

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 1590
Order No. R-1359

APPLICATION OF REX MOORE FOR AN
ORDER AUTHORIZING A GAS INJECTION
PROJECT IN THE BISTI-LOWER GALLUP
OIL POOL, SAN JUAN COUNTY, NEW
MEXICO, AND FOR THE PROMULGATION
OF SPECIAL RULES AND REGULATIONS
IN CONNECTION THEREWITH.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 25, 1959, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 27th day of March, 1959, the Commission, a quorum being present, having considered the application and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, by letter dated March 20, 1959, requested that Case No. 1590 be dismissed.

IT IS THEREFORE ORDERED:

That Case No. 1590 be and the same is hereby dismissed.

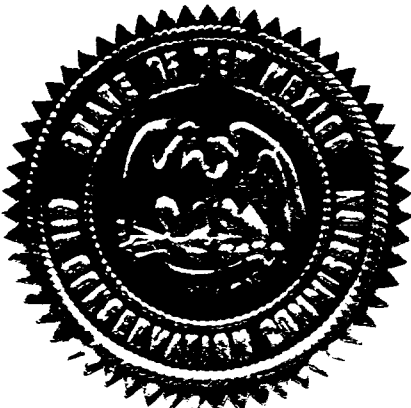
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

John Burroughs
John Burroughs, Chairman

Murray E. Morgan, Member

A. L. Porter, Jr.
A. L. Porter, Jr., Member & Secretary



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BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 1559
Order No. 8-1315

APPLICATION OF SUNRAY MID-CONTINENT
OIL COMPANY FOR AN ORDER AUTHORIZING
A GAS INJECTION PROJECT IN THE BISTI-
LOWER GALLUP OIL POOL IN SAN JUAN
COUNTY, NEW MEXICO, AND FOR THE
PROMULGATION OF SPECIAL RULES AND
REGULATIONS GOVERNING SAID PROJECT.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on December 10, 1958, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 31st day of December, 1958, the Commission, a quorum being present, having considered the application, the evidence adduced and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Sunray Mid-Continent Oil Company, is the operator of the Federal "C" Lease in the Bisti-Lower Gallup Oil Pool including the following-described acreage:

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPN
Section 6: NE/4 NW/4, S/2 NW/4, NE/4 and the S/2
Section 7: N/2 and the SE/4

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPN
Section 31: N/2 SW/4, SE/4 SW/4 and the SE/4

all in San Juan County, New Mexico.

(3) That the applicant proposes to institute a gas injection project on said Federal "C" Lease by the injection of gas into the Gallup formation through its Federal "C" Well No. 18, located in the SW/4 NE/4 of said Section 7.

(4) That the applicant further proposes that special rules and regulations be promulgated to govern the operation of said project, which rules would provide for:

(a) the conversion of additional injection wells without notice and hearing, subject to administrative approval by the Commission.

(b) the transfer of allowables from injection wells to producing wells within the project area.

(c) the transfer of allowables from wells which have been shut-in for observation or to increase the efficiency of the project, to other wells within the project area.

(d) operation of the wells in the project on a net gas-oil ratio basis giving allowance for gas injected.

(e) such other rules and regulations as are deemed appropriate by the Commission.

(5) That the applicant has established by a preponderance of the evidence that approval of the subject application will prevent waste and result in greater ultimate recovery of oil from the Bisti-Lower Gallup Oil Pool.

(6) That the application to convert the said Federal "C" Well No. 18 to gas injection should be authorized.

(7) That special rules and regulations governing the applicant's gas injection project in the Bisti-Lower Gallup Oil Pool should be established.

IT IS THEREFORE ORDERED:

(1) That the applicant, Sunray Mid-Continent Oil Company, be and the same is hereby authorized to operate a gas-injection project on its Federal "C" Lease, Bisti-Lower Gallup Oil Pool, San Juan County, New Mexico, subject to the special rules and regulations for said gas injection project as hereinafter set forth.

(2) That the applicant be and the same is hereby authorized to convert its Federal "C" Well No. 18, located in the SW/4 NE/4 of Section 7, Township 25 North, Range 12 West, NMPM, San Juan County, New Mexico, to a gas injection well, with injection of gas through perforations in the interval between 4842 feet and 4930 feet.

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Conversion of producing wells to gas injection, or the drilling of additional wells for gas injection, shall be done only after approval of same by the Secretary-Director of the Commission. To obtain such approval, the Project operator shall file proper application with the Commission, which application shall include the following:

- (1) A plat showing location of proposed injection well, all wells within the project area and offset operators, locating their off-setting wells to the project area.
- (2) A schematic drawing of the proposed injection well which fully describes the casing, tubing, perforated interval, and depths and showing that injection of gas will be confined into the Bisti-Lower Gallup formation.
- (3) A letter stating that all interested parties, including offset operators to the project area have been furnished a complete copy of the application and the date of the notification.

The Secretary-Director may approve the proposed gas injection well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval provided waivers of objection are received from all interested parties.

RULE 6. The allowable assigned to any well which is shut-in or is curtailed in accordance with the provisions of Rule 3, which allowable is to be transferred to any well or wells in the project area for production, shall in no event exceed the producing capacity of the well prior to such shut-in or curtailment as determined by the testing procedure prescribed by Rule 7.

RULE 7. The allowable assigned to any well which is used for the purpose of gas injection, or which is shut-in or curtailed in accordance with Rule 3, shall be determined by a 24-hour test at a stabilized rate of production, which shall be the final 24-hour period of a 72-hour test throughout which the well shall be produced in the same manner and at a constant rate. In no event shall a well receive an allowable greater than its ability to produce, or greater than top unit allowable for the pool multiplied by the well's acreage factor, whichever is applicable. The project operator shall notify all operators offsetting the Project, as

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well as the Commission, of the exact time such tests are to be conducted. Tests may be witnessed by representatives of the offsetting operators and the Commission, if they so desire.

RULE 8. No well in the project area shall be assigned any allowable transferred from any other well or wells in the project area unless and until said well has been approved by the Commission as a duly authorized "Transfer Well." To receive approval for any such Transfer Well, the Project operator shall file application with the Secretary-Director of the Commission for permission to transfer allowable to the well, setting forth therein the well's current allowable and the maximum allowable which will be assigned to the well. Copies of the application shall be provided to all operators owning acreage offsetting the proration unit on which the transfer well is located. The Secretary-Director may designate the well as a Transfer Well subject to the maximum expected allowable for the well if, within 20 days after receiving the application, no objection to the designation is received. The Secretary-Director may grant immediate designation as a Transfer Well provided waivers of objection are received from all such offset operators.

RULE 9. The allowable assigned to any well in the Project shall be based upon the ability of the well to produce and shall be subject to the limiting gas-oil ratio (2,000 to 1) for the Bisti-Lower Gallup Oil Pool, except that any well or wells within the project area producing with a gas-oil ratio in excess of 2,000 cubic feet of gas per barrel of oil may be produced on a "net" gas-oil ratio basis, which net gas-oil ratio shall be determined by applying credit for daily average gas injected into the Bisti-Lower Gallup Oil Pool within the project area to such high gas-oil ratio well. The daily adjusted oil allowable for any such well receiving gas injection credit shall be determined in accordance with the following formula:

$$A_{adj} = \frac{TUA \times F_a \times 2,000}{\frac{P_g - I_g}{P_o}}$$

where:

A_{adj} = the well's daily adjusted allowable
 TUA = top unit allowable for pool
 F_a = the well's acreage factor

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P_g = average daily volume of gas produced by the well during the preceding month, cubic feet

I_g = the well's allocated share of the daily average gas injected during the preceding month, cubic feet.

P_o = average daily volume of oil produced by the well during the preceding month, barrels

In no event shall the amount of injected gas being credited to a well be such as to cause the net gas-oil ratio, $\frac{P_g - I_g}{P_o}$, to be less than 2,000 cubic feet of gas per barrel of oil produced.

RULE 10. Each month the project operator shall, within three days after the normal unit allowable for Northwest New Mexico has been established, submit to the Commission a Gas Injection Project Operator's Report, on a form prescribed by the Commission, outlining thereon the data required, and requesting allowables for each of the several wells in the Project.

RULE 11. The Commission shall, upon review of the report and after any adjustments deemed necessary, assign allowables to each well in the Project for the next succeeding month in accordance with these rules.

RULE 12. The Special Rules and Regulations for the operation of the subject Project shall prevail against the Statewide Rules and also against the Special Rules and Regulations for the Bisti-Lower Gallup Oil Pool, if in conflict therewith.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

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