New Mexico Oil Conservation Commission Commissioner of rublic Lands Santa Po, New Mexico

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Proposed South Mescalero Unit Section 34, Twp. 10 South, Rge. 32 East, Lea Jounty, New Mexico

Introduction:

Monsanto Chemical Company is the owner of a State Lease consisting of 320 acres, situated in the above captioned proposed Unit area. It is desired by Monsanto to form a State Approved Unit as outlined in Exhibit A, consisting of 480 acres and described as being the Way, SEN Section 34, Township 10 South, Range 32 Erst, Lea County, New Mexico. RECIONAL GROUNTY:

The area is situated on the north central portion of the Northwestern Shelf Area of New Hexico, which is bounded on the north by the Matador Arch and on the south by the Maljamar-Vacuum Splift. The Shelf Area, gently rising to the west, terminates into the Sacremento Uplift which acts as its western boundary. Ins North Easin Clatform of Taxas borders the area to the east.

Regional dip as reflacted by shallow Yetes structure is to the enst-southoust at an average of 75 feet to the mile. The rate of cip increases to 300 feet to the mile is a southeasterly direction as revealed by deeper Masissippian structure.

to tests have ponetrated Fre-Devonian beds in the general area. Ine t formess of fost-beventen seas range from 7,000 fort to 13,500 feet and counist to the mejority of formism, lanuayiyanish and wevenian kya addinartu. Turke-rennayiyanian and levenien beds produce in the general locals from a series of norto-south tranding atrustural afone referred to as the Sancalero-Conversion (excleyed) intower trends. Thence refer to Exhibit A watch as we the Lonition of the proposed duit in relationably to the Isramablonae promising Places.

LAW OFFICES HERVEY, DOW & HINKLE FIRST NATIONAL BANK BUILDING Roswell, New Mexico TELEPHONE MAN 2 6510 February 10, 1956

New Mexico Oil Conservation Commission Santa Fe, New Mexico

We hand you herewith in triplicate application of the Monsanto Chemical Company, Lion Division, Roswell, for approval of the proposed South Mescalero Unit Agreement, Lea County, New Mexico. We also enclose three copies of the proposed form of unit agreement.

Application has heretofore been made for approval of the unit by the Commissioner of Public Lands. All of the lands involved are state lands which are embraced in two separate state leases, one of which is owned by the Monsanto Chemical Company and the other by the Vickers Petroleum Company. We are advised by the land office that they have no objections to the formation of the unit. We would like for you to give your usual notice of hearing so that it can be set down as quickly as possible, as the Monsanto is ready to commence drilling operations on a deep Devonian test as soon as the unit agreement has been approved. We would like to have it set down before an examiner and have no objections to having the hearing at Hobbs. Please advise us as soon as possible the date set for the hearing.

Yours very truly,

LOCAL DEDLOGY:

Subsurface control is sparse in the area of interest and local structure is entirely dependent upon geophysical interpretation. At considerable expense, Monsanto undertook a scismic survey of the area which was completed in 1955. Hesulta revealed a closed structure with a minimum of 200 feet closure in all directions. Please refer to the attached map indicated as Exhibit 3.

The Mescalero Field, one-half mile north, and the Moore Field, two and one-half miles south, produce from both the Fermo-Pennsylvanian and Devonian. Production may be expected under conditions similar to that of the forementioned fields and from equivalent geological units. The Devonian is the primary objective and should be encountered at approximately 10,000 feet. However, an 11,000 foot Devonian test is contemplated, contingent upon the approval of the proposed subject Unit.

Development in subject area tends to be retarded due to the wide diversity of ownership. This, plus the fact that the individual tracts are small, results in a situation where no single operator owns sufficient acreage that would justify the expenditure of drilling a Devonian test. In the event development should be undertaken by the individual lessens, it would not be done in an orderly and scientific a manner as would be desired. The proposed South Mescalero Unit, as outlined in Exalpit B, is apparently a single anticlinal structure. To to therefore requested that this proposed Unit be approved in order to uring portions of this civersified ownership together so that covelopment may be carried out in an orderly manner and in the best interests of conservation.

inapactfully autofithe, Killy & Clift Billy B. Clifton Dinorial Gaolo det Monwell, How bexier, District STATE OF NEW MEXICO

DORE THE OIL CONSERVATION COMMISSION

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IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING: THE APPLICATION OF NUNSANTO CHEMICAL

COMPANY FOR APPROVAL OF THE SOUTH MESCALERO UNIT AGREEMENT EMBRACING 480 ACRES, MORE OR LESS, LEA COUNTY, NEW MEXICO, WITHIN TWP. 10 S., RGE. 32 E., N.M.P.M.

New Mexico Oil Conservation Commission Santa Fe, New Mexico

Comes the undersigned, the Monsanto Chemical Company, a corporation with offices at El Dorado, Arkansas, and files herewith three corres of the proposed Unit Agreement for the Development and Operation of the South Mescalero Unit Area, Lea County, New Mexico, and hereby makes application for the approval of said Unit Agreement as provided by law, and in support thereof, shows:

1. That the proposed unit area covered by said agreement embraces 480 acres, more or less, more particularly described as follows:

NEW MEXICO PRINCIPAL MERIDIAN, NEW MEXICO T. 10 S., R. 32 E.

Sec. 34: Wa, SEL

Conservation Commission statutes.

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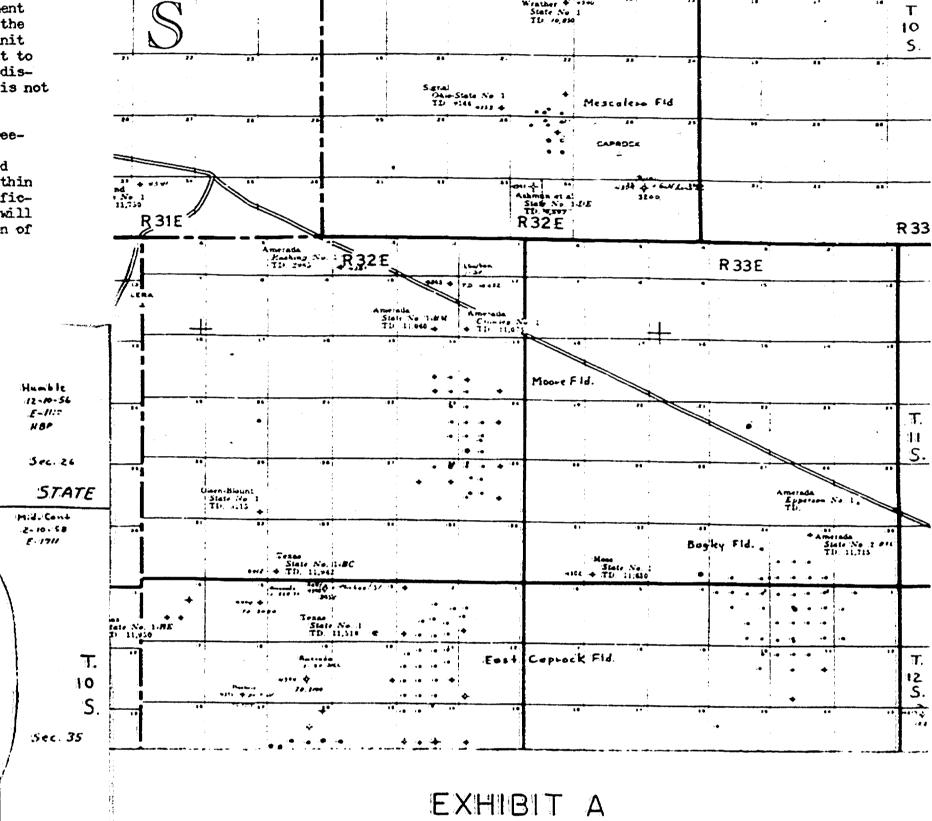
2. That the lands embraced within the proposed unit area are all State lands. 3. That applicant is informed and believes, and upon such information and belief, states: That the proposed unit area covers substantially all of the geological feature involved, and in the event of the discover; of ci or gas thereon, that said unit agreement will permit the producing area to be developed and operated in

the interest of conservation and the prevention of waste of the unitized substances.

4. That the Monsanto Chemical Company is designated as unit operator in said unit agreement, and as such is given authority under the terms thereof to carry on all operations necessary for the development and operation of the unit area for oil and gas, subject to all applicable laws and regulations. That said unit agreement provides for the commencement of a test well for oil and gas upon some part of the lards embraced in the unit area within 90 days from the effective date of the unit agreement and for the drilling thereof with due diligence, to a depth sufficient to test the Devonian formation or to such a depth as unitized substances shall be discovered in paying quantities if at a lesser depth; provided, however, operator is not

required in any event to drill said well to a depth in excess of 11,000 feet. 5. That said unit agreement is in substantially the same form as unit agreements heretofore approved by the Commissioner of Public Lands of the State of New Mexico and by the New Mexico Oil Conservation Commission, and it is believed that in the event oil or gas in paying quantities is discovered on the lands within the unit area, that the field or area can be developed more economically and efficiently under the terms of said agreement, to the end that the maximum recovery will be obtained, and that said unit agreement is in the interest of the conservation of oil and gas and the prevention of waste as contemplated by the New Mexico Oil

Sec. 27



LEA CO.

-H-19134 MAP (PROPOSED SOUTH MESCALERO UNIT _____ SEC. 34, T.10'S. R.32'E. LEA CO., N.MEX. R.32 €. INDEX MAP STATE :Magnolia 3-10-58 E-1744 Continental 4.20.58 1.6107/

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LION OIL CO - A DIV OF MONSANTO CHEM. CO. ROSWELL DIST. FEB 1956

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EXHIBIT B

Henry Compley

R 32 E.

PROPOSED SOUTH MESCALERO UNIT SEC 34, T 105, R 32E LEA CO, N MEX

SEISMIC STRUCTURE MAP

HORIZON - MISSISSEPPIAN SI - 200° SCALE - 100° - UNIT Guttgeme THE TRACT OF A DIV OF THE TOTAL CO.

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