

Entered October 24, 1955
W.B.M.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 278
Order No. R-111-A

THE APPLICATION OF THE OIL
CONSERVATION COMMISSION UPON
ITS OWN MOTION FOR AN ORDER
REVISING ORDER R-111 ISSUED IN
CASE 278, PERTAINING TO THE
POT ASH-OIL AREAS OF EDDY AND
LEA COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a. m. on July 14, 1955, August 17, 1955 and September 15, 1955, at Santa Fe, New Mexico, before the Oil Conservation Commission, hereinafter referred to as the "Commission".

NOW, on this 13th day of October, 1955, the Commission, a quorum being present, having considered the records and testimony adduced, and being fully advised in the **premises**;

FINDS:

(1) That due notice of the time and place of hearing and the **purpose** thereof having been given as required by law, the Commission **has** jurisdiction of this case and the subject matter thereof.

(2) That the delineation of an area including and containing potential oil and gas reserves, within which are commercial potash **deposits**, and the promulgation of rules and regulations for the orderly development of oil and gas resources in such an area known to be productive of potash is within the authority of the Commission for the protection of correlative rights, the promotion of **conservation**, and the prevention of waste.

IT IS THEREFORE ORDERED:

That this order shall be known as The Rules and Regulations Governing the Exploration of Oil and Gas in Certain **Areas** Herein Defined, which are Known to Contain Potash **Reserves**.

I.

OBJECTIVE

The objective of these Rules and Regulations is to prevent waste, protect correlative rights, assure maximum conservation of the oil, gas and potash resources of New **Mexico**, and permit the economic recovery of oil, gas and **potash** minerals in the area hereinafter defined.

II.

THE POTASH-OIL AREA

(1) The Potash-Oil Area, as outlined in Exhibit A attached hereto and made a part hereof, represents the area in various parts of which potash mining operations are now in progress, or in which core tests indicate commercial potash reserves.

(2) The **Potash-Oil** Area, as outlined herein, may be revised by the Commission after due notice and hearing.

III.

DRILLING IN THE POTASH AREA

(1) All drilling of oil and gas wells in the **Potash** Area shall be subject to these Rules and Regulations.

(2) No wells will be drilled for oil or gas at a location which, in the opinion of the Commission or its duly authorized representative, would result in undue **waste** of potash deposits or constitute a hazard to or interfere unduly with **potash deposits**.

No mining operations will be conducted in the Potash Area that would, in the opinion of the Commission or its duly authorized **representative**, constitute a hazard to oil or gas production, or that would unreasonably interfere with the orderly development and production from any oil or gas pool.

(3) Upon discovery of oil or gas in the Potash Area, the Oil Conservation Commission **shall** promulgate pool rules for the affected area after due notice and hearing.

IV.

DRILLING AND CASING PROGRAM

(1) For the purpose of the regulations and the drilling of oil and **gas** exploratory test wells, shallow and deep zones are defined, as follows:

(a) The shallow zone shall include all formations above the base of the Delaware sand or above a depth of 5,000 feet, whichever is the **lesser**.

(b) The deep zone shall include all formations below the base of the Delaware sand or below a depth of **5,000** feet, whichever is the lesser.

(2) Surface Casing String:

(a) A surface casing string of new or used oil field casing in good condition shall be set in the "Red Bed" section of the basal Rustler formation immediately above the salt section, or in the anhydrite at the **top** of the salt section, as determined necessary by the regulatory representative approving the drilling operations, and shall be cemented with not less than one hundred and fifty percent (**150**) percent of calculated volume necessary to **circulate** cement to the ground surface.

(b) Cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (**24**) hours before drilling the plug or initiating tests.

(c) Casing and water-shut-off tests shall be made both before and after drilling the plug and below the **casing** seat as follows:

(i) If rotary tools are used, the mud shall be displaced with water and a hydraulic pressure of six hundred (600) pounds per square inch shall be applied. If a drop of one hundred (100) pounds per square inch or more should occur within thirty (30) minutes, corrective measures shall be applied.

(ii) If cable tools are used, the mud shall be bailed from the hole, and if the hole does not remain dry for a period of one hour, corrective measures shall be applied.

(d) The above requirements for the surface casing **string** shall be applicable to both the shallow and deep **zones**.

(3) Salt Protection String:

(a) A salt protection string of new or used oil field casing in good condition shall be set not less than one hundred (100) feet nor more than six hundred (600) feet below the base of the **salt** action; provided that such string shall not be set below the top of the highest known oil or gas zone.

(b) The salt protection string shall be cemented, as follows:

(i) For wells drilled to the shallow zone, the string may be cemented with a nominal volume of cement for testing **purposes** only. If the exploratory test well is completed as a productive well, the string shall be re-cemented with sufficient cement to fill the annular space back of the pipe from the top of the first cementing to the surface or to the bottom of the cellar, or may be cut and pulled if the production string is cemented to the surface as provided in **sub-section IV (5), (i) below**.

(ii) For wells drilled to the deep zone, the string must be cemented with sufficient cement to fill the annular space back of the pipe from the casing seat to the surface or to the **bottom** of the cellar; however, where the base of the Delaware Mountain Group is definable the casing rules in (IV) (3b) (i) shall apply even if the depth of the bottom of the Delaware Mountain Group is greater than 5000 feet. For the **purpose** of identification, the base of the Delaware Mountain Group is hereby identified as the equivalent of the base of **such** formation as found at a depth of 7485 feet in the Richardson and Bass No. 1 Rodke well in Section 27, Township 20 South, Range 31 East, **NMPM**, Lea County, New Mexico, immediately overlying the Bone Springs formation.

(c) If the cement fails to reach the surface or the bottom of the cellar, where required, the top of the cement shall be located by a temperature or gamma ray survey and additional cementing shall be done until the cement is brought to the point required.

(d) The fluid used to mix with the cement shall be saturated with the salts common to the zones penetrated and with suitable proportions but not less than 1% of calcium chloride by weight of cement.

(e) Cement shall be allowed to **stand** a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating **tests**.

(f) Casing tests shall be made both before and after drilling the plug and below the casing seat, as **follows**:

(i) If rotary tools are **used**, the mud shall be displaced with water and a hydraulic pressure of one thousand (1000) pounds per square inch shall be applied. If a drop of one hundred (100) pounds per square inch or more should occur within thirty (30) minutes, corrective measures **shall** be applied.

(ii) If cable tools are used, the mud shall be bailed from the hole and if the hole does not remain dry for a period of one hour, corrective measures shall be applied.

(g) The Commission, or its duly authorized representative, may require the use of centralizers on the salt protection string when in their judgement the **use** of such centralizers would offer further protection to the salt **section**.

(h) The above requirements for the **salt** protection string shall be applicable to both the shallow and deep zones except for sub-section IV (3), (b), (i) and (ii) above.

(4) Intermediate String:

(a) In the drilling of oil and gas exploratory test wells to the deep zone, the operator shall have the option of running an intermediate string of pipe, unless the Commission requires an intermediate string.

(b) Cementing **procedures** and casing tests for the intermediate string shall be the same as provided under sub-sections IV (3), (c), (e) and (f) for the salt protection string.

(5) Production String:

(a) A production string shall be set on top or through the oil or gas pay zone and shall be cemented as follows:

(i) For wells drilled to the shallow zone the production string shall be cemented to the surface if the salt protection string was cemented only with a nominal volume for testing purposes, in which case the salt protection string can be cut and pulled

before the production string is cemented; provided, that if the salt protection string was cemented to the surface, the production string shall be cemented with a volume adequate to protect the pay zone and the casing above such zone.

- (ii) For wells drilled to the deep zone, the production string shall be cemented with a volume adequate to protect the pay zone and the casing above such zone; provided, that if no intermediate string shall have been run and cemented to the surface, the production string shall be cemented to the surface.

(b) Cementing procedures and casing tests for the production string shall be the same as provided under sub-section IV (3), (c), (e) and (f) for the salt protection string; however if high pressure oil or gas production is discovered in any area, the Commission shall promulgate the **necessary** rules to prevent the charging of the salt section.

V.

DRILLING FLUID FOR SALT SECTION

The fluid used while drilling the salt **section** shall consist of water, to which has been added sufficient salts of a character common to the zone penetrated to completely saturate the mixture. Other admixtures may be added to the fluid by the operator in overcoming any specific problem. **This** requirement is specifically intended to prevent enlarged drill **holes**.

VI.

PLUGGING AND ABANDONMENT OF WELLS

(1) All wells heretofore and hereafter drilled within the Potash Area shall be plugged in a manner and in accordance with field rules established by the Commission that will provide a solid cement plug through the salt section and any water bearing horizon and prevent liquids or gases from entering the hole above or below the salt section.

(2) The fluid used to mix the cement shall be saturated with the salts common to the salt section penetrated and with suitable proportions but not more than three **(3)** percent of calcium chloride by weight of cement being **considered** the **desired** mixture whenever possible.

VII.

LOCATION FOR WELLS

Before commencing drilling operations for oil ~~or~~ gas on any lands within the Potash Area, the well operator shall prepare a map or plat showing the location of the proposed well, said map or plat to accompany each copy of the Notice of Intention to Drill. In addition to the number of copies required by the Commission, the well operator shall send one copy by registered mail to all potash **operators** holding potash leases within a radius of one mile of the proposed well, as reflected by the plats submitted under paragraph IX (2).

The well operator shall furnish proof of the fact that said potash operators were notified by registered mail of his intent by attaching return **receipts** to the copies of the Notice of Intention to Drill and plats furnished the **Commission**.

The Commission, or its authorized **representative**, may approve such Notice of **Intention** to Drill if no objection to the location of the proposed well is made by a **potash** operator within ten days after receipt. If the location of the proposed well is objected to by the potash operator, the matter shall be referred to the Secretary-Director of the Commission for arbitration. If a satisfactory settlement cannot be reached, the Secretary-Director of the Commission shall refer the matter to a hearing before the **Commission** after due notice and a **decision** either approving or denying the **operator's** plans to drill shall be entered by the Commission.

VIII.

INSPECTION OF DRILLING AND MINING OPERATIONS

A representative of the potash operator may be present during drilling, cementing, casing, and plugging of all oil or gas wells within a radius of one mile of the well location to observe **conformance** with these regulations. Likewise, a representative of the oil and gas lessee may inspect mine workings on his lease to **observe** conformance with these **regulations**.

IX.

FILING OF WELL **SURVEYS**, MINE SURVEYS
AND POTASH DEVELOPMENT PLANS

(1) Directional Surveys:

The **Commission** may require an operator to file a certified directional survey from the surface to a point below the lowest known potash bearing horizon on all wells drilled within the Potash Area. These surveys may be required where, in the Commission's judgment, the exact location of the well-bore **must** be determined in order to aid mining operations.

(2) Mine Surveys:

Within 30 days after the adoption of this order, and thereafter on or before January **31st** of each year, each **potash** operator shall furnish two copies of a plat of a survey of the location of his **leaseholdings** and all of his open mine workings, which plat shall be available for public inspection.

(3) Potash Development Plan

Within 30 days after the adoption of this order and thereafter on or before January 31st of each year, each potash operator shall furnish two copies of a projection of development plans in the form of a **plat**, which plat shall be for the confidential use of the Commission and for inspection by any affected oil or gas operator. The projection shall cover not less than 3 nor more than a 5 year development program.

X.

APPLICABILITY OF STATEWIDE RULES AND REGULATIONS

All general statewide rules and regulations of the Oil Conservation **Commission** governing the development, operation, and production of oil and **gas** in the State of New Mexico not **inconsistent** or in conflict herewith, are hereby adopted and made applicable to the areas described herein.

EXHIBIT "A"

POTASH-OIL AREA:

TOWNSHIP 18 SOUTH, RANGE 30 EAST

Section 13: SW/4
Section 14: S/2, NW/4, W/2 NE/4
Section 15: SE/4
Section 22: E/2, E/2 W/2
Section 23: All
Section 24: NW/4
Section 26: N/2
Section 27: N/2 NE/4

TOWNSHIP 19 SOUTH, RANGE 29 EAST

Section 11: SE/4
Section 12: S/2, S/2 NE/4
Section 13: N/2, N/2 S/2, S/2 SW/4
Section 14: E/2, E/2 W/2
Section 23: N/2 NE/4

TOWNSHIP 19 SOUTH, RANGE 30 EAST

Section 3: S/2
Section 4: S/2, NW/4, SW/4 NE/4
Section 5: E/2, E/2 W/2, SW/4 SW/4
Section 7: S/2, S/2 N/2, N/2 NE/4
Section 8: All
Section 9: All
Section 10: All
Section 11: SW/4, W/2 SE/4
Section 14: W/2, W/2 SE/4
Section 15: All
Section 16: All
Section 17: All
Section 18: E/2, NW/4
Section 19: NE/4
Section 20: N/2, SE/4 SE/4
Section 21: All
Section 22: All
Section 23: W/2
Section 26: W/2, SE/4
Section 27: All
Section 28: All
Section 29: E/2
Section 32: SE/4, NE/4 NE/4
Section 33: All
Section 34: All
Section 35: All
Section 36: SW/4, S/2 NW/4, S/2 SE/4

TOWNSHIP 19 SOUTH, RANGE 31 EAST

Section 36: SE/4

EXHIBIT "A" (continued)

TOWNSHIP 19 SOUTH, RANGE 32 EAST

Section 31: W/2 SW/4
Section 33: SE/4, E/2 SW/4
Section 34: S/2
Section 35: S/2
Section 36: SW/4, SE/4 SE/4

TOWNSHIP 19 SOUTH, RANGE 33 EAST

Section 22: SE/4 **SE/4**
Section 23: SW/4
Section 25: SW/4
Section 26: All
Section 27: E/2
Section 31: S/2
Section 32: SW/4
Section 34: NE/4 NE/4
Section 35: All
Section 36: S/2, NW/4, W/2 NE/4

TOWNSHIP 19 SOUTH, RANGE 34 EAST

Section 31: SW/4 SW/4

TOWNSHIP 20 SOUTH, RANGE 29 EAST

Section 13: SW/4 SW/4
Section 14: SE/4 SE/4
Section 22: SE/4, S/2 NE/4
Section 23: S/2, NE/4
Section 24: W/2, W/2 SE/4
Section 25: N/2, N/2 S/2
Section 26: All
Section 27: E/2
Section 34: NE/4, N/2 SE/4
Section 35: NW/4

TOWNSHIP 20 SOUTH, RANGE 30 EAST

Section 1: All
Section 2: All
Section 3: All
Section 4: All
Section 5: **S/2, NE/4**
Section 6: S/2, S/2 NE/4
Section 7: NW/4, E/2
Section 8: All
Section 9: All
Section 10: All
Section 11: All
Section 12: All
Section 13: All
Section 14: All
Section 15: All
Section 16: All
Section 17: All
Section 18: E/2
Section 19: E/2

EXHIBIT "A" (continued)

TOWNSHIP 20 SOUTH, RANGE 30 EAST (continued)

Section 20: All
Section 21: All
Section 22: All
Section 23: All
Section 24: All
Section 25: All
Section 26: All
Section 27: All
Section 28: All
Section 29: All
Section 30: All
Section 31: E/2
Section 32: All
Section 33: All
Section 34: All
Section 35: All
Section 36: All

TOWNSHIP 20 SOUTH, RANGE 31 EAST

Section 1: E/2, E/2 W/2
Section 6: SW/4, S/2 NW/4, W/2 SE/4
Section 7: W/2, SE/4, W/2 NE/4
Section 8: S/2, S/2 N/2
Section 9: SW/4, S/2 NW/4
Section 11: SE/4, E/2 SW/4
Section 12: All
Section 13: All
Section 14: E/2, SW/4, E/2 NW/4
Section 16: W/2
Section 17: All
Section 18: All
Section 19: All
Section 20: All
Section 21: NW/4, S/2
Section 22: S/2, S/2 NE/4
Section 23: All
Section 24: All
Section 25: All
Section 26: All
Section 27: All
Section 28: All
Section 29: All
Section 30: All
Section 31: All
Section 32: All
Section 33: All
Section 34: All
Section 35: All
Section 36: All

TOWNSHIP 20 SOUTH, RANGE 32 EAST

Section 1: All
Section 2: All
Section 3: All
Section 4: E/2, SW/4, E/2 NW/4

EXHIBIT "A" (continued)

TOWNSHIP 20 SOUTH, RANGE 32 EAST. (Continued)

Section 5: S/2 SE/4
Section 6: W/2, SW/4 SE/4
Section 7: All
Section 8: All
Section 9: All
Section 10: All
Section 11: All
Section 12: All
Section 13: All
Section 14: All
Section 15: All
Section 16: All
Section 17: All
Section 18: All
Section 19: All
Section 20: All
Section 21: All
Section 22: All
Section 23: All
Section 24: All
Section 25: All
Section 26: All
Section 27: All
Section 28: All
Section 29: All
Section 30: All
Section 31: All
Section 32: All
Section 33: All
Section 34: All
Section 35: All
Section 36: All

TOWNSHIP 20 SOUTH, RANGE 33 EAST

Section 1: All
Section 2: E/2, E/2 W/2
Section 5: W/2
Section 6: All
Section 7: All
Section 8: W/2, SW/4 NE/4, SE/4
Section 9: S/2 S/2, NW/4 SW/4
Section 10: S/2
Section 11: E/2, E/2 NW/4, SW/4
Section 12: All
Section 13: All
Section 14: All
Section 15: All
Section 16: All
Section 17: All
Section 18: All
Section 19: All
Section 20: All
Section 21: W/2 SW/4, NW/4, N/2 NE/4
Section 22: N/2 N/2

EXHIBIT "A" (continued)

TOWNSHIP 20 SOUTH, RANGE 33 EAST (continued)

Section 23: N/2 N/2, SE/4 NE/4
Section 24: N/2, N/2 SE/4, SE/4 SE/4
Section 29: W/2, NE/4, N/2 SE/4, SW/4 SE/4
Section 30: All
Section 31: N/2, W/2 SW/4

TOWNSHIP 20 SOUTH, RANGE 34 EAST

Section 6: W/2, W/2 SE/4
Section 7: All
Section 8: SW/4
Section 16: SW/4, SW/4 NW/4, SW/4 SE/4
Section 17: All
Section 18: All
Section 19: All
Section 20: All
Section 21: All
Section 22: SW/4
Section 27: W/2
Section 28: All
Section 29: N/2, SE/4, NE/4 SW/4
Section 30: NE/4 NW/4, N/2 NE/4, SE/4 NE/4
Section 32: N/2 NE/4, SE/4 NE/4
Section 33: N/2, SE/4, N/2 SW/4, SE/4 SW/4
Section 34: W/2

TOWNSHIP 21 SOUTH, RANGE 29 EAST

Section 1: All
Section 2: Lots 1- 16, incl., SE/4, NE/4 SW/4
Section 3: Lots 1- 9, incl.
Section 4: Lots 1- 8, incl., Lots 10 and 11
Section 11: E/2, E/2 SW/4
Section 12: All
Section 13: All
Section 14: E/2, E/2 W/2, SW/4 NW/4, NW/4 SW/4
Section 15: SE/4 NE/4, NE/4 SE/4
Section 23: N/2 NE/4
Section 24: NE/4, NE/4 SE/4, N/2 NW/4, SE/4 NW/4
Section 35: S/2 NE/4, SE/4, E/2 SW/4
Section 36: S/2 SW/4, SE/4, S/2 NE/4, NE/4 NE/4

TOWNSHIP 21 SOUTH, RANGE 30 EAST

Section 1: All
Section 2: All
Section 3: All
Section 4: All
Section 5: All
Section 6: All
Section 7: All
Section 8: All
Section 9: N/2, SW/4
Section 10: N/2, SE/4, N/2 SW/4, SE/4 SW/4
Section 11: All
Section 12: All
Section 13: All
Section 14: All
Section 15: NE/4, NE/4 NW/4, N/2 SE/4, SE/4 SE/4

EXHIBIT "A" (continued)

TOWNSHIP 21 SOUTH, RANGE 30 EAST (continued)

Section 16: NW/4 NW/4
Section 17: All
Section 18: All
Section 19: All
Section 20: NW/4, N/2 NE/4
Section 22: E/2 E/2
Section 23: All
Section 24: All
Section 25: N/2, SE/4, N/2 SW/4, SE/4 SW/4
Section 26: N/2, N/2 S/2
Section 27: NE/4, N/2 SE/4, SE/4 SE/4
Section 29: NW/4, N/2 SW/4
Section 30: E/2, E/2 W/2
Section 31: All
Section 32: S/2, NW/4, NW/4 NE/4, S/2 NE/4
Section 36: E/2

TOWNSHIP 21 SOUTH, RANGE 31 EAST

Section 1: All
Section 2: All
Section 3: All
Section 4: All
Section 5: All
Section 6: All
Section 7: All
Section 8: All
Section 9: All
Section 10: W/2
Section 12: N/2, SE/4, N/2 SW/4, SE/4 SW/4
Section 13: N/2NE/4
Section 15: W/2
Section 16: E/2, NW/4, E/2SW/4
Section 18: NW/4, W/2NE/4, NE/4NE/4, W/2SW/4
NE/4 SW/4
Section 21: E/2, NE/4 NW/4
Section 22: W/2
Section 27: W/2, SW/4 NE/4, W/2 SE/4
Section 28: E/2
Section 30: SW/4, W/2NW/4, SE/4NW/4
Section 31: W/2
Section 33: NE/4 NE/4
Section 34: NW/4, NW/4 NE/4

TOWNSHIP 21 SOUTH, RANGE 32 EAST

Section 6: Lots 1-7 incl., Lots 10-15, incl., SW/4
Section 7: W/2
Section 22: E/2
Section 23: All
Section 24: All

TOWNSHIP 21 SOUTH, RANGE 33 EAST

Section 3: Lots 1, 2, 3
Section 17: S/2 S/2
Section 18: SE/4 SE/4
Section 19: All
Section 20: All

EXHIBIT "A" (continued)

TOWNSHIP 21 SOUTH, RANGE 33 EAST (continued)

Section 21: W/2, SE/4, S/2 NE/4
Section 22: S/2, S/2 N/2
Section 23: S/2, S/2 N/2, NE/4 NE/4
Section 24: All
Section 25: NW/4, N/2 NE/4, SW/4 NE/4, N/2 SW/4
Section 26: W/2, NE/4, N/2 SE/4, SW/4 SE/4
Section 27: All
Section 28: All
Section 29: N/2, SE/4, NE/4 SW/4
Section 30: N/2 NE/4, SE/4 NE/4
Section 33: N/2 N/2
Section 34: N/2 N/2

TOWNSHIP 21 SOUTH, RANGE 34 EAST

Section 19: W/2

TOWNSHIP 22 SOUTH, RANGE 29 EAST

Section 1: All
Section 2: E/2, E/2 NW/4, SW/4
Section 3: S/2 SE/4, NE/4 SE/4
Section 10: E/2, E/2 W/2, SW/4 SW/4
Section 11: All
Section 12: All
Section 13: All
Section 14: All
Section 15: All
Section 16: SE/4, SE/4 NE/4, SE/4 SW/4
Section 20: E/2 E/2
Section 21: All
Section 22: All
Section 23: All
Section 24: All
Section 25: All
Section 26: All
Section 27: All
Section 28: NE/4, N/2 NW/4, SE/4 NW/4, SE/4
Section 33: NE/4 NE/4
Section 34: NW/4, W/2 E/2, N/2 SW/4, SE/4 SW/4
Section 35: E/2, SW/4, SE/4 NW/4
Section 36: All

TOWNSHIP 22 SOUTH, RANGE 30 EAST

Section 1: E/2
Section 5: N/2, N/2 S/2, SW/4 SW/4
Section 6: All
Section 7: W/2, W/2 E/2, SE/4 SE/4
Section 8: S/2 SW/4
Section 12: NE/4 NE/4
Section 13: NW/4, N/2 SW/4, SW/4 SW/4
Section 14: SE/4, S/2 NE/4, E/2 SW/4, SW/4 SW/4
Section 17: NW/4
Section 18: All
Section 19: All
Section 20: All

EXHIBIT "A" (continued)

TOWNSHIP 22 SOUTH, RANGE 30 EAST (continued)

Section 21: S/2, SW/4 NW/4
Section 22: S/2, S/2 N/2, NE/4 NE/4
Section 23: W/2, W/2 NE/4, NE/4 NE/4
Section 26: W/2 W/2
Section 27: All
Section 28: All
Section 29: All
Section 30: All
Section 31: All
Section 32: All
Section 33: All
Section 34: All
Section 35: W/2

TOWNSHIP 22 SOUTH, RANGE 31 EAST

Section 6: W/2, W/2 NE/4, NW/4 SE/4
Section 7: N/2 NW/4

TOWNSHIP 23 SOUTH, RANGE 29 EAST

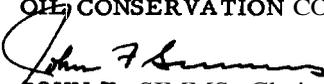
Section 1: All
Section 2: E/2, NW/4, NE/4 SW/4
Section 11: NE/4 NE/4
Section 12: N/2 N/2

TOWNSHIP 23 SOUTH, RANGE 30 EAST

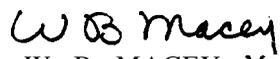
Section 2: NW/4
Section 3: All
Section 4: All
Section 5: All
Section 6: All
Section 7: NE/4, N/2 NW/4, SE/4 NW/4
Section 8: N/2 N/2, S/2 NE/4
Section 9: N/2, NE/4 SW/4, N/2 SE/4
Section 10: N/2, SW/4

DONE at Santa Fe, New Mexico on the day and year **hereinabove** designated.

STATE OF NEW MEXICO
OH, CONSERVATION COMMISSION


JOHN F. SIMMS, Chairman


E. S. WALKER, Member


W. B. MACEY, Member and Secretary

S E A L

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