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August 18, 1988

Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87504-2088

ATTENTION: Mr. David R. Catanach

Re: Murphy Operating Corporation Proposed

Haley Chaveroo San Andres Unit

Dear David:

Please find enclosed our Application for unit approval and authority to institute a waterflood project relative to the following lands:

Township 7 South, Range 33 East, N.M.P.M.

Section 33: All Section 34: All

Township 8 South, Range 33 East, N.M.P.M.

Section 3: N2, N2SW4, SE4SW4, W2SE4, SE4SE4

Please set this matter for hearing on September 14, 1988. One hundred percent of the proposed unit working interest owners have agreed to voluntary unitization. The unit is comprised entirely of leases from the State of New Mexico, and preliminary approval from the State Land Office is currently pending. All required notices to offset operators and surface owners are being sent via certified mail, return receipt requested, this date.

Case 9478

Oil Conservation Commission August 18, 1988 Page Two

Upon your review of the Application, if you find it deficient in any way or have any questions or comments, please do not hesitate to contact the undersigned.

Respectfully submitted,

HINKLE, COX, EATON, COFFIELD & HENSLEY

T. Calder Ezzell, Jr.

TCE/tw Enclosure



MURPHY OPERATING CORPORATION UNITED BANK PLAZA, SUITE 300 400 NORTH PENNSYLVANIA AVENUE POST OFFICE BOX 2648 ROSWELL, NEW MEXICO 88202-2648

TELEPHONE 505 623-7210

August 19, 1988

VIA FEDERAL EXPRESS

Mr. David R. Catanach, Examiner Oil Conservation Division Energy and Minerals Department State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87504-2088

Re: SUBMITTAL OF DOCUMENTATION IN
CONNECTION WITH "APPLICATION OF
MURPHY OPERATING CORPORATION FOR UNIT
APPROVAL AND FOR AUTHORITY TO INSTITUT

APPROVAL AND FOR AUTHORITY TO INSTITUTE A WATERFLOOD PROJECT" and "SUPPLEMENTAL

DATA REQUIRED BY FORM C-108".

Proposed Haley Chaveroo San Andres Unit Chaves and Roosevelt Counties, New Mexico.

Case 9478

Dear Mr. Catanach:

Murphy Operating Corporation ("MOC"), as designated Unit Operator for the proposed Haley Chaveroo San Andres Unit and on behalf of working interest owners within the proposed Unit Area, respectfully submits the information listed below relating to the subject Unit in connection with the requested hearing date of Wednesday, September 14, 1988 for approval of the "Application of Murphy Operating Corporation for Unit Approval and for Authority to Institute a Waterflood Project" and "Supplemental Data Required by Form C-108".

Pursuant to the rules and regulations of the Oil Conservation Division, MOC encloses herewith three (3) originals sets of the following information:

FILE 1. APPLICATION FOR UNIT APPROVAL.

Exhibit A. - Map of Unit Area.

Exhibit B. - Schedule of Ownership and Leases.

Exhibit C. - Unit Agreement.

Exhibit D. - Unit Operating Agreement.

Exhibit E. - Area of Review Map.

FILE 2. SUPPLEMENTAL DATA REQUIRED BY OCD FORM C-108 (Engineering and Geological Data).

Exhibit III. - Well data, in both tabular and schematic form, for each well proposed for injection.

 $\underline{\text{Exhibit VI.A.}}$ — Tabulation of data for all wells of public record $\underline{\text{within}}$ the proposed Unit Area.

<u>Exhibit VI.C.</u> - Schematics (illustrating all plugging detail) of any plugged and abandoned well within one mile of Unit Area.

 Exhibit VIII. through Exhibit VIII.I. SEE FILE 3.

- Geological data related to the injection zone including appropriate lithological detail, geological name, thickness and depth.

Exhibit X. injection wells.

- Appropriate logging and test data for the proposed

Exhibit XI. - Letter dtd. 08/15/88 from Frank Bradley, Supervis Portales Water Basin, Office of the State Engineer, confiming record search of fresh water sources within one mile of any proposed injector. - Letter dtd. 08/15/88 from Frank Bradley, Supervisor,

Exhibit XIII. - Proof that copies of the application have been furnished by certified mail to: a) the owner of the surface of the land on which the proposed injection wells are to be located; and b) to the leasehold operators within one-half mile of the proposed injection wells.

FILE 3. ENGINEERING AND GEOLOGICAL REPORT.

- Engineering and Geological Report - Proposed Haley Exhibit VIII. Chaveroo San Andres Unit, prepared by Bert H. Murphy, Registered Professional Petroleum Engineer, dated August 1, 1988.

> Exhibit VIII.A. - General Location Map;

Exhibit VIII.B. - Report dated November, 1966 prepared by Roswell Geological Society Symposium with attached structural and isopachus maps and type log;

Exhibit VIII.C. - Core Data - "Completion Coregraph" for State "AZ" Well #2 located within Unit Area; "Completion Coregraph" and "Core-Gamma Correlation" for State "CVB" Well #1 located in near proximity of Unit in Section 31, T-7-S, R-33-E;

Exhibit VIII.D. - Tabulated Summary of Geological Data;

Exhibit VIII.E. - Structure Map with proposed Unit Area delineated;

Exhibit VIII.F. - Isopachus Map with proposed Unit Area delineated;

Exhibit VIII.G.1. - East-West Stratigraphic Cross-Section

Exhibit VIII G.2. - North-South Stratigraphic Cross-Section.

Exhibit VIII.H. - Chart, Derivation of Tract Participation Factors.

Exhibit VIII.I. - Decline Curves for Wells within Area of Review.

FILE 4. PLAN OF OPERATION 1988-1989 with attached Exhibit 1., "Field Map Indicating Proposed Unit Facilities".

We greatly appreciate your prompt and courteous replies to our numerous questions in connection with this Application. Please contact me for any additional information that may be required by your office.

Sincerely,

MURPHY OPERATING CORPORATION

An Murphy Ezzell

Ann Murphy Ezzell, Esq. Chairman and Chief Executive Officer

AME:fnr

Enclosures: as stated.