



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE June 10, 1985

RE: Proposed MC \_\_\_\_\_  
Proposed DHC X \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated June 9

for the

Carthage Oil Co.

Operator

Lease and Well No.

See attached list

Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

[Signature]

# CAULKINS OIL COMPANY

P. O. BOX 780  
FARMINGTON, NEW MEXICO 87401

June 4, 1987

Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87501

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Gentlemen:

As set forth in rule 303-C of New Mexico Oil Conservation Division Rules and Regulations, we hereby request administrative approval for downhole commingling of following Dual completed Mesa Verde - Dakota wells:

Reuter 321-E  
934 F/S 1022 F/E  
Sec. 15 - 26N - 6W  
Rio Arriba County, N.M.

Breech 854  
980 F/E 1618 F/N  
Sec. 24 - 26N - 7W  
Rio Arriba County, N.M.

Breech "B" 220-M  
2056 F/N 1197 F/W  
Sec. 24 - 26N - 7W  
Rio Arriba County, N.M.

Breech "A" 132-E  
660 F/N 760 F/W  
Sec. 9 - 26N - 6W  
Rio Arriba County, N.M.

Breech "F" 45-M  
990 F/N 990 F/W  
Sec. 35 - 27N - 6W  
Rio Arriba County, N.M.

State "A" 62-M  
1040 F/N 1120 F/W  
Sec. 2 - 26N - 6W  
Rio Arriba County, N.M.

✓ Breech "D" 346-M  
1520 F/S 990 F/E  
Sec. 22 - 26N - 6W  
Rio Arriba County, N.M.

Breech "D" 140-M  
1028 F/W 880 F/N  
Sec. 11 - 26N - 6W  
Rio Arriba County, N.M.

Breech "D" 140  
990 F/N 990 F/E  
Sec. 11 - 26N - 6W  
Rio Arriba County, N.M.

Breech "E" 58-M  
1545 F/E 990 F/S  
Sec. 3 - 26N - 6W  
Rio Arriba County, N.M.

Breech "F" 11-M  
890 F/S 1120 F/E  
Sec. 35 - 27N - 6W  
Rio Arriba County, N.M.

Breech "F" 4-M  
1520 F/S 1070 F/E  
Sec. 33 - 27N - 6W  
Rio Arriba County, N.M.

Breech "B" 123-E  
830 F/N 960 F/W  
Sec. 7 - 26N - 6W  
Rio Arriba County, N.M.

Breech "D" 240-E  
1733 F/N 1795 F/W  
Sec. 15 - 26N - 6W  
Rio Arriba County, N.M.

Breech "C" 244-E  
1520 F/N 1090 F/W  
Sec. 14 - 26N - 6W  
Rio Arriba County, N.M.

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Breech "C" 323-E  
1120 F/S 1020 F/E  
Sec. 14 - 26N - 6W  
Rio Arriba County, N.M.

Breech "E" 64-M  
1555 F/S 1770 F/E  
Sec. 1 - 26N - 6W  
Rio Arriba County, N.M.

Breech "C" 389-E  
864 F/S 1010 F/E  
Sec. 13 - 26N - 6W  
Rio Arriba County, N.M.

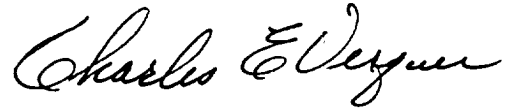
Commingling of the above wells will result in the production of hydrocarbons that would not otherwise be economical to produce, thereby preventing waste.

In support of commingling we offer the following:

- (1) Commingling of wells as approved on Commission Order No. 7980, Dated July 11, 1985 has resulted in better operation of wells.
- (2) These wells are in same area as wells approved on Order # 7980.
- (3) As shown on attached schematic, Packer will be set between zones with reverse flow check valve installed to prevent higher pressure Dakota Zone below from commingling with Mesa Verde Zone.
- (4) Production will be commingled downhole in production tubing only.
- (5) Fluids from both Zones compatible.
- (6) Ownership Common, including working interests and royalty interests.
- (7) Bottomhole pressures taken on wells in this area have shown Mesa Verde pressure to be 70% of Dakota pressure.
- (8) Nine section plat attached, showing all offset acreage ownership, also shows all wells now commingled in Mesa Verde and Dakota Zones.
- (9) Well to be commingled identified by circle, all other commingled wells by arrow and Division Order Number.
- (10) Caulkins Oil Company will consult with Supervisor of Aztec District Office to determine allocation formula for each of the wells as they are commingled.
- (11) All offset operators have been furnished with Copy of this Application. Receipt for Certified Mail attached.

- (12) Copy of Sundry Notice to BLM on Federal wells attached.
- (13) Copy of Sundry Notice to State of New Mexico on State wells attached.

Yours very truly,



Charles E. Verquer, Supt.  
Caulkins Oil Company

Copy:      Caulkins Oil Company, Denver Colorado  
             OCD, Aztec, New Mexico  
             Merridian Oil Inc., Farmington, New Mexico  
             National Co-Op Ref. Assoc., Midland, Texas  
             Union of Calif., Midland, Texas  
             Depco, Inc., Denver, Colorado  
             Ladd Petro, Denver, Colorado  
             Columbus Energy Corp., Midland, Texas  
             Curtis J. Little, Farmington, New Mexico  
             Turner Prod. Co., Dallas, Texas  
             El Paso Natural Gas Company, Farmington, New Mexico  
             Mesa Operator Lmt'd Part., Amarillo, Texas  
             Tenneco Oil Company, Englewood, Colorado  
             Occidental Petroleum, Inc., Bakersville, Calif.

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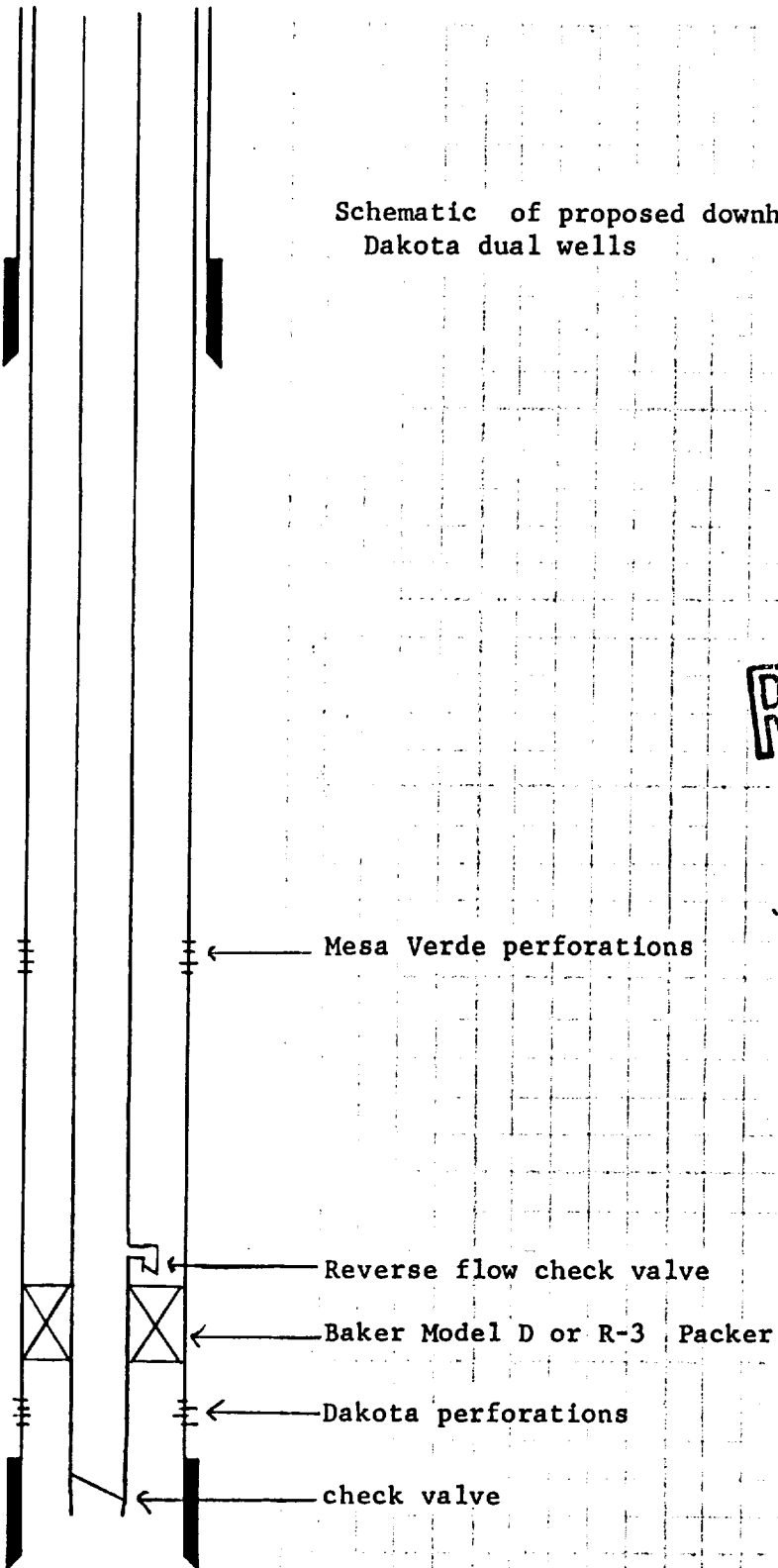
OIL CO  
DIS

Schematic of proposed downhole commingling all Mesa Verde  
Dakota dual wells

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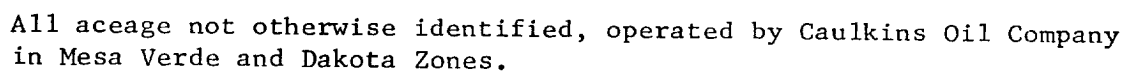
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Offset operators: Unocal - Sec. 1, 6, and 12, 26N, 6W

Mesa - South half Sec. 17, 26N, 6W