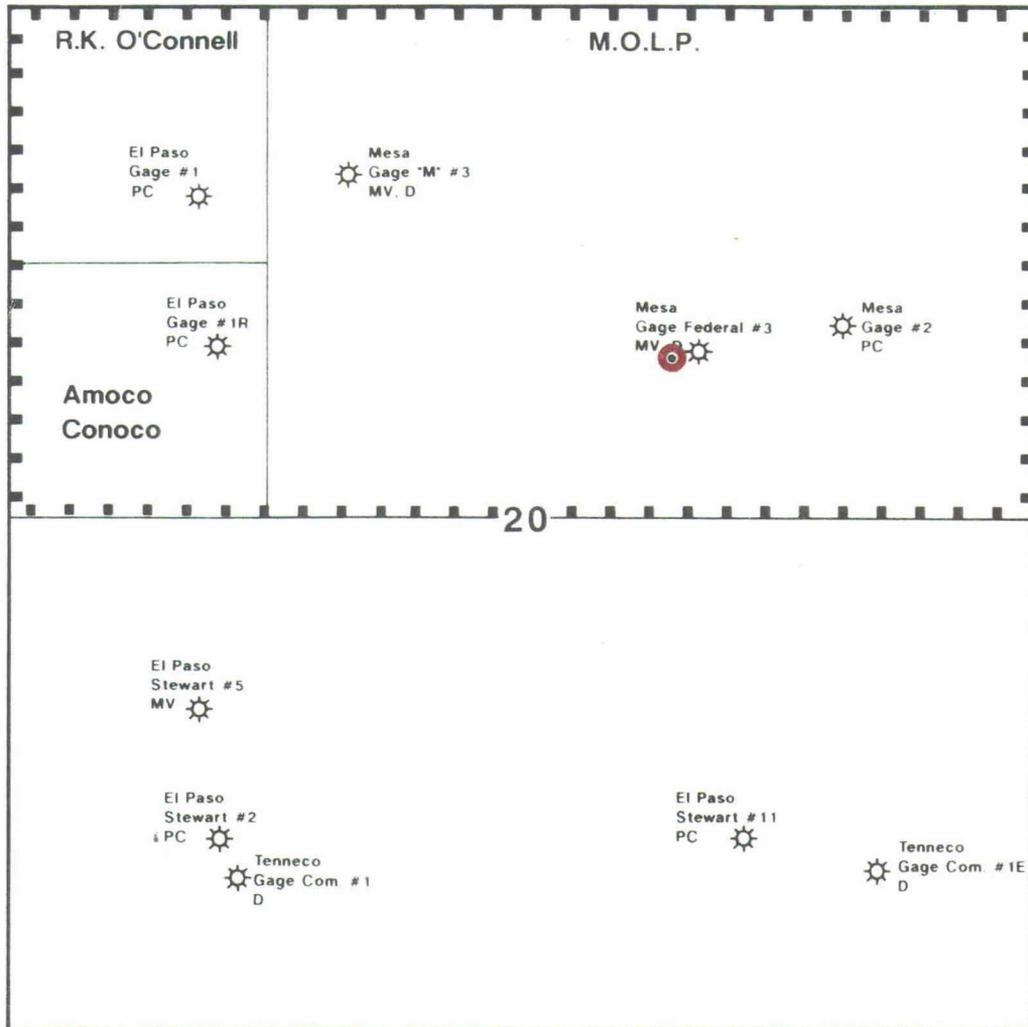


# R 10 W



Scale 1" = 1000'

M.O.L.P. 74.70%  
R.K. O'Connell 12.65%  
Amoco 6.325%  
Conoco 6.325%

■ ■ ■ Indicates Proposed Proration Unit

*Exhibits 1 through 8  
Complete Set*

Exhibit 1



MESA LIMITED PARTNERSHIP

SAN JUAN BASIN  
APPLICATION FOR COMPULSORY POOLING

CASE NO. 9984

July 11, 1990

FC Federal Com. #9

1835' FNL, 1875' FEL

Section 20, T30N-R10W

San Juan County, New Mexico

## FC Federal Com #9

1. Working interest owners committed to well and their percentages:

Mesa Operating Limited Partnership	74.70%
------------------------------------	--------

2. Working interest owners being pooled and their percentages:

R. K. O'Connell	12.65%
Amoco Production Company	6.325%
Conoco, Inc.	6.325%



April 19, 1990

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Amoco Production Company  
Box 800  
Denver CO 80201-800

Attention Michael Cuba

Gentlemen:

Subject: Well Proposal  
Mesa's Aztec Prospect  
FC Federal Com #9  
N/2 Section 20-T30N-R10W  
San Juan County NM

Mesa Operating Limited Partnership hereby proposes the drilling of an approximate 3070' Fruitland Coal well to be located 1835' FNL and 1875' FEL of Section 20-T30N-R10W. Mesa's estimated cost for the drilling of this well is \$76,500 for a dry hole and \$365,500 for a completed well.

Enclosed herewith is Mesa's AFE/Cost Estimate and an Operating Agreement which Mesa is proposing to be used to govern the drilling of this well. Upon Amoco's election to participate in the drilling of the subject well, please return a signed copy of the AFE/Cost Estimate and two executed copies of the signature page to the enclosed Operating Agreement.

Due to the number of wells Mesa plans to drill in 1990 to qualify for the Section 29 gas credit, it may be necessary for Mesa to commence "force pooling" proceedings to insure Mesa can adhere to its drilling schedule.

Mesa looks forward to receiving an expeditious reply from Amoco relative to this drilling proposal.

If you have any questions or would like to discuss this matter further, please contact me.

Very truly yours,

Mark W. Seale  
Landman

Enclosures

BEFORE EXAMINER STOGNER OIL CONSERVATION DIVISION	
EXHIBIT NO.	2
CASE NO.	9984

April 19, 1990



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Conoco, Inc.  
P. O. Box 460  
Hobbs NM 88240

Gentlemen:

Subject: Well Proposal  
Mesa's Aztec Prospect  
FC Federal Com #9  
N/2 Section 20-T30N-R10W  
San Juan County NM

Mesa Operating Limited Partnership hereby proposes the drilling of an approximate 3070' Fruitland Coal well to be located 1835' FNL and 1875' FEL of Section 20-T30N-R10W. Mesa's estimated cost for the drilling of this well is \$76,500 for a dry hole and \$365,500 for a completed well.

Enclosed herewith is Mesa's AFE/Cost Estimate and an Operating Agreement which Mesa is proposing to be used to govern the drilling of this well. Upon Conoco's election to participate in the drilling of the subject well, please return a signed copy of the AFE/Cost Estimate and two executed copies of the signature page to the enclosed Operating Agreement.

Due to the number of wells Mesa plans to drill in 1990 to qualify for the Section 29 gas credit, it may be necessary for Mesa to commence "force pooling" proceedings to insure Mesa can adhere to its drilling schedule.

Mesa looks forward to receiving an expeditious reply from Conoco relative to this drilling proposal.

If you have any questions or would like to discuss this matter further, please contact me.

Very truly yours,

Mark W. Seale  
Landman

Enclosures



April 6, 1990

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

R. K. O'Connell  
P. O. Box 2003  
Casper WY 82602-2003

*See O'Connell*

Gentlemen:

Subject: Well Proposal  
Mesa's Aztec Prospect  
FC Federal Com #9  
N/2 Section 20-T30N-R10W  
San Juan County NM

Mesa Operating Limited Partnership hereby proposes the drilling of an approximate 3070' Fruitland Coal well to be located 1835' FNL and 1875' FEL of Section 20-T30N-R10W. Mesa's estimated cost for the drilling of this well is \$76,500 for a dry hole and \$365,500 for a completed well.

Enclosed herewith is Mesa's AFE/Cost Estimate and an Operating Agreement which Mesa is proposing to be used to govern the drilling of this well. Upon your election to participate in the drilling of the subject well, please return a signed copy of the AFE/Cost Estimate and two executed copies of the signature page to the enclosed Operating Agreement.

Due to the number of wells Mesa plans to drill in 1990 to qualify for the Section 29 gas credit, it may be necessary for Mesa to commence "force pooling" proceedings to insure Mesa can adhere to its drilling schedule.

Mesa looks forward to receiving an expeditious reply from you relative to this drilling proposal.

If you have any questions or would like to discuss this matter further, please contact me.

Very truly yours,

*Mark W. Seale*

Mark W. Seale  
Landman

Enclosures

A.A.P.L. FORM 610-1982

MODEL FORM OPERATING AGREEMENT

FC Fed Com #9

OPERATING AGREEMENT

DATED

March 15 , 19 90 ,

OPERATOR MESA OPERATING LIMITED PARTNERSHIP

CONTRACT AREA Aztec

T30N-R10W

Section 20: N/2

COUNTY OR PARISH OF San Juan STATE OF New Mexico

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## OPERATING AGREEMENT

THIS AGREEMENT, entered into by and between MESA OPERATING LIMITED PARTNERSHIP hereinafter designated and referred to as "Operator", and the signatory party or parties other than Operator, sometimes 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 therewith, 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 leases 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 unleased 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 lands, 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 this agreement.
  - (2) Restrictions, if any, as to depths, formations, or substances.
  - (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", Tax Partnership.

If any provision of any exhibit, except Exhibits "E" and "G", is inconsistent with any provision contained in the body of this agreement, the provisions in the body of this agreement shall prevail.

**ARTICLE III.  
INTERESTS OF PARTIES**

**A. Oil and Gas Interests:**

If any party owns an oil and gas interest in the Contract Area, that interest shall be treated for all purposes of this agreement and during the term hereof as if it were covered by the form of oil and gas lease attached hereto as Exhibit "B", and the owner thereof shall be deemed to own both the royalty interest reserved in such lease and the interest of the lessee thereunder.

**B. Interests of Parties in Costs and Production:**

Unless changed by other provisions, all costs and liabilities incurred in operations under this agreement shall be borne and paid, and all equipment and materials acquired in operations on the Contract Area shall be owned, by the parties as their interests are set forth in Exhibit "A". In the same manner, the parties shall also own all production of oil and gas from the Contract Area subject to the payment of royalties to the extent of one-eighth (1/8th) which shall be borne as hereinafter set forth.

Regardless of which party has contributed the lease(s) and/or oil and gas interest(s) hereto on which royalty is due and payable, each party entitled to receive a share of production of oil and gas from the Contract Area shall bear and shall pay or deliver, or cause to be paid or delivered, to the extent of its interest in such production, the royalty amount stipulated hereinabove and shall hold the other parties free from any liability therefor. No party shall ever be responsible, however, on a 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 settlement on a higher price basis, the party contributing the affected lease shall bear the additional royalty burden attributable to such higher price.

Nothing contained in this Article III.B. shall be deemed an assignment or cross-assignment of interests covered hereby.

**C. Excess Royalties, Overriding Royalties and Other Payments:**

Unless changed by other provisions, if the interest of any party in any lease covered hereby is subject to any royalty, overriding royalty, production payment or other burden on production in excess of the amount stipulated in Article III.B., such party so burdened shall assume and alone bear all such excess obligations and shall indemnify and hold the other parties hereto harmless from any and all claims and demands for payment asserted by owners of such excess burden.

**D. Subsequently Created Interests:**

If any party should hereafter create an overriding royalty, production payment or other burden payable out of production attributable to its working interest hereunder, or if such a burden existed prior to this agreement and is not set forth in Exhibit "A", or was not disclosed in writing to all other parties prior to the execution of this agreement by all parties, or is not a jointly acknowledged and accepted obligation of all parties (any such interest being hereinafter referred to as "subsequently created interest" irrespective of the timing of its creation and the party out of whose working interest the subsequently created interest is derived being hereinafter referred to as "burdened party"), and:

1. If the burdened party is required under this agreement to assign or relinquish to any other party, or parties, all or a portion of its working interest and/or the production attributable thereto, said other party, or parties, shall receive said assignment and/or production free and clear of said subsequently created interest and the burdened party shall indemnify and save said other party, or parties, harmless from any and all claims and demands for payment asserted by owners of the subsequently created interest; and,
2. If the burdened party fails to pay, when due, its share of expenses chargeable hereunder, all provisions of Article VII.B. shall be enforceable against the subsequently created interest in the same manner as they are enforceable against the working interest of the burdened party.

**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 the 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.

\*or is a burden owned by the burdened party or was not recorded in the county or parish records prior to the date of this agreement.

## ARTICLE IV

## continued

1  Option No. 2. Costs incurred by Operator in procuring abstracts and fees paid outside attorneys for title examination  
 2 including preliminary, supplemental, shut-in gas royalty opinions and division order title opinions) shall be borne by the Drilling Parties  
 3 in the proportion that the interest of each Drilling Party bears to the total interest of all Drilling Parties as such interests appear in Ex-  
 4 hibit "A". Operator shall make no charge for services rendered by its staff attorneys or other personnel in the performance of the above  
 5 functions.

7 Each party shall be responsible for securing curative matter and pooling amendments or agreements required in connection  
 8 with leases or oil and gas interests contributed by such party. Operator shall be responsible for the preparation and recording of pooling  
 9 designations or declarations as well as the conduct of hearings before governmental agencies for the securing of spacing or pooling orders.  
 10 This shall not prevent any party from appearing on its own behalf at any such hearing.

12 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  
 13 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 par-  
 14 ticipate in the drilling of the well.

## B. Loss of Title:

18 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  
 19 reduction of interest from that shown on Exhibit "A", the party contributing the affected lease or interest shall have ninety (90) days  
 20 from final determination of title failure to acquire a new lease or other instrument curing the entirety of the title failure, which acquisi-  
 21 tion will not be subject to Article VIII.B., and failing to do so, this agreement, nevertheless, shall continue in force as to all remaining oil  
 22 and gas leases and interests; and.

23 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  
 24 entitled to recover from Operator or the other parties any development or operating costs which it may have theretofore paid or incurred,  
 25 but there shall be no additional liability on its part to the other parties hereto by reason of such title failure:

26 b) There shall be no retroactive adjustment of expenses incurred or revenues received from the operation of the interest which has  
 27 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 oc-  
 28 curred, so that the interest of the party whose lease or interest is affected by the title failure will thereafter be reduced in the Contract  
 29 Area by the amount of the interest lost:

30 c) If the proportionate interest of the other parties hereto in any producing well theretofore drilled on the Contract Area is  
 31 increased by reason of the title failure, the party whose title has failed shall receive the proceeds attributable to the increase in such in-  
 32 terest (less costs and burdens attributable thereto) until it has been reimbursed for unrecovered costs paid by it in connection with such  
 33 well;

34 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  
 35 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  
 36 who bore the costs which are so refunded;

37 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  
 38 borne by the party or parties whose title failed in the same proportions in which they shared in such prior production; and.

39 f) No charge shall be made to the joint account for legal expenses, fees or salaries, in connection with the defense of the interest  
 40 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  
 41 connection therewith.

43 2. Loss by Non-Payment or Erroneous Payment of Amount Due: If, through mistake or oversight, any rental, shut-in well  
 44 payment, minimum royalty or royalty payment, is not paid or is erroneously paid, and as a result a lease or interest therein terminates,  
 45 there shall be no monetary liability against the party who failed to make such payment. Unless the party who failed to make the required  
 46 payment secures a new lease covering the same interest within ninety (90) days from the discovery of the failure to make proper payment,  
 47 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  
 48 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  
 49 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  
 50 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  
 51 the lost interest, calculated on an acreage basis, for the development and operating costs theretofore paid on account of such interest, it  
 52 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  
 53 or wells previously abandoned) from so much of the following as is necessary to effect reimbursement:

54 (a) Proceeds of oil and gas, less operating expenses, theretofore accrued to the credit of the lost interest, on an acreage basis,  
 55 up to the amount of unrecovered costs;

56 (b) Proceeds, less operating expenses, thereafter accrued attributable to the lost interest on an acreage basis, of that portion of  
 57 oil and gas thereafter produced and marketed (excluding production from any wells thereafter drilled) which, in the absence of such lease  
 58 termination, would be attributable to the lost interest on an acreage basis, up to the amount of unrecovered costs, the proceeds of said  
 59 portion of the oil and gas to be contributed by the other parties in proportion to their respective interests; and.

60 (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  
 61 lost, for the privilege of participating in the Contract Area or becoming a party to this agreement.

63 3. Other Losses: All losses incurred, other than those set forth in Articles IV.B.1. and IV.B.2. above, shall be joint losses  
 64 and shall be borne by all parties in proportion to their interests. There shall be no readjustment of interests in the remaining portion of  
 65 the Contract Area.

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ARTICLE V.  
OPERATOR

A. Designation and Responsibilities of Operator:

MESA OPERATING LIMITED PARTNERSHIP 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.

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 hereunder in the Contract Area, or is no longer capable of serving as Operator, Operator shall be deemed to have resigned without any action by Non-Operators, 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" 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. 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"; provided, however, if an Operator which has been 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" 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 \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, Operator shall commence the drilling of a well for oil and gas at the following location:

1835' FNL and 1875' FEL  
Township 30 North, Range 10 West  
Section 20: N/2

and shall thereafter continue the drilling of the well with due diligence to a depth of 3070' to the Fruitland Coal formation

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.

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.

## ARTICLE VI

## continued

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, the provisions of Article VI.E.1. shall thereafter apply.

## B. Subsequent Operations:

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 party 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 a 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 and 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.

If all parties elect to participate in such a proposed operation, Operator shall, within ninety (90) days after expiration of the notice period of thirty (30) days (or as promptly as possible after the expiration of the forty-eight (48) hour period when a drilling rig is on location, as the case may be), actually commence the proposed operation and complete it with due diligence at the risk and expense of all parties hereto; provided, however, said commencement date may be extended upon written notice of same by Operator to the other parties, for a period of up to thirty (30) additional days if, in the sole opinion of Operator, such additional time is reasonably necessary to obtain permits from governmental authorities, surface rights (including rights-of-way) or appropriate drilling equipment, or to complete title examination or curative matter required for title approval or acceptance. Notwithstanding the force majeure provisions of Article XI, if the actual operation has not been commenced within the time provided (including any extension thereof as specifically permitted herein) and if any party hereto still desires to conduct said operation, written notice proposing same must be resubmitted to the other parties in accordance with the provisions hereof as if no prior proposal had been made.

2. Operations by Less than All Parties: If any party receiving such notice as provided in Article VI.B.1. or VII.D.1. (Option No. 2) 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 ninety (90) 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 when a drilling rig is on location, as the case may be) actually commence 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 the total interest of the parties approving such operation and 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 and 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' interests, and failure to advise the proposing party shall be deemed an election under (a). In the event a drilling rig is on location, the time permitted for such a response shall not exceed a total of forty-eight (48) hours (inclusive of Saturday, Sunday and legal holidays). 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 and restore the surface location 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.

## ARTICLE VI

## continued

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, excise taxes, royalty, overriding royalty and other interests not excepted by Article III.D. 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) 150 % 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 150 % 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 such Non-Consenting Party had it participated in the well from the beginning of the operations; and

b) 300 % of that portion of the costs and expenses of drilling, reworking, deepening, plugging back, testing and completion, after deducting any cash contributions received under Article VIII.C., and 300 % of that portion of the cost of newly acquired equipment in the well (to and including the wellhead connections), which would have been chargeable to such Non-Consenting Party if it had participated therein.

An election not to participate in the drilling or the deepening of a well shall be deemed an election not to participate in any reworking or plugging back operation proposed in such a well, or portion thereof, to which the initial Non-Consent election applied that is conducted at any time prior to full recovery by the Consenting Parties of the Non-Consenting Party's recoupment account. Any such reworking or plugging back operation conducted during the recoupment period shall be deemed part of the cost of operation of said well and there shall be added to the sums to be recouped by the Consenting Parties one hundred percent <sup>fifty</sup> (150%) of that portion of the costs of the reworking or plugging back operation which would have been chargeable to such Non-Consenting Party had it participated therein. If such a reworking or plugging back operation is proposed during such recoupment period, the provisions of this Article VI.B. shall be applicable as between said Consenting Parties in said well.

During the period of time Consenting Parties are entitled to receive Non-Consenting Party's share of production, or the proceeds therefrom, Consenting Parties shall be responsible for the payment of all production, severance, excise, gathering and other taxes, and all royalty, overriding royalty and other burdens applicable to Non-Consenting Party's share of production not excepted by Article III.D.

In the case of any reworking, plugging back or deeper drilling operation, the Consenting Parties shall be permitted to use, free of cost, all casing, tubing and other equipment in the well, but the ownership of all such equipment shall remain unchanged; and upon abandonment of a well after such reworking, plugging back or deeper drilling, the Consenting Parties shall account for all such equipment to the owners thereof, with each party receiving its proportionate part in kind or in value, less cost of salvage.

## successful

Within sixty (60) days after the completion of any operation under this Article, the party conducting the operations for the Consenting Parties shall furnish each Non-Consenting Party with an inventory of the equipment in and connected to the well, and an itemized statement of the cost of drilling, deepening, plugging back, testing, completion, and equipping the well for production; or, at its option, the operating party, in lieu of an itemized statement of such costs of operation, may submit a detailed statement of monthly billings. Each month thereafter, during the time the Consenting Parties are being reimbursed as provided above, the party conducting the operations for the Consenting Parties shall furnish the Non-Consenting Parties with an itemized statement of all costs and liabilities incurred in the operation of the well, together with a statement of the quantity of oil and gas produced from it and the amount of proceeds realized from the sale of the well's working interest production during the preceding month. In determining the quantity of oil and gas produced during any month, Consenting Parties shall use industry accepted methods such as, but not limited to, metering or periodic well tests. Any amount realized from the sale or other disposition of equipment newly acquired in connection with any such operation which would have been owned by a Non-Consenting Party had it participated therein shall be credited against the total unreturned costs of the work done and of the equipment purchased in determining when the interest of such Non-Consenting Party shall revert to it as above provided; and if there is a credit balance, it shall be paid to such Non-Consenting Party.

## ARTICLE VI

## continued

1 If and when the Consenting Parties recover from a Non-Consenting Party's relinquished interest the amounts provided for above,  
 2 the relinquished interests of such Non-Consenting Party shall automatically revert to it, and, from and after such reversion, such Non-  
 3 Consenting Party shall own the same interest in such well, the material and equipment in or pertaining thereto, and the production  
 4 therefrom as such Non-Consenting Party would have been entitled to had it participated in the drilling, reworking, deepening or plugging  
 5 back of said well. Thereafter, such Non-Consenting Party shall be charged with and shall pay its proportionate part of the further costs of  
 6 the operation of said well in accordance with the terms of this agreement and the Accounting Procedure attached hereto.

7  
 8  
 9  
 10 Notwithstanding the provisions of this Article VI.B.2., it is agreed that without the mutual consent of all parties, no wells shall  
 11 be completed in or produced from a source of supply from which a well located elsewhere on the Contract Area is producing, unless such  
 12 well conforms to the then-existing well spacing pattern for such source of supply.

13  
 14  
 15  
 16 The provisions of this Article shall have no application whatsoever to the drilling of the initial well described in Article VI.A.  
 17 except (a) as to Article VII.D.1. (Option No. 2), if selected, or (b) as to the reworking, deepening and plugging back of such initial well  
 18 after it has been drilled to the depth specified in Article VI.A. if it shall thereafter prove to be a dry hole or, if initially completed for pro-  
 19 duction, ceases to produce in paying quantities.

20  
 21  
 22  
 23 3. Stand-By Time: When a well which has been drilled or deepened has reached its authorized depth and all tests have been  
 24 completed, and the results thereof furnished to the parties, stand-by costs incurred pending response to a party's notice proposing a  
 25 reworking, deepening, plugging back or completing operation in such a well shall be charged and borne as part of the drilling or deepening  
 26 operation just completed. Stand-by costs subsequent to all parties responding, or expiration of the response time permitted, whichever  
 27 first occurs, and prior to agreement as to the participating interests of all Consenting Parties pursuant to the terms of the second gram-  
 28 matical paragraph of Article VI.B.2. shall be charged to and borne as part of the proposed operation, but if the proposal is subsequently  
 29 withdrawn because of insufficient participation, such stand-by costs shall be allocated between the Consenting Parties in the proportion  
 30 each Consenting Party's interest as shown on Exhibit "A" bears to the total interest as shown on Exhibit "A" of all Consenting Par-  
 31 ties.

32  
 33  
 34  
 35 4. Sidetracking: Except as hereinafter provided, those provisions of this agreement applicable to a "deepening" operation shall  
 36 also be applicable to any proposal to directionally control and intentionally deviate a well from vertical so as to change the bottom hole  
 37 location (herein called "sidetracking"), unless done to straighten the hole or to drill around junk in the hole or because of other  
 38 mechanical difficulties. Any party having the right to participate in a proposed sidetracking operation that does not own an interest in the  
 39 affected well bore at the time of the notice shall, upon electing to participate, tender to the well bore owners its proportionate share (equal  
 40 to its interest in the sidetracking operation) of the value of that portion of the existing well bore to be utilized as follows:

41  
 42  
 43  
 44 a) If the proposal is for sidetracking an existing dry hole, reimbursement shall be on the basis of the actual costs incurred in  
 45 the initial drilling of the well down to the depth at which the sidetracking operation is initiated.

46  
 47  
 48  
 49 (b) If the proposal is for sidetracking a well which has previously produced, reimbursement shall be on the basis of the well's  
 50 salvageable materials and equipment down to the depth at which the sidetracking operation is initiated, determined in accordance with the  
 51 provisions of Exhibit "C", less the estimated cost of salvaging and the estimated cost of plugging and abandoning.

52  
 53  
 54  
 55 In the event that notice for a sidetracking operation is given while the drilling rig to be utilized is on location, the response period  
 56 shall be limited to forty-eight (48) hours, exclusive of Saturday, Sunday and legal holidays; provided, however, any party may request and  
 57 receive up to eight (8) additional days after expiration of the forty-eight (48) hours within which to respond by paying for all stand-by time  
 58 incurred during such extended response period. If more than one party elects to take such additional time to respond to the notice, stand-  
 59 by costs shall be allocated between the parties taking additional time to respond on a day-to-day basis in the proportion each electing par-  
 60 ty's interest as shown on Exhibit "A" bears to the total interest as shown on Exhibit "A" of all the electing parties. In all other in-  
 61 stances the response period to a proposal for sidetracking shall be limited to thirty (30) days.

62  
 63  
 64  
 65 C. TAKING PRODUCTION IN KIND:

66  
 67 Each party shall take in kind or separately dispose of its proportionate share of all oil and gas produced from the Contract Area,  
 68 exclusive of production which may be used in development and producing operations and in preparing and treating oil and gas for  
 69 marketing purposes and production unavoidably lost. Any extra expenditure incurred in the taking in kind or separate disposition by any  
 70 party or its proportionate share of the production shall be borne by such party. Any party taking its share of production in kind shall be

## ARTICLE VI

## continued

1 required to pay for only its proportionate share of such part of Operator's surface facilities which it uses.

2  
3 Each party shall execute such division orders and contracts as may be necessary for the sale of its interest in production from  
4 the Contract Area, and, except as provided in Article VII.B., shall be entitled to receive payment directly from the purchaser thereof for  
5 its share of all production.

6  
7 In the event any party shall fail to make the arrangements necessary to take in kind or separately dispose of its proportionate share of  
8 the oil produced from the Contract Area, Operator shall have the right, subject to the revocation at will by the party owning it, but not  
9 the obligation, to purchase such oil or sell it to others at any time and from time to time, for the account of the non-taking party at the  
10 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  
11 owner of the production to exercise at any time its right to take in kind, or separately dispose of, its share of all oil not previously  
12 delivered to a purchaser. Any purchase or sale by Operator of any other party's share of oil shall be only for such reasonable periods or  
13 time as are consistent with the minimum needs of the industry under the particular circumstances, but in no event for a period in excess  
14 of one (1) year.

15  
16 In the event one or more parties' separate disposition of its share of the gas causes split-stream deliveries to separate pipelines and/or  
17 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  
18 be allocated to it, the balancing or accounting between the respective accounts of the parties shall be in accordance with any gas balancing  
19 agreement between the parties hereto, whether such an agreement is attached as Exhibit "E", or is a separate agreement.

20  
21 **D. Access to Contract Area and Information:**

22  
23 Each party shall have access to the Contract Area at all reasonable times, at its sole cost and risk to inspect or observe operations,  
24 and shall have access at reasonable times to information pertaining to the development or operation thereof, including Operator's books  
25 and records relating thereto. Operator, upon request, shall furnish each of the other parties with copies of all forms or reports filed with  
26 governmental agencies, daily drilling reports, well logs, tank tables, daily gauge and run tickets and reports of stock on hand at the first of  
27 each month, and shall make available samples of any cores or cuttings taken from any well drilled on the Contract Area. The cost of  
28 gathering and furnishing information to Non-Operator, other than that specified above, shall be charged to the Non-Operator that re-  
29 quests the information.

30  
31 **E. Abandonment of Wells:**

32  
33 1. Abandonment of Dry Holes: Except for any well drilled or deepened pursuant to Article VI.B.2., any well which has been  
34 drilled or deepened under the terms of this agreement and is proposed to be completed as a dry hole shall not be plugged and abandoned  
35 without the consent of all parties. Should Operator, after diligent effort, be unable to contact any party, or should any party fail to reply  
36 within forty-eight (48) hours (exclusive of Saturday, Sunday and legal holidays) after receipt of notice of the proposal to plug and abandon  
37 such well, such party shall be deemed to have consented to the proposed abandonment. All such wells shall be plugged and abandoned in  
38 accordance with applicable regulations and at the cost, risk and expense of the parties who participated in the cost of drilling or deepening  
39 such well. Any party who objects to plugging and abandoning such well shall have the right to take over the well and conduct further  
40 operations in search of oil and/or gas subject to the provisions of Article VI.B.

41  
42 2. Abandonment of Wells that have Produced: Except for any well in which a Non-Consent operation has been conducted  
43 hereunder for which the Consenting Parties have not been fully reimbursed as herein provided, any well which has been completed as a  
44 producer shall not be plugged and abandoned without the consent of all parties. If all parties consent to such abandonment, the well shall  
45 be plugged and abandoned in accordance with applicable regulations and at the cost, risk and expense of all the parties hereto. If, within  
46 thirty (30) days after receipt of notice of the proposed abandonment of any well, all parties do not agree to the abandonment of such well,  
47 those wishing to continue its operation from the interval(s) of the formation(s) then open to production shall tender to each of the other  
48 parties its proportionate share of the value of the well's salvable material and equipment, determined in accordance with the provisions of  
49 Exhibit "C", less the estimated cost of salvaging and the estimated cost of plugging and abandoning. Each abandoning party shall assign  
50 the non-abandoning parties, without warranty, express or implied, as to title or as to quantity, or fitness for use of the equipment and  
51 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 in-  
52 terval or intervals of the formation or formations then open to production. If the interest of the abandoning party is or includes an oil and  
53 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 in-  
54 tervals of the formation or formations then open to production, for a term of one (1) year and so long thereafter as oil and/or gas is pro-  
55 duced from the interval or intervals of the formation or formations covered thereby, such lease to be on the form attached as Exhibit  
56  
57  
58  
59  
60

## ARTICLE VI

continued

1 "B". The assignments or leases so limited shall encompass the "drilling unit" upon which the well is located. The payments by, and the  
 2 assignments or leases to, the assignees shall be in a ratio based upon the relationship of their respective percentage of participation in the  
 3 Contract Area to the aggregate of the percentages of participation in the Contract Area of all assignees. There shall be no readjustment of  
 4 interests in the remaining portion of the Contract Area.

5  
 6 Thereafter, abandoning parties shall have no further responsibility, liability, or interest in the operation of or production from  
 7 the well in the interval or intervals then open other than the royalties retained in any lease made under the terms of this Article. Upon re-  
 8 quest, Operator shall continue to operate the assigned well for the account of the non-abandoning parties at the rates and charges con-  
 9 templated by this agreement, plus any additional cost and charges which may arise as the result of the separate ownership of the assigned  
 10 well. Upon proposed abandonment of the producing interval(s) assigned or leased, the assignor or lessor shall then have the option to  
 11 repurchase its prior interest in the well (using the same valuation formula) and participate in further operations therein subject to the pro-  
 12 visions hereof.

13  
 14 3. Abandonment of Non-Consent Operations: The provisions of Article VI.E.1. or VI.E.2. above shall be applicable as between  
 15 Consenting Parties in the event of the proposed abandonment of any well excepted from said Articles; provided, however, no well shall be  
 16 permanently plugged and abandoned unless and until all parties having the right to conduct further operations therein have been notified  
 17 of the proposed abandonment and afforded the opportunity to elect to take over the well in accordance with the provisions of this Article  
 18 VI.E.

## ARTICLE VII.

## EXPENDITURES AND LIABILITY OF PARTIES

## A. Liability of Parties:

19  
 20  
 21 The liability of the parties shall be several, not joint or collective. Each party shall be responsible only for its obligations, and  
 22 shall be liable only for its proportionate share of the costs of developing and operating the Contract Area. Accordingly, the liens granted  
 23 among the parties in Article VII.B. are given to secure only the debts of each severally. It is not the intention of the parties to create, nor  
 24 shall this agreement be construed as creating, a mining or other partnership or association, or to render the parties liable as partners.  
 25 It is not the intention of the parties that this contract is made or intended for  
 26 the benefit of any third person.

## B. Liens and Payment Defaults:

27  
 28 Each Non-Operator grants to Operator a lien upon its oil and gas rights in the Contract Area, and a security interest in its share  
 29 of oil and/or gas when extracted and its interest in all equipment, to secure payment of its share of expense, together with interest thereon  
 30 at the rate provided in Exhibit "C". To the extent that Operator has a security interest under the Uniform Commercial Code of the  
 31 state, Operator shall be entitled to exercise the rights and remedies of a secured party under the Code. The bringing of a suit and the ob-  
 32 taining of judgment by Operator for the secured indebtedness shall not be deemed an election of remedies or otherwise affect the lien  
 33 rights or security interest as security for the payment thereof. In addition, upon default by any Non-Operator in the payment of its share  
 34 of expense, Operator shall have the right, without prejudice to other rights or remedies, to collect from the purchaser the proceeds from  
 35 the sale of such Non-Operator's share of oil and/or gas until the amount owed by such Non-Operator, plus interest, has been paid. Each  
 36 purchaser shall be entitled to rely upon Operator's written statement concerning the amount of any default. Operator grants a like lien  
 37 and security interest to the Non-Operators to secure payment of Operator's proportionate share of expense.

38  
 39 If any party fails or is unable to pay its share of expense within sixty (60) days after rendition of a statement therefor by  
 40 Operator, the non-defaulting parties, including Operator, shall, upon request by Operator, pay the unpaid amount in the proportion that  
 41 the interest of each such party bears to the interest of all such parties. Each party so paying its share of the unpaid amount shall, to obtain  
 42 reimbursement thereof, be subrogated to the security rights described in the foregoing paragraph.

## C. Payments and Accounting:

43  
 44 Except as herein otherwise specifically provided, Operator shall promptly pay and discharge expenses incurred in the development  
 45 and operation of the Contract Area pursuant to this agreement and shall charge each of the parties hereto with their respective propor-  
 46 tionate shares upon the expense basis provided in Exhibit "C". Operator shall keep an accurate record of the joint account hereunder,  
 47 showing expenses incurred and charges and credits made and received.

48  
 49 Operator, at its election, shall have the right from time to time to demand and receive from the other parties payment in advance  
 50 of their respective shares of the estimated amount of the expense to be incurred in operations hereunder during the next succeeding  
 51 month, which right may be exercised only by submission to each such party of an ~~estimated statement of such estimated expenses, together~~  
 52 ~~with an~~ invoice for its share thereof. Each such statement and invoice for the payment in advance of estimated expense shall be submitted  
 53 on or before the 20th day of the next preceding month. Each party shall pay to Operator its proportionate share of such estimate within  
 54 fifteen (15) days after such estimate and invoice is received. If any party fails to pay its share of said estimate within said time, the amount  
 55 due shall bear interest as provided in Exhibit "C" until paid. Proper adjustment shall be made monthly between advances and actual ex-  
 56 pense to the end that each party shall bear and pay its proportionate share of actual expenses incurred, and no more.

## D. Limitation of Expenditures:

57  
 58 1. Drill or Deepen: Without the consent of all parties, no well shall be drilled or deepened, except any well drilled or deepened  
 59 pursuant to the provisions of Article VI.B.2. of this agreement. Consent to the drilling or deepening shall include:

## ARTICLE VII

## continued

1  Option No. 1: All necessary expenditures for the drilling or deepening, testing, completing and equipping of the well, including  
2 necessary tankage and/or surface facilities.

3  
4  Option No. 2: All necessary expenditures for the drilling or deepening and testing of the well. When such well has reached its  
5 authorized depth, and all tests have been completed, and the results thereof furnished to the parties, Operator shall give immediate notice  
6 to the Non-Operators who have the right to participate in the completion costs. The parties receiving such notice shall have forty eight  
7 hours (exclusive of Saturday, Sunday and legal holidays) in which to elect to participate in the setting of casing and the completion at  
8 remot. Such election, when made, shall include consent to all necessary expenditures for the completing and equipping of such well, in-  
9 cluding necessary tankage and/or surface facilities. Failure of any party receiving such notice to reply within the period above fixed shall  
10 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,  
11 elect to set pipe and to attempt a completion, the provisions of Article VI.B.2. hereof (the phrase "reworking, deepening or plugging  
12 back" as contained in Article VI.B.2. shall be deemed to include "completing") shall apply to the operations thereafter conducted by less  
13 than all parties.

14  
15 2. Rework or Plug Back: Without the consent of all parties, no well shall be reworked or plugged back except a well reworked or  
16 plugged back pursuant to the provisions of Article VI.B.2. of this agreement. Consent to the reworking or plugging back of a well shall  
17 include all necessary expenditures in conducting such operations and completing and equipping of said well, including necessary tankage  
18 and/or surface facilities.

19  
20 3. Other Operations: Without the consent of all parties, Operator shall not undertake any single project reasonably estimated  
21 to require an expenditure in excess of Twenty-five thousand Dollars (\$ 25,000.00)  
22 except in connection with a well, the drilling, reworking, deepening, completing, recompleting, or plugging back of which has been  
23 previously authorized by or pursuant to this agreement; provided, however, that, in case of explosion, fire, flood or other sudden  
24 emergency, whether of the same or different nature, Operator may take such steps and incur such expenses as in its opinion are required  
25 to deal with the emergency to safeguard life and property but Operator, as promptly as possible, shall report the emergency to the other  
26 parties. If Operator prepares an authority for expenditure (AFE) for its own use, Operator shall furnish any Non-Operator so requesting  
27 an information copy thereof for any single project costing in excess of Fifteen thousand  
28 Dollars (\$ 15,000.00), but less than the amount first set forth above in this paragraph.

29  
30 E. Rentals, Shut-in Well Payments and Minimum Royalties:

31  
32 Rentals, shut-in well payments and minimum royalties which may be required under the terms of any lease shall be paid by the  
33 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 con-  
34 tributed interests in the same lease to this agreement, such parties may designate one of such parties to make said payments for and on  
35 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  
36 failure to make proper payment of any rental, shut-in well payment or minimum royalty through mistake or oversight where such pay-  
37 ment is required to continue the lease in force, any loss which results from such non-payment shall be borne in accordance with the pro-  
38 visions of Article IV.B.2.

39  
40 Operator shall notify Non-Operator of the anticipated completion of a shut-in gas well, or the shutting in or return to production  
41 of a producing gas well, at least five (5) days (excluding Saturday, Sunday and legal holidays), or at the earliest opportunity permitted by  
42 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  
43 Non-Operator, the loss of any lease contributed hereto by Non-Operator for failure to make timely payments of any shut-in well payment  
44 shall be borne jointly by the parties hereto under the provisions of Article IV.B.3.

45  
46 F. Taxes:

47  
48 Beginning with the first calendar year after the effective date hereof, Operator shall render for ad valorem taxation all property  
49 subject to this agreement which by law should be rendered for such taxes, and it shall pay all such taxes assessed thereon before they  
50 become delinquent. Prior to the rendition date, each Non-Operator shall furnish Operator information as to burdens (to include, but not  
51 be limited to, royalties, overriding royalties and production payments) on leases and oil and gas interests contributed by such Non-  
52 Operator. If the assessed valuation of any leasehold estate is reduced by reason of its being subject to outstanding excess royalties, over-  
53 riding royalties or production payments, the reduction in ad valorem taxes resulting therefrom shall inure to the benefit of the owner or  
54 owners of such leasehold estate, and Operator shall adjust the charge to such owner or owners so as to reflect the benefit of such reduc-  
55 tion. If the ad valorem taxes are based in whole or in part upon separate valuations of each party's working interest, then notwithstanding  
56 anything to the contrary herein, charges to the joint account shall be made and paid by the parties hereto in accordance with the tax  
57 value generated by each party's working interest. Operator shall bill the other parties for their proportionate shares of all tax payments in  
58 the manner provided in Exhibit "C".

59  
60 If Operator considers any tax assessment improper, Operator may, at its discretion, protest within the time and manner  
61 prescribed by law, and prosecute the protest to a final determination, unless all parties agree to abandon the protest prior to final deter-  
62 mination. During the pendency of administrative or judicial proceedings, Operator may elect to pay, under protest, all such taxes and any  
63 interest and penalty. When any such protested assessment shall have been finally determined, Operator shall pay the tax for the joint ac-  
64 count, together with any interest and penalty accrued, and the total cost shall then be assessed against the parties, and be paid by them, as  
65 provided in Exhibit "C".

66  
67 Each party shall pay or cause to be paid all production, severance, excise, gathering and other taxes imposed upon or with respect to  
68 the production or handling of such party's share of oil and/or gas produced under the terms of this agreement.

**ARTICLE VII**  
**continued**

**G. Insurance:**

At all times while operations are conducted hereunder, Operator shall comply with the workmen's compensation law of the state where the operations are being conducted; provided, however, that Operator may be a self-insurer for liability under said compensation laws in which event the only charge that shall be made to the joint account shall be as provided in Exhibit "C". Operator shall also carry or provide insurance for the benefit of the joint account of the parties as outlined in Exhibit "D", attached to and made a part hereof. Operator shall require all contractors engaged in work on or for the Contract Area to comply with the workmen's compensation law of the state where the operations are being conducted and to maintain such other insurance as Operator may require.

In the event automobile public liability insurance is specified in said Exhibit "D", or subsequently receives the approval of the parties, no direct charge shall be made by Operator for premiums paid for such insurance for Operator's automotive equipment.

**ARTICLE VIII.**  
**ACQUISITION, MAINTENANCE OR TRANSFER OF INTEREST**

**A. Surrender of Leases:**

The leases covered by this agreement, insofar as they embrace acreage in the Contract Area, shall not be surrendered in whole or in part unless all parties consent thereto.

However, should any party desire to surrender its interest in any lease or in any portion thereof, and the other parties do not agree or consent thereto, the party desiring to surrender shall assign, without express or implied warranty of title, all of its interest in such lease, or portion thereof, and any well, material and equipment which may be located thereon and any rights in production thereafter secured, to the parties not consenting to such surrender. If the interest of the assigning party is or includes an oil and gas interest, the assigning party shall execute and deliver to the party or parties not consenting to such surrender an oil and gas lease covering such oil and gas interest for a term of one (1) year and so long thereafter as oil and/or gas is produced from the land covered thereby, such lease to be on the form attached hereto as Exhibit "B". Upon such assignment or lease, the assigning party shall be relieved from all obligations thereafter accruing, but not theretofore accrued, with respect to the interest assigned or leased and the operation of any well attributable thereto, and the assigning party shall have no further interest in the assigned or leased premises and its equipment and production other than the royalties retained in any lease made under the terms of this Article. The party assignee or lessee shall pay to the party assignor or lessor the reasonable salvage value of the latter's interest in any wells and equipment attributable to the assigned or leased acreage. The value of all material shall be determined in accordance with the provisions of Exhibit "C", less the estimated cost of salvaging and the estimated cost of plugging and abandoning. If the assignment or lease is in favor of more than one party, the interest shall be shared by such parties in the proportions that the interest of each bears to the total interest of all such parties.

Any assignment, lease or surrender made under this provision shall not reduce or change the assignor's, lessor's or surrendering party's interest as it was immediately before the assignment, lease or surrender in the balance of the Contract Area; and the acreage assigned, leased or surrendered, and subsequent operations thereon, shall not thereafter be subject to the terms and provisions of this agreement.

**B. Renewal or Extension of Leases:**

If any party secures a renewal of any oil and gas lease subject to this agreement, all other parties shall be notified promptly, and shall have the right for a period of thirty (30) days following receipt of such notice in which to elect to participate in the ownership of the renewal lease, insofar as such lease affects lands within the Contract Area, by paying to the party who acquired it their several proper proportionate shares of the acquisition cost allocated to that part of such lease within the Contract Area, which shall be in proportion to the interests held at that time by the parties in the Contract Area.

If some, but less than all, of the parties elect to participate in the purchase of a renewal lease, it shall be owned by the parties who elect to participate therein, in a ratio based upon the relationship of their respective percentage of participation in the Contract Area to the aggregate of the percentages of participation in the Contract Area of all parties participating in the purchase of such renewal lease. Any renewal lease in which less than all parties elect to participate shall not be subject to this agreement.

Each party who participates in the purchase of a renewal lease shall be given an assignment of its proportionate interest therein by the acquiring party.

The provisions of this Article shall apply to renewal leases whether they are for the entire interest covered by the expiring lease or cover only a portion of its area or an interest therein. Any renewal lease taken before the expiration of its predecessor lease, or taken or contracted for within six (6) months after the expiration of the existing lease shall be subject to this provision; but any lease taken or contracted for more than six (6) months after the expiration of an existing lease shall not be deemed a renewal lease and shall not be subject to the provisions of this agreement.

The provisions in this Article shall also be applicable to extensions of oil and gas leases.

**C. Acreage or Cash Contributions:**

While this agreement is in force, if any party contracts for a contribution of cash towards the drilling of a well or any other operation on the Contract Area, such contribution shall be paid to the party who conducted the drilling or other operation and shall be applied by it against the cost of such drilling or other operation. If the contribution be in the form of acreage, the party to whom the contribution is made shall promptly tender an assignment of the acreage, without warranty of title, to the Drilling Parties in the proportions

## ARTICLE VIII

continued

1 said Drilling Parties shared the cost of drilling the well. Such acreage shall become a separate Contract Area and, to the extent possible, be  
 2 governed by provisions identical to this agreement. Each party shall promptly notify all other parties of any acreage or cash contributions  
 3 it may obtain in support of any well or any other operation on the Contract Area. The above provisions shall also be applicable to op-  
 4 tional rights to earn acreage outside the Contract Area which are in support of a well drilled inside the Contract Area.

5  
 6 If any party contracts for any consideration relating to disposition of such party's share of substances produced hereunder, such  
 7 consideration shall not be deemed a contribution as contemplated in this Article VIII.C.

## D. Maintenance of Uniform Interest:

8  
 9 For the purpose of maintaining uniformity of ownership in the oil and gas leasehold interests covered by this agreement, no  
 10 party shall sell, encumber, transfer or make other disposition of its interest in the leases embraced within the Contract Area and in wells,  
 11 equipment and production unless such disposition covers either:

- 12 1. the entire interest of the party in all leases and equipment and production; or
- 13 2. an equal undivided interest in all leases and equipment and production in the Contract Area.

14  
 15 Every such sale, encumbrance, transfer or other disposition made by any party shall be made expressly subject to this agreement  
 16 and shall be made without prejudice to the right of the other parties.

17  
 18 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  
 19 require such co-owners to appoint a single trustee or agent with full authority to receive notices, approve expenditures, receive billings for  
 20 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  
 21 party's interest within the scope of the operations embraced in this agreement; however, all such co-owners shall have the right to enter  
 22 into and execute all contracts or agreements for the disposition of their respective shares of the oil and gas produced from the Contract  
 23 Area and they shall have the right to receive, separately, payment of the sale proceeds thereof.

## E. Waiver of Rights to Partition:

24  
 25 If permitted by the laws of the state or states in which the property covered hereby is located, each party hereto owning an  
 26 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  
 27 interest therein.

~~F. Preferential Right to Purchase.~~

28  
 29 ~~Should any party desire to sell all or any part of its interests under this agreement, or its rights and interests in the Contract~~  
 30 ~~Area, it shall promptly give written notice to the other parties, with full information concerning its proposed sale, which shall include the~~  
 31 ~~name and address of the prospective purchaser (who must be ready, willing and able to purchase), the purchase price, and all other terms~~  
 32 ~~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~~  
 33 ~~on the same terms and conditions the interest which the other party proposes to sell; and, if this optional right is exercised, the purchas-~~  
 34 ~~ing parties shall share the purchased interest in the proportions that the interest of each bears to the total interest of all purchasing par-~~  
 35 ~~ties. However, there shall be no preferential right to purchase in those cases where any party wishes to mortgage its interests, or to~~  
 36 ~~dispose of its interests by merger, reorganization, consolidation, or sale of all or substantially all of its assets to a subsidiary or parent com-~~  
 37 ~~pany, 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

38  
 39 This agreement is not intended to create, and shall not be construed to create, a relationship of partnership or an association  
 40 for profit between or among the parties hereto. Notwithstanding any provision herein that the rights and liabilities hereunder are several  
 41 and not joint or collective, or that this agreement and operations hereunder shall not constitute a partnership, if, for federal income tax  
 42 purposes, this agreement and the operations hereunder are regarded as a partnership, each party hereby affected elects to be excluded  
 43 from the application of all of the provisions of Subchapter "K", Chapter 1, Subtitle "A", of the Internal Revenue Code of 1954, as per-  
 44 mitted and authorized by Section 761 of the Code and the regulations promulgated thereunder. Operator is authorized and directed to ex-  
 45 ecute on behalf of each party hereby affected such evidence of this election as may be required by the Secretary of the Treasury of the  
 46 United States or the Federal Internal Revenue Service, including specifically, but not by way of limitation, all of the returns, statements,  
 47 and the data required by Federal Regulations 1.761. Should there be any requirement that each party hereby affected give further  
 48 evidence of this election, each such party shall execute such documents and furnish such other evidence as may be required by the  
 49 Federal Internal Revenue Service or as may be necessary to evidence this election. No such party shall give any notices or take any other  
 50 action inconsistent with the election made hereby. If any present or future income tax laws of the state or states in which the Contract  
 51 Area is located or any future income tax laws of the United States contain provisions similar to those in Subchapter "K", Chapter 1,  
 52 Subtitle "A", of the Internal Revenue Code of 1954, under which an election similar to that provided by Section 761 of the Code is per-  
 53 mitted, each party hereby affected shall make such election as may be permitted or required by such laws. In making the foregoing elec-  
 54 tion, each such party states that the income derived by such party from operations hereunder can be adequately determined without the  
 55 computation of partnership taxable income.

ARTICLE X.  
CLAIMS AND LAWSUITS

Operator may settle any single uninsured third party damage claim or suit arising from operations hereunder if the expenditure does not exceed Ten Thousand and no/100----- Dollars \$ 10,000.00 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 expenses of handling, settling, or otherwise discharging such claim or suit shall be at the joint expense of the parties participating in the operation from which the claim or suit arises. 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, such party shall immediately notify all other parties, 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 mail or telegram, postage or charges prepaid, or by telex or telecopier and addressed to the parties 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 mail or with the telegraph company, with postage or charges prepaid, or sent by telex or telecopier. Each party shall have the right to change its address at any time, and from time to time, by giving written notice thereof 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 subject 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.

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.

Option No. 2: In the event the well described in Article VI.A., 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 90 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, reworking, deepening, plugging back, testing or attempting to complete 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 VI.A., or any subsequent well drilled hereunder, results in a dry hole, and no other well is producing, or capable of producing oil and/or gas from the Contract Area, this agreement shall terminate unless drilling, deepening, plugging back or reworking operations are commenced within 90 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 Contract Area 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, or ordinances, rules, regulations, and orders.

B. Governing Law:

This agreement and all matters pertaining hereto, including, but not limited to, matters of performance, non-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 of New Mexico shall govern.

C. Regulatory Agencies:

Nothing herein contained shall grant, or be construed to grant, Operator the right or authority to waive or release any rights, privileges, or obligations which Non-Operators may have under federal or state laws or under rules, regulations or orders promulgated under such laws in reference to oil, gas and mineral operations, including the location, operation, or production of wells, on tracts offsetting or adjacent to the Contract Area.

With respect to operations hereunder, Non-Operators agree to release Operator from any and all losses, damages, injuries, claims and causes of action arising out of, incident to or resulting directly or indirectly from Operator's interpretation or application of rules, regulations, regulations or orders of the Department of Energy or predecessor or successor agencies to the extent such interpretation or application was made in good faith. Each Non-Operator further agrees to reimburse Operator for any amounts applicable to such Non-Operator's share of production that Operator may be required to refund, rebate or pay as a result of such an incorrect interpretation or application, together with interest and penalties thereon owing by Operator as a result of such incorrect interpretation or application.

Non-Operators authorize Operator to prepare and submit such documents as may be required to be submitted to the purchaser of any crude oil sold hereunder or to any other person or entity pursuant to the requirements of the "Crude Oil Windfall Profit Tax Act of 1980", as same may be amended from time to time ("Act"), and any valid regulations or rules which may be issued by the Treasury Department from time to time pursuant to said Act. Each party hereto agrees to furnish any and all certifications or other information which is required to be furnished by said Act in a timely manner and in sufficient detail to permit compliance with said Act.

ARTICLE XV.  
OTHER PROVISIONS

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 \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_\_.

OPERATOR

MESA OPERATING LIMITED PARTNERSHIP  
By: Pickens Operating Co., General Partner

By: \_\_\_\_\_  
Richard W. Petrie  
Manager-Land & Acquisitions

NON-OPERATORS

\_\_\_\_\_  
R. K. O'CONNELL

AMOCO PRODUCTION COMPANY

By: \_\_\_\_\_

CONOCO, INC.

By: \_\_\_\_\_

EXHIBIT "A"

Attached to and made a part of that certain Operating Agreement dated March 15, 1990, by and between Mesa Operating Limited Partnership as Operator and R. K. O'Connell, Amoco Production Company and Conoco, Inc., as Non-Operators.

(1) Identification of lands subject to agreement:

Township 30 North, Range 10 West  
Section 20: N/2  
San Juan County, New Mexico

(2) Restriction, if any, as to depths or formations: Fruitland Coal

(3) Percentages or fractional interest of parties to this agreement:

Mesa Operating Limited Partnership	74.70%
R. K. O'Connell	12.65%
Amoco Production Company	6.325%
Conoco, Inc.	6.325%

(4) Addresses:

Mesa Operating Limited Partnership  
P. O. Box 2009  
Amarillo TX 79189-2009

R. K. O'Connell  
Box 2003  
Casper WY 82602-2003

Amoco Production Company  
P. O. Box 800  
Denver CO 80201-0800

Conoco, Inc.  
Box 460  
Hobbs NM 88240

EXHIBIT

" C "

Attached to and made a part of that certain Operating Agreement dated March 15, 1990  
by and between Mesa Operating Limited Partnership, as Operator, and R. K. O'Connell,  
Amoco Production Company and Conoco, Inc., 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.

**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**

A. 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 within fifteen (15) days after receipt of the billing or by the first day of the month for which the advance is required, whichever is later. Operator shall adjust each monthly billing to reflect advances received from the Non-Operators.

B. Each Non-Operator shall pay its proportion of all bills within fifteen (15) days after receipt. If payment is not made within such time, the unpaid balance shall bear interest monthly at the prime rate in effect at Texas Commerce Bank, Houston, Texas on the first day of the month in which delinquency occurs plus 1% 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. 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 a joint audit 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. The audits shall not be conducted more than once each year without prior approval of Operator, except upon the resignation or removal of the Operator, and shall be made at the expense of those Non-Operators approving such audit.
- B. The Operator shall reply in writing to an audit report within 180 days after receipt of such report.

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. **Ecological and Environmental**

Costs incurred for the benefit of the Joint Property as a result of governmental or regulatory requirements to satisfy environmental considerations applicable to the Joint Operations. Such costs may include surveys of an ecological or archaeological nature and pollution control procedures as required by applicable laws and regulations.

2. **Rentals and Royalties**

Lease rentals and royalties paid by Operator for the Joint Operations.

3. **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.
- (4) Salaries and wages of Technical Employees either temporarily or permanently assigned to and directly employed in the operation of 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 3A of this Section II. Such costs under this Paragraph 3B 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 3A 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 3A and 3B of this Section II.
- D. Personal Expenses of those employees whose salaries and wages are chargeable to the Joint Account under Paragraph 3A of this Section II.

4. **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 3A and 3B of this Section II shall be Operator's actual cost not to exceed the percent most recently recommended by the Council of Petroleum Accountants Societies.

5. **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.

3. **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 where like material is normally available or railway receiving point nearest the Joint Property 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 where like material is normally available, or railway receiving point nearest the Joint Property 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, the option to equalize or charge actual trucking cost is available when the actual charge is \$400 or less excluding accessorial charges. The \$400 will be adjusted to the amount most recently recommended by the Council of Petroleum Accountants Societies.

#### 7. Services

The cost of contract services, equipment and utilities provided by outside sources, except services excluded by Paragraph 10 of Section II and Paragraph i, ii, and iii, 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.

#### 8. 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 gross investment less accumulated depreciation not to exceed twelve percent (12%) 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 8A 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.

#### 9. 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.

#### 10. Legal Expense

Costs and 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, and the costs and expenses incurred in connection with hearings and other matters before governmental bodies and agencies and costs and expenses incurred in examining and curing title, except that no charge for services of Operator's legal staff shall be made.

#### 11. 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. If the ad valorem taxes are based in whole or in part upon separate valuations of each party's working interest, then notwithstanding anything to the contrary herein, charges to the Joint Account shall be made and paid by the Parties hereto in accordance with the tax value generated by each party's working interest.

#### 12. Insurance (See Exhibit "D" attached)

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 Worker'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.

#### 13. Abandonment and Reclamation

Costs incurred for abandonment of the Joint Property, including costs required by governmental or other regulatory authority.

#### 14. Communications

Cost of acquiring, leasing, installing, operating, repairing and maintaining communication systems, including radio and microwave facilities directly serving the Joint Property. In the event communication facilities, systems serving the Joint Property are Operator owned, charges to the Joint Account shall be made as provided in Paragraph 8 of this Section II.

#### 15. 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 of direct benefit to the Joint Property and 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 "See Schedule I Attached hereto and made a part hereof"  
 ( ) 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 3A, 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 be covered by the overhead rates, or  
 (X) shall not be covered by the overhead rates.

- iii. The salaries, wages and Personal Expenses of Technical Employees and/or costs of professional consultant services and contract services of technical personnel either temporarily or permanently assigned to and directly employed in the operation of the Joint Property:

(X) shall be covered by the overhead rates, or  
 ( ) shall not 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 \$ 3831  
 (Prorated for less than a full month)

Producing Well Rate \$ 382

- (2) Application of Overhead - Fixed Rate Basis shall be as follows:

##### (a) Drilling Well Rate

- (1) Charges for drilling wells shall begin on the date the well is spudded and terminate on the date the drilling rig, completion rig, or other units used in completion of the well is released, whichever is later, except that no charge shall be made during suspension of drilling or completion operations for fifteen (15) or more consecutive calendar days.
- (2) Charges for wells undergoing any type of workover or recompletion for a period of five (5) consecutive work 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 or other units used in workover, commence through date of rig or other unit release, except that no charge shall be made during suspension of operations for fifteen (15) or more consecutive calendar 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 shall be made for the month in which plugging and abandonment operations are completed on any well. This one-well charge shall be made whether or not the well has produced except when drilling well rate applies.
- (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 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 10 of Section II and all salvage credits.

(b) Operating

\_\_\_\_\_ Percent ( \_\_\_\_\_ %) of the cost of operating the Joint Property exclusive of costs provided under Paragraphs 2 and 10 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 rig and crew capable of drilling to the producing interval on the Joint Property; 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 \$25,000.00 :

- A. 5 % of first \$100,000 or total cost if less, plus
- B. 3 % of costs in excess of \$100,000 but less than \$1,000,000, plus
- C. 2 % of 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 and artificial lift equipment shall be excluded.

3. Catastrophe Overhead

To compensate Operator for overhead costs incurred in the event of expenditures resulting from a single occurrence due to oil spill, blowout, explosion, fire, storm, hurricane, or other catastrophes as agreed to by the Parties, which are necessary to restore the Joint Property to the equivalent condition that existed prior to the event causing the expenditures, Operator shall either negotiate a rate prior to charging the Joint Account or shall charge the Joint Account for overhead based on the following rates:

- A. 5 % of total costs through \$100,000; plus
- B. 3 % of total costs in excess of \$100,000 but less than \$1,000,000; plus
- C. 2 % of total costs in excess of \$1,000,000.

Expenditures subject to the overheads above will not be reduced by insurance recoveries, and no other overhead provisions of this Section III shall apply.

4. 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.

\*When design and engineering is furnished by third party contractors and charged to the Joint Account, the construction overhead charges on projects in excess of \$25,000.00 shall be 1-1/2% of total cost.

#### 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 reasons, 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 basis:

###### A. New Material (Condition A)

###### (1) Tubular Goods Other than Line Pipe

- (a) Tubular goods, sized 2-3/8" OD and larger, except line pipe shall be priced at the current market price based on the average monthly spot market price as determined by Pipe Logix, Inc. which is published in the American Metal Market Magazine effective on the date of movement plus transportation cost to be calculated by using the Oil Field Haulers Association's published interstate 30,000 pound truck rate from the nearest reliable supply store to the Joint Property which handles such material.
- (b) For grades which are special to one mill only shall be priced at the actual cost of that material plus transportation cost to be calculated by using the Oil Field Haulers Association's published interstate 30,000 pound truck rate from the nearest reliable supply store to the Joint Property which handles such material.
- (c) Special end finish tubular goods shall be priced at the actual cost of that material plus transportation cost to be calculated by using the Oil Field Haulers Association's published interstate 30,000 pound truck rate from the nearest reliable supply store to the Joint Property which handles such material.
- (d) Macaroni tubing (size less than 2-3/8 inch OD) shall be priced at the actual cost of that material plus transportation cost to be calculated by using the Oil Field Haulers Association's published interstate truck rate per weight of the tubing transferred from the nearest reliable supply store to the Joint Property which handles such material.

###### (2) Line Pipe

- (a) Line pipe movements (except size 24 inch OD and larger with walls 3/4 inch and over) 30,000 pounds or more shall be priced under provisions of tubular goods pricing in Paragraph A.(1)(a) as provided above.

- (b) Line pipe movements (except size 24 inch OD and larger with walls 3/4 inch and over) less than 30,000 pounds shall be priced under provisions of tubular goods pricing in Paragraph A.(1)(a) as provided above.
- (c) Line pipe 24 inch OD and over and 3/4 inch wall and larger shall be priced under provisions of tubular goods pricing in Paragraph A.(1)(a) as provided above.
- (3) Other Material shall be priced at the actual cost of that material, plus transportation costs to be calculated by using Oil Field Haulers Association's published interstate 30,000 pound truck rates from the nearest reliable supply store to the Joint Property which handles such material.
- (4) Unused new Material moved from the Joint Property shall be priced as provided above in Paragraph 2 A (1) and (2).

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

At seventy-five percent (75%) of current new price, as determined by Paragraph A.

(2) Material used on and moved from the Joint Property

(a) At seventy-five percent (75%) of current new price, as determined by Paragraph A, 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 A, if Material was originally charged to the Joint Account as used material.

(3) Material not used on and moved from the Joint Property

At seventy-five percent (75%) of current new price as determined by Paragraph A.

The cost of reconditioning, if any, shall be absorbed by the transferring property.

C. Other Used Material

(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 A. 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

Material, excluding junk, no longer suitable for its original purpose, but usable for some other purpose shall be priced on a basis commensurate with its use. Operator may dispose of Condition D Material under procedures normally used by Operator without prior approval of Non-Operators.

(a) Casing, tubing, or drill pipe used as line pipe shall be priced as Grade A and B seamless line pipe of comparable size and weight. Used casing, tubing or drill pipe utilized as line pipe shall be priced at used line pipe prices.

(b) Casing, tubing or drill pipe used as higher pressure service lines than standard line pipe, e.g. power oil lines, shall be priced under normal pricing procedures for casing, tubing, or drill pipe. Upset tubular goods shall be priced on a non upset basis.

(3) Condition E

Junk shall be priced at prevailing prices. Operator may dispose of Condition E Material under procedure normally utilized by 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 or unloading costs may be charged to the Joint Account at the rate of twenty-five cents (25¢) per hundred weight on all tubular goods movements, in lieu of actual loading or unloading costs sustained at the stocking point. The above rate shall be adjusted as of the first day of April each year following January 1, 1985 by the same percentage increase or decrease used to adjust overhead rates in Section III, Paragraph 1.A(3). Each year, the rate calculated shall be rounded to the nearest cent and shall be the rate in effect until the first day of April next year. Such rate shall be published each year by the Council of Petroleum Accountants Societies.

(2) Material involving erection costs shall be charged at applicable percentage of the current knocked-down price of new Material.

3. 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

Adjustments to the Joint Account resulting from the reconciliation of a physical inventory shall be made within six months following the taking of the inventory. Inventory adjustments shall be made by Operator to 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, change of interest, or change of Operator 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. In cases involving a change of Operator, all Parties shall be governed by such inventory.

4. Expense of Conducting Inventories

- A. The expense of conducting periodic inventories shall not be charged to the Joint Account unless agreed to by the Parties.
- B. The expense of conducting special inventories shall be charged to the Parties requesting such inventories, except inventories required due to change of Operator shall be charged to the Joint Account.

## SCHEDULE I

Attached to and made a part of Joint Operating Agreement dated March 15, 1990  
by and between Mesa Operating Limited Partnership, as Operator, and  
R. K. O'Connell, Amoco Production Company and Conoco, Inc., as Non-Operators.

The Combined Fixed Rates, as heretofore provided under Section III, Paragraph A. of the COPAS Accounting Procedure to which this schedule is attached, shall be in lieu of all charges to the Joint Account for the indirect costs and expenses incurred by Operator in providing the joint operations with the producing and development functions and services hereinafter identified as Compensation for Administrative, Supervision, Office Services and Warehousing costs.

The following reflects a representative abridged listing of the functions and/or services which shall be considered as included in the Operator's District Expense and Warehousing, and should serve as a guide for similar functions intended to be covered by the Combined Fixed Rates even though some of the functions may be contract services performed by third parties.

### Salaries, Benefits and Related Costs of Field, Area and/or District:

Managers and/or Superintendents

Foreman - Superintendent

Drilling - (Except when permitted as a direct charge under  
Para. 1.ii, Sec. III)

Production - (Except when permitted as a direct charge under  
Para. 1.ii, Sec. III)

Construction - (Except when permitted as a direct charge under  
Para. 1.ii, Sec. III)

Production Engineers - (Except when permitted as a direct charge  
under Para. 1.ii, Sec. III)

Production Geologists - (Except when permitted as a direct charge  
under Para. 1.ii, Sec. III)

Other Technical Employees - (Except when permitted as a direct  
charge under Para. 1.ii, Sec. III)

Office Stenographers

Office Clerks

Time Keeping

Preparation of Boat, Automotive and Other Vehicle Reports

Local Purchasing (Field Orders)

Preparation and Coding of Invoices

Preparation of Material Requisitions

Preparation of Field Transfers

Preparation of Field Receiving Reports

Posting of Production Reports

Preparation of Over and Short Reports

Reading and Integration of Charts

Preparation of Field Gas Production and Consumption Report

Preparation of Field Office Reports to State and Federal

Regulatory Bodies

Miscellaneous Routine Field Office Clerical Duties

Field Office Inventory Men

Conducting Physical Inventories

Preparation of Field Inventory Records

Office Equipment, Supplies, Stationery and Forms

Maps, Photostats and Blueprints, when required for general  
District Use.

Rentals

Rentals paid for buildings, office and storage space used by  
District employees.

Rentals paid in connection with sites for District production  
offices, camps, warehouses and other facilities used specifically  
for District purposes.

Ad Valorem Taxes

Taxes paid on buildings and equipment charged to Operator's  
Field, Area, and/or District investment accounts

## Insurance

Net cost of all types of insurance, including workmen's compensation and public liability insurance; when such insurance is applicable to District.

The following reflects a representative abridged listing of the functions and/or services which shall be considered as included in the Operator's Administrative Overhead, and should serve as a guide for similar functions intended to be covered by the combined Fixed Rates even though some of the functions may be contract services performed by third parties.

## General Management

### General Operating Administration

Drilling Managers and/or Superintendents and Office Staffs  
Production Managers and/or Superintendents and Office Staffs  
Civil Engineers - (Except when permitted as a direct charge under Para. 1.ii, Sec. III)  
Reservoir Analysis and Engineering  
Petroleum Engineers - (Except when permitted as a direct charge under Para. 1.ii, Sec. III)  
Negotiation of Production and Residue Gas Sales  
Negotiation of Major Gas Sales  
Preparation and Negotiation of Joint Operation Agreements  
Preparation of General Production Records  
Traveling and Transportation Expense of Home, Division, Area, Region, or similar Administrative Office Employees

### General Accounting and Services

Checking of invoices  
Preparation of Paychecks  
Responsibility of Account Distribution or Coding  
Payment of Vendor's Invoices  
Maintaining Property Investment Records  
Preparation of Joint Interest Billing  
Preparation of Royalty Checks  
Machine Accounting and Data Processing Functions  
Photostat and Other Reproduction Service  
Ad Valorem Tax Service and/or Counsel  
Systems and Procedures  
Internal Auditing

Communications Expense - Telephone, telegraph and teletype service rendered to the district; also operating expenses of radio communication systems which serve the district and which are not chargeable to any particular lease or facility operation. The costs applicable to communication service and/or equipment directly employed on and serving the joint property shall be direct charge to the joint property.

Area and/or District Office Utility Services

Local Field, Area and/or District Recreation Facilities

Safety Meetings and/or Dinners

Area and/or District Office Safety Equipment

First Aid Supplies

Physical and Medical Examinations - Cost of pre-employment and medical examinations of personnel to be employed in the district, including costs of annual or periodic examinations and immunizations.

Transportation, including freight and express costs when such costs are incurred directly in the operation and/or maintenance of district offices, buildings, and facilities.

Traveling Expense of district employees when such expense is for the sole benefit of the district. Traveling and personal expenses of district employees attending oil show, API meetings, and company training schools, etc., which are for the primary

benefit of the Operator shall be borne solely by the Operator.

Moving Expenses - Costs of moving and transfer of district employees including relocation expenses such as real estate fees, closing cost, compensation for loss on sale of home, carpeting and draperies, etc., when transferred within or into the district. Costs incurred for the primary benefit of the Operator, such as transfer of trainees, shall be borne solely by the Operator.

Memberships, dues and Subscriptions for Field, Area and/or District Personnel.

Depreciation on Operator's wholly-owned Field, Area, and/or District production offices, equipment, buildings, camps, roads, fences, canals, docks, marine terminals, and slips etc., used for District purposes.

Repair and Maintenance on Operator's wholly-owned Field, Area, and/or District production offices, equipment, buildings, camps, roads, fences, canals, docks, marine terminals, and slips, etc. including the cost of small tools and supplies used specifically for District purposes.

Warehouse - wholly-owned  
Depreciation  
Operating and Maintenance Expense  
Cost of Storing and Handling Material

Title Record and Division Order Administration  
Landman and Titlemen  
Maintenance of Division of Interest Records  
Obtaining Royalty Signatures

Exploration Administration  
Geologist - (Except when permitted as a direct charge under Para. 1.ii, Sec., III)  
General Research  
Geophysicists

General Purchasing Administration

Industrial and Public Relation Administration  
Employee Relation Counselor  
Safety Engineer  
Industrial Nurse and/or Doctor  
Dinners, Parties, etc.  
Safety Awards  
Incentive Awards  
Thanksgiving Turkeys or Christmas Baskets  
Contributions to Charity and/or Civic Organizations  
Special Investigators  
Administration of Benefit Plans

General Oil and Gas Well Proration and Pricing Administration  
Preparation of Reports to and Representation before  
Governmental Agencies

General Legal Counsel (Operator's Legal Staff)  
Preparation of Contracts  
Claims and Litigation  
Title and Other Opinions

Transportation and Traffic Administration

Insurance Administration

EXHIBIT "D"

Attached to and made a part of that certain Operating Agreement dated March 15  
1990, by and between Mesa Operating Limited Partnership,  
as Operator, and R. K. O'Connell, Amoco Production Company and Conoco, Inc., as  
Non-Operators.

- I. Operator shall at all times while operations are conducted by it for the Joint Account on the jointly-owned acreage, carry or cause to be carried, pay for, and charge to the Joint Account Worker's Compensation and Occupation Disease Insurance including Employer's Liability Insurance covering the employees of Operator engaged in operations hereunder in compliance with all applicable State and Federal Laws. Such policies shall contain underwriters waiver of subrogation in favor of the Parties.
- II. Operator shall carry for its interest and for the interest of any non-operator so electing to participate in writing, within 60 days of the date of the Operating Agreement, the following types and limits of insurance:

- (A) Comprehensive General Liability covering operations conducted hereunder by Operator for the Parties with Limits of:

Combined Bodily Injury & Property Damage  
\$1,000,000 per occurrence  
\$1,000,000 Aggregate

- (B) Automobile Liability covering all vehicles owned, non-owned, or hired and used in connection with operations conducted hereunder by Operator for the Joint Account with limits of:

Combined Bodily Injury & Property Damage  
\$1,000,000 per occurrence  
\$1,000,000 Aggregate

The premiums for all such optional insurance so carried in Paragraph II shall be paid by Operator and may be charged directly to such non-operators as elect in writing to participate to the extent that their interest is insured.

- III. Each party hereto may acquire at its own expense, any additional insurance to protect itself. Each such policy shall provide for underwriters waiver of subrogation in favor of the other Parties.
- IV. Operator shall have the right, but not the obligation, to require satisfactory evidence of insurance or self-insurance from each non-operator which does not elect to participate in the optional insurance in Paragraph II above.
- V. Operator shall have the right, but not the obligation, to require satisfactory evidence of adequate insurance or self-insurance for cost of control of well and pollution liability from each non-operator. Operator shall not provide this coverage for the benefit of the Joint Account. In the event that any party fails to provide evidence of insurance as required herein ("failing party"), the Operator may, at its sole discretion, provide such insurance for and at the direct expense of the failing party. Such expense shall be a Joint Account expense if not paid by the failing party. The Operator is under no obligation to provide such insurance for the party so failing to provide satisfactory evidence of its own insurance and nothing contained herein shall be construed to alter the obligations of any party hereunder.

MKT18 - Revised 3/28/89

EXHIBIT "E"  
GAS BALANCING AGREEMENT  
ONSHORE

THIS GAS BALANCING AGREEMENT is entered into by the parties named below who own and are entitled to share in the oil and gas production from the Contract Area covered by the Operating Agreement described below.

There may be periods when one (or more) of the parties has no market for, or its purchaser is unable to take, or for some other reason it does not dispose of its interest, or a portion thereof, in the gas production. Therefore, to permit each party to produce and dispose of its interest in the gas production from the Contract Area with as much flexibility as possible, to provide an equitable method of balancing accounts and to discourage undue seasonal marketing manipulations, the parties hereto agree to this Gas Balancing Agreement as hereinafter set forth:

1. For the purposes of this Agreement, the following terms shall be defined as hereinafter set out:
  - (a) "Operating Agreement" means the Operating Agreement dated \_\_\_\_\_ and executed by the parties or their predecessors.
  - (b) "Gas" shall mean natural gas or oil well gas obtained from primary field separation.
  - (c) "Liquid Hydrocarbons" are those liquids obtained from primary field separation.
  - (d) "Percentage Ownership" is the percentage interest of each party as set forth in the Operating Agreement.
  - (e) "Over-produced Party" is a party who has utilized or sold a greater volume of gas at any given time (individually or through its gas purchaser) than the party's Percentage Ownership of the total cumulative volume of gas produced and utilized or sold.
  - (f) "Under-produced Party" is a party who has utilized or sold a lesser volume of gas at any given time (individually or through its gas purchaser) than the party's Percentage Ownership of the total cumulative volume of gas produced and utilized or sold.
2. (a) If fewer than all the parties are producing gas, the parties so producing shall have the right and option, but not the obligation, to produce and dispose of all or any part of such gas that may be produced. The parties hereto shall share in and own the liquid hydrocarbons, as produced, in accordance with their respective interests, as set forth in and subject to the terms of the Operating Agreement. The gas attributable to the interest of each non-producing party shall remain in the reservoir for production at a later date.
  - (b) Each Under-produced Party shall, upon commencing the sale of gas, have the right to take a greater percentage of the current gas production than such Under-produced Party's Percentage Ownership, subject to the following limitations:
    - (1) For the purposes of balancing gas production accounts, as soon as practical, any Over-produced Party or Parties will make available to any Under-produced Party or Parties a portion of the Over-produced Party's or Parties' share of gas production, but Over-produced Parties shall not be liable to Under-produced Parties under this paragraph except as provided in Section 3 hereof. In no event will any Over-produced Party be required to reduce the volume of gas which it is entitled to take from the Unit Area during any calendar month to less than 50% of such Over-produced Party's Percentage Ownership in the gas produced; provided, however, during a winter peak season (November through March) and Over-produced Party shall not be required to reduce the volume it is entitled to take from the

Unit Area to less than 75% of such Over-produced Party's Percentage Ownership in the gas produced. If at any time more than one Under-produced Party is taking in excess of its gas production account, then each such Under-produced Party shall be entitled to a share of the gas production made available by the Over-produced Parties in the ratio that the Percentage Ownership of each Under-produced Party bears to the total Percentage Ownership of all Under-produced Parties currently taking gas.

- (2) For the purposes of balancing production accounts as provided in Section 3 hereof, the Under-produced Party, to the extent it is taking gas in excess of that attributable to its Percentage Ownership, shall be deemed to be recovering volumes of gas offsetting prior over production by the Over-produced Party on a last-in, first-out basis. (Last over-production volume is offset by First Makeup volume).
  - (3) Each party's gas production account is in balance when such party has utilized or sold the same percentage of the total cumulative production from joint wells in a reservoir as such party's Percentage Ownership.
  - (4) It is contemplated that some of the parties may arrange to have their gas processed in a gas processing plant for the recovery of liquefiable hydrocarbons. This Agreement does provide a basis for balancing any liquefiable hydrocarbons recovered from a gas processing plant.
3. When production from a proration unit permanently ceases, there shall be an accounting between the parties hereto so that any Under-produced Party shall receive a sum of money equal to the lesser of: (1) the Under-produced Party's contract price if contracted for or (2) the amount actually received, (including processed liquid proceeds), less applicable taxes, royalty, and costs, such as processing, dehydration, compression and transportation, if not participated in by the Under-produced Party, by any Over-produced Party from the sale or utilization by it of that part of the total cumulative volumes of gas produced from the proration unit to which any Under-produced Party was entitled. If a portion of a Party's gas is taken for its own use and a portion thereof is sold, the gas value will be based on the price received simultaneously by such party for gas being sold from the proration unit. During periods in which a party is taking all of its gas for its own use, any gas so taken will be valued at the maximum price which such party could have received for such gas if actually delivered under such party's contract, or if not, the weighted average price received simultaneously by all parties for gas sold from the proration unit. All Over-produced Parties shall maintain adequate records of prices and volumes of over production and provide same to Under-produced Parties at the time of settlement when production permanently ceases.
  4. During the term hereof, each party selling gas from a proration unit in any month will furnish or cause to be furnished to each of the other Parties a statement showing the volume utilized and sold. The Operator shall furnish monthly to each party a statement showing the status of the over and short accounts of all parties.
  5. Each Party taking gas shall pay any and all production taxes due on the gas.
  6. At all times while gas is produced from the proration unit, each Party hereto shall make settlement with the respective royalty owners to whom they are each accountable, just as if each party were taking or delivering to its purchaser its share, and its share only, of the total gas production. The Over-produced Party will report said production within 30 days following the month of production so that the Under-produced Party can make his royalty payments in a timely manner. 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 owners" shall include owners of royalty, overriding royalties, production payments and similar interests.

- 7. The operating expenses are to be borne as provided in the Operating Agreement, regardless of whether all parties are selling or using gas or whether the sales and use of each are in proportion to Percentage Ownership. The Operator under the Operating Agreement is authorized to carry out the provisions of this Agreement, but shall not be liable for its failure to do so as long as it acts in good faith and as would a reasonably prudent Operator in the same or similar circumstances.
- 8. This Agreement shall constitute a separate agreement as to each well and as to each separately metered reservoir produced from each well within the proration unit.
- 9. This Agreement shall terminate when production permanently ceases and the parties' gas production accounts are balanced according to this Agreement.
- 10. Each party indemnifies the other parties against all liability for and agrees to defend the parties against all claims which may be asserted by third parties who now or hereafter stand in a contractual relationship with such indemnifying party whenever such claims are based upon said contractual relationship and arise out of the operation of this Agreement or activities of any party under its provision, and further agrees to save the other parties harmless from all judgments or damages sustained and costs incurred in connection therewith.
- 11. The terms, covenants and conditions of this Agreement shall be binding upon and shall inure to the benefit of the parties and their respective successors and assigns. The parties agree to give notice of the existence of this Agreement to any successor in interest and make any transfer of any interest subject to the terms of this Agreement.
- 12. This Agreement may be signed in counterpart and each counterpart when taken with all other counterparts shall constitute a binding agreement between the parties. This Agreement shall become effective as to the parties who have executed the Agreement, even though it has not been executed by all parties named herein.

Executed before the undersigned competent witnesses as of the dates shown below, to be effective as of the date of first production.

OPERATOR:

MESA OPERATING LIMITED PARTNERSHIP

By: Pickens Operating Co.  
General Partner

WITNESSES:

By: \_\_\_\_\_  
Claude B. Jenkins  
Vice President Marketing

Date: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

NON-OPERATORS:

NAME

WITNESSES:

By: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

NAME

WITNESSES:

By: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Attached to and made a part of that certain Operating Agreement dated  
March 15 1990, by and between Mesa Operating Limited  
Partnership, as Operator, and R. K. O'Connell, Amoco Production  
Company and Conoco, Inc., as Non-Operators.

EXHIBIT "F"

CONTRACTOR'S CERTIFICATION FOR  
MESA OPERATING LIMITED PARTNERSHIP

A. EQUAL EMPLOYMENT OPPORTUNITY

It is hereby agreed that the following provisions, which are also set forth in Section 202 of Executive Order 11246, are made a part of each agreement and purchase order presently existing or which may be entered into hereafter, between Contractor and Mesa Operating Limited Partnership.

1. Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. Contractor will take affirmative action to ensure that 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 the training, including apprenticeship. Contractor agrees to post in conspicuous places, available to employees and applicants of employment, notices to be provided by the contracting officer, setting forth the provisions of this nondiscrimination clause.
2. Contractor will, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
3. Contractor 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' representatives of the Operator's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. Contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.
5. Contractor will furnish all information and reports required by Executive Order No. 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 Contractor's non-compliance 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 Contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in said Executive Order No. 11246 of September 24, 1965, or by rules, regulation or order of the Secretary of Labor, or as otherwise provided by law.
7. Contractor 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 No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. Contractor 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 Contractor becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Contractor may request the United States to enter into such litigation to protect the interest of the United States.

#### B. EQUAL EMPLOYMENT OPPORTUNITY REPORTING

Contractor agrees to file with the appropriate federal agency a complete and accurate report on Standard Form 100(EEO-1) within 30 days after the signing of this agreement or the award of any such purchase order, as the case may be, (unless such a report has been filed in the last 12 months), and agrees to continue to file such reports annually, on or before March 31. (41 CFR 60-1.7(a)).

#### C. AFFIRMATIVE ACTION COMPLIANCE PROGRAM

Contractor agrees to develop and maintain a current written affirmative action compliance program for each of its establishments in accordance with the regulations of the Secretary of Labor promulgated under Executive Order No. 11246, as amended. (41 CFR 60-1.40).

#### D. CERTIFICATION OF NONSEGREGATED FACILITIES

Contractor, by entering into this contract, certifies that it does not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not permit its employee to perform their services at any location, under its control, where segregated facilities are maintained. It certifies further that it will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it will not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained.

Contractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means, but is not limited to, any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, creed, color, or national origin, because of habit, local custom, or otherwise. It further agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods), it will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that it will retain such certifications in its files; and that it will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

#### NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES

A Certification of Nonsegregated Facilities, as required by the May 9, 1967 Order (32 F.R. 7439, May 19, 1967) on Elimination of Segregated Facilities, by the Secretary of Labor, must be submitted prior to the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause. The certification may be submitted either for each subcontractor or for all subcontracts during a period (i.e. quarterly, semi-annually, or annually).

E. EMPLOYMENT OF VETERANS

1. The Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era Clause set forth at Section 60-250.4 of Title 41 Code of Federal Regulations is hereby incorporated herein by reference. (This clause is applicable to all contracts or purchase orders for \$10,000 or more.)
2. Contractor agrees further to place the above provisions in any subcontract nonexempt under the rules and regulations promulgated by the Secretary under the Vietnam Era Veterans Readjustment Assistance Act of 1974.

F. EMPLOYMENT OF HANDICAPPED PERSONS

1. The Affirmative Action for Handicapped Workers Clause set forth in Section 60-741.41 of Title 41 Code of Federal Regulations is hereby incorporated herein by reference. (This clause is applicable to all contracts or purchase orders for \$2,500 or more.)
2. Contractor agrees further to place the above provision in any subcontract nonexempt under the rules and regulations promulgated by the Secretary under the Rehabilitation Act of 1973.

# AFE/COST ESTIMATE

San Juan Division

Co./Div./Subsid./Dept.

AFE # \_\_\_\_\_

ID # \_\_\_\_\_

Code General Account # \_\_\_\_\_

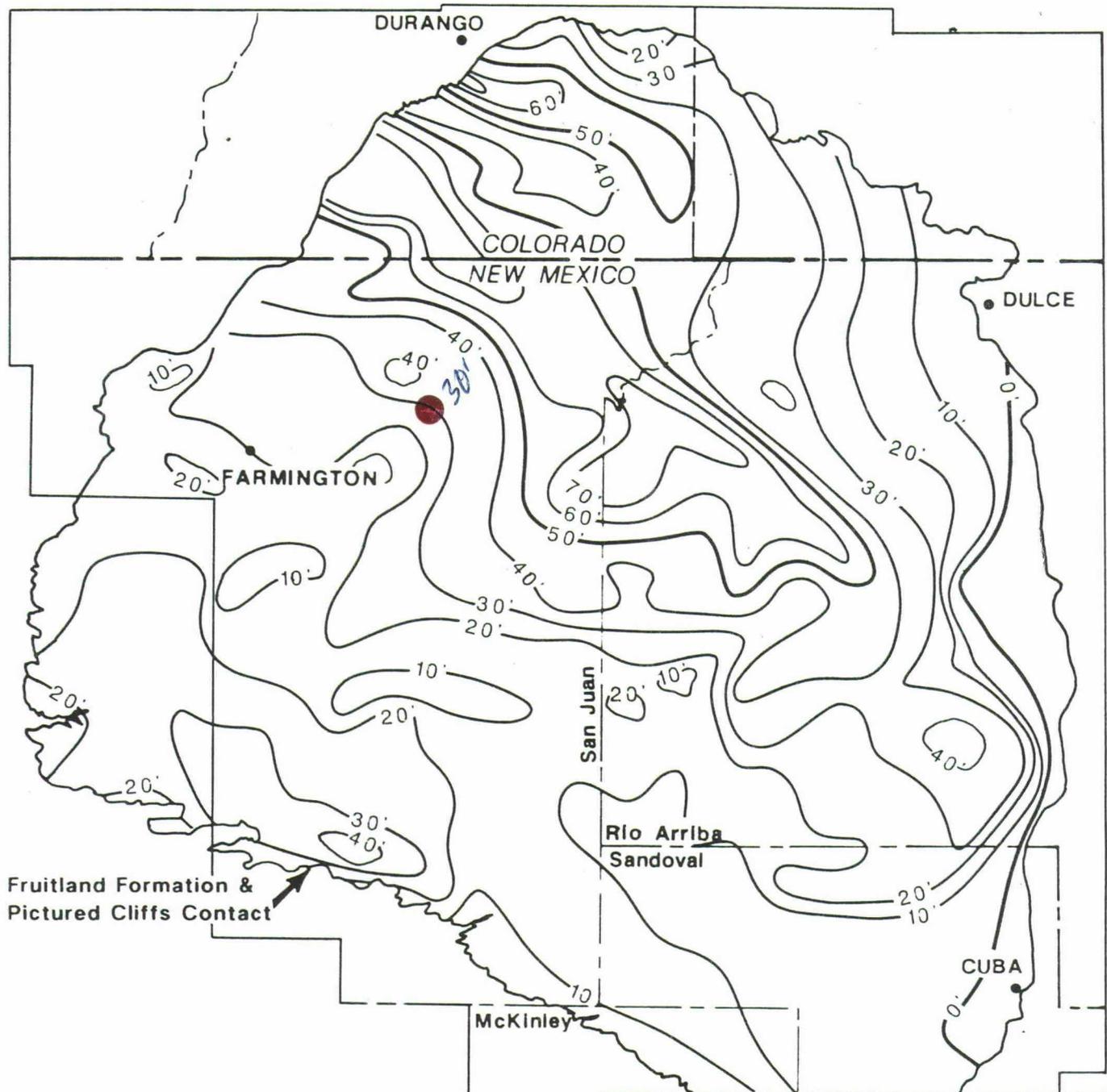
Exploratory \_\_\_\_\_ Development

LEASE, WELL NAME, AND LOCATION FC Federal Com 9  
1835' FNL & 1875' FEL, Section 20, T30N, R10W, San Juan Co., New Mexico  
 DESCRIPTION Drill and complete a 3070' Fruitland Coal Well.

Sub Acct. Codes	ITEM DESCRIPTION	Dry Hole Cost	Completion Cost	Production Other					
105	DRILLING & COMPLETION (A) FOOTAGE 3070 Ft. At \$ 11.30 /Ft. \$ 34,800	\$ 34,800	\$	\$ 34,800					
	(B) DAY WORK 1/8 Days At \$ 3600/1200/Day 1,800	1,800	9,600	11,400					
	(C) MIRU - RDMO								
115	COMPANY LABOR & SUPERVISOR	1,000	1,000	2,000					
125	ENGINEERING CONSULTANTS 8/10 Days At \$ 400 /Day 3,200	3,200	4,000	7,200					
135	GEOLOGICAL CONSULTANTS Days At \$ /Day								
145	CONTRACT SERVICES & LABOR	1,000	3,000	4,000					
155	LOCATION, ROADS, SURVEYS, DAMAGES	15,000	5,000	20,000					
165	FUEL, LUBE, POWER								
175	BITS, HOLE OPENERS, REAMERS, STABILIZERS		600	600					
185	MUD, CHEMICALS, SERVICES & EQUIP. (A) MUD, CHEM., OIL 4,500	4,500		4,500					
	(B) WATER 1,000		1,000	1,000					
190	MUD LOGGING SERVICES								
195	LOGGING & PERFORATING	8,000	8,000	16,000					
200	FORMATION TEST & RELATED EQUIPMENT & SERVICES								
205	WELL STIMULATION SERVICES		160,000	160,000					
210	CORING & RELATED SERVICES								
215	CEMENTING SERVICES & ACCESSORIES	3,000	12,000	15,000					
225	RENTAL EQUIPMENT & TOOLS	500	2,500	3,000					
235	HAULING & FREIGHT	200	1,400	1,600					
245	CATERING & OTHER Days At \$ /Day								
255	MOBILIZATION - INSTALLATION (DRILLING PLATFORMS)								
265	DEMOBILIZATION - DISMANTLING & SALVAGE (DRILLING PLATFORMS)								
275	SUPPLYBOATS, CREWBOATS, BARGES, TUGS								
285	SHOREBASE, OFFICE, DOCK FEE & CRANES								
295	AIRCRAFT RENTALS - HELICOPTERS, FIXED WING								
305	DIVERS AND RELATED EQUIPMENT								
315	MISCELLANEOUS	3,700	10,500	14,200					
400	OVERHEAD Days At \$ /Day 1,000	1,000	1,500	2,500					
	Total Intangible Costs	\$ 77,700	\$ 220,100	\$ 297,800					
115	COMPANY LABOR & SUPERVISION	\$	\$	\$					
145	OUTSIDE LABOR & SERVICES								
325		Footage	Size	Weight	Grade	Cplg.	Price/Ft.		
CASING AND TUBING	(A)	200	8 5/8	24#	K-55	STC	9.00	1,800	1,800
	(B)	3070	5 1/2	17#	N-80	LTC	7.50		23,000
	(C)	3020	2 3/8	4.7#	J-55	EUE	2.25		6,800
	(D)								
	(E)								
	(F)								
	(G)								
335	SUB-SURFACE WELL EQUIPMENT								
345	WELLHEAD & GUIDE STRUCTURE	1,000	3,000	4,000					
355	SURFACE WELL EQUIPMENT Artificial Lift		40,000	40,000					
365	TREATERS & SEPARATORS		18,000	18,000					
370	COMPRESSORS 500 BBL Heated Tank		5,000	5,000					
375	BUILDINGS								
385	BUOYS AND MARKERS								
390	MISC. MATERIALS INSTALLATION & SERVICES		11,000	11,000					
400	CONSTRUCTION OVERHEAD								
	Total Tangible Costs	\$ 2,800	\$ 106,800	\$ 109,600					
	Total Costs	\$ 80,500	\$ 326,900	\$ 407,400					

Prepared By Erica L. Little Title Sr Drlg Engr Date 3-7-90 Mesa WI  
 Approved Elwin Chance Title Supv Drlg Date 3-9-90  
 Approved \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Approval-Company \_\_\_\_\_ By \_\_\_\_\_ Title \_\_\_\_\_

Others w/                       
**BEFORE EXAMINER STOGNER**  
 OIL CONSERVATION DIVISION  
 EXHIBIT NO. 3  
 CASE NO. 9784



● Proposed Well Location

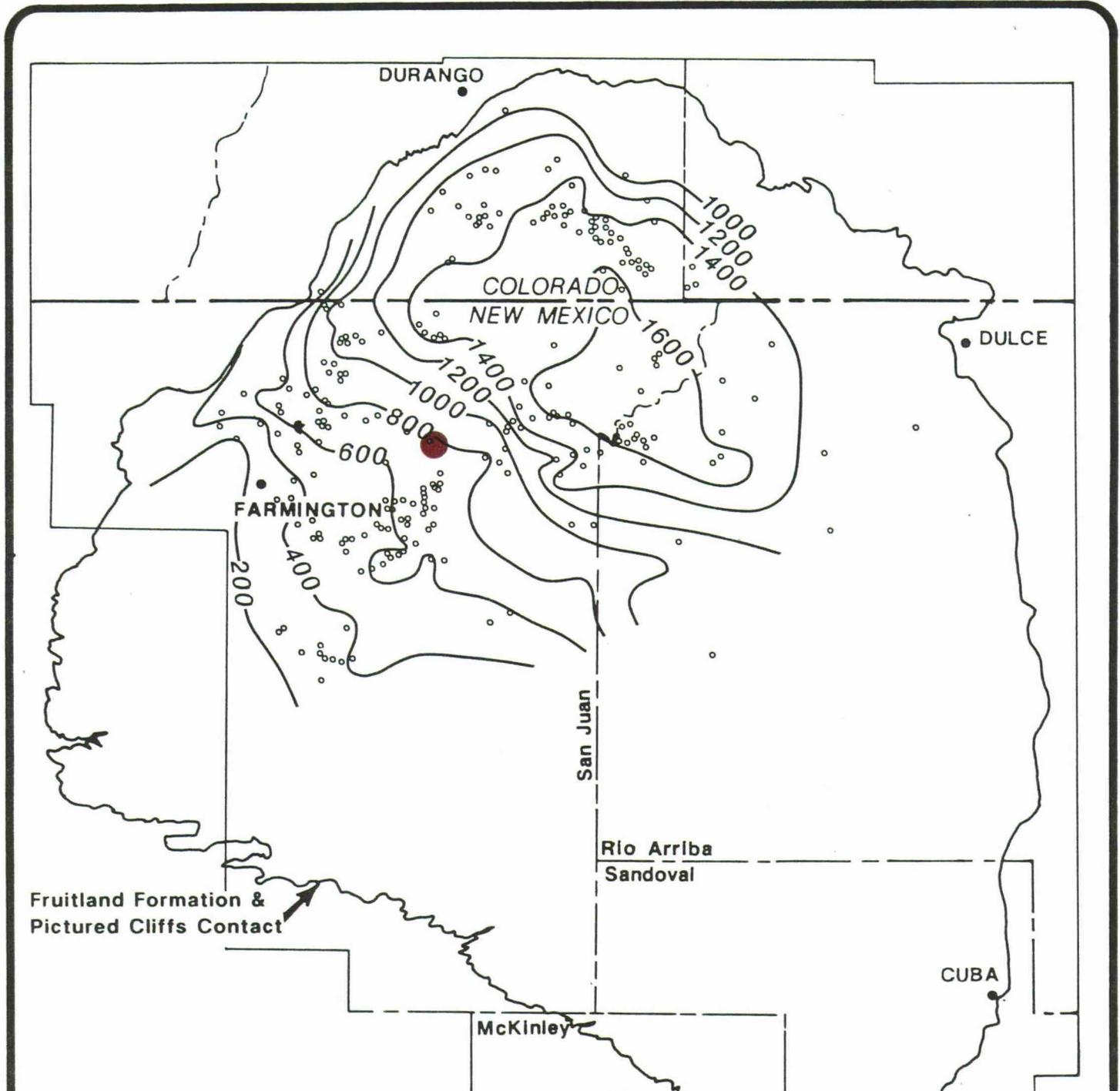
 **MESA LIMITED PARTNERSHIP**

**SAN JUAN BASIN**  
**Fruitland Coal Isopach**  
 C.I. = 10'

**APPLICATION FOR COMPULSORY POOLING**  
 CASE NO. 9984  
 July 11, 1990  
 FC Federal Com. #9  
 1835' FNL, 1875' FEL  
 Section 20, T30N-R10W  
 San Juan County, New Mexico

\* Adapted from Geologic Survey  
 Professional Paper #676

Exhibit 4



● Proposed Well Location  
 ○ Control

\* From Geologic Evaluation of Critical Production Parameters for Coalbed Methane Resources: GAS RESEARCH INSTITUTE, Published: Jan. 1990

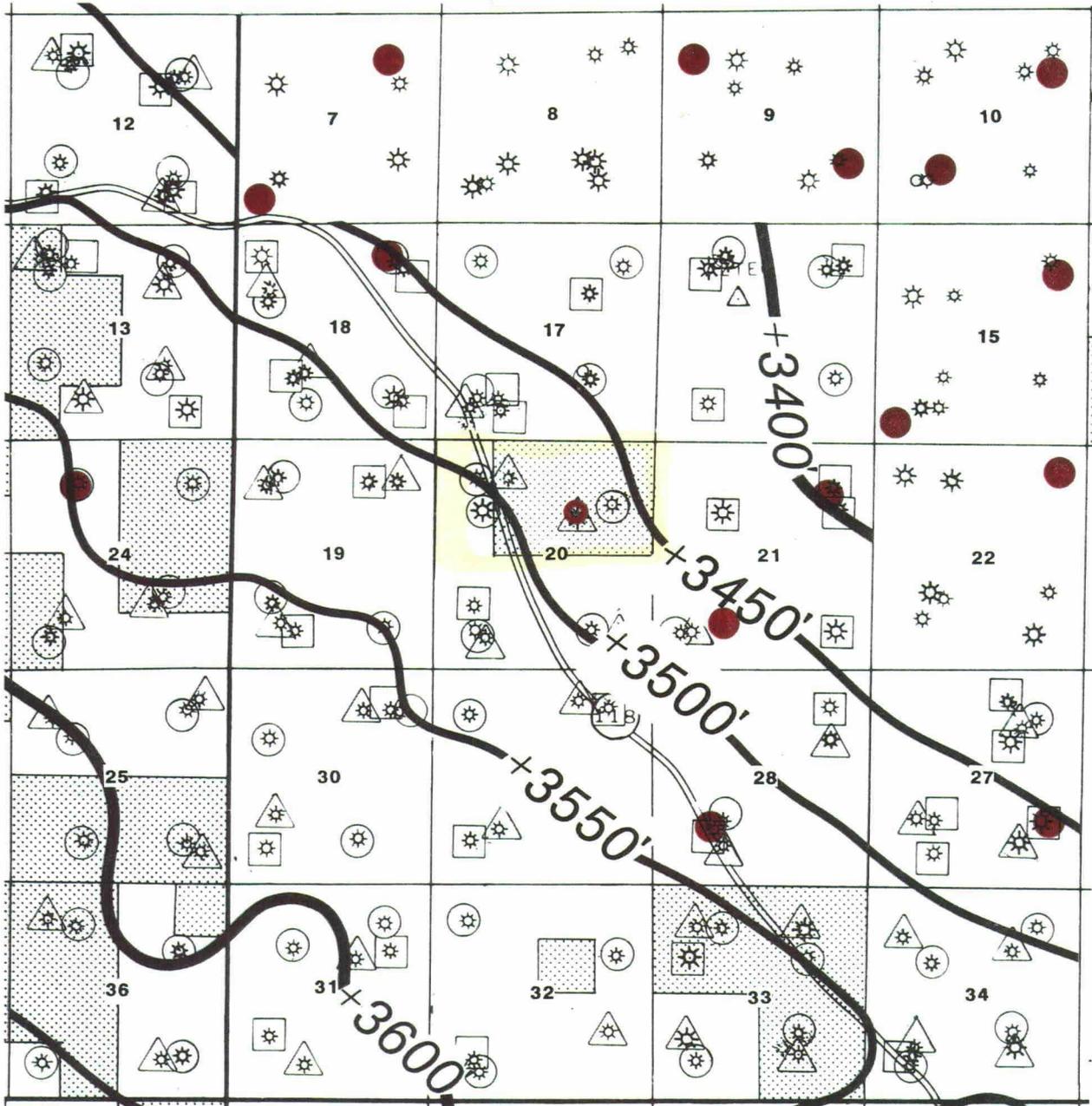
Exhibit 5

 <b>MESA</b>	<b>MESA LIMITED PARTNERSHIP</b>
	<b>SAN JUAN BASIN</b> <b>Bottom Hole Pressure</b> C.I. = 200 psi <b>APPLICATION FOR COMPULSORY POOLING</b> <b>CASE NO.9984</b> July 11, 1990 FC Federal Com. #9 1835' FNL, 1875' FEL Section 20, T30N-R10W San Juan County, New Mexico

R 11 W

R 10 W

T  
30  
N



- Proposed Well Location
- Fruitland Coal Completion

Exhibit *le*



MESA LIMITED PARTNERSHIP

**SAN JUAN BASIN**

Structure: Base Fruitland Formation  
C.I. = 50'

**APPLICATION FOR COMPULSORY POOLING**

CASE NO. 9984

July 11, 1990

FC Federal Com. #9

1835' FNL, 1875' FEL

Section 20, T30N-R10W

San Juan County, New Mexico

APPLICATION FOR COMPULSORY POOLING

CASE NO. \_\_\_\_\_  
 JULY 11, 1990  
 FC FEDERAL COM #9  
 1835' FNL, 1875' FEL  
 SECTION 20-T30N-R10W  
 SAN JUAN COUNTY, NEW MEXICO

OFFSET PRODUCTION DETAIL

LOCATION	WELL NAME	OPERATOR	SURFACE SHUT-IN* PRESSURE (psia)	CURRENT** MCFD/BWPD	CUMULATIVE* MMCF
NE/4 S. 7 T30N-R10W	Sullivan #210	Meridian	698	Inactive	N/A
SW/4 S. 7 T30N-R10W	Sunray J #210	Meridian	772	77/0	28
NW/4 S. 9 T30N-R10W	Sunray E #220	Meridian	837	50/0	8
SE/4 S. 9 T30N-R10W	Sunray E #221	Meridian	280	74/0	19
SW/4 S. 10 T30N-R10W	San Juan #200	Meridian	475	56/0	25
NE/4 S. 10 T30N-R10W	Sunray A #205	Meridian	968	3/0	0.2
NE/4 S. 15 T30N-R10W	Sunray A #210	Meridian	560	100/0	41
SW/4 S. 15 T30N-R10W	Sunray B #215	Meridian	410	86/0	15
NE/4 S. 18 T30N-R10W	CNP		N/A		
NE/4 S. 21 T30N-R10W	Sunray D #225	Meridian	744	30/0	23
SW/4 S. 21 T30N-R10W	Sunray D #226	Meridian	593	61/0	4
NE/4 S. 22 T30N-R10W	King #200	Meridian	470	35/0	9
SE/4 S. 27 T30N-R10W	Riddle B #224	Meridian	590	55/36	25
SW/4 S. 28 T30N-R10W	CNP		N/A		
NW/4 S. 24 T30N-R11W	CNP		N/A		

\* Through February 1990 Dwight's Energydata Inc.  
 \*\*Three-month average daily rate when available  
 N/A - Not available  
 CNP - Completed not producing



BEFORE THE  
OIL CONSERVATION DIVISION  
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT

IN THE MATTER OF THE APPLICATION OF  
MESA OPERATING LIMITED PARTNERSHIP  
FOR COMPULSORY POOLING, SAN JUAN  
COUNTY, NEW MEXICO.

CASE NO. \_\_\_\_\_

APPLICATION

MESA OPERATING LIMITED PARTNERSHIP by its undersigned attorneys, Miller, Stratvert, Torgerson & Schlenker, P.A., hereby makes application pursuant to section 70-2-17, N.M.S.A. (1978) for an order pooling all of the mineral interests in the Fruitland formation for development on 320-acre spacing in and under the N/2 of Section 20, Township 30 North, Range 10 West, N.M.P.M., San Juan County, New Mexico, and in support thereof would show the Division:

1. Applicant owns approximately 75% of the working interest in and under the N/2 of Section 20, and Applicant has the right to drill thereon.

2. Applicant proposes to dedicate the above-referenced pooled unit to its Mesa FC Federal Com #9 well to be located at a standard location in the N/2 of said Section 20.

3. Applicant has been unable to obtain voluntary agreement for pooling or farmout from all other interest owners in the N/2 of said Section 20.

4. Said pooling of interests will avoid the drilling of unnecessary wells, will prevent waste and will protect correlative rights.

5. In order to permit the Applicant to obtain its just and fair share of the oil and gas underlying the subject lands, the mineral interests should be pooled, and Applicant should be designated the operator of the well to be drilled.

WHEREFORE, Applicant prays that this application be set for hearing before a duly appointed examiner of the Oil Conservation Division on June 27, 1990, and that after notice and hearing as required by law, the Division enter its order pooling the lands, including provisions for Applicant to recover its costs of drilling, equipping and completing the well, its costs of supervision while drilling and after completion, including overhead charges, and imposing a risk factor for the risk assumed by the Applicant in drilling, completing and equipping the well, and making such other and further provisions as may be proper in the premises.

MILLER, STRATVERT, TORGERSON  
& SCHLENKER, P.A.

By J. Scott Hall  
J. Scott Hall  
Suite 303  
125 Lincoln Avenue  
Santa Fe, New Mexico 87501  
Telephone: (505) 989-9614

ATTORNEYS FOR MESA OPERATING  
LIMITED PARTNERSHIP

jsh\FC.Com#9

MILLER, STRATVERT, TORGERSON & SCHLENKER, P. A.  
LAW OFFICES

RANNE B. MILLER  
WILLIAM K. STRATVERT  
ALAN C. TORGERSON  
KENDALL O. SCHLENKER  
ALICE TOMLINSON LORENZ  
GREGORY W. CHASE  
ALAN KONRAD  
MARGO J. MCCORMICK  
LYMAN G. SANDY  
STEPHEN M. WILLIAMS  
STEPHAN M. VIDMAR  
ROBERT C. GUTIERREZ  
SETH V. BINGHAM  
MICHAEL H. HOSES  
JAMES B. COLLINS  
TIMOTHY R. BRIGGS  
WALTER R. PARR  
THOMAS S. UDALL  
RUDOLPH LUCERO  
DANIEL E. RAMCZYK

DEAN G. CONSTANTINE  
DEBORAH A. SOLOVE  
GARY L. GORDON  
H. KEVIN HAIGHT  
LAWRENCE R. WHITE  
SHARON P. GROSS  
VIRGINIA ANDERMAN  
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BRADFORD K. GOODWIN  
NICHOLAS CULLANDER  
JOHN R. FUNK  
J. SCOTT HALL  
THOMAS R. MACK  
MICHAEL J. HAPPE  
DENISE BARELA SHEPHERD  
MICK I. R. GUTIERREZ

ALBUQUERQUE  
500 MARQUETTE, N. W., SUITE 1100  
POST OFFICE BOX 25687  
ALBUQUERQUE, NM 87125  
TELEPHONE: (505) 842-1950  
FACSIMILE: (505) 243-4408

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277 EAST AMADOR  
POST OFFICE DRAWER 1231  
LAS CRUCES, NM 88004  
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FACSIMILE: (505) 526-2215

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300 WEST ARRINGTON  
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FACSIMILE: (505) 325-5474

SANTA FE  
125 LINCOLN AVE., SUITE 303  
POST OFFICE BOX 1986  
SANTA FE, NM 87504-1986  
TELEPHONE: (505) 989-9614  
FACSIMILE: (505) 989-9857

June 5, 1990

KENNETH R. BRANDT (1946 - 1981)

PLEASE REPLY TO SANTA FE

Amoco Production Company  
P. O. Box 800  
Denver, CO 80201

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

RE: Application of Mesa Operating Limited Partnership for  
Compulsory Pooling, San Juan County, New Mexico:  
(FC Federal Com #9)

Dear Sirs:

This will advise that Mesa Operating Limited Partnership has filed an application with the New Mexico Oil Conservation Division seeking an order for the compulsory pooling of all mineral interests in the Fruitland formation in and under the N/2 Section 20, Township 30 North, Range 10 West, NMPM, San Juan County, New Mexico. (A copy of the application is enclosed.) Mesa Operating Limited Partnership proposes to dedicate the referenced pooled unit to a well to be drilled at a standard location in the NE/4 of said Section 20.

This application will be set for hearing before a Division Examiner on June 27, 1990 at the New Mexico State Land Office Building, 310 Old Santa Fe Trail, Santa Fe, New Mexico. You are not required to attend this hearing, but as an owner of an interest that may be subject to pooling, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging this application at a later date.

Very truly yours,

MILLER, STRATVERT, TORGERSON  
& SCHLENKER, P.A.

By: J. Scott Hall  
J. Scott Hall

cc: Mark Seale,  
Mesa Limited Partnership

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees and following services are available. Consult postmaster for fees and check boxes for additional services requested.

Show to whom delivered, date, and addressee's address. 2.  Restricted Delivery (Extra charge) **5972**

4. Article Number

Type of Service: **182**

Registered  Insured

Certified  COD

Express Mail  Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

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

Signature — Addressee

Signature — Agent

Date of Delivery

Form 3811, Apr. 1989

\*U.S.G.P.O. 1989-234-555

DOMESTIC RETURN RECEIPT

P 5BJ 0BC 10C

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

U.S.G.P.O. 1989-234-555

PS Form 3800, June 1985

Sent to Amoco Production Co	
Street and No. P. O. Box 800	
P. O. State and ZIP Code Denver, CO 80201	
Postage	\$ .75
Certified Fee	.85
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	.50
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 2.00
Postmark or Date	

MILLER, STRATVERT, TORGERSON & SCHLENKER, P. A.  
LAW OFFICES

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WILLIAM K. STRATVERT  
ALAN C. TORGERSON  
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June 5, 1990

KENNETH R. BRANDT (1946 - 1981)

PLEASE REPLY TO SANTA FE

Conoco, Inc.  
P. O. Box 460  
Hobbs, NM 88240

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

RE: Application of Mesa Operating Limited Partnership for  
Compulsory Pooling, San Juan County, New Mexico:  
(FC Federal Com #9)

Dear Sirs:

This will advise that Mesa Operating Limited Partnership has filed an application with the New Mexico Oil Conservation Division seeking an order for the compulsory pooling of all mineral interests in the Fruitland formation in and under the N/2 Section 20, Township 30 North, Range 10 West, NMPM, San Juan County, New Mexico. (A copy of the application is enclosed.) Mesa Operating Limited Partnership proposes to dedicate the referenced pooled unit to a well to be drilled at a standard location in the NE/4 of said Section 20.

This application will be set for hearing before a Division Examiner on June 27, 1990 at the New Mexico State Land Office Building, 310 Old Santa Fe Trail, Santa Fe, New Mexico. You are not required to attend this hearing, but as an owner of an interest that may be subject to pooling, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging this application at a later date.

Very truly yours,

MILLER, STRATVERT, TORGERSON  
& SCHLENKER, P.A.

By: J. Scott Hall

J. Scott Hall

cc: Mark Seale,  
Mesa Limited Partnership

P 551 862 180

RECEIPT FOR CERTIFIED MAIL  
NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Genoco, Inc.

Special Mail Box 460

P.O. State and ZIP Code  
HOBBS, NM 88240

Postage

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt showing  
to whom and Date Delivered

Return Receipt showing to whom,  
Date, and Address of Delivery

FOIAL Postage and Fees

Postmark or Date

5.00  
1.50  
1.50  
1.50  
5.00

PS Form 3800, June 1985

U.S.G.P.O. 1989-234-555

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check boxes for additional services requested.

1.  Show to whom delivered, date, and addressee's address. 2.  Restricted Delivery (Extra charge) 5722

3. Article Addressed to: COLLUCCO, Inc.  
P. O. Box 460  
Hobbs, NM 88240

4. Article Number P 561 862 180  
Type of Service:  Registered  Insured  
 Certified  COD  
 Express Mail  Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee X 8. Addressee's Address (ONLY if requested and fee paid)

6. Signature - Agent X

7. Date of Delivery JUN. 13 1990

PS Form 3811, Apr. 1989 \*U.S.G.P.O. 1989-236-815

DOMESTIC RETURN RECEIPT

MILLER, STRATVERT, TORGERSON & SCHLENKER, P. A.  
LAW OFFICES

RANNE B. MILLER  
WILLIAM K. STRATVERT  
ALAN C. TORGERSON  
KENDALL O. SCHLENKER  
ALICE TOMLINSON LORENZ  
GREGORY W. CHASE  
ALAN KONRAD  
MARGO J. MCCORMICK  
LYMAN G. SANDY  
STEPHEN M. WILLIAMS  
STEPHAN M. VIDMAR  
ROBERT C. GUTIERREZ  
SETH V. BINGHAM  
MICHAEL H. HOSES  
JAMES B. COLLINS  
TIMOTHY R. BRIGGS  
WALTER R. PARR  
THOMAS S. UDALL  
RUDOLPH LUCERO  
DANIEL E. RAMCZYK

DEAN G. CONSTANTINE  
DEBORAH A. SOLOVE  
GARY L. GORDON  
H. KEVIN HAIGHT  
LAWRENCE R. WHITE  
SHARON P. GROSS  
VIRGINIA ANDERMAN  
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JAMES B. COONEY  
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TIMOTHY S. VASQUEZ  
MARTE D. LIGHTSTONE  
BRADFORD K. GOODWIN  
NICHOLAS CULLANDER  
JOHN R. FUNK  
J. SCOTT HALL  
THOMAS R. MACK  
MICHAEL J. HAPPE  
DENISE BARELA SHEPHERD  
MICK I. R. GUTIERREZ

ALBUQUERQUE  
500 MARQUETTE, N. W., SUITE 1100  
POST OFFICE BOX 25687  
ALBUQUERQUE, NM 87125  
TELEPHONE: (505) 842-1950  
FACSIMILE: (505) 243-4408

FARMINGTON  
300 WEST ARRINGTON  
POST OFFICE BOX 869  
FARMINGTON, NM 87499  
TELEPHONE: (505) 326-4521  
FACSIMILE: (505) 325-5474

LAS CRUCES  
277 EAST AMADOR  
POST OFFICE DRAWER 1231  
LAS CRUCES, NM 88004  
TELEPHONE: (505) 523-2481  
FACSIMILE: (505) 526-2215

SANTA FE  
125 LINCOLN AVE., SUITE 303  
POST OFFICE BOX 1986  
SANTA FE, NM 87504-1986  
TELEPHONE: (505) 989-9614  
FACSIMILE: (505) 989-9657

KENNETH R. BRANDT (1946 - 1981)

June 5, 1990

PLEASE REPLY TO SANTA FE

R. K. O'Connell  
P. O. Box 2003  
Casper, Wyoming 82602-2003

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

RE: Application of Mesa Operating Limited Partnership for  
Compulsory Pooling, San Juan County, New Mexico:  
(FC Federal Com #9)

Dear Sirs:

This will advise that Mesa Operating Limited Partnership has filed an application with the New Mexico Oil Conservation Division seeking an order for the compulsory pooling of all mineral interests in the Fruitland formation in and under the N/2 Section 20, Township 30 North, Range 10 West, NMPM, San Juan County, New Mexico. (A copy of the application is enclosed.) Mesa Operating Limited Partnership proposes to dedicate the referenced pooled unit to a well to be drilled at a standard location in the NE/4 of said Section 20.

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Very truly yours,

MILLER, STRATVERT, TORGERSON  
& SCHLENKER, P.A.

By: 

J. Scott Hall

cc: Mark Seale,  
Mesa Limited Partnership

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available: Consult postmaster for fees and check boxes) for additional services requested.

1.  Show to whom delivered, date, and addressee's address. 2.  Restricted Delivery (Extra charge) 5972

3. Article Addressed to: R. K. O'Connell  
P. O. Box 2003  
Casper, Wyoming 82602-2003

4. Article Number P 561 862 137

Type of Service:  Registered  Insured

Certified  COD

Express Mail  Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee R. K. O'Connell

6. Signature of Agent [Signature]

7. Date of Delivery Nov 26/8/90

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

S Form 3811, April 1989 \*U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

F 304 006 151

**RECEIPT FOR CERTIFIED MAIL**

U.S. POSTAL SERVICE  
FIRST CLASS PERMIT NO. 1000 CASPER, WY

Sent to R. K. O'Connell

Special and No P. O. Box 2003

Casper, Wyoming 82602-2003

Postage 1.25

Certified Fee 1.25

Special Delivery Fee

Restricted Delivery Fee

Return Receipt showing to whom and Date Delivered 90

Return Receipt showing to whom Date and Address of Delivery

TOTAL Postage and Fees 2.50

Postmark or Date

MILLER, STRATVERT, TORGERSON & SCHLENKER, P. A.

LAW OFFICES

RANNE B. MILLER  
WILLIAM K. STRATVERT  
ALAN C. TORGERSON  
KENDALL O. SCHLENKER  
ALICE TOMLINSON LORENZ  
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POST OFFICE BOX 1986  
SANTA FE, NM 87504-1986  
TELEPHONE: (505) 989-9614  
FACSIMILE: (505) 989-9857

KENNETH R. BRANDT (1946 - 1981)

June 5, 1990

PLEASE REPLY TO SANTA FE

Conoco, Inc.  
555 17th Street  
Denver, CO 80202

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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(FC Federal Com #9)

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By: J. Scott Hall  
J. Scott Hall

cc: Mark Seale,  
Mesa Limited Partnership

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**Show to whom delivered, date, and addressee's address.** 2.  **Restricted Delivery** (Extra charge) 5722

3. Article Addressed to:

Conoco, Inc.  
555 17th Street  
Denver, CO 80202

4. Article Number

Type of Service: Registered 101  
 Registered  Insured  
 Certified  COD  
 Express Mail  Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee

*Babara Sharp*

6. Signature - Agent

X

7. Date of Delivery

6-7-90

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

PS Form 3811, Apr. 1989

\*U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

P 5L1 8L2 181

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

Conoco, Inc.  
555 17th Street  
Denver, CO 80202

Postage	\$	5722
Certified Fee	\$	5722
Special Delivery Fee	\$	5722
Restricted Delivery Fee	\$	5722
Return Receipt Showing to whom and Date Delivered	\$	5722
Return Receipt Showing to whom Date, and Address of Delivery	\$	5722
TOTAL Postage and Fees	\$	5722
Postmark or Date	\$	5722