

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. 1493
Order No. R-1244

APPLICATION OF MAGNOLIA PETROLEUM
COMPANY FOR PERMISSION TO INSTITUTE
A PILOT WATER FLOOD PROJECT ON ITS
STATE BRIDGES LEASE IN THE VACUUM
POOL, LEA COUNTY, NEW MEXICO, AND FOR
THE ESTABLISHMENT OF AN ADMINISTRATIVE
PROCEDURE WHEREBY SAID PROJECT MAY BE
EXPANDED WITHIN THE LIMITS OF THE STATE
BRIDGES LEASE AND FOR THE ESTABLISHMENT
OF AN ADMINISTRATIVE PROCEDURE FOR THE
ASSIGNMENT OF A PROJECT OR LEASE ALLOWABLE
FOR SAID PROJECT.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on August 13, 1958, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 17th day of September, 1958, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing 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, Magnolia Petroleum Company, is the owner and operator of the State Bridges Lease in the Vacuum Pool, which lease comprises all or portions of Sections 3, 10, 11, 12, 13, 14, 15, 23, 24, 25, 26, and 27, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(3) That the applicant proposes to institute a pilot water flood project on said State Bridges Lease by the injection of water into the Grayburg-San Andres formation in the Vacuum Pool through the

(9) That applicant stipulated that the State Engineer is an interested party and is to be notified of any request for expansion of the said pilot project.

(10) That a procedure should be established whereby a project allowable may be granted administratively. Said project allowable should be determined by multiplying top unit allowable times the number of developed 40-acre tracts which directly or diagonally offset an authorized injection well plus top unit allowable times the number of 40-acre tracts on which an authorized injection well is located, which allowable may be produced from any well or wells within said project area.

IT IS THEREFORE ORDERED:

(1) That Magnolia Petroleum Company be and the same is hereby authorized to immediately convert for the purpose of water injection into the Grayburg-San Andres formation, the following-described wells:

Bridges Well No. 2, SW/4 SE/4 Section 14

Bridges Well No. 37, NE/4 SW/4 Section 14

Bridges Well No. 56, NE/4 SE/4 Section 14

Bridges Well No. 64, SW/4 NE/4 Section 14

Bridges Well No. 66, SW/4 NW/4 Section 14

Bridges Well No. 71, NE/4 NW/4 Section 14

all in Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, provided however, that prior to the use of said Bridges Well No. 2, as a water injection well, a packer shall be installed at a depth of 400 feet or more.

(2) That Magnolia Petroleum Company be and the same is hereby authorized to convert to water injection any well located on the State Bridges Lease in the Vacuum Pool, subject to administrative approval by the Commission. The State Bridges Lease consists of the following-described acreage:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM

Section 3: W/2 NE/4 and SE/4

Section 10: NE/4

Section 11: S/2

Section 12: S/2 and NE/4

Section 13: N/2 and SW/4

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(3) That an administrative procedure be and the same is hereby established for granting applicant a project allowable which may be produced from any well or wells within said project area.

PROVIDED HOWEVER, That in no event shall the project allowable be greater than an amount to be determined by multiplying top unit allowable times the number of developed 40-acre tracts which directly or diagonally offset an authorized injection well plus top unit allowable times the number of 40-acre tracts on which an authorized injection well is located.

DONE at Santa Fe, New Mexico, on the day and year herein-
above 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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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. 3654
Order No. R-3318

APPLICATION OF MOBIL OIL CORPORATION
FOR A WATERFLOOD EXPANSION AND FOR AN
AMENDMENT OF ORDER NO. R-1244, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 6, 1967, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of September, 1967, 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 expand its Bridges-State Waterflood Project authorized by Order No. R-1244 dated September 17, 1958, by the conversion to water injection of its Bridges-State Wells Nos. 63 and 73 in Units K and G of Section 13; Wells Nos. 3 and 6 in Units O and E of Section 23; Well No. 47 in Unit K of Section 24; Well No. 5 in Unit C of Section 26, and Well No. 52 in Unit A of Section 27; its State G Well No. 3 in Unit G of Section 24 and State J Wells Nos. 1 and 4 in Units I and A of Section 22, all in Township 17 South, Range 34 East, NMPM, Vacuum Pool, Lea County, New Mexico.

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

(2) That Commission Order No. R-1244, governing the operation, expansion, and assignment of allowables to Mobil's Bridges-State Waterflood Project, Vacuum Pool, Lea County, New Mexico, is hereby amended to provide that henceforth the operation, expansion, and assignment of allowables of said Bridges-State Waterflood Project shall be governed by the provisions of Rule 701 E of the Commission Rules and Regulations.

(3) That monthly progress reports of the Bridges-State Waterflood Project shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(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

GUYTON B. HAYS, 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. 3851
Order No. R-3496

APPLICATION OF MOBIL OIL CORPORATION
FOR A WATERFLOOD EXPANSION, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 4, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 12th day of September, 1968, 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 expand its Bridges State Waterflood Project in the Vacuum Pool by the injection of water into the San Andres formation through its Bridges State Well No. 127 located 660 feet from the South line and 560 feet from the West line of Section 24, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

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

(4) That the proposed expansion of the Bridges State Waterflood Project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

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. 4368
Order No. R-3984

APPLICATION OF MOBIL OIL CORPORATION
FOR A WATERFLOOD EXPANSION AND AMEND-
MENT OF RULES GOVERNING SAME, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 10, 1970,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 29th day of June, 1970, 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 expand its Bridges State Waterflood Project, Vacuum
Grayburg-San Andres Pool, by the conversion to water injection of
13 additional wells in Sections 25, 26, and 27 of Township 17
South, Range 34 East, NMPM, Lea County, New Mexico, as follows:

| <u>WELL NO.</u> | <u>UNIT</u> | <u>SECTION</u> |
|-----------------|-------------|----------------|
| 14 | G | 25 |
| 17 | A | 25 |
| 32 | C | 25 |
| 15 | O | 26 |
| 25 | I | 26 |
| 29 | M | 26 |
| 30 | G | 26 |
| 35 | K | 26 |

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to expand its Bridges State Waterflood Project in the Vacuum Grayburg-San Andres Pool, authorized by Order No. R-1244, as amended, by the injection of water into the Grayburg and San Andres formations through the following-described nine additional wells in Sections 25, 26, and 27 of Township 17 South, Range 34 East, NMPM, Lea County, New Mexico:

| <u>WELL NO.</u> | <u>UNIT</u> | <u>SECTION</u> |
|----------------------------|-------------|----------------|
| Bridges State Well No. 17 | A | 25 |
| Bridges State Well No. 32 | C | 25 |
| Bridges State Well No. 30 | G | 26 |
| Bridges State Well No. 35 | K | 26 |
| Bridges State Well No. 105 | A | 26 |
| Bridges State Well No. 132 | E | 26 |
| Bridges State Well No. 42 | O | 27 |
| Bridges State Well No. 48 | I | 27 |
| Bridges State Well No. 52 | A | 27 |

(2) That the waterflood project as expanded 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 such additional lands and injection wells in the area of said waterflood project 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 subject lease 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 expanded waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

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. 4368 (de novo)
Order No. R-3984-A

APPLICATION OF MOBIL OIL CORPORATION
FOR A WATERFLOOD EXPANSION AND AMEND-
MENT OF RULES GOVERNING SAME, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing de novo at 9 a.m. on September 16, 1970, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 10th day of November, 1970, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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 after an examiner hearing, Commission Order No. R-3984, dated June 29, 1970, was entered granting the applicant, Mobil Oil Corporation, permission to expand its Bridges State Waterflood Project, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico, by the injection of water into the Grayburg and San Andres formations through nine additional wells in Sections 25, 26, and 27 of Township 17 South, Range 34 East, NMPM; and that said Order No. R-3984 denied the request of the applicant to similarly inject through four other wells located in said Sections 25 and 26.

(3) That the applicant, Mobil Oil Corporation, by de novo hearing, seeks permission to expand its Bridges State Waterflood

CASE No. 4368 (de novo)

Order No. R-3984-A

(9) That the escape of water into the Lower San Andres formation as described in Finding No. (8), above, would cause premature water breakthrough into wells on the Marathon McAlister Lease, thereby reducing the oil productivity of the wells and reducing the ultimate recovery from the lease.

(10) That there are substantial reserves of oil in the Upper and Lower San Andres formation on the Continental State H-35 Lease to the south of the above-described injection Well No. 15 located in said Section 26.

(11) That there are numerous wells on said Continental lease completed open-hole in both the Upper and Lower San Andres formation.

(12) That because of the manner in which said Continental wells were completed there is a reasonable probability that water injected through said injection Well No. 15 in Section 26 into the Upper San Andres formation will escape into the Lower San Andres formation through said open-hole completions.

(13) That the escape of water into the Lower San Andres formation as described in Finding No. (12), above, would cause premature water breakthrough into wells on the Continental lease, thereby reducing the oil productivity of the wells and reducing the ultimate recovery from the lease.

(14) That offset producing wells to the south and east of the above-described Wells Nos. 14, 25, and 15 have recoverable reserves in the Grayburg and Upper and Lower San Andres formations that would be swept away from said producing wells if the requested injection through said Wells Nos. 14, 25, and 15 were permitted.

(15) That the injection of water through said Wells Nos. 14, 25, and 15 would cause waste and would violate correlative rights of offset operators to the south and east of each of the proposed locations and should be denied.

(16) That, subject to Finding No. (15), above, the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(17) That, subject to Finding No. (15), above, the subject application should be approved and the project should be governed

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CASE No. 4368 (de novo)
Order No. R-3984-A

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 expanded water-flood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That the applicant's request to convert to water injection its Bridges State Wells Nos. 14, 15, and 25, located, respectively, in Unit G of Section 25, and Units O and I of Section 26, Township 17 South, Range 34 East, NMPM, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico, is hereby denied.

(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. ARMIJO, 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. 4800
Order No. R-4385

APPLICATION OF MOBIL OIL
CORPORATION FOR WATERFLOOD
EXPANSION AND CAPACITY
ALLOWABLE, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 23, 1972, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 6th day of September, 1972, 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 expand the Bridges State Waterflood Project in the Vacuum (Grayburg-San Andres) Pool, Grayburg-San Andres formation, by the addition of two producing wells to the project area being its Bridges State Wells Nos. 12 and 174, located, respectively, in Unit P of Section 26 and Unit J of Section 15, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.
- (3) That said wells are located adjacent to applicant's Bridges State Water Flood Project in said pool but are not directly or diagonally offset by an injection well in the project.
- (4) That said wells have experienced a response to the injection of water into the Bridges State Water Flood Project.
- (5) That if said wells are not permitted to produce at rates commensurate with wells in their Bridges State Water Flood Project in accordance with Commission Rule 701 E, oil may be swept past the wells and lost to undrilled acreage or across lease lines.

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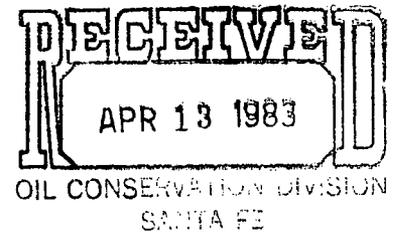
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BENJAMIN SILVA, JR.

April 12, 1983

Mr. Joe D. Ramey
Secretary-Director
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501



Case 7866

Re: Application of Mobil Producing
Texas & New Mexico Inc. for
Permission to Expand its Bridges-
State Waterflood Project within
the Vacuum (Grayburg-San Andres)
Pool, Lea County, New Mexico

Dear Mr. Ramey:

Enclosed herewith, please find original and two copies of
Mobil Producing Texas & New Mexico Inc.'s application for
hearing concerning the above-captioned matter.

It would be appreciated if this matter can be scheduled
for hearing before an examiner on May 11, 1983.

Very truly yours,

James E. Sperling
James E. Sperling

JES/jev
Enclosures

cc: J. A. Morris, w/encl. (attn: H. F. Weaver)