<u>CASE 3757:</u> Application of MOBIL OIL CORP. FOR AN EXCEPTION TO ORDER NO. R-3221, CHAVES COUNTY.



Application Transcripts. Small Exhibits



### DEFORE 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. 3757 Order No. R-3410

APPLICATION OF MOBIL OIL CORPORATION FOR AN EXCEPTION TO ORDER NO. R-3221, CHAVES COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 15, 1968, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 20th day of May, 1968, the Commission, a quorum being present, having considered the record, and being fully advised in the premises,

FINDS:

That the applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED:

That Case No. 3757 is hereby dismissed.

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

STATE OF NEW MEXICO



OIL CONSERVATION COMMISSION 11 11 14 14 DAVID F. CARGO, Chairman

e la • Þ GUXTON BAL HANG, Member å Ň

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

GOVERNOR DAVID F. CARGO CHAIRMAN

# State of New Mexico Bil Conservation Commission

LAND COMMISSIONER GUYTON 8. HAYS MEMBER



STATE GEOLOGIST A. L. PORTER, JR. Secretary - Director

May 20, 1968

SANTA FE

Mr. Ira B. Stitt Mobil Oil Corporation Post Office Box 633 Midland, Texas 79701 Re: Case No. 3757 Order No. R-3410 Applicant:

abbircenci

Mobil Oil Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Carbon copy of drder also sent to:

Hobbs OCC X

Artesia OCC<u>x</u>

Aztec OCC\_\_\_

Other\_

# **Mobil Oil Corporation**

P.O. BOX 633 MIDLAND, TEXAS 79701



New Mexico Oil Conservation Commission Post Office Box 2088 Santa Fe, New Mexico 87501

> CASE NO. 3757 MAY 15, 1968 EXCEPTION TO ORDER NO.° R-3221 (SURFACE PIT ELIMINATION) C. L. O'BRIEN "C" LEASE TWIN LAKES (DEVONIAN) FIELD" CHAVES COUNTY, NEW MEXICO

Gentlemen:

Please cancel the subject hearing. We prefer to defer this action to a later date.

Yours very truly,

Ira B. Stitt

Division operations Engineer

FLHart:mw cc: Mr. J. E. Sperling P. O. Box 466 Albuquerque, New Mexico

BUTTAY 8 AT 1

Docket No. 14-68

DOCKET: REGULAR HEARING - WEDNESDAY - MAY 15, 1968

OIL CONSERVATION COMMISSION - 9 A.M. - MORGAN HALL, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

ALLOWABLE (1) Consideration of the oil allowable for June, 1968;

- (2) Consideration of the allowable production of gas for June, 1968, from thirteen prorated pools in Lea, Eddy, and Roosevelt Counties, New Mexico; also presentation of purchaser's nominations for said pools for the six-month period beginning July, 1968; consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for June, 1968.
- CASE 3757: Application of Mobil Oil Corporation for an exception to Order No. R-3221, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Commission Order No. R-3221, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for applicant's C. L. O'Brien "C" lease in Section 1, Township 9 South, Range 28 East, Twin Lakes-Devonian Pool, Chaves County, New Mexico. Applicant seeks authority to continue to dispose of produced water in a surface pit on said lease.
- CASE 3758: Application of William A. and Edward R. Hudson for an exception to Order No. R-3221, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an exception to Commission Order No. R-3221, which prohibits the disposal of water produced in conjunction with production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for applicants' Federal, Gulf Federal, and Eddy State "BD" leases in Sections 28, 32, and 33, Township 20 South, Range 30 East, Dos Hermanos Yates-Seven Rivers Pool, Eddy County, New Mexico. Applicants seek authority to continue to dispose of produced water in sucface pits in said leases.
- <u>CASE 3759:</u> Southeastern New Mexico nomenolature case calling for an order for the greation, abolishment, contraction, and extension of certain pools in Chaves, Let, Eddy and Roosevelt Counties, New Mexicos

### Regular Hearing - May 15, 1968

-2-

(a) Create a new pool in Lea County, New Mexico, classified as an oil pool for Strawn production and designated as the South Crossroads-Strawn Pool. The discovery well is J. M. Huber Corporation, Santa Fe "22" No. 1, located in Unit B of Section 22, Township 10 South, Range 36 East, NMPM. Said pool should comprise the following-described area:

### TOWNSHIP 10 SOUTH, RANGE 36 EAST, NMPM SECTION 22: NE/4

(b) Create a new pool in Eddy County, New Mexico, classified as an oil pool for Strawn production and designated as the Mesquite-Strawn Pool. The discovery well is Pennzoil Company, Federal A No. 1, located in Unit D of Section 3, Township 18 South, Range 31 East, NMPM. Said pool should comprise the following-described area:

### TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM SECTION 3: NW/4 NW/4

(c) Create a new pool in Lea County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the South Osudo-Wolfcamp Gas Pool. The discovery well is Amerada Petroleum Corporation, State WE "K" No. 1, located in Unit F of Section 15, Township 21 South, Range 35 East, NMPM. Said pool should comprise the following-described area:

TOWNSHIP 21 SOUTH, RANGE 35 EAST, NMPM SECTION 15: NW/4

(d) Abolish the Lane-Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM SECTION 23: NE/4 SECTION 24: W/2 SECTION 25: W/2 and SE/4 SECTION 35: E/2 SECTION 36: A11 TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM SECTION 30: S/2 SECTION 31: W/2 -3-Regular Hearing - May 15, 1968 (d continued)

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM SECTION 1: All SECTION 2: E/2 and SW/4 SECTION 12: N/2

TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM SECTION 6: W/2 and SE/4

(e) Contract the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, by deletion of the following-described area:

> TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM SECTION 3: SE/4 SECTION 10: E/2 SECTION 11: A11

(f) Extend the Vada-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM SECTION 36: SW/4

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM SECTION 9: SW/4 SECTION 15: NE/4 SECTION 29: NW/4 and S/2 SECTION 30: All SECTION 31: N/2 and SE/4

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM SECTION 1: NW/4 and S/2 SECTION 2: All SECTION 3: SE/4 SECTION 10: All SECTION 11: All TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM

SECTION 5: NW/4 SECTION 6: All

(g) Extend the Bagley-Pennsylvanian Pool in Lea County, New Mexico to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 36: SE/4

-4-Regular Hearing - May 15, 1968

(h) Extend the North Bagley-Lower Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 17: NW/4 SECTION 18: NE/4 SECTION 20: NE/4

(i) Extend the North Bagley-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM SECTION 16: N/2 SECTION 17: N/2 SECTION 28: NW/4 SECTION 29: N/2

(j) Extend the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 27 EAST, NMPM SECTION 35: N/2

TOWNSHIP 15 SOUTH, RANGE 27 EAST, NMPM SECTION 1: W/2 SECTION 2: S/2

(k) Extend the Cato-San Andres Pool in Chaves County, New Mexico, to include therein:

> TOWNSHIP 9 SOUTH, RANGE 30 EAST, NMPM SECTION 5: E/2

(1) Extend the Chaveroo-San Andres Pool in Roosevelt County, New Mexico, to include therein:

> TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM SECTION 23: SE/4

(m) Extend the East EK-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM SECTION 22: NE/4

## Regular Hearing - May 15, 1968

#### Docket No. 14-68

(n) Extend the Inbe Permo-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM SECTION 13: NW/4 SECTION 24: NE/4

(o) Extend the Littman-San Andres Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 21 SOUTH, RANGE 38 EAST, NMPM SECTION 21: W/2

(p) Extend the East Mason-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 32 EAST, NMPM SECTION 20: SW/4

(q) Extend the Scharb-Bone Springs Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM SECTION 1: S/2 SECTION 11: SE/4 SECTION 12: A11

(r) Extend the Simanola-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM SECTION 17: NE/4

(s) Extend the North Vacuum-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM SECTION 13: SE/4

(t) Extend the Vacuum-Middle Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM SECTION 13: SE/4

(u) Extend the Vacuum-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

> TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM SECTION 14: SE/4

Docket No. 14-68

-6-Regular Hearing - May 15, 1968

> (v) Extend the Warren-Drinkard Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM SECTION 35: NE/4 12 E.

### Mobil Qil Corporation

P.O. BOX 633

April 10, 1968

Au, 1968 Colar 3757 Act for Hearing may 15 REg.

B APR 12 AH 8 39

New Mexico Oil Conservation - 3 Commission P. O. Box 2088 Santa Fe, New Mexico 87501

> REQUEST FOR EXCEPTION TO ORDER NO. R-3221 (SURFACE PIT ELIMINATION) C. L. O'BRIEN "C" LEASE TWIN LAKES (DEVONIAN) FIELD CHAVES COUNTY, NEW MEXICO

Gentlemen:

Mobil Oil Corporation respectfully submits this request for an exception to Order No. R-3221 (surface pit elimination) upon the grounds of hardship and the absence of fresh water bearing aquifers in the vicinity of the below described lands. Mobil is the operator of the C. L. O'Brien "C" Well No. 1 located in the SW/SW of Sec. 1, T9S, R28E, Chaves County, New Mexico. Said well is the only well currently producing from the Devonian formation in the Twin Lakes Field. Average daily production during the month of January, 1968, was 31 barrels of oil and 39 barrels of water. The produced water is stored in a surface pit and disposed of by evaporation. The pit is located in the NW/NW of Sec. 1, T9S, R28E.

A recent investigation was conducted seeking a suitable underground disposal zone for the produced water. Based upon analysis of the log of Mobil's C. L. O'Brien "C" Well No. 2 (originally drilled to the Devonian but now a temporarily abandoned San Andres well), the basal Devonian appeared the most likely disposal zone. The quantity of produced water disposed of in the basal Devonian from the Knowles and East Cap Rock Fields clearly verifies the log analysis. However, the expenses of converting and equipping the C. L. O'Brien "C" Well No. 2 to dispose of produced water in the basal Devonian formation is conservatively estimated at \$26,000. The reserves in the Twin Lakes (Devonian) Field make this expense prohibitive, since it is estimated that this lease will be wholly depleted in three or four years.

We also sought other means of disposal. We found no other disposal well is situated in this area. The expenses involved in trucking the produced water from this remote location would be greater than the costs of

DOCKET M. L.D.

Date 5/2/68

Mobil

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conversion and are thus also prohibited by reason of the low reserves. In order to protectively line the disposal pit and adequately maintain such lining, the cost figures would exceed \$40,000. It is also not economically feasible or mechanically desirable to inject this produced water into the basal Devonian formation through the well bore. It is submitted that the reserves recoverable from said lease will be lost to the economy unless some satisfactory means of disposing of the Our investigation of the geology of the Twin Lakes Field area convinces producing water is discovered. us that surface pit evaporation disposal constitutes no pollution hazard to fresh water sands, since they are either non-existent in this area, or under impermeable formations. The following geological observations are offered in support of this view: Surface rocks in the vicinity of the Twin Lakes Field are Triassic redbeds and thin quaternary alluvium. Water in contact with Triassic rocks becomes saline because of the salts solution from the rocks. The water, if any, in the alluvium is probably saline because of the water, if any, in the arroytom is product, but he because of contact with the Triassic rocks. At present, playa lakes lie on the surface in contact with surface rocks and the high evaporation rates result in saline waters. There are no tributary streams connected to or from the lakes which further concentrates the saline content of the water. Our findings indicate that all of the surface waters in the area are saline and have been for a considerable time. Thus, nature has contributed a polluted surface system. The seepage of oil well brines from pits thru several hundred feet of impermeable Triassic shales into the Santa Rosa water sand is so improbable as to constitute no real pollution hazard. The Santa Rosa re-charge area is from a higher elevation to the west. 2. Thus, any pollution hazard to the re-charge system is not present because the subject pits are so situated, both geographically and 3. topographically, as to remove the possibility. Any pollution hazard to the Ogallala acquifer lying to the east is impossible. The Ogallala is topographically higher and does not outcrop in the Twin Lakes Field area. 4.

The volume of produced water requiring disposal is negligible in

The following items are attached for your information and evaluation: 5.

Three copies of map showing ownership and wells in the

Twin Lakes Field and surrounding area. (1)

-2-

## Mobil

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-3-

- (2) Three geological cross section and topographic maps of the vicinity of the Twin Lakes Field.
- (3) Three copies of letter waiving objection from Land Owner.
- (4) Three copies of letter of concurrence from Joint Interest Owner.

A fence enclosing the pit will be maintained and only water produced from Mobil's lease would be disposed of in this pit. C. L. O'Brien "C" Well No. 1 is the only producing well currently operated by Mobil in this area.

Mobil Oil Corporation respectfully submits that surface pit evaporation disposal of produced water from the C. L. O'Brien "C" Well No. 1 is the only economically feasible means of disposal and such method constitutes no pollution hazard in the Twin Lakes Field area. Mobil respectfully requests that this exception to Order No. R-3221 be granted administratively.

If additional evidence or information is required, please so advise us.

Yours very truly,

Ira B. Stitt Division Operations Engineer

ADB/vp/nab Attachments

### CITIES SERVICE OIL COMPANY

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April	3, 1963 Care 3757
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I. B. STITT, JR.	CALL UP
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New Mexico Oil Conservation Committee P. O. Box 2038 Santa Fe, New Mexice 37501

Attention: Nr. A. L. Porter, Jr.

Re: Exception to Order R-3221 O'Brien "C" Twin Lake Devonian, Chaves County, New Mexico

#### Gentlemen:

Cities Service Oil Company is a joint owner of the Mobil Oil Corporation C. L. O'Brien "C" Lease Twin Lake Devonian Field, Chaves County, New Mexico.

Cities concurs with Mobil's application for exception to Order R-3221 (elimination of surface pits) and respectively requests continuance of disposing produced water into surface pits after January 1, 1969 on the subject lease. This area is outside of any designated fresh water basins and our investigation indicates there are no fresh water bearing acquifers which could be contaminated from surface disposal of oil field brines.

Unless an exception to the no pit order is issued, this will cause premature abandonment of the lease. This, in our opinion, is an economic waste and also deprives the State of New Mexico from future income derived from taxes.

Your favorable consideration of this matter will be appreciated.

Yours very truly,

*coller* 

E. F. Notter Region Engineer Western Region Production Division

cc: Mobil Oil Corporation P. G. Box 633 Midland, Texas 79701 O'BRIEN COMPANY P. O. BOX 448 Amarillo, Texas 79105 March 25, 1968

RECEIVED 88991 **3 S RAM** 1. B. STILL, M. OFFICE Care 3757

Mr. Ira B. Stitt Division Operations Engineer Mobil Oil Corporation P. O. Box 633 Midland, Toxas 79701

Dear Sir:

Enclosed is signed Waiver in connection with Salt Water Disposal on the C. L. O'Brien "C" Lease in Chaves County, New Mexico.

John G. O'Brien Yours very truly,

JGO'E:mb Encl/2

W, B. O'BRIEN U. G. O'BRIEN

.

### WAIVER

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

> SALT WATER DISPOSAL C. L. O'BRIEN "C" LEASE TWIN LAKES (DEVONIAN) FIELD CHAVES COUNTY, NEW MEXICO

Gentlemen:

'The undersigned surface and royalty owners, in the lands covered by the subject lease, have examined a copy of Mobil Oil Corporation's request for an exception to Order No. R-3221 (surface pit elimination) and approve same. Please be advised that the undersigned surface and royalty owners support the request by Mobil Oil Corporation for said exception.

Yours very truly,

Date 3-25-69

JOHN G. O'BRIEN é. B٦ O'BRIEN W B

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	BEFORE THE					
, com	OIL CONSERVATION COMMISSION Santa Fe, New Mexico May 15, 1968					
MONY, DA	REGULAR HEARING					
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S & [ V s. exter	IN THE MATTER OF:					
<b>dearnio.moior</b> FBDTEASSEFVEC、一品C. sfecializing in: depositions, hearings, statements, expert testimony, daily copy, conventions 1120 simms eldd F. O. dox 1092 - PHONE 243-4491 - Albuquerque, new mexico	Application of Mobil Oil Corporation ) for an exception to Order No. R-3221, ) Case No. 3757 Chaves County, New Mexico. )					
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DEALDEY-MEIEF FEDULFF	BEFORE: Honorable David Cargo Mr. A. L. Porter					
<b>y - M</b> (	Mr. Guyton B. Hays					
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	TRANSCRIPT OF HEARING					

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MR. PORTER: Next we will take up Case 3757. MR. HATCH: Application of Mobil Oil Corporation for an exception to Order No. R-3221, Chaves County, New Mexico.

If the Commission please, we have received a communication from Mobil Oil Company dated May 6, 1968, requesting that the case be dismissed.

MR. PORTER: If no objections, the case will be dismissed.

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STATE OF NEW MEXICO ) ) ss COUNTY OF BERNALILLO )

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Witness my Hand and Seal this 27th day of May, 1968.

Cia Dear Ley-NOTARY PUBLIC

My Commission Expires: June 19, 1971. 3