formation evaluation	32500	32500

Intangible completion costs

Contract 20 days 1450/day	29000	
Production casing service	6500	
Completion fluid	2500	
Perforating/production logging	8500	
Chemical	25000	
Company supervision	4000	1500
Plugging expense		7500
Miscellaneous	10000	
Total intangible completion costs	85500	9000

Tangible drilling costs and completion costs

Surface casing		
325 ft 13 3/8	6250	6250
Intermediate casing		
1500 ft 8 5/8	14950	14950
Production casing		
6350 ft 4 1/2	40725	
Production tubing		
6300 ft 2 3/8	24750	
Casing head	2600	
Tubing head	13000	
Christmas tree	8000	
Subsurface equipment	1500	
Total tangible drilling costs and completion costs	111175	21200

Lease equipment

Trucks 2 500 Bbl	10000	
Separator	10000	
Flow lines	3500	
Meter runs	2000	
Pumpin' unit		
Installation costs	3500	
Total lease equipment	29000	

Total intangible costs	499000	422500
Total tangible costs	111175	21200
Total lease equipment	29000	
Administrative	4000	2500

TOTAL COSTS

Prepared by: Peck Hardee

Date: 9/30/81

643175 446200

"It is recognized that the amounts provided for herein are estimated only, and approval of this authorization shall extend to the actual costs incurred in conducting the operations specified, whether more or less than herein set out."

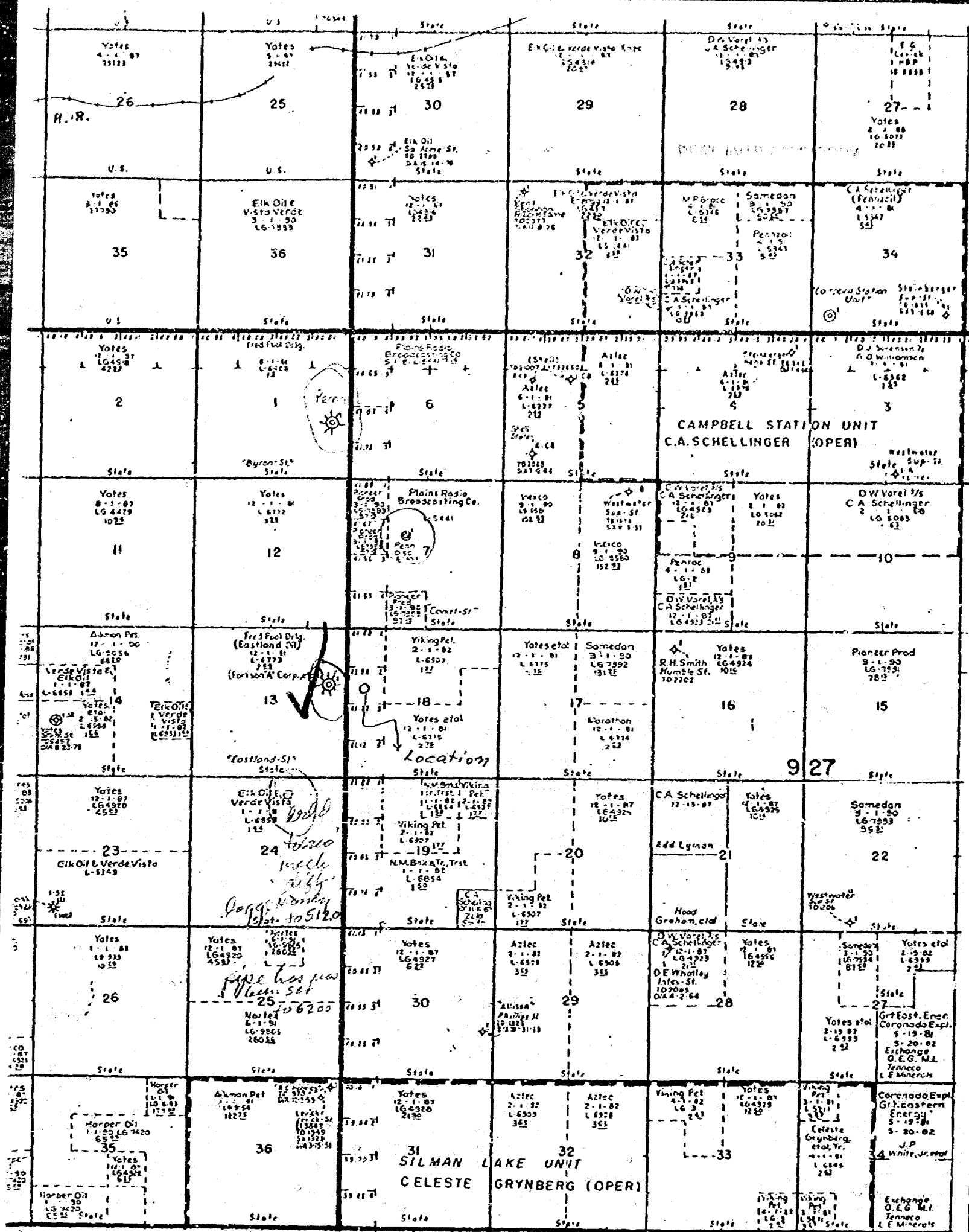
APPROVED BY THE
OIL CONSERVATION COMMISSION

Secretary of the Commission

Case No. 7390 5

See Company HEYCO

Effective Date 11/24/81



R26E

R27E

BEST AVAILABLE COPY

EXHIBIT A

Numbers on federal leases indicate following:

- (1) Primary term.
- (2) Secondary term.
- (3) Extended two years by partial assignment.

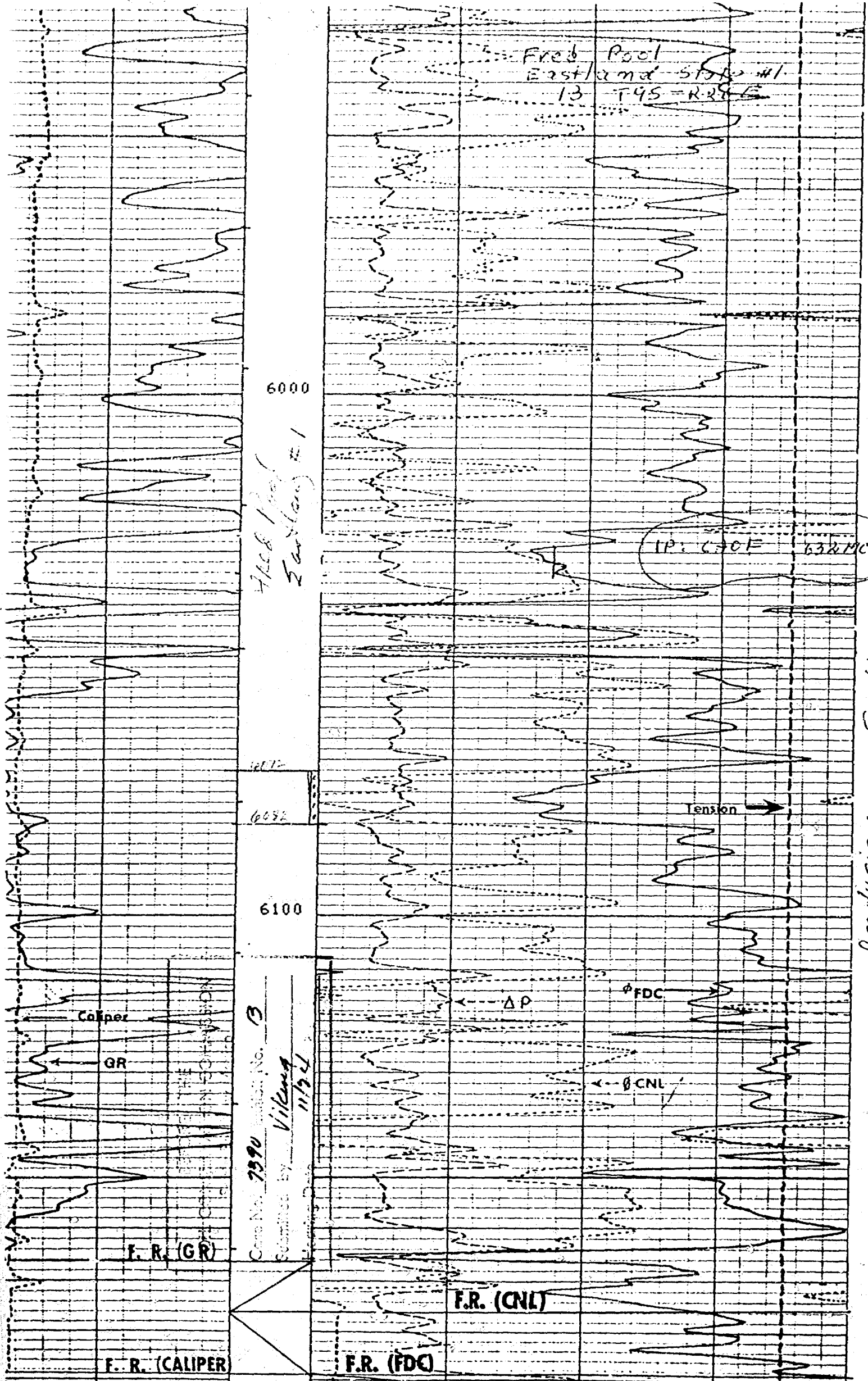
State leases show ten year terms from date

This map contains certain identification mark which will appear in any attempt to reproduce map. Any reproduction and/or copying will

7390

Viking
11/24

A



Fred Pool
East and 5190 #1
13 T95-R28-E

IP: 630E 632 MCFD

Tension →

ΔP
φ FDC
φ CNI

Core No. 7590
Examined by Viking
11/21

Caliper
GR

F.R. (GR)
F.R. (CALIPER)

F.R. (CNI)
F.R. (FDC)

Section
Producing

Fred Pool Grynberg Fed #1

TOWNSHIP 6 SOUTH - RANGE 24 EAST
Section 13

Perforated Interval 4848 - 4854 ft.

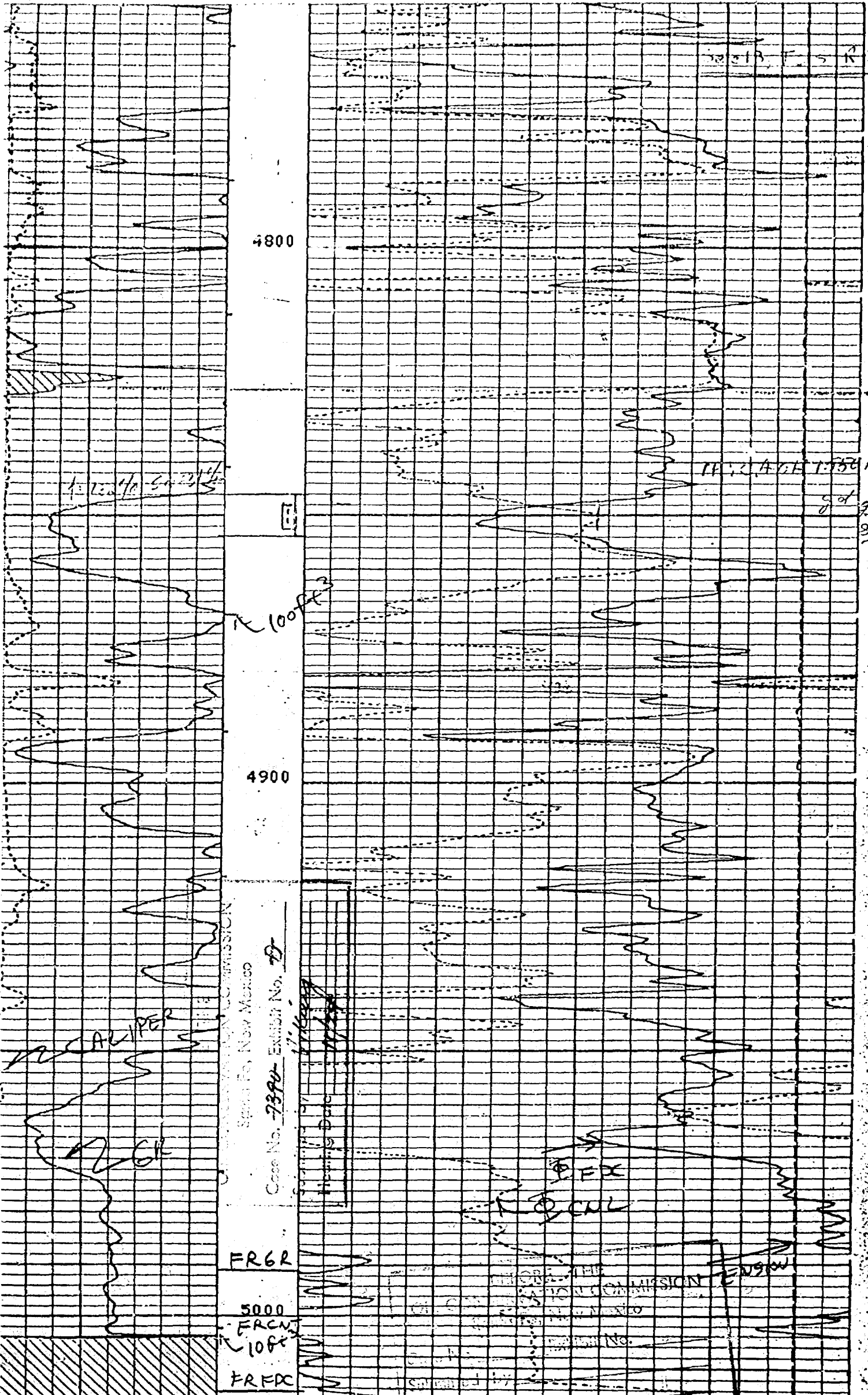
Production from Penn

March 1981	552 MCF
April 1981	546 MCF
May 1981	218 MCF
June 1981	61 MCF
July 1981	163 MCF
Aug. 1981	-
	<u>1540 MCF</u>

BEST AVAILABLE COPY

BEFORE THE	
OIL CONSERVATION COMMISSION	
Santa Fe, New Mexico	
Case No. <u>7390</u>	Exhibit No. <u>C</u>
Submitted by <u>Villing</u>	
Hearing Date <u>11/24</u>	

EXHIBIT C



12-758 F. S. R. 24E

4800

12-758 F. S. R. 24E

gas show

100%

4900

CALIPER

GR

Case No. 7390- EXHIBIT No. 8
Sealed by New Mexico
FEDERAL COMMISSION

FR62

5000

FR62

100%

FR62

FR62

FR62

FR62

FR62

FR62

PENN SECTION

FEDERAL COMMISSION
Sealed by New Mexico

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NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 8-19-80	
Company FRED POOL				To AIR	
Field PENN				Unit	
Completion Date 8-19-80		Total Depth 5035		Elevation 3898	
Casing Size 4 1/2		Set At 5035		Perforations: From 4848 To 4854	
Tub. Size 2 3/8		Set At 4804		Perforations: From OPEN To END	
Type Well - Single - Packerhead - G.G. or G.O. Multiple SINGLE				Packer Set At 4804	
Producing Thru TUBING		Reservoir Temp. °F 123° 4851		Mean Annual Temp. °F 60°	
L 4851		H 4851		Ratio. Press. - P _a 13.2	
C _g .669		% CO ₂ 1.417		% H ₂ S 13.917	
Prover 4"		Meter Run 4"		Taps FLANGE	
COUNTY CHAVES					
STATE NEW MEXICO					

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. p.s.i.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	4 X 1.00			510	8	74	1895				45 MIN.
2.	4 X 1.00			530	26	70	1630	71			45 MIN.
3.	4 X 1.00			540	52	68	1420	70			60 MIN.
4.	4 X 1.00			540	68	68	1128	72			60 MIN.
5.							965	75			60 MIN.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super. Compens. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	64.70	523.2	.9868	1.223	1.034	384
2	4.753	118.84	543.2	.9905	1.223	1.036	709
3	4.753	169.61	553.2	.9924	1.223	1.037	1015
4	4.753	193.95	553.2	.9924	1.223	1.037	1160
5							

NO.	R _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.81	534	1.59	.935	A.P.I. Gravity of Liquid Hydrocarbons	Dec.
2	.84	530	1.58	.932	Specific Gravity Separator Gas	.669
3	.86	528	1.58	.930	Specific Gravity Flowing Fluid	X X X X X
4	.86	528	1.58	.930	Critical Pressure	647
5					Critical Temperature	335

NO.	P _i ²	P _w	P _e ²	P _e ² - P _w ²
1		1672.1	2795.9	845.3
2		1488.6	2215.9	1425.3
3		1218.1	1483.7	2157.5
4		1039.3	1080.1	2561.1
5				

$$\frac{P_e^2}{P_e^2 - P_w^2} = 1.422$$

$$\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.550$$

$$\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.336$$

Alcohol BEFORE THE 1.550		Meth. @ 15.02%		Angle of Slope @ 50.5		Slope, n 824	
OIL CONSERVATION COMMISSION							
Santa Fe, New Mexico							
Case No. 100-1000		Conducted By: W.S.		Calculated By: R.R.		Checked By: J.W.W.	
Submitted by							

Dockets Nos. 1-82 and 2-82 are tentatively set for January 6 and January 20, 1982. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - DECEMBER 22, 1981

OIL CONSERVATION COMMISSION - 9 A.M.
ROOM 205, STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO

BEST AVAILABLE COPY

CASE 7390: (Continued and Readvertised)

Application of Harvey E. Yates Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Ordovician formation underlying the W/2 of Section 18, Township 9 South, Range 27 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

(The following cases have been continued from December 3, 1981 Commission Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the following cases. Copies of all rule changes and forms as presently proposed are available for inspection during normal business hours at the main office of the Oil Conservation Division, State Land Office Building, Santa Fe, and at the Division's District Offices in Artesia, Aztec, and Hobbs.

CASE 7433: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the designation of two crude petroleum oil producing areas and the amendment of the Oil Conservation Division's Rules and Regulations governing the acquisition, movement, and disposition of crude oil and condensate, sediment oil, tank bottoms and other miscellaneous hydrocarbons as well as produced waters. Pursuant to Section 30-16-46, NMSA 1978 Comp. the Commission would designate Chaves, De Baca, Eddy, Lea, and Roosevelt Counties, and Cibola, McKinley, Rio Arriba, Sandoval, San Juan, and Valencia Counties as Crude Petroleum Oil Producing Areas. Further, in order to facilitate oil theft investigation and provide an improved audit trail for the movement of liquid hydrocarbons, the Commission will consider certain amendments to the Division's Rules relating to the acquisition, movement, and disposition of crude oil and condensate, sediment oil, tank bottoms and other miscellaneous hydrocarbons as well as produced waters. Specifically, the Commission will consider the amendment of Division Rules 310, 311, 312, 1110, 1117, and 1118, and the adoption of new Rules 709, 710, 804, and 1133. Also to be considered will be the revision of existing Forms C-117-A and C-117-B governing the acquisition, movement and disposition of tank bottoms, sediment oil, waste oil and other miscellaneous hydrocarbons, and the adoption of a new Form C-133, Authorization To Move Produced Water.

CASE 7434: The Commission will consider the amendment of Division Rule 112-A to permit the Division's District Supervisors to approve the multiple completion of wells under certain specified conditions and to delete the requirement for notice to offset operators. Form C-107, Application For Multiple Completion, would also be revised. Also to be considered will be the amendment of Rule 303-C to permit the Division Director to approve the downhole commingling, under certain specified conditions, of two or more oil zones, or gas zones, or oil zones and gas zones in the wellbore of a single well.

CASE 7435: The Commission will consider the amendment of Rule 104 of the Oil Conservation Division Rules and Regulations. Specifically, the Commission will consider the amendment of Rule 104 to permit the Division Director to approve unorthodox gas well locations for geological reasons under certain specified conditions in Lea, Chaves, Eddy, and Roosevelt Counties, and the amendment of Rule 104 B Section III to require the dedication of 160 acres to wells projected as gas wells in presumed or known gas producing formations and areas outside Lea, Chaves, Eddy, Roosevelt, San Juan, Rio Arriba, and Sandoval Counties.

CASE 7436: The Commission will consider the adoption of a Rule Number for the Definitions Section of the Division's Rules.

Page 2

COMMISSION HEARING - TUESDAY - DECEMBER 22, 1981

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CASE 7437: The Commission will consider the amendment of Division Rule 105 to prescribe certain requirements governing the disposition of drill cuttings and drilling fluids.

CASE 7438: The Commission will consider the amendment of Division Rule 1204 to require applicants for hearings to make a reasonable effort to provide notice of hearings to adversely affected persons or, in the alternative, to adversely affected operators.

Docket No. 42-81

DOCKET: EXAMINER HEARING - MONDAY - DECEMBER 28, 1981

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following case will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

CASE 7450: Application of Kenai Oil and Gas Inc. for a unit agreement, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Ojito Unit Area, comprising 6425 acres, more or less, of Federal and fee lands in Townships 24 and 25 North, Ranges 1 and 2 West.

DOCKET: COMMISSION HEARING - TUESDAY - NOVEMBER 24, 1981

9 A.M. - OIL CONSERVATION COMMISSION - ROOM 205 - STATE
LAND OFFICE BUILDING, SANTA FE, NEW MEXICO.

FILED AMARILLO COUNTY

CASE 7042: (Reopened and Readvertised)

In the matter of Case 7042 being reopened pursuant to the provisions of Order R-6659, which order continued indefinitely, the application of Doyle Hartman for the extension of vertical limits of the Langlie mattix Pool, Lea County, New Mexico. All interested parties may appear and present evidence relating to this matter.

CASE 7043: (Rehearing)

Application of Cities Service Company for downhole commingling and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie Mattix production in the wellbores of the following Doyle Hartman wells in Section 19, Township 24 South, Range 37 East: his Adele Sowell Wells Nos. 1 and 2 located in Units I and P, respectively, and his Cities Thomas Wells Nos. 1, 3, and 4 in Units B, H, and G, respectively. Applicant, further seeks approval of the simultaneous dedication of the E/2 of Section 19, for Jalmat production from the above Hartman wells and from its Thomas "A" Wells Nos. 1 and 2, located in Units O and G, respectively. Pursuant to Rule 1222 of the Division Rules and Regulations, applicant requested rehearing of Case No. 7043 after entry of Order No. R-6660 in said case on April 23, 1981.

CASE 7390: (Continued and Readvertised)

Application of Harvey E. Yates Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Mississippian formation underlying the W/2 of Section 18, Township 9 South, Range 27 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 7409: Application of Viking Petroleum, Inc. for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Pennsylvanian formation underlying the N/2 of Section 18, Township 9 South, Range 27 East, to be dedicated to a well to be drilled in the SE/4 NW/4 of said Section 18. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505-623-6601

ROSWELL, NEW MEXICO 88201

January 15, 1982

Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

ATTENTION: Mr. Joe Ramey

Case 7390

RE: Seymour State #1
T-9S, R-27E, N.M.P.M.
Section 18: W/2
Chaves County, New Mexico
Order No. R-6873
(HEYCO Ref: 9142)

Gentlemen:

In accordance with O.C.D. Order No. R-6873, enclosed please find a copy of our APE covering the Seymour State #1 well located in Chaves County, New Mexico, Section 18, R-9S, R-27E.

Sincerely,

Thomas J. Hall, III
Attorney

TJH:dk

Enclosure

LEASE HEYCO SEYMOUR STATE WELL NUMBER 1
 LOCATION 660' FWL & 1980' FNL, Sec-18, T-2S, R-27E
 COUNTY Chaves DEPTH 6350 PRODUCING FORMATION Ordovician

BEST AVAILABLE COPY

	Producing Well Cost	Dry Hole Cost
Drilling and completion costs		
Intangible drilling costs		
Location	\$ 20000	\$ 20000
Footage 6350 @ 34.95/ft + tax	230800	230800
Daywork 5 days @ 7700	38500	38500
Surface casing service	4700	4700
Intermediate casing service	9000	9000
Mud, water	35000	35000
Company supervisor, engineer	3000	3000
Rentals, coring service	15000	15000
Miscellaneous	25000	25000
Total intangible drilling costs	\$ 381000	\$ 381000
Intangible formation evaluation cost		
Logs, CND, GR-Caliper, DLL	16500	16500
Mirco-SFL w/GR & Caliper		
DST 2 @ 3500/each	7000	7000
Geological mud logging service	5000	5000
Miscellaneous	4000	4000
Total intangible formation evaluation	\$ 32500	\$ 32500
Intangible completion costs		
Unit cost 20 days @ 1450/day	29000	
Production casing service	6500	
Completion fluid	2500	
Perforating/production logging	8500	
Treating	25000	
Company supervision	4000	1500
Plugging expense		7500
Miscellaneous	10000	
Total intangible completion costs	\$ 85500	\$ 9000
Tangible drilling costs and completion costs		
Surface casing		
325 of 13 3/8	6250	6250
Intermediate casing		
1500 of 8 5/8	14950	14950
Production casing		
6350 of 4 1/2	40725	
Production tubing		
6300 of 2 3/8	24750	
Casing head	2000	
Tubing head	13000	
Christmas tree	8000	
Subsurface equipment	1500	
Total tangible drilling costs and completion costs	\$ 111175	\$ 21200
Lease equipment		
Tanks 2 @ 500 Bbl	10000	
Separator	10000	
Flow lines	3500	
Meter runs	2000	
Pumping Unit		
Installation costs	3500	
Total lease equipment	\$ 29000	\$
Total intangible costs	499000	422500
Total tangible costs	111175	21200
Total lease equipment	29000	
Administrative	4000	2500
TOTAL COSTS	\$ 643175	\$ 446200

Prepared by: Peck Hardee Date: 1/13/82

APPROVED BY:

"It is recognized that the amounts provided for herein are estimated only, and approval of this authorization shall extend to the actual costs incurred in conducting the operations specified, whether more or less than herein set out."

By _____
 Company _____
 Date _____

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1931

SUITE 300, SECURITY NATIONAL BANK BUILDING

505 623 6601

ROSWELL, NEW MEXICO 88201

September 25, 1981

Case 7390

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

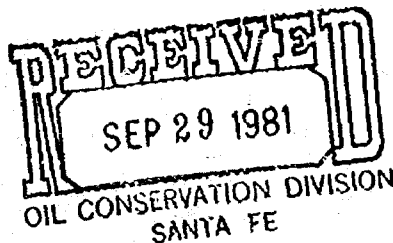
Re: Application for
Compulsory Pooling
Seymour State #1
Section 18: E/2 SW/4,
E/2 NW/4 (being W/2)
T-9S, R-27E, N.M.P.M.
Eddy County, New Mexico

Thomas J. Hall, III
Attorney

Gentlemen:

Enclosed for filing is an original and two copies of an Application for Compulsory Pooling on the above captioned well. Would you kindly set this matter for hearing on October 21, 1981?

Please provide us with a Docket of the same. Thank you.



Sincerely,

Thomas J. Hall, III
Thomas J. Hall, III
Attorney

TJH:dk
OCD #36

Enclosures

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

SUITE 300, SECURITY NATIONAL BANK BUILDING

505-623-6601

ROSWELL, NEW MEXICO 89201

October 20, 1981

Case 7390

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: Application for
Compulsory Pooling
Seymour State #1
Section 18: E/2 SW/4,
E/2 NW/4 (being W/2)
T-9S, R-27E, N.M.P.M.
Chaves County, New Mexico

Gentlemen:

Harvey E. Yates Company would like to make a second amendment to the above referenced application for compulsory pooling.

As to the depth provisions in Paragraphs 2, 3, and 4, and in Paragraph 5, Harvey E. Yates Company would request that the application be amended to cover from the surface to all depths.

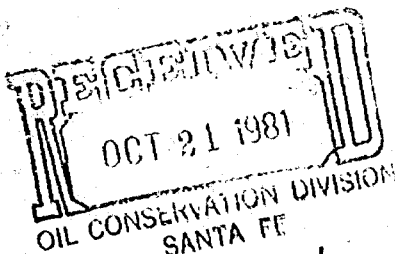
Sincerely,

Thomas J. Hall, III
Thomas J. Hall, III
Attorney

BEST AVAILABLE COPY

TJH:j

*Florence
I guess this was
is my stock
since*



HEYCO

PETROLEUM PRODUCERS



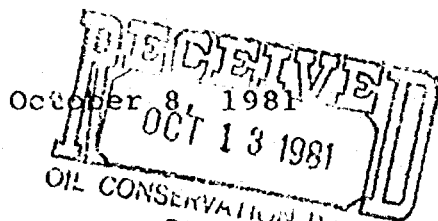
HARVEY E. YATES COMPANY

P O BOX 1933

SUITE 300 SECURITY NATIONAL BANK BUILDING

505 623 6601

ROSWEIL NEW MEXICO 88201



Case 7390

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: Application for ~~NEST~~ AVAILABLE COPY
Compulsory Pooling
Seymour State #1
Section 18: E/2 SW/4,
E/2 NW/4 (being W/2)
T-9S, R-27E, N.M.P.M.
Chaves County, New Mexico

Gentlemen:

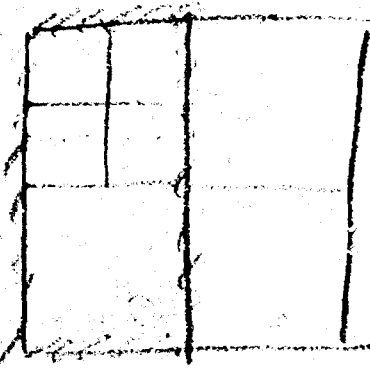
On September 25, 1981, Harvey E. Yates Company filed an application for compulsory pooling covering the W/2 of Section 18, T-9S, R-27E, in Chaves County, New Mexico. The application was assigned Case No. 7390.

Harvey E. Yates Company would request that the above application be amended in paragraphs 2, 3, and 4 and in paragraph B to cover all formations from the surface through the Mississippian formation.

Mr. Jack Grynberg, who is associated with Viking Petroleum, Inc., has informed us he plans to file an application seeking to pool the N/2 of Section 18 and that he will appeal any decision pooling the W/2 of Section 18. Furthermore, the primary term of applicant's state lease, L-6775, expires November 30, 1981. For these reasons we would request that a hearing de novo before the Commission be set at the earliest possible date.

Sincerely,

Thomas J. Hall, III
Attorney



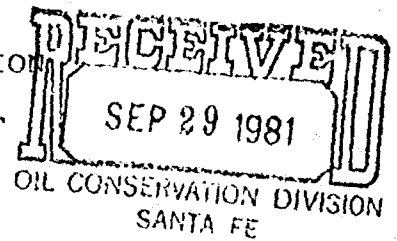
TJH:dk
OCD #36

Enclosures

BEFORE THE OIL CONSERVATION DIVISION

ENERGY AND MINERALS DEPARTMENT OF

THE STATE OF NEW MEXICO



IN THE MATTER OF THE APPLICATION :
OF HARVEY E. YATES COMPANY :
FOR COMPULSORY POOLING, :
CHAVES COUNTY, NEW MEXICO :

Case No. 2390APPLICATION

COMES NOW HARVEY E. YATES COMPANY by its attorney and respectfully states:

1. Applicant proposes to drill a well situated 1980 FNL and 660 FWL, Section 18, Township 9 South, Range 27 East, N.M.P.M., Chaves County, New Mexico, to the Mississippian formation and dedicate the W/2 of Section 18 to said well.

2. Applicant is the owner of, and/or holds the contractual right, to drill and develop the Mississippian formations underlying the following described lands situated within the W/2 of Section 18:

<u>Description</u>	<u>Interest Owned</u>	<u>Type of Interest</u>	<u>Net Acres</u>
W/2 NW/4, SW/4	54.2059%	Working Interest	132.82

3. Applicant has obtained voluntary consent to pooling of interests in the Mississippian formations underlying the W/2 of said Section 18, with the exception of the parties named below, whose addresses, and interests owned, according to Applicant's information and belief, are as follows:

<u>Owner</u>	<u>Description</u>	<u>Interest Owned</u>	<u>Type of Interest</u>	<u>Net Acres</u>
Viking Petroleum Inc. 2700 Center Building 2761 E. Skelly Drive Tulsa, Oklahoma 74105	E/2 NW/4	100%	Working Interest	80.00

4. Applicant has been unable to obtain voluntary agreement for pooling of the interests described in paragraph 3 immediately above, and in order to avoid the drilling of unnecessary wells, to protect correlative rights, and to prevent waste, all interests in the Mississippian formations underlying the W/2 of said Section 18 should be pooled pursuant to the provisions of §70-2-17 N.M.S.A., 1978 (formerly §65-3-14 N.M.S.A, 1953).

5. Applicant should be designated operator of said pooled lands.

6. The risk and expense of drilling and completing the proposed well is great, and if the owners of the interests described in paragraph 3 above, or any other unknown owners of interests in the proposed proration unit, do not choose to pay their share of the costs of drilling and completing said proposed well, then Applicant should be allowed a reasonable charge for supervision of said well, and a charge for the risk involved in addition to recovery of the actual cost of drilling and completing said well.

WHEREFORE, Applicant Prays:

A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

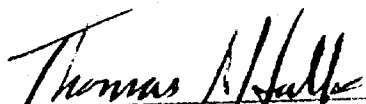
B. That upon such hearing the Division enter its pooling all interests in the Mississippian formations underlying the W/2 of Section 18, Township 9 South, Range 27 East, N.M.P.M., Chaves County, New Mexico, designating applicant as Operator of said pooled lands, making provision for applicant to recover its costs from production, including an appropriate risk factor, and provisions for payment of operating costs and costs of supervision from production, to be allocated among the interest owners as their interests may be determined.

C. For such further relief as the Division deems just
and proper.

DATED this 25th day of September, 1981.

HARVEY E. YATES COMPANY

BY:


Thomas J. Hall III
Attorney for Applicant
P. O. Box 1933
Roswell, New Mexico 88201

TJH:dk
OCD-1 #35

Memo

From

FLORENE DAVIDSON
ADMINISTRATIVE SECRETARY

To

Called in by Joe Hall
9/28/81

Harvey E. Yates Company

Compulsory Pooling
Mississippian Formation

W/2 18-795-A27E

Chaves County

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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

APPLICATION OF HARVEY
E. YATES COMPANY FOR
COMPULSORY POOLING, CHAVES
COUNTY, NEW MEXICO.

CASE NO. 7390

Order No. R- 3873

COMMISSION
ORDER OF THE DIVISION

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COMMISSION
BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 24,
19 81, at Santa Fe, New Mexico, before Examiner the Oil Conservation
Commission of New Mexico hereinafter referred to as the "Commission."
NOW, on this day of , 19 , the Division

Commission Director, having considered the testimony, the record, and the
exhibits recommendations of the Examiner, and being fully advised in the
premises,

FINDS:

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

(2) That the applicant, Harvey E. Yates Company,
seeks an order pooling all mineral interests from the surface down through the Ordovician
Formation underlying the W/2
of Section 18, Township 9 South, Range 27 East,
NMPM, Undesignated Pool, Chaves County, New
Mexico.

(3) That the applicant has the right to drill and proposes to drill a well at a standard location on 5210 30th Ave

(4) That there are interest owners in the proposed proration unit who have not agreed to pool their interests.

(5) That to avoid the drilling of unnecessary wells, to protect correlative rights, and to afford to the owner of each interest in said unit the opportunity to recover or receive without unnecessary expense his just and fair share of the gas in said pool, the subject application should be approved by pooling all mineral interests, whatever they may be, within said unit.

(6) That the applicant should be designated the operator of the subject well and unit.

(7) That any non-consenting working interest owner should be afforded the opportunity to pay his share of estimated well costs to the operator in lieu of paying his share of reasonable well costs out of production.

(8) That any non-consenting working interest owner who does not pay his share of estimated well costs should have withheld from production his share of the reasonable well costs plus an additional 200 percent thereof as a reasonable charge for the risk involved in the drilling of the well.

(9) That any non-consenting interest owner should be afforded the opportunity to object to the actual well costs but that actual well costs should be adopted as the reasonable well costs in the absence of such objection.

(10) That following determination of reasonable well costs, any non-consenting working interest owner who has paid his share of estimated costs should pay to the operator any amount that reasonable well costs exceed estimated well costs and should receive from the operator any amount that paid estimated well costs exceed reasonable well costs.

(11) That \$ 3550.⁰⁰ per month while drilling and \$ 355.⁰⁰ per month while producing should be fixed as reasonable charges for supervision (combined fixed rates); that the operator should be authorized to withhold from production the proportionate share of such supervision charges attributable to each non-consenting working interest, and in addition thereto, the operator should be authorized to withhold from production the proportionate share of actual expenditures required for operating the subject well, not in excess of what are reasonable, attributable to each non-consenting working interest.

(12) That all proceeds from production from the subject well which are not disbursed for any reason should be placed in escrow to be paid to the true owner thereof upon demand and proof of ownership.

(13) That upon the failure of the operator of said pooled unit to commence drilling of the well to which said unit is dedicated on or before March 1, 1982, the order pooling said unit should become null and void and of no effect whatsoever.

IT IS THEREFORE ORDERED:

(1) That all mineral interests, whatever they may be, ~~down through the~~ in the Ordovician formation underlying the W/2 of Section 18, Township 9 South, Range 27 East, NMPM, Undesignated Pool, Chaves County, New Mexico, are hereby pooled to form a standard 320 acre gas spacing and proration unit to be dedicated to a well to be drilled at a standard location on said 320 acre tract

PROVIDED HOWEVER, that the operator of said unit shall commence the drilling of said well on or before the 1st day of March, 1982, and shall thereafter continue the drilling of said well with due diligence to a depth sufficient to test the Ordovician formation;

PROVIDED FURTHER, that in the event said operator does not commence the drilling of said well on or before the 1st day of March, 1981, Order (1) of this order shall be null and void and of no effect whatsoever, unless said operator obtains

Oil Conservation

PROVIDED FURTHER, that should said well not be drilled to completion, or abandonment, within 120 days after commencement thereof, said operator shall appear before the Division Director and show cause why Order (1) of this order should not be rescinded.

(2) That Harvey E. Yates Company is hereby designated the operator of the subject well and unit.

(3) That ^{within 20 days} after the effective date of this order and ~~within 20 days prior to commencing said well~~, the operator shall furnish the Division and each known working interest owner in the subject unit an itemized schedule of estimated well costs.

(4) That within ¹⁵~~20~~ days from the date the schedule of estimated well costs is furnished to him, any non-consenting working interest owner shall have the right to pay his share of estimated well costs to the operator in lieu of paying his share of reasonable well costs out of production, and that any such owner who pays his share of estimated well costs as provided above shall remain liable for operating costs but shall not be liable for risk charges.

(5) That the operator shall furnish the Division and each known working interest owner an itemized schedule of actual well costs within 90 days following completion of the well; that if no objection to the actual well costs is received by the Division and the Division has not objected within 45 days following receipt of said schedule, the actual well costs shall be the reasonable well costs; provided however, that if there is an objection to actual well costs within said 45-day period the Division will determine reasonable well costs after public notice and hearing.

(6) That within 60 days following determination of reasonable well costs, any non-consenting working interest owner who has paid his share of estimated costs in advance as provided

above shall pay to the operator his pro rata share of the amount that reasonable well costs exceed estimated well costs and shall receive from the operator his pro rata share of the amount that estimated well costs exceed reasonable well costs.

(7) That the operator is hereby authorized to withhold the following costs and charges from production:

(A) The pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(B) As a charge for the risk involved in the drilling of the well, 200 percent of the pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(8) That the operator shall distribute said costs and charges withheld from production to the parties who advanced the well costs.

(9) That \$ 3550⁰⁰ per month while drilling and \$ 355⁰⁰ per month while producing are hereby fixed as reasonable charges for supervision (combined fixed rates); that the operator is hereby authorized to withhold from production the proportionate share of such supervision charges attributable to each non-consenting working interest, and in addition thereto, the operator is hereby authorized to withhold from production the proportionate share of actual expenditures required for operating such well, not in excess of what are reasonable, attributable to each non-consenting working interest.

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(7) That the operator is hereby authorized to withhold the following costs and charges from production:

(A) The pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(B) As a charge for the risk involved in the drilling of the well, 200 percent of the pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(8) That the operator shall distribute said costs and charges withheld from production to the parties who advanced the well costs.

(9) That \$ 3550⁰⁰ per month while drilling and \$ 355⁰⁰ per month while producing are hereby fixed as reasonable charges for supervision (combined fixed rates); that the operator is hereby authorized to withhold from production the proportionate share of such supervision charges attributable to each non-consenting working interest, and in addition thereto, the operator is hereby authorized to withhold from production the proportionate share of actual expenditures required for operating such well, not in excess of what are reasonable, attributable to each non-consenting working interest.

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Case
Order No.

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(10) That any unsevered mineral interest shall be considered a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest for the purpose of allocating costs and charges under the terms of this order.

(11) That any well costs or charges which are to be paid out of production shall be withheld only from the working interest's share of production, and no costs or charges shall be withheld from production attributable to royalty interests.

(12) That all proceeds from production from the subject well which are not disbursed for any reason shall immediately be placed in escrow in Chaves County, New Mexico, to be paid to the true owner thereof upon demand and proof of ownership; that the operator shall notify the Division of the name and address of said escrow agent within 30 days from the date of first deposit with said escrow agent.

(13) That 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.

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Case
Order No.

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(10) That any unsevered mineral interest shall be considered a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest for the purpose of allocating costs and charges under the terms of this order.

(11) That any well costs or charges which are to be paid out of production shall be withheld only from the working interest's share of production, and no costs or charges shall be withheld from production attributable to royalty interests.

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(13) That 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.