Case Number 213

Application Transcripts.

Small Exhibits

T/C

IN. DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY; BAILY COPY, CO.

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
August 5, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Mobil Oil Corporation ) for salt water disposal, Lea County, ) New Mexico.

Case No. 4393

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING



MR. UTZ: Case 4393.

MR. HATCH: Case 4393, Application of Mobil Oil Corporation for salt water disposal, Lea County, New Mexico. The Commission has received a request from the Applicant that the case he dismissed.

MR. UTZ: Case 4393 will be dismissed.

STATE OF NEW MEXICO ) COUNTY OF BERNALILLO )

I, SOVEIDA GONZALES, Court Reporter, 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.

CC'IRT REPORTER

I do hereby partify that the foregoing is a complete record of the New Mexico Oll Conservation Conscion



# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2008 - SANTA FE

August 12, 1970

GOVERNOR DAVID F. CARGO CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE SECLOSIST
A. L. PORTER, JR.
SECREVARY - DIRECTOR

Mr. James E. Sperling	Re:	Case No. 4393 Order No. R-4005
Modrall, Seymour, Sperling, Roehl Harris	&	Applicant:
Attorneys at Law - Box 2168 Albuquerque, New Mexico		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	. "		
Copy of order also sent to:			
Hobbs OCC X			.8
Artesia OCC		•	
Aztec OCC			
Other			 

# BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL COMSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF COMSIDERING:

> CASE No. 4393 Order No. R-4005

APPLICATION OF MOBIL OIL CORPORATION POR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

## ORDER OF THE CONMISSION

## BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 5, 1970, at Santa Pe, New Mexico, before Examiner Elvis A. Utz.

MOW, on this  $\frac{1/2\,\mathrm{th}}{}$  day of August, 1970, the Commission, a quorum being present, having considered the record and the recommendations of the Examiner, 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. 4393 is hereby dismissed.

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

STATE OF NEW MEXICO OLL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALS J. FRMIJO Mober

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

a H

J. R. MODRALL

JAMES E. SPERLING

JOSEPH E. ROEHL

GEORGE T. HARRIS, JR.

LELAND S. SEDBERRY, JR.

ALLEN C. DEWEY, JR.

FRANK H. ALLEN, JR.

JAMES P. SAUNDERS, JR.

JAMES A. PARKER

JOHN R. COONEY

KENNETH L. HARRIGAN
PETER J. ADANG
DALE W. EK
PETER J. BROULLIRE, III
CAMERON R. GRAHAM
DENNIS J. FALK
ANNE K. BINGAMAN
FARRELL L. LINES

LAW OFFICES OF

MODRALL, SEYMOUR, SPERLING, ROBHL & MARRIS

PUBLIC SERVICE BUILDING

P. O. BOX 2168

ALBUQUERQUE NEW MEXICO 87103

July 31, 1970

JOHN F. SIMMS (1865-1954) AUGUSTUS T. SEYMOUR (1907-1965)

> TELEPHONE 243-45II AREA CODE 505

pm

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission P. O. Box 2088
Santa Fe, New Mexico 37501

Re: Mobil Oil Corporation's Salt Water Disposal Application, Case No. 4393

Dear Mr. Porter:

On behalf of Mobil Oil Corporation, it is requested that the captioned application be dismissed.

Mery truly yours,

Janus 7

JES:jv

cc: Mr. Ira B. Stitt
Mobil Oil Corporation

## DOCKET: EXAMINER REARING - WEDNESDAY - AUGUST 5, 1970

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

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

# CASE 4385: (Continued from the July 15, 1970 Examiner Hearing)

Application of King Resources Company for a unit agreement, Otero County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Brokeoff Mountain Unit Area comprising 37,747 acres, more or less, of Federal, State and Fee lands in Townships 24, 25, and 26 South, Ranges 19 and 20 East, Otero County, New Mexico.

- CASE 4388: Application of Humble Cil & Refining Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, 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. Said exception would be for applicant's Florence B. Lusk, DeSmet Federal, and Hesse Federal leases located in Sections 6 and 7 of Township 15 South, Range 30 East, Double L Queen Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said leases in unlined surface pits located in the vicinity of said wells.
- CASE 4389: Application of Coastal States Gas Producing Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Upper Pennsylvanian formation through the perforated interval from 9789 to 9924 feet in its State "27" Well No. 2 located in Unit F of Section 27, Township 14 South, Range 32 East, Tulk-Fennsylvanian Pool, Lea County, New Mexico.
- CASE 4390: Application of Murphy R. Baxter for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the North E-K Queen Unit Area comprising 978 acres, more or less, of State lands in Township 17 South, Range 33 East, and Township 18 South, Ranges 33 and 34 East, E-K Yates-Seven Rivers-Queen Fool, Lea County, New Mexico.

Examiner Hearing - August 5, 1970 Docket No. 18-70

- CASE 4391: Application of Murphy H. Baxter for a waterflood project,
  Lea County, New Mexico. Applicant, in the above-styled
  cause, seeks authority to institute a waterflood project in
  its North E-K Queen Unit Area by the injection of water into
  the Queen formation through 4 wells located in Units A, D, F,
  and G of Section 7, Township 18 South, Range 34 East, E-K
  Yates-Seven Rivers-Queen Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby said project may be
  expanded administratively without a showing of well response.
- CASE 4392: Application of Southwestern Natural Gas, Inc. for the assignment of back allowable, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the assignment of back allowable to its Mershon Gas Comm Well No. 1 located in Unit A of Section 21, Township 22 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico, for the period from the date of completion of said well on September 22, 1969, to the date of connection of said well on June 4, 1970.
- CASE 4393: Application of Mobil Oil Corporation for salt water disposal,
  Lea County, New Mexico. Applicant, in the above-styled cause,
  seeks authority to dispose of produced salt water into the
  Devonian formation in the open-hole interval from 12,240 feet to
  12,463 feet in its Santa Fe Pacific Well No. 3 located in Unit
  M of Section 26, Township 9 South, Range 36 East, CrossroadsDevonian Pool, Lea County, New Mexico.
- CASE 4394: Application of Phillips Petroleum Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Plata Deep Unit Area comprising 5,600 acres, more or less, of Federal and State lands in Sections 8, 9, 10, 11, 14, 15, 16, 22 and 23 of Township 20 South, Range 32 East, Lea County, New Mexico.
- CASE 4395: Application of Consolidated Oil & Gas, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to dispose of produced salt water into the Abo formation in the perforated interval from 8915 to 8926 feet in its Shipp Well No. 1-17 located in Unit H of Section 17, Township 17 South, Range 37 East, Midway Abo Pool, Lea County, New Mexico.

Examiner Hearing - August: 5, 1970 Docket No. 18-70

CASE 4396: Application of Klabzuba, Munson and Seaman for a dual completion and salt water disposal, Chaves County, New Mexico.

Applicants, in the above-styled cause, seek authority to dually complete its (Varel) Avalanche Journal Well No. 1 located in Unit N of Section 18, Township 10 South, Range 28 East, Chaves County, New Mexico, in such a manner as to produce gas from the San Andres formation in the perforated interval from 2186 to 2204 feet of the Race Track (San Andres) Pool through the casing-tubing annulus and dispose of produced salt water through tubing into the San Andres formation of said pool in the perforated interval from 2262 to 2289 feet.

CASE 4397: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Rio Trust and all other interested persons to appear and show cause why the following Rio Trust wildcat wells located in Section 2, Township 1 North, Range 2 East, Rio Arriba County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

Little Chama Valley Co. Well No. 1 located 660 feet from the North line and 1380 feet from the West line;

Sargent Well No. 1 located 925 feet from the West line and 1445 feet from the South line.

# CASE 4267: (Reopciled)

In the matter of Case No. 4267 being recpened by the Oil Conservation Commission on its own motion to permit Edward M. Kriss and all other interested parties to appear and show cause why the Edward M. Kriss Little Chama Valley Company Well No. 1, a wildcat well, located 545 feet from the North line and 1530 feet from the West line of Section 2, Township 1 North, Range 2 East, Rio Arriba County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 4398: Application of Michael P. Grace and Corinne Grace for compulsory pooling and unorthodox gas well locations, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interets from the surface of the ground down to and including the Morrow formation underlying the N/2

Examiner Hearing - August 5, 1970 Docket No. 18-70 -4-

## (Case 4398 continued)

and the S/2 of Section 2, Township 23 South, Range 26 East, Eddy County, New Mexico, to form two 320-acre proration units for the production of gas from any or all zones of the Pennsylvanian formation. Said N/2 and S/2 to be dedicated to wells to be drilled respectively, at unorthodox locations 2500 feet from the North line and 330 feet from the East line of said Section 2 and 990 feet from the South line and 660 feet from the East line of said Section 2.

Also to be considered will be the costs of drilling said wells, a charge for the risk involved, provisions for the allocation of actual operating costs, and the establishment of charges for supervision of said wells.

# CASE 4354: (Continued from the July 1, 1970, Examiner Hearing)

Application of Michael P. Grace and Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the N/2 of Section 11, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, said acreage to be dedicated to a well to be drilled in either the NE/4 NW/4 or the NW/4 NE/4 of said Section 11, Also to be considered will be the costs of drilling 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.

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PRODUCTION DEPARTMENT TOM F. HILL Manager, Southwest Division CECIL A. COLVILLE
Assistant Division Manager



#### N OIL COMPANY FOONUS

July 17, 1970

Cuse 4393

Mr. A. L. Porter, Jr. New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

> Application to Dispose of Salt Water Crossroads Devonian Field Lea County, New Mexico

#### Gentlemen:

We have received a copy of the application of Mobil Oil Corporation requesting approval to dispose of salt water into the Devonian formation in its Santa Fe-Pacific well #3.

The Mobil-Santa Fe Pacific well #3 is located 660' FSL and 660' FWL of Section 26, T-9S, R-36-E, and it is our understanding it is proposed to dispose of 15,000 to 30,000 barrels per day in this wellbore.

This will serve as notice that <u>Sun Oil Company</u>, as operator of the offsetting J. D. Sawyer "A" property, <u>objects</u> to the Mobil application and proposal and requests that the matter be set for a public hearing unless the application is modified or withdrawn.

Yours very truly,

H. R. Huey

HRH/pls

cc: Mobil Oil Corporation Texaco, Inc.

Oil Development Company of Texas

J. R. MODRALL
JAMES E. SPERLING
JOSEPH E. ROEHL
GEORGE T. HARRIS, JR.
LELANO S. SEDBERRY, JR.
ALLEN C. DEWEY, JR.
FRANK H. ALLEN, JR.
JAMES P. SAIINDERS, JR.
JAMES A. PAL XER

JOHN R. COONEY KENNETH L. HARRIGAN PETER J. ADANG PETER J. ADANG
DALE W. EK
PETER J. BROULLIRE, III
CAMERON R. GRAHAM
DENNIS J. FALK LAW OFFICES OF

MODRALL, SEYMOUR, SPERLING, ROEHL & HARRIS

PUBLIC SERVICE BUILDING

P. O. BOX 2168

ALBUQUERQUE, NEW MEXICO 87103

July 10, 1970

JOAN F. SIMMS (1885-1954) AUGUSTUS T. SEYMOUR - (1907-1965)

TELEPHONE 243-45! AREA CODE 505

Care 4393

Mr. A. L. Porter, Jr. Secretary-Director New Mexico Oil Conservation Commission Santa Fe, New Mexico 87501

Mobil Oil Corporation's Application for Hearing to Consider Salt Water Disposal Crossroads Devonian Pool Lea County, New Mexico

Dear Mr. Porter:

Enclosed herewith, please find original and two copies of Mobil Oil Corporation's application for salt water disposal into the Devonian Formation, Lea County, New Mexico.

It would be appreciated if this matter can be set for hearing before an Examiner at the August 5, 1970 hearing.

Very truly yours,

James E. Sperling

JES:jv

Enclosures

Mr. Ira B. Stitt, w/encl. Mobil Oil Corporation

DOCKET MAILED

Date 7/23/70

# BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF MOBIL OIL CORPORATION FOR APPROVAL OF THE CONVERSION OF AN EXISTING WELL LOCATED IN UNIT M, SECTION 26, TOWNSHIP 9 SOUTH.

RANGE 36 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, CROSSROADS DEVONIAN POOL, FOR THE DISPOSAL OF PRODUCED CROSSROADS DEVONIAN SALT WATER INTO THE DEVONIAN FORMATION.

Case No. 4393

#### APPLICATION

- 1. Applicant, Mobil Oil Corporation, requests approval of the Commission for the conversion of the above-identified well, known as Mobil Oil Corporation's Santa Fe Pacific Well No. 3, for the disposal of produced salt water into the Devonian Formation. Said well is temporarily abandoned Crossroads Devonian completion.
- 2. Attached to this application is an area plat showing the location of said well, a log of the proposed disposal well, diagrammatic sketches of the proposed disposal well as presently completed and as proposed for completion as a disposal well, and Commission form C-108.
- 3. It is proposed to reenter said well, squeeze existing perforations from 12,212 ft. to 12,218 ft., drill 200 ft. of new hole to a total depth of 12,463 ft., and run 4-1/2 inch internally-coated casing set into a permanent packet at 6,800 ft. It is proposed to dispose of produced Crossroads Devonian water through the 4-1/2 inch casing into the Devonian Formation in the interval between 12,240 ft. and 12,463 ft. Estimated average rate will be 20,000 barrels per day at an approximate pressure of 200 pounds per square inch.

4. The Devonian Formation is productive of oil in the area.

WHEREFORE, Applicant requests that this matter be set for hearing before an Examiner at the August 5, 1970 hearing, and that following hearing and the presentation of testimony in support of this application, the Commission issue its order authorizing the conversion of said well and the disposal of produced salt water therein, all in accordance with this application.

Respectfully submitted,
MOBIL OIL CORPORATION

BY: MODRALL SEYMOUR SPERLING ROEHL & HARRIS

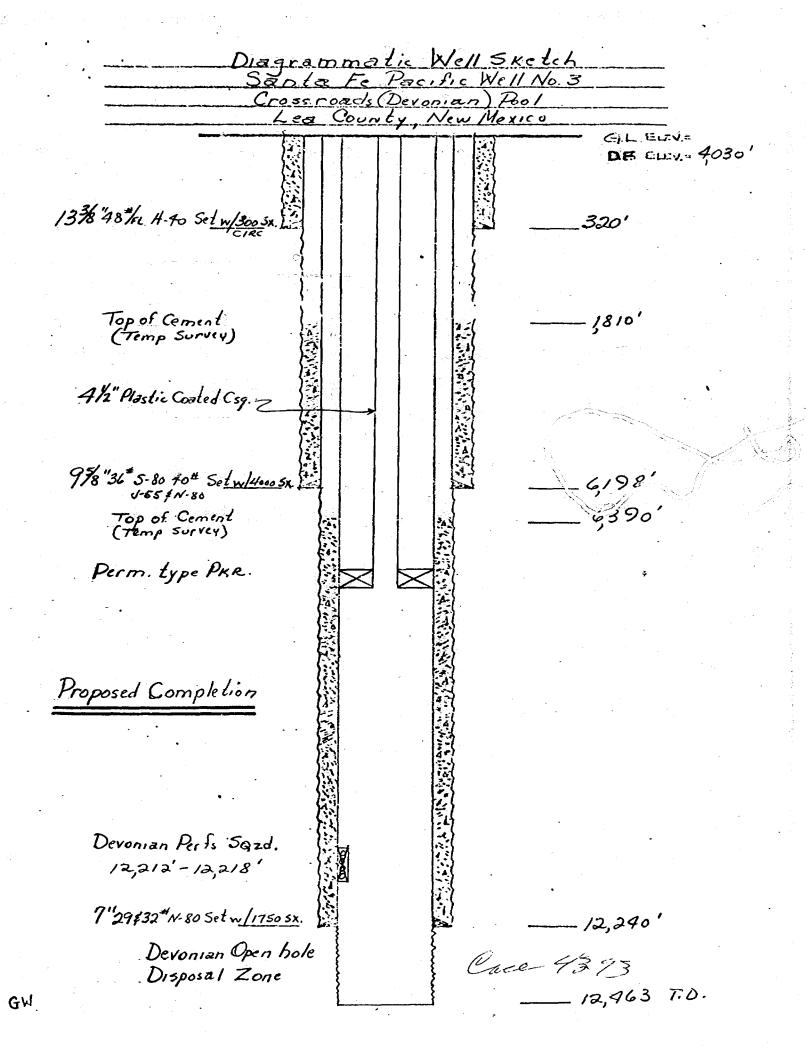
Narm ENA

James E. Sperling its attorneys 800 Public Service Building

P. O. Box 2168

Albuquerque, New Mexico 87103

Company of the Company	Santa Fe Pacific	ell Sketch
	Santa Fe Pacific	Well No 3
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And the second of the second o	9 % "36 /Fel. S-80 40 / s. S. J. June 2	A
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	Open hole Sozd.	
GW	$oldsymbol{W}$	Care 4393.



# NEW MEXICO OIL CONSERVATION COMMISSION

# APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR	83	<del></del>	ADDRESS						
Mobil Oil Corporat	ion		P. O. B	ox 633	, Midland,	Texas	7970ì		
LEASE HAME		WELL NO.	FIELD		<del></del>		COUNTY		
Santa Fe Pacific		3	Crossro	ads De	vonian	•	Lea 🦃		
LOCATION									
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SURFACE CASING		SCITING DEPTH	SACKS CEME		TOP OF CEME	-	TOP DETERMINED 81		
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	4-1/2"	6,800'	Permanent		t 6,800'				
NAME OF PROPOSED INJECTION FORMA	TION	•	TOP OF FORM			i .	F FORMATION		
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LIST ALL SUCH PERFORATED INTERVAL	S AND SACKS OF CE	MENT USED TO SEAL	OFF OR SQUEEZE EAC	н		L			
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20,000 15,000	30,000	E MIN- WATER		NATURAL	Pressure	ARE WATER	200 R ANALYSES ATTACHED?		
ERALIZED TO SUCH A DEGREE AS TO BE STOCK, IRRIGATION, OR OTHER GENERAL	E UNFIT FOR DOMES	TIC,	No	SAL ZONE			Yes		
NAME AND ADDRESS OF SURFACE OWNE	R (OR LESSEE, IF S	TATE OR FEDERAL LAN	10)	·					
Mrs. Dessie Sawyer							· · · · · · · · · · · · · · · · · · ·		
LIST NAMES AND ADDRESSES OF ALL C							•		
Oil Development Co.	of Texas	- 900 Polk St	reet, Amari	110, To	exas 79101	<u> </u>			
Sun Oil Company-DX	Division -	1101 Wilco F	Suildine Mi	dland	Toxas 797	701			
Dun Oli Company Di	<u></u>	1101 11100 1	, <u>, , , , , , , , , , , , , , , , , , </u>	<u>uranu,</u>	10140 77				
Texaco Inc Box 3	109, Midla	nd, Texas 79	701						
					<del></del>				
	·								
MAYE COPIES OF THIS APPLICATION BE SENT TO EACH OF THE FOLLOWING!	I		OF THIS WEL	L	ONE-HALF MILE	THE NEW I	MEXICO STATE ENGINEER		
	Ye		1	Yes		DIACRANICA	Yes		
ARE THE FOLLOWING ITEMS ATTACHED THIS APPLICATION (SEE RULE 701.B)	· ! . •		):  -	ELECTRICAL LOG			DIAGRAMMATIC SKETCH OF WELL		
	<u>Ye</u>			Yes			Yes		
hereby ce	rtify that the inf	ormation above is t	true and complete	e to the be	est of my knowle	eage and I	belief.		
De DATATA	Ira B. Stit	tt Divi	sion Operat	ions E	ngineer	1	Tuly 7, 1970		
(Signature)			(Title)				(Date)		

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well.

not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days
from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing,
if the applicant so requests. SEE RULE 701.

FORM C-1 (REV 1-60)

CARDINAL CHEMICAL, INC.

ODESSA, TEXAS

Phone: EMerson 6-4451

file Consumade Mer,

RESEARCH LABORATORY Phone: FEderal 2-7324

10-15-63

WATER ANALYSIS

Company Mobil Oil Company County Lease Santa Fe Pacific P. O. Box 2406 Address Hobbs, New Mexico Field Crossroads Well No. 8 12,231 Formation Devonian Depth Attention Mr. Harrison Date Sample 10-14-63 Recent Treatments Acidized with 1,500 gal. 15% MEC 7-31-63 Well Head Point

# CONSTITUENTS DETECTED

(Reported as parts per Million)

Specific Gravity	1,040 @ 76° F	ρΉ	6.2
Chloride	33,500	Calcium	1,649
Bicarbonate	703	Magnesium	1,632
Sulfate	1,720	Total Iron	Fair trace
Phosphate	-	Sodium	18,492
Total Hardness (as Ca CO <sup>3</sup> )	9,400	Sulfide	None detected

		TOTAL DISSOLVED SOLIDS 57,087																
Na 1000	8	7	6	5		;	3	2	1	0	ì 	2	3	4	5	6	<b>7</b>	8 C1 7 1000
Ca 100	-		+							<u> </u>	-							HCO <sup>3</sup>
Mg 100	}		-											, 		ļ	-	SO4 100
								<u> </u>				<u> </u>		1	<u> </u>	<u> </u>	<u> </u>	

Remarks:

/gg cc: BOBBS STATION

Analyst Betty Gobe

Care 43 93

## GMH/esr



# 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:

1

SHAF

CASE No. 4393

Order No. R- 4005

APPLICATION OF MOBIL OIL CORPORATION FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

# ORDER OF THE COMMISSION

# BY THE COMMISSION:

This cause came on for hearing at 9 elek a.m. on August 5, 19670, at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this <u>day of August</u>, 19670, the Commission, a quorum being present, having considered the record and the recommendations of the Examiner, 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. 4393 is hereby dismissed.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.