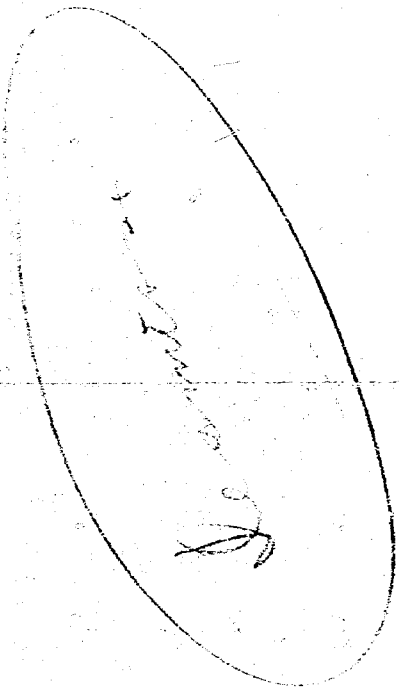


CASE 3331: Application of MARATHON  
OIL CO. for salt water disposal,  
Eddy County, New Mexico.



CASE NO.  
331

Application,  
TRANSCRIPTS,  
SMALL Exhibits  
ETC.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1A. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☒

## B. TYPE OF WELL

OIL WELL ☐GAS WELL ☐

OTHER Proposed SWD

SINGLE ZONE ☐MULTIPLE ZONE ☐

## 2. NAME OF OPERATOR

Marathon Oil Company

OCT 13 1965

## 3. ADDRESS OF OPERATOR

Box 220 Hobbs, New Mexico

O. C. C.

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1650' from south and west lines of Sec. 24

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

25 miles northwest of Carlsbad, N. M.

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drg. line, if any)

## 16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

4310' PB

## 20. ROTARY OR CABLE TOOLS

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3985' GR

## 22. APPROX. DATE WORK WILL START\*

OCT. 5, 1965

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

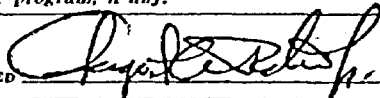
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Sinclair Oil and Gas Company drilled well as a Morrow - Upper Pennsylvanian dual. No gas of commercial quantity was encountered from 4 1/2" casing perforations in these zones. The well was temporarily abandoned January 18, 1965 following the squeezing of the perforations. PSTD was 7342'. We propose to complete the well as a salt water disposal well in the Indian Basin, completing in the Paddock zone if such formation is found, after appropriate testing, to be nonproductive of oil, gas, or fresh water. If the Paddock zone is found to contain oil, gas or fresh water, we propose to complete such well deeper, if necessary, and complete in such other porous formation as is found to be nonproductive of oil, gas or fresh water. Such well shall not be used for salt water disposal purposes until the well and the formation in which it is completed has been approved or accepted for salt water disposal by the USGS, the New Mexico Oil Conservation Commission, and the office of the New Mexico State Engineer.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED



TITLE

Area Supt.

DATE

10-5-65

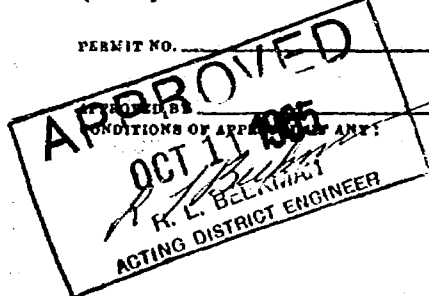
(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

TITLE

DATE



\*See Instructions On Reverse Side

222 3331

# NEW MEXICO OIL CONSERVATION COMMISSION APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR <b>Marathon Oil Company</b>		ADDRESS <b>P. O. Box 220, Hobbs, New Mexico</b>	
LEASE NAME <b>Marathon Federal (Formerly Operated by Sinclair)</b>	WELL NO. <b>1</b>	FIELD <b>Undesignated</b>	COUNTY <b>Eddy</b>
LOCATION <b>West</b>	UNIT LETTER <b>K</b>	WELL IS LOCATED <b>1650</b>	FEET FROM THE <b>South</b> LINE AND <b>1650</b> FEET FROM THE
LINE, SECTION <b>24</b>	TOWNSHIP <b>21S</b>	RANGE <b>23E</b>	NMPM.

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13 3/8	125	200	Circ.	-
INTERMEDIATE	9 5/8	2250	1560	Circ.	-
LONG STRING	4 1/2	9650	1250 sx. thru perfs. 4495' - 4860		circulated to surface Temperature Sur.
TUBING	2 3/8	2500	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Johston 101-S @ approx. 2450'</b>		
NAME OF PROPOSED INJECTION FORMATION <b>Paddock</b>			TOP OF FORMATION <b>2185 (+1600)</b>	BOTTOM OF FORMATION <b>3080 (+705)</b>	

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>	PERFORATIONS OR OPEN HOLES <b>Perforations</b>	PROPOSED INTERVAL(S) OF INJECTION <b>2534' to 2540'; 2571' to 2577'; 2719' to 2726'</b>	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>Yes</b>
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Gas production from Morrow and/or Cisco Canyon formations</b>		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>9336-42' &amp; 9526-34' - squeezed w/100 sx., 7496-7506' - squeezed w/95 sx.</b>			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>1905</b>	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>None</b>	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>Approx. 6200'</b>	APPROX. PRESSURE (PSI) <b>Unknown</b>
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) <b>382</b>	MINIMUM <b>Unknown</b>	MAXIMUM <b>Unknown</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - <b>Yes</b>		WATER TO BE DISPOSED OF <b>Yes</b>	NATURAL WATER IN DISPOSAL ZONE <b>Yes</b>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>W. H. Shafer, Queen Rt., Carlsbad, New Mexico</b>		ARE WATER ANALYSES ATTACHED? <b>No</b>	
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>Ralph Lowe, Box 832, Midland, Texas</b> <b>Sinclair Oil &amp; Gas Co., Box 1926, Hobbs, New Mexico</b> <b>Also 1 copy to USGS</b>			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? <b>Yes</b>		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>Yes</b>	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)? <b>Yes</b>		ELECTRICAL LOG <b>Yes</b>	
I hereby certify that the information above is true and complete to the best of my knowledge and belief.		THE NEW MEXICO STATE ENGINEER <b>Yes</b>	
(Signature) <i>Robert C. State</i>		DIAGRAMMATIC SKETCH OF WELL <b>Yes</b>	

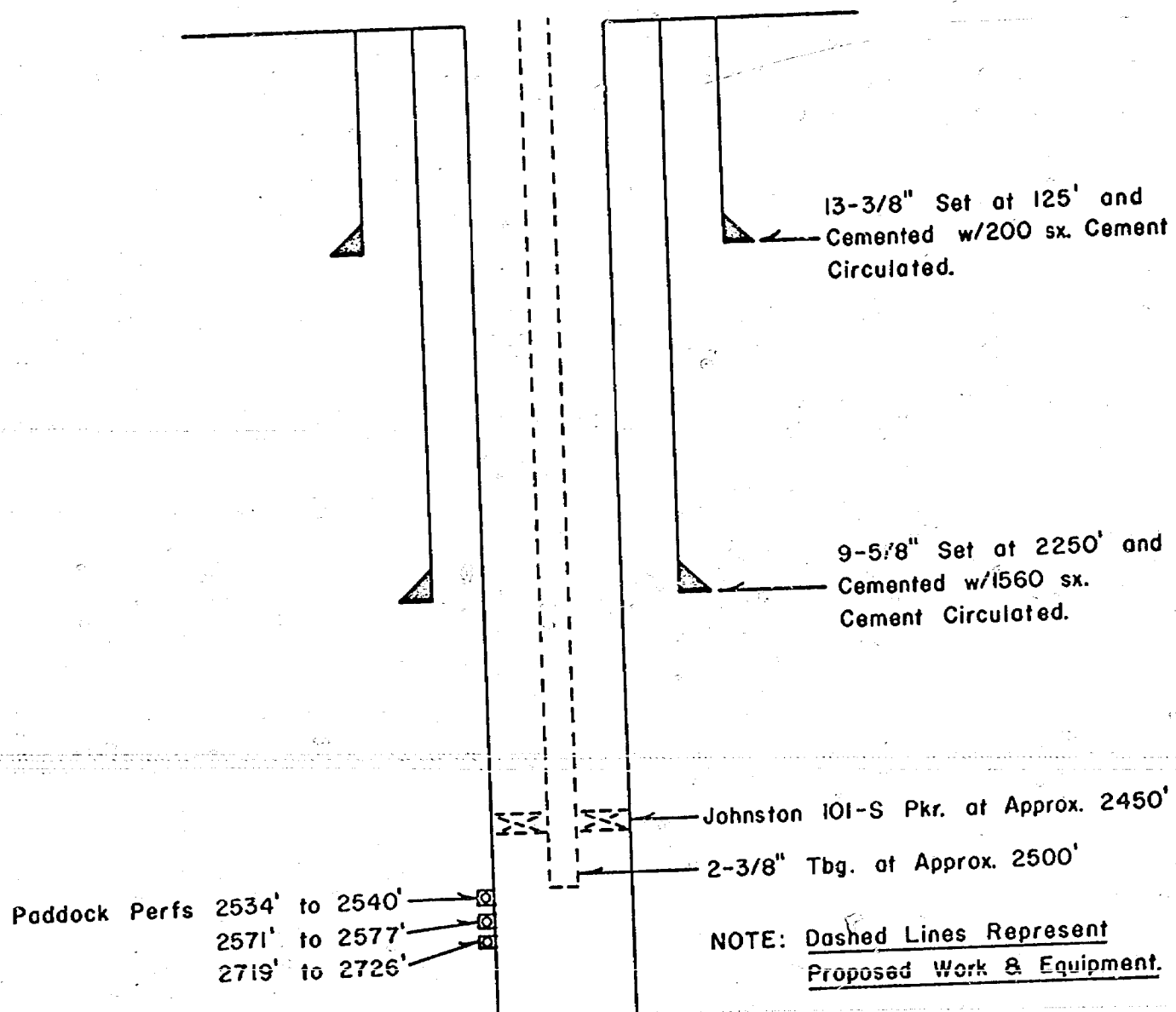
NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day period a 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.

Date 10-22-65



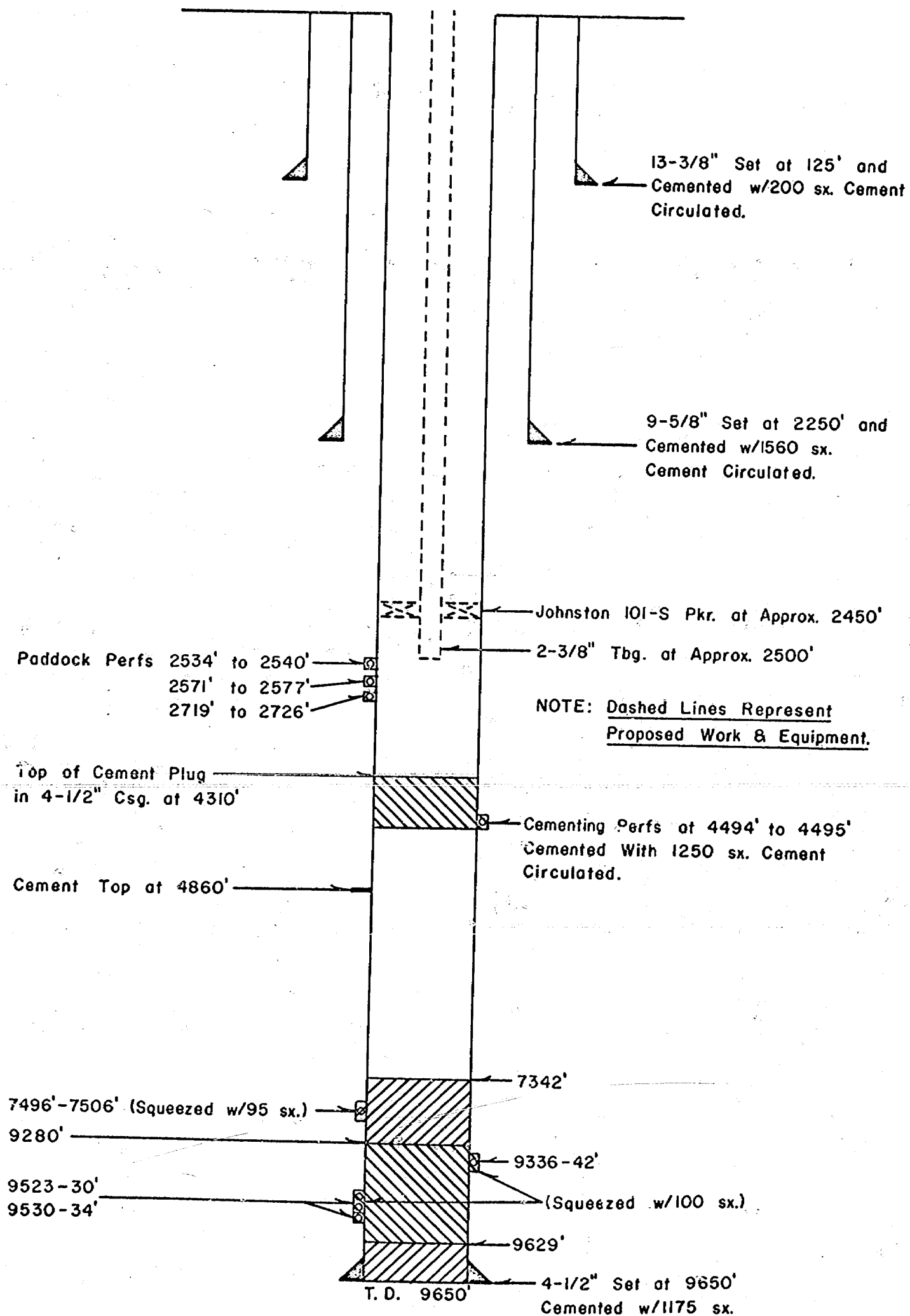
MARATHON OIL COMPANY  
"Diagrammatic Sketch of Proposed Disposal Well"  
Marathon Federal, Well No. 1  
INDIAN BASIN AREA  
Eddy Co., New Mexico  
Scale: None

Case 3331



MARATHON OIL COMPANY  
 "Diagrammatic Sketch of Proposed Disposal Well"  
 Marathon Federal, Well No. 1  
 INDIAN BASIN AREA  
 Eddy Co., New Mexico  
 Scale: None

Case 3331



*Case file*



MARATHON OIL COMPANY

PRODUCTION - UNITED STATES AND CANADA

HOUSTON DIVISION

J. O. TERRELL COUCH  
DIVISION ATTORNEY

JOHN H. BEVAN, JR.  
WARREN B. LEACH, JR.  
JACK FARISS  
ATTORNEYS

SOUTHERN NATIONAL BANK BUILDING  
P. O. BOX 3123  
HOUSTON, TEXAS 77001

October 29, 1965

Mr. J. M. Durett, Jr.  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

RE: Examiner's Hearing November 3, 1965  
Case No. 3331  
Marathon Oil Company's Application  
for Salt Water Disposal, Eddy County,  
New Mexico

Dear Jim:

You will remember that before filing Marathon's application in the referenced matter, I discussed with you the possibility that the State Engineer might have some objection to Marathon's application primarily because of the fact that there was not a great deal of information available as to the quality of the water to be disposed of. We asked you to put Marathon's application on the docket for hearing so that it could be heard in the event an objection was received by the Commission within the fifteen-day period following the receipt by the Commission of Marathon's application.

Since my first conversation with you concerning the matter, Marathon personnel visited with Mr. Frank Irby and following such visit, Mr. Irby addressed a letter to Mr. Porter dated October 22, 1965, in which the State Engineer's Office advised that it offered no objection to the granting of Marathon's application, provided monthly analyses of the water to be disposed of are submitted starting with the commencement of production and continuing for a period of six months. This condition is entirely satisfactory to Marathon. As is more clearly reflected in Mr. Irby's letter of October 22nd, the State Engineer offers no objection to the granting of Marathon's application and so far as I know, no other objection has been filed.

I believe that the fifteen-day waiting period before which Marathon's application could be granted administratively will expire on the first or second of November. If no objection has been filed at the end of



Mr. J. M. Durett, Jr.

New Mexico Oil Conservation Commission -2-

October 29, 1965

the fifteen-day period, I will appreciate your dismissing the referenced case when it is called for hearing. I would further appreciate the Secretary-Director considering Marathon's application and if he finds it in order, granting same administratively. Should the Secretary-Director feel that he needs any additional information before acting administratively on the application, I would appreciate your letting Marathon know and we will promptly send or bring the additional data to Santa Fe.

In my application dated October 14th, I mentioned that Marathon anticipates that there may be a necessity to commence salt water disposal operations in the Indian Basin Area as early as the first part of December, 1965. We, therefore, need to have some decision on our application to use the well described in the application as the disposal well at the earliest possible date. We feel that should an objection to Marathon's application be received by the Commission and the referenced case be continued to the next Examiner's hearing, Marathon would not be able to get a decision on the application and be ready to commence disposal operations in sufficient time. Should the Commission receive an objection to Marathon's application, we will be ready to present our case on November 3rd and request that the same may not be continued. I will contact you again prior to the November 3rd hearing date to determine whether an objection has been received and whether it will be safe to dismiss the referenced case.

I hope that this matter has not caused you any trouble. However, as you can probably surmise, Marathon is in somewhat of a problem timewise and we need to be sure that we have some acceptable way of disposing of our produced water.

Very truly yours,



WARREN B. LEACH, JR.

WBL:CH

Docket No. 31-65

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 3, 1965

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 3327: Application of Texaco Inc. for an allowable increase, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to statewide Rule 505 (a) and 505 (b) to increase the 40-acre proportional factor from 1.33 to 1.77 for the Vacuum-Glorieta Pool, Lea County, New Mexico.

CASE 3328: Application of Texaco Inc. for force pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force pooling all mineral interests in the Basin-Dakota Pool underlying the N/2 of Section 36, Township 30 North, Range 12 West, San Juan County, New Mexico.

CASE 3329: Application of Tenneco Oil Company for directional drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to recomplete by means of directional drilling the following wells:

Township 29 North, Range 9 West  
Florance No. 24, Unit A, Section 23

Township 30 North, Range 8 West  
Florance No. 36, Unit H, Section 3  
Florance No. 35, Unit A, Section 18

Township 30 North, Range 9 West  
Florance No. 5, Unit A, Section 22  
Mansfield No. 1, Unit P, Section 19

All of the above wells are presently completed in the Blanco-Mesaverde Pool. Applicant proposes to set a whipstock above the Mesaverde producing interval and to directionally drill, recompleting said wells in the Mesaverde formation, and in some instances, to further drill to the Dakota producing interval thereby permitting dual completion of the wells to produce gas from the Blanco-Mesaverde and Basin-Dakota Gas Pools. Applicant further proposes to conduct appropriate deviation tests to ensure that none of the wells is completed nearer than 200 feet to the outer boundaries of its proration unit.

CASE 3330: Application of Anadarko Production Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Grayburg Premier Sand formation through five wells in Sections 25 and 26, Township 17 South, Range 30 East, Grayburg Jackson Pool, Eddy County, New Mexico.

NOVEMBER 3, 1965 EXAMINER HEARING

CASE 3331: Application of Marathon Oil Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Paddock-Yeso formation in its Federal Well No. 1 in Unit K of Section 24, Township 21 South, Range 23 East, Eddy County, New Mexico.

CASE 3323: (Continued from the October 19, 1965, Examiner Hearing)  
Application of David Fasken for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of his Felmont-Collier Well No. 1 located in Unit H of Section 9, Township 11 South, Range 33 East, Lea County, New Mexico, to produce oil from the North Bagley Upper and Lower Pennsylvanian Pools through parallel strings of tubing.



*Case 100*  
**MARATHON OIL COMPANY**

PRODUCTION - UNITED STATES AND CANADA  
HOUSTON DIVISION

J. O. TERRELL COUCH  
DIVISION ATTORNEY

JOHN H. BEVAN, JR.  
WARREN B. LEACH, JR.  
JACK FARISS  
ATTORNEYS

Mr. J. M. Durrett, Jr.  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

RE: Examiner's Hearing November 3, 1965  
Case No. 3331  
Marathon Oil Company's Application  
for Salt Water Disposal, Eddy County,  
New Mexico

Dear Jim:

In connection with the referenced matter, I understand that fifteen days have expired from the date of the Commission's receipt of Marathon's application in the referenced case. I understand, however, that even though the Commission might now grant the application administratively, you feel that the matter must remain on the docket in order to determine whether someone might be there to protest the granting of Marathon's application. Should someone be there to protest on November 3rd, I would appreciate your continuing the referenced matter, if possible, to the regular monthly Commission Hearing, which I understand is on November 17th. Should it be impossible to continue the case to the 17th for hearing before the full Commission, I would appreciate your continuing the case until the next regular Examiner's Hearing if it is impossible to set the case for Special Hearing at a prior date. I am inclined to believe that no one will be there to protest the granting of Marathon's application, in which event I understand that you will dismiss the case and Marathon's application will then be granted administratively.

I appreciate your assistance and cooperation in all of the above matters in connection with this case.

Very truly yours,

*Warren B. Leach Jr.*  
Warren B. Leach, Jr.

WBL:CH

*SWD 55*  
MAIN  
NOV 3 1965  
SOUTHERN NATIONAL BANK BUILDING  
P. O. BOX 3128  
HOUSTON, TEXAS 77001

November 1, 1965

State of New Mexico  
Oil Conservation Commission



P. O. BOX 2088  
SANTA FE

 $\bar{A}\bar{L}\bar{P}/ir$

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. 3331  
Order No. R-2996

APPLICATION OF MARATHON OIL COMPANY  
FOR SALT WATER DISPOSAL, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 3, 1965, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 9th day of November, 1965, 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. 3331 is hereby dismissed.

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



STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*Jack M. Campbell*  
JACK M. CAMPBELL, Chairman

*Gustav B. Hays*  
GUSTAV B. HAYS, Member

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

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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PAGE 1

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
November 3, 1965

EXAMINER HEARING

IN THE MATTER OF:

Application of Marathon Oil Company for  
salt water disposal, Eddy County, New  
Mexico. Applicant, in the above-styled  
cause, seeks authority to dispose of  
produced salt water into the Paddock-  
Yeso formation in its Federal Well No. 1  
in Unit K of Section 24, Township 21  
South, Range 23 East, Eddy County, New  
Mexico.

Case No. 3331

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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1213 FIRST NATIONAL BANK EAST • PHONE 256-1294 • ALBUQUERQUE, NEW MEXICO

PAGE 2

MR. UTZ: The hearing will come to order, please. The first case on the docket will be Case 3331, application of Marathon Oil Company for salt water disposal, Eddy County, New Mexico.

MR. DURRETT: If the Examiner please, I would like to state for the record that this case was advertised for hearing although the application was eligible for administrative approval, as Mr. Warren Leach felt there might be a possibility of an objection being made to the application.

If there are no objections here today, in view of the fact that it was eligible for administrative approval, I move the Examiner to dismiss the case.

MR. UTZ: Any appearances in Case 3331 in the room today? There does not appear to be any, and the case is dismissed.

\* \* \* \* \*



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STATE OF NEW MEXICO )  
 ) ss  
COUNTY OF BERNALILLO )

I, ADA DEARNLEY, Court Reporter - Notary Public, 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 4th day of November, 1965.

Ada Dearnley  
Court Reporter - Notary Public

My Commission Expires:

June 19, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Exemption hearing of Case No. 3321, heard by me on 11-3-65.

Thurman L. ... Examiner  
New Mexico Oil Conservation Commission







DRAFT

JMD/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:

CASE No. 3331

Order No. R- 2996

APPLICATION OF MARATHON OIL COMPANY  
FOR SALT WATER DISPOSAL, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on  
November 3, 1965, at Santa Fe, New Mexico, before Examiner  
Elvis A. Utz.

NOW, on this \_\_\_\_\_ day of November, 1965, 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. 3331 is hereby dismissed.

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

Weather Dist. with, August 11-1902

App's seeks authority to dispose of produced  
salt water into ~~the black rock~~ the black rock formation in the  
Federal well No 1 in Unit K of S. 24 T. 21 S  
R. 23 E, ~~underlying~~ at Paducah County

Warren Leach  
Carter