

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. 4204
Order No. R-3824

APPLICATION OF MOBIL OIL CORPORATION
FOR A WATERFLOOD PROJECT AND UNORTHODOX
INJECTION WELL LOCATIONS, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 27, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 4th day of September, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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, Mobil Oil Corporation, seeks permission to institute a waterflood project in the Humphrey Queen Unit Area, Langlie-Mattix Pool, by the injection of water into the Queen sand formation through 11 injection wells at orthodox and unorthodox locations in Sections 3 and 4, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant further seeks the establishment of an administrative procedure whereby the Secretary-Director of the Commission may authorize additional injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern without the necessity of showing well response.

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(4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection, and provided further, that said injection wells are drilled no closer than 330 feet to the outer boundary of the Humphrey Queen Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary.

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to institute a waterflood project in the Humphrey Queen Unit Area, Langlie-Mattix Pool, by the injection of water into the Queen sand formation through the following-described wells at orthodox and unorthodox locations in Township 25 South, Range 37 East, NMPM, Lea County, New Mexico:

Unit Well		Unit	Section
No.	Previous Well Name and Number		
2	Mobil-Liberty Well No. 1	D	3
4	Mobil-Humphrey "A" Well No. 1	B	3
6	Mobil-Fristoe Well No. 6	A	3
9	Mobil-Humphrey "A" Well No. 4	F	3
15	Mobil-Liberty Well No. 5	L	3
17	Mobil-Humphrey "A" Well No. 5	J	3
19	Mobil-Fristoe Well No. 7	I	3
23	Mobil-Humphrey "A" Well No. 9	O	3
20	To be drilled - 100' FSL & 5' FWL		3
7	Mobil-Smith Well No. 2	H	4
13	To be drilled - 2522' FSL & 1220' FEL		4

(2) That the subject waterflood project is hereby designated the Mobil Langlie Mattix Humphrey Waterflood Project and shall be

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governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve such additional injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern; provided said wells are drilled no closer than 330 feet to the outer boundary of the Humphrey Queen Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided further, that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided further, that a copy of the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days. The showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That that portion of Order No. R-3426, dated June 5, 1968, which approved certain of the above wells as water injection wells is hereby superseded.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMISTO, Member

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. 4152
Order No. R-3628-A**

**APPLICATION OF ANADARKO PRODUCTION
COMPANY FOR AN AMENDMENT OF ORDER
NO. R-3628, EDDY COUNTY, NEW MEXICO.**

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 25, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this _____ day of July, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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, Anadarko Production Company, is the operator of the Anadarko Far West Loco Hills Waterflood Project, Loco Hills Pool, Eddy County, New Mexico, approved by Commission Order No. R-3628.

(3) That the applicant seeks the amendment of said Order No. R-3628 to delete from the water injection wells authorized for injection by said order the following three wells:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM

Tract 1 - Well No. 1 located 2310' FNL and 330' FEL of Section 4
Tract 8 - Well No. 1 located 2310' FSL and 1650' FWL of Section 4
Tract 8 - Well No. 9 to be drilled 1330' FSL and 2630' FEL of Section 4

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(4) That the applicant seeks to substitute in lieu of the above-described three wells the following:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM

Tract 1 - Well No. 29 to be drilled 2460' FNL and 180' FEL of Section 4

Tract 8 - Well No. 34 to be drilled 1980' FSL and 1980' FWL of Section 4

Tract 8 - Well No. 35 to be drilled 10' FSL and 1650' FWL of Section 4

(5) That the applicant further seeks the amendment of said Order No. R-3628 to provide a procedure whereby the Secretary-Director of the Commission may authorize the substitution of other water injection wells at orthodox and unorthodox locations for those previously authorized in order to complete an efficient injection pattern.

(6) That approval of the aforesaid amendments will afford the applicant the opportunity to produce its just and equitable share of the oil and gas in the Loco Hills Pool, and will otherwise prevent waste and protect correlative rights, provided said injection wells are drilled no closer than 330 feet to the outer boundary of its Far West Loco Hills Sand Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary.

IT IS THEREFORE ORDERED:

(1) That Order No. R-2628, dated December 16, 1968, is hereby amended by deleting from the water injection wells authorized for the Anadarko Far West Loco Hills Waterflood Project, Eddy County, New Mexico, the following three wells:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM

Tract 1 - Well No. 1 located 2310' FNL and 330' FEL of Section 4

Tract 8 - Well No. 1 located 2310' FSL and 1650' FWL of Section 4

Tract 8 - Well No. 9 to be drilled 1330' FSL and 2630' FEL of Section 4

(2) That said Order No. R-3628 is hereby further amended by substituting in lieu of the three wells described in Order (1) above

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the following three water injection wells:

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM

- Tract 1 - Well No. 29 to be drilled 2460' FNL and 180' FEL of
Section 4
Tract 6 - Well No. 34 to be drilled 1980' FSL and 1980' FWL of
Section 4
Tract 8 - Well No. 35 to be drilled 10' FSL and 1650' FWL of
Section 4

(3) That Order (2) of Order No. R-3628 is hereby amended to read in its entirety as follows:

"(2) That the Anadarko Far West Loco Hills Waterflood Project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve the substitution of other water injection wells at orthodox and unorthodox locations for those previously authorized in order to complete an efficient injection pattern; provided said wells are drilled no closer than 330 feet to the outer boundary of the Far West Loco Hills Sand Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided further, that a copy of the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days."

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

S E A L

esr/

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

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF MOBIL OIL CORPORATION FOR
AUTHORITY TO INSTITUTE A WATERFLOOD
PROJECT IN THE LANGLIE-MATTIX POOL,
LEA COUNTY, NEW MEXICO

Case No. 4204

A P P L I C A T I O N

Applicant, Mobil Oil Corporation, whose address is Post Office Box 633, Midland, Texas 79701, hereby requests the Commission to authorize the institution of a waterflood project by the injection of water into the Queen Sand in the Langlie-Mattix Pool, Lea County, New Mexico, and in support of its request states:

1. Injection will be into the Queen Sand through 11 wells located in Sections 3 and 4, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.
2. Five of the eleven (11) wells will be located at unorthodox locations.

Applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701E-5 of the Commission Rules and Regulations.

WHEREFORE, applicant requests that this matter be set for hearing as provided by law and that following hearing the Commission issue its order granting authority to institute said waterflood project.

Respectfully submitted,

MOBIL OIL CORPORATION

By



Ira B. Stitt
Division Operations Engineer
Midland Division
Mobil Oil Corporation

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to be recompleted, located 660 feet from the East line and 1980 feet from the North line of said Section 29. Also to be considered will be the costs of drilling and/or recompleting said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4201: Application of Mobil Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Langlie-Mattix Queen Unit Area comprising 1120 acres, more or less, of federal and fee lands in Sections 10, 11, 14, 15, 22, and 23, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4202: Application of Mobil Oil Corporation for a waterflood project and unorthodox injection well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Langlie-Mattix Queen Unit Area by the injection of water into the Queen sand through 17 wells at orthodox and unorthodox locations in Sections 10, 11, 14, 15, 22, and 23, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection wells at orthodox and unorthodox locations may be approved for said project administratively.

CASE 4203: Application of Mobil Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Humphrey Queen Unit Area comprising 761 acres, more or less, of federal and fee lands in Sections 3 and 4, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4204: Application of Mobil Oil Corporation for a waterflood project and unorthodox injection well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Humphrey Queen Unit Area by the injection of water into the Queen sand through 11 wells at orthodox

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and unorthodox locations in Sections 3 and 4, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection wells at orthodox and unorthodox locations may be approved for said project administratively.

CASE 4205: Application of Tesoro Petroleum Corporation for four unorthodox injection well locations and amendment of Order No. R-2807, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject water into the Hospah Upper Sand Oil Pool in its Hospah Unit Waterflood Project Area through four additional injection wells at unorthodox locations in Section 36, Township 18 North, Range 9 West, McKinley County, New Mexico, said wells to be located as follows:

Well No. 62 located 1900 feet from the South line and 1140 feet from the West line;

Well No. 63 located 1980 feet from the North line and 2310 feet from the West line;

A well to be drilled 1430 feet from the South line and 2625 feet from the East line;

A well to be drilled 30 feet from the South line and 2350 feet from the East line.

Applicant further seeks the amendment of Order No. R-2807, which order authorized the aforesaid waterflood project, to establish a procedure whereby additional injection wells at unorthodox locations, as may be necessary to complete an efficient injection pattern, may be approved administratively.

CASE 4206: Application of Shell Oil Company for an unorthodox oil well location and amendment to Order No. R-2538, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing oil well at an unorthodox location 1315 feet from the North line and 2625 feet from the West line of Section 34, Township 19

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and unorthodox locations in Sections 3 and 4, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection wells at orthodox and unorthodox locations may be approved for said project administratively.

CASE 4205: Application of Tesoro Petroleum Corporation for four unorthodox injection well locations and amendment of Order No. R-2807, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject water into the Hospah Upper Sand Oil Pool in its Hospah Unit Waterflood Project Area through four additional injection wells at unorthodox locations in Section 36, Township 18 North, Range 9 West, McKinley County, New Mexico, said wells to be located as follows:

Well No. 62 located 1900 feet from the South line and 1140 feet from the West line;

Well No. 63 located 1980 feet from the North line and 2310 feet from the West line;

A well to be drilled 1430 feet from the South line and 2625 feet from the East line;

A well to be drilled 30 feet from the South line and 2350 feet from the East line.

Applicant further seeks the amendment of Order No. R-2807, which order authorized the aforesaid waterflood project, to establish a procedure whereby additional injection wells at unorthodox locations, as may be necessary to complete an efficient injection pattern, may be approved administratively.

CASE 4206: Application of Shell Oil Company for an unorthodox oil well location and amendment to Order No. R-2538, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing oil well at an unorthodox location 1315 feet from the North line and 2625 feet from the West line of Section 34, Township 19

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to be recompleted, located 660 feet from the East line and 1980 feet from the North line of said Section 29. Also to be considered will be the costs of drilling and/or recompleting said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4201: Application of Mobil Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Langlie-Mattix Queen Unit Area comprising 1120 acres, more or less, of federal and fee lands in Sections 10, 11, 14, 18, 22, and 23, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4202: Application of Mobil Oil Corporation for a waterflood project and unorthodox injection well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Langlie-Mattix Queen Unit Area by the injection of water into the Queen sand through 17 wells at orthodox and unorthodox locations in Sections 10, 11, 14, 15, 22, and 23, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby additional injection wells at orthodox and unorthodox locations may be approved for said project administratively.

CASE 4203: Application of Mobil Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Humphrey Queen Unit Area comprising 761 acres, more or less, of federal and fee lands in Sections 3 and 4, Township 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4204: Application of Mobil Oil Corporation for a waterflood project and unorthodox injection well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Humphrey Queen Unit Area by the injection of water into the Queen sand through 11 wells at orthodox