

CASE 2646: Application of TEXACO INC.
for permission to dispose of salt
water into the Devonian formation.

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Oct. 24th.

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CASE 2646: Application of TEXACO INC.
for permission to dispose of salt
water into the Devonian formation.

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Oct. 24th.

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2646

Section, Transcript,

// Exhibits, Etc.

DRAFT

JMD/esr
October 26, 1962

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. 2646

Order No. R- 2353

APPLICATION OF TEXACO INC.
FOR PERMISSION TO DISPOSE OF
SALT WATER, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 24, 1962, at Santa Fe, New Mexico, before Elvis A. Utz Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this day of October, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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, Texaco Inc., is the operator of the Shell State of New Mexico "A" Well No. 3, located 990 feet from the South line and 660 feet from the West line of Section 2, Township 11 South, Range 37 East, NMPM, Lea County, New Mexico, Echols (Devonian) Pool.

(3) That the applicant proposes to dispose of produced salt water into the Devonian formation at a depth of approximately 11,662 to 11,600 through 11,712 feet.

(4) That the injection should be accomplished through 2 3/8-inch tubing; that the annulus should be filled with a non-corrosive fluid; and that a pressure gauge should be attached to the annulus in order to determine leakage in the tubing or packer.

(5) That a permanent type packer should be set at approximately 11,600 feet.

(5) That approval of the subject application will not impair production of oil, gas, or fresh water, and will neither cause waste nor impair correlative rights.

(6) That the injection of salt water into the Devonian formation will not cause damage to the reservoir or to the injection well.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to dispose of produced salt water into the Devonian formation through the Shell State of New Mexico "A" Well No. 3, located 990 feet from the South line and 660 feet from the West line of Section 2, Township 11 South, Range 37 East, NMPM, Lea County, New Mexico, with the injection interval from ^{11,662}~~11,600~~ to 11,712 feet.

PROVIDED HOWEVER, That the salt water shall be injected through 2 3/8-inch tubing installed in a permanent-type packer set at approximately 11,600 feet; that the annulus of the tubing shall be filled with a non-corrosive fluid; and that a pressure gauge shall be attached to the annulus in a manner that will determine tubing or packer leakage.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.

(3) 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 herein-above designated.

Is the water to be disposed of mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

Is any water occurring naturally within the proposed disposal formation mineralized to such a degree as to be unfit for domestic, stock, irrigation, and/or other general use? Yes

List all offset operators to the lease on which this well is located and their mailing address

Sinclair Oil & Gas Company, Midland Savings Bldg. Midland, Texas

Shell Oil Company, P. O. Box 1858, Roswell, New Mexico

Humble Oil & Refining Company, P. O. Box 2347, Hobbs, New Mexico

Carper Drilling Company, Inc., 200 Carper Bldg. Artesia, New Mexico

Lubbock Avalanche-Journal, Lubbock, Texas

Name and address of surface owner Roy B. Thompson, Box 143, Clovis, New Mexico

Have copies of this application been sent by registered mail or given to all offset operators, surface owners, and to the New Mexico State Engineer? Yes (9-17-62)

Is a complete electrical log of this well attached? No

Operator: Texaco Inc.

By: C. R. Black
C. R. Black

Title: Division Proration Engineer

STATE OF Texas)

County of Midland)

BEFORE ME, The undersigned authority, on this day personally appeared C. R. Black known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN TO before me this the 17 day of September, 19 62.

Betty R. Davis BETTY R. DAVIS
Notary Public in and for the County of Midland

June 1, 1963
My Commission Expires

NOTE: Should waivers from all offset operators, the surface owner, and the State Engineer not accompany an application, the New Mexico Oil Conservation Commission will hold the application for a period of fifteen (15) days from date of receipt by the Commission's Santa Fe office. If at the end of said fifteen-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Revised 9 16 58

APPLICATION FOR PERMIT TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION
NOT PRODUCTIVE OF OIL OR GAS

Operator Texaco Inc. Address P. O. Box 3109, Midland, Texas
Lease State A Well No. 3 County Lea
Unit M Section 2 Township 11-S Range 37-E

This is an application to dispose of salt water produced from the following pool(s):
Echols Devonian

Name of Injection Formation(s) Devonian
Top of injection zone: 11,662 Bottom of injection zone: 11,712
Give operator, lease, well no., and location of any other well in this area using this same
zone for disposal purposes None

CASING PROGRAM

	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	13-3/8"	362'		
Intermediate	8-5/8"	4298'	300	Circulated
Long String	5-1/2"	11,690'	2500	Circulated
			350	11,000 (Estimated)

Will injection be through tubing, casing, or annulus? Tubing

Size tubing: 2" EUE Setting depth: 11,600 Packer set at: 11,600

Name and Model No. of packer: Baker Model "D" (Proposed)

Will injection be through perforations or open hole? Both

Proposed interval(s) of injection: Perforations 11,662-11,682; Open Hole 11,690-11,712

Well was originally drilled for what purpose? Oil

Has well ever been perforated in any zone other than the proposed injection zone? Yes

List all such perforated intervals and sacks of cement used to seal off or squeeze each:
Open hole from 11,712 to 11,750. 21 runs w/Welex squeeze gun (178.5 gal.)
Capped with 16 gal. Hydromite

Give depth of bottom of next higher zone which produces oil or gas: Wolfcamp at approximately 9200' but not productive in this immediate area.

Give depth of top of next lower zone which produces oil or gas: None

Give depth of bottom of deepest fresh water zone in area: Approximately 280'

Expected volume of salt water to be injected daily (barrels) 1500

Will injection be by gravity or pump pressure? pump Estimated pressure: 750 psi

Is system open or close type? close Is filtration or chemical treatment necessary? No

GILBERT, WHITE AND GILBERT
ATTORNEYS AND COUNSELORS AT LAW
BISHOP BUILDING
SANTA FE, NEW MEXICO

CARL H. GILBERT
L. C. WHITE
WILLIAM W. GILBERT
SUMNER S. KOCH
WILLIAM B. KELLY

September 26, 1962

*Oct 24th
Ex hearing*

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Ida Rodriguez

Re: Texaco Inc. case No. 2646

Gentlemen:

It is respectfully requested that the hearing of Texaco's application for permission to dispose of salt water through the Shell State of New Mexico "A" Well No. 3, located in Section 2, Township 11 South, Range 37 East, be continued until the Examiner hearing the latter part of October, 1962. The application is presently set for hearing Thursday, September 27, 1962, being case No. 2646.

Very truly yours,

L. C. White
L. C. WHITE

LCW/ab

DOCKET MAILED

Date 10-11-62 *gn*



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

September 26, 1962

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

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

Dear Mr. Porter:

Reference is made to the application of Texaco, Inc., which seeks to dispose of salt water by injection into a porous formation not productive of oil or gas. The well into which injection will be made is Shell Oil Co., State A No. 3, located in Lea County, Unit M, Section 2, Township 11 South, Range 37 East. The application states that injection will be through 2 inch tubing, set at 11,600 feet with a packer at the lower end of the tubing. Packer is proposed to be a Baker Model "D". Since injection will be through tubing under a packer set well below the top of the cement outside the 5½ inch casing, it appears that no threat of contamination will occur to the fresh water which may exist in the area. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds
State Engineer

FEI/ma
cc-Texaco, Inc.
Mr. L. C. White
F. H. Hennighausen

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Division

DOCKET MAILED

Date 10-11-62

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

September 20, 1962

C
O
P
Y

Ralph Lowe
P. O. Box 832
Midland, Texas

Attention: Fred G. Goodman

Gentlemen:

Reference is made to your letter of September 18, 1962, inquiring as to your rights to object to Texaco's proposed injection of water as covered by Case No. 2646 scheduled for hearing on September 27th.

You may object to Texaco's proposal by written objection or by personal appearance at the hearing. Personal appearance may include offering of sworn testimony on geological or engineering evidence as to reasons for objection, if you desire. Normally personal appearance can be regarded as more effective than written objection in a case of this nature.

Very truly yours,

DANIEL S. NUTTER
Chief Engineer

DSN/esr

Ralph Lowe

Phone MU 4-7441

Box 832 Midland, Texas
September 18, 1962

New Mexico Oil Conservation Commission
Santa Fe
New Mexico

Attention: Mr. A. L. Porter

Re: S/2 S/2 Section 2
T-11-S, R-37-E
Lea County, New Mexico

Gentlemen:

We are the successful bidder on a state tract referred to above which was offered for sale on September 18, 1962.

We have noted that Case No. 2646 pertaining to Texaco, Inc., wishing to inject water into the No. 3 Shell State "A", located 990 feet from south line and 660 feet from west line of Section 2, T-11-S, R-37-E, Echols Devonian Pool, has been presented to you for hearing. We wish at this time to inquire as to what right we might have to prevent the injection of this water as proposed in Case No. 2646.

We shall appreciate hearing from you at your early convenience.

Yours very truly,

RALPH LOWE

By:


Fred G. Goodman

FGG:br

cc: Mr. E. S. Walker
Commissioner of Public Lands
Santa Fe, New Mexico

TEXACO
INC.

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT
MIDLAND DIVISION



P. O. BOX 3109
MIDLAND, TEXAS

September 4, 1962

New Mexico Oil Conservation Commission
Box 871
Santa Fe, New Mexico

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

Gentlemen:

Texaco Inc. respectfully requests that a hearing be set to consider its application to dispose of salt water into the producing formation in the Echols (Devonian) Field, Lea County, New Mexico. Disposal will be into the Shell State of New Mexico "A" Well No. 3 located 990' from the south line and 660' from the west line of Section 2, T-11-S, R-37-E, Lea County, New Mexico.

At the present time this well is operated by the Shell Oil Company; however, it has ceased to produce from this Devonian reservoir. Shell has advised Texaco of their plans to abandon this well; however preliminary negotiations between Texaco and Shell have been completed and if this application is granted Texaco will purchase this well from the Shell Oil Company.

It is respectfully requested that this application be set on the first available examiner hearing docket. If you should have any question concerning this matter, please advise.

Yours very truly,

C. R. Black

C. R. Black
Assistant Division
Proration Engineer

CRB:jh

cc: Shell Oil Company
P. O. Box 1858
Roswell, New Mexico

*Dockets
mailed
9/12/62
JR*

DOCKET MAILED

Date 10-11-62
DR

Ralph Lowe

Phone MU 4-7441

Box 832 Midland, Texas

October 5, 1962

DOCKET MAILED

Shell Oil Company
P. O. Box 1858
Roswell, New Mexico

Date 10/11/62
Attention: Mr. R. L. Rankin

Texaco, Inc.
P. O. Box 3109
Midland, Texas

Attention: Mr. John Ross

Re: Our Lease No. 2818
Shell State A-3
Echols Devonian Field
Lea County, New Mexico

Gentlemen:

We recently asked you to hold off temporarily your request in Case No. 2646 regarding injection of salt water into the Devonian formation until such time as we could decide whether or not we wish to attempt completion in the San Andres formation on the oil and gas lease purchased by us and covering the lands on which your disposal well is located.

We appreciate very much your fine cooperation in this matter and we wish to advise at this time that we no longer oppose the injection of salt water into the Devonian formation in the Shell State A-3 Well. We do ask, however, that you stop using the San Andres formation in any well on this lease for salt water disposal since we will in the very near future attempt to re-enter one or more of the abandoned wells drilled by Shell on this lease.

Thank you again for your cooperation in this matter.

Yours very truly,

RALPH LOWE

FG:br

By:
Fred G. Goodman

cc: Mr. A. L. Porter, Jr.
Oil Conservation Commission
Santa Fe, New Mexico



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470

MIDLAND, TEXAS

September 20, 1962

MIDLAND DIVISION

Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

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

Gentlemen:

Please refer to Case 2646, Application of Texaco, Inc. for permission to dispose of salt water in the Echols-Devonian Pool, Lea County, New Mexico. It is our understanding that Texaco proposes to dispose of produced salt water by injecting same into the Devonian formation in the Shell-State of New Mexico A, Well No. 3 located 990' from the South line and 660' from the West line of Section 2, T-11-S, R-37-E. This matter is scheduled for hearing September 27, 1962.

Sinclair Oil & Gas Company has no objection to the salt water disposal project described above and hereby waives their right to notice and hearing on same.

Yours very truly,

Joe Mefford
Division Production Supt.

JM:RMA:lw

Orig.&3cc: Texaco, Inc.
P. O. Box 1270
Midland, Texas

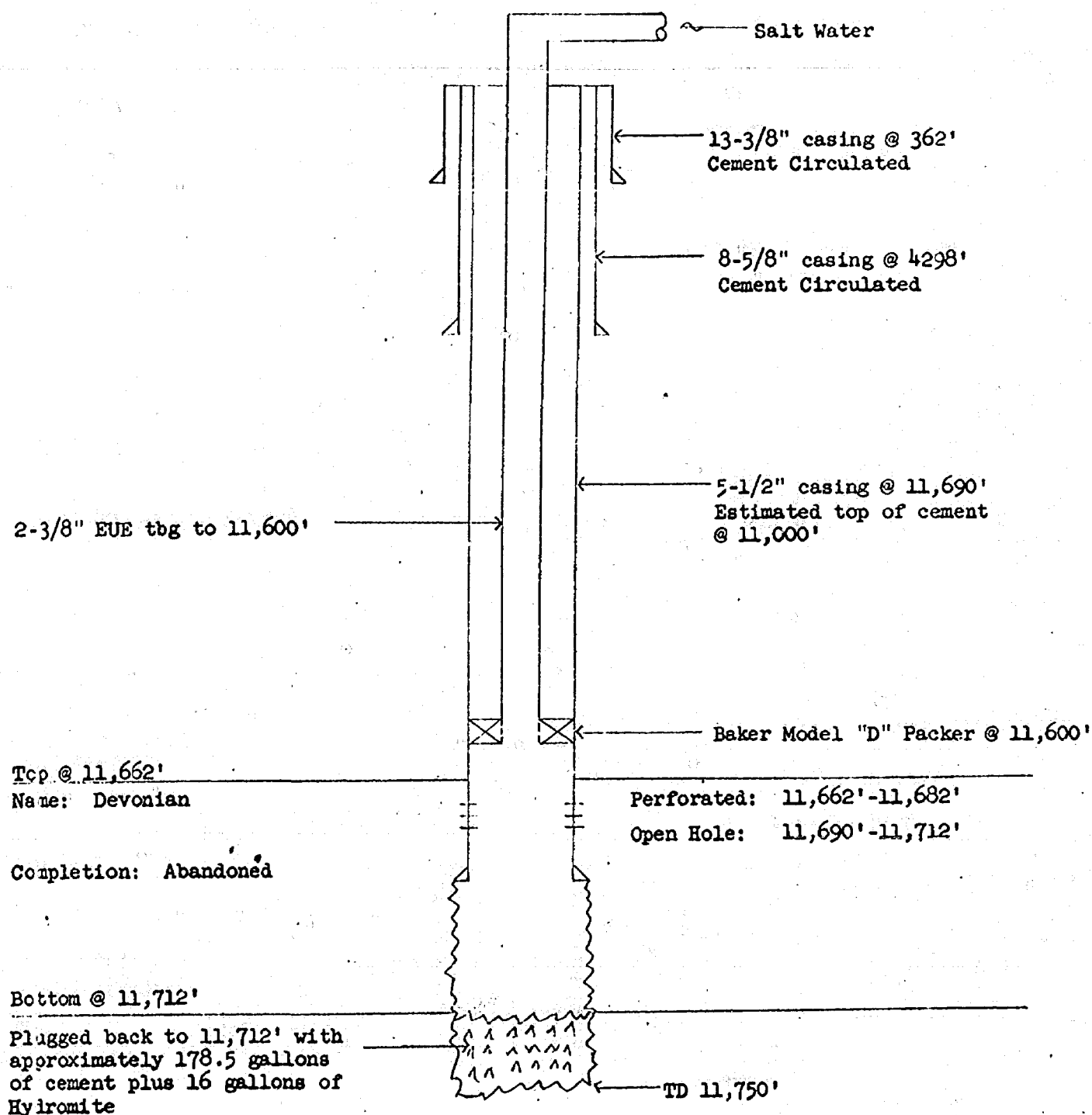
BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 5

CASE NO. 2656

DIAGRAMATIC SKETCH OF SALT WATER DISPOSAL INSTALLATION



COMPANY: TEXACO Inc.
 FIELD: Echols - Devonian
 LEASE: State A Well No. 3 (Shell Oil Company)
 DATE: September 20, 1962

BEFORE EXAMINER UTZ
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. 3
 CASE NO. 2646

- CASE 2672: Application of Skelly Oil Company for approval of a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Dollarhide Queen Sand Unit Agreement comprising 2563 acres, more or less, of State, Federal and fee lands in Townships 24 and 25 South, Range 38 East, Lea County, New Mexico.
- CASE 2673: Application of Skelly Oil Company for a secondary recovery project, West Dollarhide Queen Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a secondary recovery project in the West Dollarhide Queen Pool with the injection of water into the Queen formation through 28 wells located in Sections 19, 29, 30, 31, and 32, Township 24 South, Range 38 East, and Sections 4, 5, and 6, Township 25 South, Range 38 East, Lea County, New Mexico, said project to be governed by the provisions of Rule 701.
- CASE 2674: Application of Texaco Inc. for two non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of two 120-acre non-standard gas proration units in the Eumont Gas Pool, Lea County, New Mexico, the first to comprise the E/2 SE/4 of Section 30 and the NE/4 NE/4 of Section 31, Township 21 South, Range 36 East, to be dedicated to its J. K. Rector Well No. 2, located in Unit P of said Section 30. The second unit would comprise the W/2 SE/4 of Section 30 and the NW/4 NE/4 of Section 31, Township 21 South, Range 36 East, and would be dedicated to its J. K. Rector Well No. 3 located in Unit J of said Section 30.
- CASE 2675: Application of Shar-Alan Oil Company for an unorthodox well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks permission to drill its No. 1-A Jicarilla "F" Well No. 160 at an unorthodox well location 2310 feet from the North and East lines of Section 13, Township 23 North, Range 2 West, South Blanco-Pictured Cliffs Pool, Rio Arriba County, New Mexico.
- CASE 2676: Application of Gulf Oil Corporation for an unorthodox location, and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Lillie Well No. 3 in the Fowler-Fusselman and Fowler-Ellenburger Pools, Lea County, Mexico. Said well is presently completed in the Fowler-Fusselman Pool at an unorthodox Fowler-Ellenburger location 2310 feet from the North line and 330 feet from the West line

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 24, 1962

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, as alternate examiner:

CASE 2646: (Continued)

Application of Texaco Inc., for permission to dispose of salt water, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to dispose of salt water into the Devonian formation through the Shell State of New Mexico "A" Well No. 3, located 990 feet from the South line and 660 feet from the West line of Section 2, Township 11 South, Range 37 East, Echols (Devonian) Pool, Lea County, New Mexico.

CASE 2669:

Application of Amerada Petroleum Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its L. M. Lambert Well No. 8, located in Unit B, Section 6, Township 20 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Monument Paddock and Monument Blinebry Pools through parallel tapered tubing strings.

CASE 2670:

Application of Elwyn C. Hale for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the quadruple completion (combination) of his Hale State Well No. 3, located in Unit H of Section 2, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Devonian, McKee, Waddell and Ellenburger Pools, North Justis Field, through two strings of 2 7/8 inch casing and two strings of 3 1/2 inch casing all cemented in a common well bore.

CASE 2671:

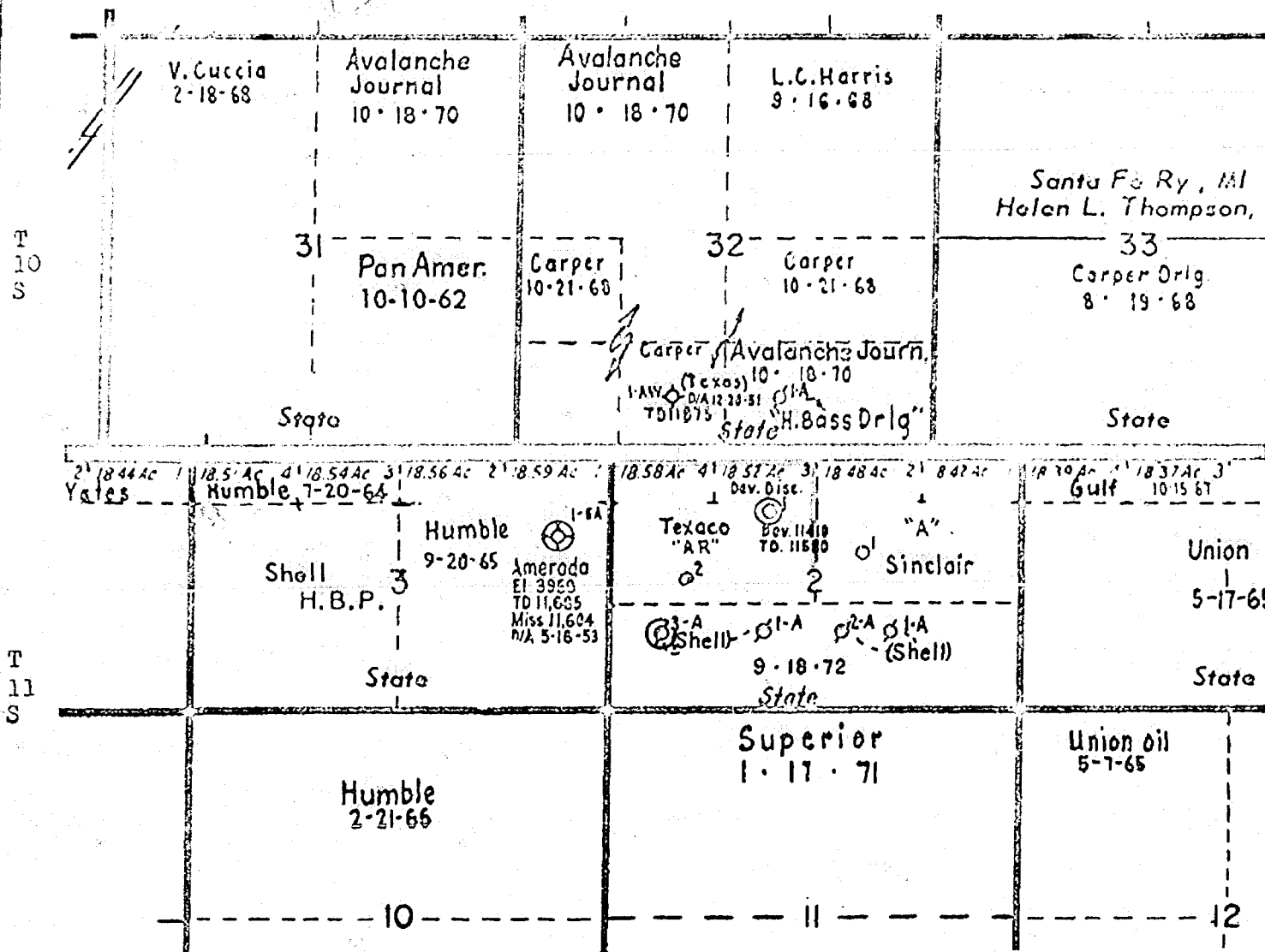
Application of The Pure Oil Company for approval of the Red Hills Unit Agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Red Hills Unit Agreement covering 28,796 acres, more or less, of Federal, State and fee lands in Township 25 South, Ranges 32 and 33 East, and Township 26 South, Range 33 East, Lea County, New Mexico.

Docket No. 31-62

Examiner Hearing Wednesday Oct. 24, 1962

- CASE 2676: of Section 23, Township 24 South, Range 37 East. Applicant (Cont.) proposes to dedicate 40 acres comprising the SW/4 NW/4 of said Section 23 to the Ellenburger completion.
- CASE 2677: Application of Union Producing Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northwest Lynch Unit Agreement embracing 3040 acres, more or less, of State and Federal lands in Township 20 South, Range 35 East, Lea County, New Mexico.
- CASE 2678: Application of Kern County Land Company for an order establishing special rules and regulations for the East Saunders Permo-Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing special rules and regulations for the East Saunders Permo-Pennsylvanian Pool, Lea County, New Mexico, to include provisions for 160 acre drilling and proration units therein.
- CASE 2679: In the matter of the hearing called by the Oil Conservation Commission, on its own motion, to permit R. L. Lusk, Jr., and all interested parties to appear and show cause why the Gulf State Well No. 1, located 1980 feet from the North line and 660 feet from the East line of Section 17, Township 10 South, Range 27 East, NMPM, Chaves County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
- CASE 2680: In the matter of the hearing called by the Oil Conservation Commission, on its own motion, to permit M. G. Peters Drilling Company and all interested parties to appear and show cause why the Gulf State Well No. 1, located 1650 feet from the North line and 990 feet from the East line of Section 17, Township 10 South, Range 27 East, Chaves County, New Mexico, and the Hightower State Well No. 1, located 846 feet from the South line and 2310 feet from the East line of Section 16, Township 10 South, Range 25 East, Chaves County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.
- CASE 2681: Application of Kennedy Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Square Lake Pool by the injection of water into the Grayburg-San Andres formations through three wells located in Section 28, Township 16 South, Range 31 East. Applicant further seeks the establishment of a capacity buffer zone allowable for the proposed project area which offsets a capacity type flood and comprises the S/2 SE/4, E/2 SW/4, and S/2 NW/4 of said Section 28.

R-37-E



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2646
CASE NO. 2646

OWNERSHIP MAP
ECHOLS DEVONIAN POOL
LEA COUNTY, NEW MEXICO
SCALE 1" = 2000'

Case 2646

Hearst 10-24-62

Res. 10-25-62

1. Grant Texaco permission to use the
Shell. Lt A #3, 880 / 500 + 660/W lines &
sec. 2-119-37E for a SWD well.

The salt H₂O will be injected into
the Echols-Heronian oil pool below
the water-oil contact.

S.W. will be injected thru 2 7/8
tubing w/ ^{Permanent type} packer set @ 11,600. The
annulus shall be filled with a non-
corrosive liquid and a pressure
gauge shall be attached to the annulus
in such a manner as to determine
if the tubing or packer is leaking.

Thos. H. J. J.

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER



STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

P. O. BOX 971
SANTA FE

October 31, 1962

Mr. Booker Kelly
Gilbert, White & Gilbert
Attorneys at Law
Box 828
Santa Fe, New Mexico

Re: Case No. 2646
Order No. R-2353
Applicant:
Texaco Inc.

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

ir/

Carbon copy of order also sent to:

Hobbs OCC X

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 CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 2646
Order No. R-2353

APPLICATION OF TEXACO INC.
FOR PERMISSION TO DISPOSE OF
SALT WATER, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 24, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 31st day of October, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, 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, Texaco Inc., is the operator of the Shell State of New Mexico "A" Well No. 3, located 990 feet from the South line and 660 feet from the West line of Section 2, Township 11 South, Range 37 East, NMPM, Echols (Devonian) Pool, Lea County, New Mexico.

(3) That the applicant proposes to dispose of produced salt water into the Devonian formation at a depth of approximately 11,662 to 11,712 feet.

(4) That the injection should be accomplished through 2 3/8-inch tubing; that the annulus should be filled with a non-corrosive fluid; and that a pressure gauge should be attached to the annulus in order to determine leakage in the tubing or packer.

(5) That a permanent type packer should be set at approximately 11,600 feet.

-2-

CASE No. 2646

Order No. R-2353

(6) That approval of the subject application will not impair production of oil, gas, or fresh water, and will neither cause waste nor impair correlative rights.

(7) That the injection of salt water into the Devonian formation will not cause damage to the reservoir or to the injection well.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to dispose of produced salt water into the Devonian formation through the Shell State of New Mexico "A" Well No. 3, located 990 feet from the South line and 660 feet from the West line of Section 2, Township 11 South, Range 37 East, NMPM, Lea County, New Mexico, with the injection interval from 11,662 to 11,712 feet.

PROVIDED HOWEVER, That the salt water shall be injected through 2 3/8-inch tubing installed in a permanent type packer set at approximately 11,600 feet; that the annulus of the tubing shall be filled with a non-corrosive fluid; and that a pressure gauge shall be attached to the annulus in a manner that will determine tubing or packer leakage.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.


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

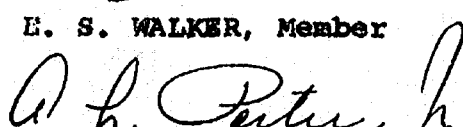
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



EDWIN L. MECHEM, Chairman


E. S. WALKER, Member


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

esr/

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

September 27, 1962

EXAMINER HEARING

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

IN THE MATTER OF:
Application of Texaco Inc., for per-
mission to dispose of salt water, Lea
County, New Mexico. Applicant in the
above-styled cause, seeks permission
to dispose of salt water into the
Devonian formation through the Shell
State of New Mexico "A" Well No. 3,
located 990 feet from the South line
and 660 feet from the West line of
Section 2, Township 11 South, Range
37 East, Echols (Devonian) Pool, Lea
County, New Mexico.

CASE NO.
2646

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF PROCEEDINGS

EXAMINER UTZ: We will call case 2646.

MR. PORTER: Mr. Examiner, in connection with Case 2646,
I have contacted Mr. Charlie White, the attorney for Texaco,
Incorporated, who advised me he had notified our office by tele-
phone he wanted the case continued and also filed a Notice of
Continuance yesterday afternoon and due to the fact that the
Examiner was absent yesterday, it was not brought to his attention;
but he requests a continuation of the case to the last Examiner



Hearing in October.

EXAMINER UTZ: Which is set for the 24th?

MR. PORTER: Tentatively.

EXAMINER UTZ: Case 2646 will be continued to the last
Examiner Hearing in October.

* * *

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STATE OF NEW MEXICO)
) ss.
 COUNTY OF BERNALILLO)

I, MICHAEL RICE, NOTARY PUBLIC in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached transcript of proceedings was reported by me in stenotype and that the same was reduced to typewritten transcript under my personal supervision and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

Michael Rice
 Notary Public

My Commission Expires:

May 11, 1966

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. *2646*, heard by me on *Sept. 27* 19 *62*.

Thos. B. J. P., Examiner
 New Mexico Oil Conservation Commission

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 PHONE 383-3971



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

September 27, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco Inc., for per-
mission to dispose of salt water, Lea
County, New Mexico. Applicant, in the
above-styled cause, seeks permission
to dispose of salt water into the
Devonian formation through the Shell
State of New Mexico "A" Well No. 3,
located 990 feet from the South line and
660 feet from the West line of Section
2, Township 11 South, Range 37 East,
Echols (Devonian) Pool, Lea County,
New Mexico.

CASE NO.
2646

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF PROCEEDINGS

EXAMINER UTZ: Case No. 2646.

MR. DURRETT: Application of Texaco Inc., for permission
to dispose of salt water, Lea County, New Mexico.

Off the record.

(Whereupon a discussion was held off the record.)

EXAMINER UTZ: We will continue Case No. 2646 to the
end of the docket. As soon as we hear from them, we will decide.

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EXAMINER UTZ: Case 2646 again..

MR. PORTER: Mr. Examiner, in connection with Case 2646, I have contacted Mr. Charlie White, the attorney for the Texaco Company Incorporated, who advised me he had notified our office by telephone he wanted the case continued and also filed a letter yesterday afternoon, and due to the fact that the Examiner was absent yesterday, it was not brought to his attention; but he requests a continuance of the case to the last Examiner docket in October.

EXAMINER UTZ: Which is set for the 24th.

MR. PORTER: A tentative letter has been filed.

EXAMINER UTZ: Case 2646 will be continued to the last Examiner Hearing in October.

* * *

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STATE OF NEW MEXICO)
) ss.
 COUNTY OF BERNALILLO)

I, MICHAEL RICE, NOTARY PUBLIC in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached transcript of proceedings was reported by me in stenotype and that the same was reduced to typewritten transcript under my personal supervision and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

Michael Rice
 Notary Public

My Commission Expires:

May 11, 1966

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner Hearing of Case No. 2646, heard by me on *Sept. 27*, 1962.

Shirley A. [Signature], Examiner
 New Mexico Oil Conservation Commission

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NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARINGSANTA FE, NEW MEXICOREGISTER

HEARING DATE

SEPTEMBER 27, 1962

TIME:

9 A.M.

NAME:	REPRESENTING:	LOCATION:
Jason Kellah	Kellah & Fox	Santa Fe
Carl W. Jones	Phillips Pet. Co.	Midland, Tex.
Charles Staalone	Atwood & Staalone	Roswell, N. M.
Louis C. Colby	Harney, Dow & Hunkle	Roswell, N. M.
Ed Morris	Pioneer Production Corp.	Amarillo, Texas
Don Ezitt	Phillips Pet.	Midland Tex
George Eaton	Paw American	Farmington
Jim Sharp	Cactus Dry Co.	Hobbs N. M.
Richard F. Morrison	Cactus Drilling Co.	Santa Fe
Ed Harney	Sidewater, El Paso	El Paso, Tex
Ganett Whitworth	El Paso Natural Gas	El Paso, Tex.
P. J. McLaughlin	El Paso Nat Gas.	Farmington
A. J. Carter	U. S. G. S.	Santa Fe.
B. M. Brining	O. P. C.	Hobbs
C. X. Uader	Sidewater Oil Co.	"
H. J. Tuffly	" " "	"
	" " "	Midland, Tex.

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

REGISTER

HEARING DATE SEPTEMBER 27, 1962 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

REGISTER

HEARING DATE SEPTEMBER 27, 1962

TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
October 24, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco Inc., for permission to
dispose of salt water, Lea County, New Mexico.
Applicant, in the above-styled cause, seeks
permission to dispose of salt water into the
Devonian formation through the Shell State of
New Mexico "A" Well No. 3, located 990 feet from
the South line and 660 feet from the West line
of Section 2, Township 11 South, Range 37 East,
Echols (Devonian) Pool, Lea County, New Mexico.

CASE 2646

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 2646.

MR. DURRETT: Application of Texaco Inc., for permis-
sion to dispose of salt water, Lea County, New Mexico.

MR. KELLY: Booker Kelly of Gilbert, White and Gilbert,
appearing for Texaco. I have one witness.

(Witness sworn.)

(Whereupon, Applicant's Exhibits
Nos. 1 through 5 marked for
identification.)

C. R. BLACK

called as a witness, having been first duly sworn on oath, testi-
fied as follows:

DIRECT EXAMINATION

BY MR. KELLY:

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Q Would you state your name, employer, and position, please?

A C. R. Black, employed by Texaco Inc., as Division Proration Engineer out of Midland, Texas.

Q Would you tell the Commission what Texaco seeks in this application?

A Texaco seeks permission to dispose of salt water into the Devonian formation through the Shell State of New Mexico "A" Well No. 3 in the Echols (Devonian) Pool, Lea County, New Mexico. The disposal will be into the State Shell Well No. 1-A, in which well production has been discontinued from the Devonian formation. The Devonian is productive in the area.

Q Could you give the Commission a brief history of this application?

A Yes, sir. In 1958, Shell Oil Company obtained administrative approval to dispose of salt water into the San Andres formation by Administrative Order SWD-9. This was dated March 6, 1958. A joint operation between Shell, Texaco and Sinclair was formed, and a salt water disposal system was actually created. This system continued in operation until May 8, 1962. At that time Shell notified the other operators that they were plugging their well; their wells had reached the economic limit and therefore they would cease as operator of the system. They gave the date that they would discontinue operation as June 10th of '62. Texaco notified Shell that we would take over operation of the



system as was provided for in the agreement.

Q Excuse me, Mr. Black. Could you refer to Exhibit No. 1 so the Examiner can see the location of the wells that you are referring to?

A Yes, sir. Exhibit No. 1 is a plat showing the area of the Echols (Devonian) Field. The Texaco State of New Mexico "A.R." lease is bordered in yellow and the subject well of the application is circled in red. The disposal, San Andres disposal well I was speaking of is the Shell State No. 1-A located immediately east of the Shell State No. 3-A.

Texaco actually took over operation of this system on June 10th, 1962. We have found, and Shell had found during the operation of this San Andres system that excessive pressures were encountered in disposing into the San Andres formation. They were in the neighborhood of 1600 psi, and the maintenance and expense of the system was what we considered unreasonably high. It's around twelve to thirteen hundred dollars a month just to maintain this system.

When Shell proposed the plugging of their Devonian wells, we investigated the possibility of converting one of their Devonian wells into a salt water disposal well and disposing of the Devonian water back into the Devonian formation below the oil-water contact. We completed, or commenced negotiations with Shell to buy their well for the salvage value, and we have not completed those negotiations. We were waiting the outcome of this hearing

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before actually purchasing the well from Shell.

We originally set a hearing and it was scheduled for September 27th. However, we were advised by Ralph Lowe that they had acquired this lease from the State in the September State land sale, and that they were considering the possibility of re-entering this well and converting it to a San Andres producer. However, by letter of October 5th, Ralph Lowe advised that they no longer opposed our application to dispose into the Devonian formation. We had asked that the hearing be continued and in view of their withdrawal of their opposition, we proceeded with the hearing scheduled this morning.

Q Do you know whether the Commission has a copy of the letter from Ralph Lowe?

A Yes, sir, a joint letter of October the 5th to Texaco and Shell; a carbon copy of that letter was submitted to the Commission.

MR. KELLY: We ask the Commission to take administrative notice of that letter.

MR. UTZ: The Commission will take administrative notice of the letter from Ralph Lowe, or rather from Fred G. Goodman of Ralph Lowe of October 5th, 1962.

Q (By Mr. Kelly) Can you give an estimate of the cost of maintenance and expense that Texaco would have if this application were granted? I think you stated it is twelve to thirteen hundred dollars under the San Andres formation?



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A Yes, sir. We now are actually incurring expenses between twelve and thirteen hundred dollars. We estimate that if we're allowed to use the Devonian as a disposal formation, we can reduce our maintenance expense by approximately \$400 a month.

Q Do you feel that this would increase the economic life of your wells?

A Yes, sir. It could certainly increase the economic life by reducing the cost attributable to these wells.

Q Could you refer to and explain your Exhibit 2?

A Exhibit No. 2 is a cross section through the Shell State of New Mexico "A" Well No. 3, and the Texaco State of New Mexico "A.R." Well No. 1, and the State of New Mexico "A.R." Well No. 2.

Starting with the well on the left side of the cross section, the Texaco State "A.R." Well No. 1, it is currently completed in an interval from a minus 7471 to a minus 7516. You will notice that this interval straddles the estimated oil-water contact, and at the present time we produce approximately 96 barrels of oil per day along with 739 barrels of water per day from these perforations. Cumulative production as of April 1st, 1961, was 1,010,206 barrels from this well.

This well was originally, at one time has been completed as deep as a minus 7745. We deepened the well to obtain an increase in Devonian production. However, over the period of years from the time this well was originally completed, we have



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been forced to plug back to squeeze off water and re-complete as oil-free. We have actually seen the oil-water contact gradually encroach into this well.

The Texaco State of New Mexico "A.R." Well No. 2 is currently completed from a minus 7339 to a minus 7347, and it is free of water production. It produces approximately 20 barrels of oil per day. The cumulative production from this well as of March 1st, 1962, was 997,998 barrels. We did have perforations from a minus 7477 to a minus 7497, which straddled the estimated oil-water contact. However, in April -- or excuse me, May of this year we did squeeze those perforations off because we were producing approximately 400 barrels of water per day, and we believe that the oil-water contact had entered into those perforations. We did re-complete higher into the Devonian and now have water-free production.

The Shell State "A" Well No. 3, the well on the right side of the cross section, was drilled to a total depth of 11,750 feet, and was completed in an open hole interval from minus 7739 to minus 7799. Shell perforated an additional section from a minus 7711 to a minus 7730 to obtain an increase in Devonian production, and then they did plug back to a total depth, a new total depth of 11,712 feet, which is a minus 7761. That was in an effort to shut off water production. Their production prior to that plugging back was 89 barrels of oil and 740 barrels of water. Their production after plugging back was



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83 barrels of oil and 903 barrels of water. They were unsuccessful in that plug-back. This well was shut in on April 15th of 1962 and during the seven-day period prior to shut-in, the well pumped only 14 barrels of oil and in excess of 7,000 barrels of water. This was Shell's reasoning that it had reached the economic limit and they were plugging and abandoning and discontinuing production from this well. We believe that it is well below the oil-water contact, that injection into this formation will not damage the oil column in this reservoir.

Q Could you go on to Texaco Exhibit No. 3 and explain that to the Commission?

A Exhibit 3 is a diagrammatic sketch of the State "A" Well No. 3. At the present time it has 5-1/2 inch casing set at 11,690 feet. The estimated top of the cement behind that 5-1/2 inch casing is 11,000 feet. It has an open hole interval from 11,690 to 11,712, and the perforated interval from 11,662 to 11,682. Texaco proposes to set a Baker Model "D" Packer at 11,600 feet, and we will run a string of 2-3/8ths inch tubing and latch it into that packer and inject below the packer. We anticipate that we will be disposing of a volume of water of approximately 1500 barrels per day, and current injection tests or injectivity tests into the Devonian formation indicate that we can dispose of that volume at 700 psi. However, this interval was squeezed when Shell plugged back, and they never re-acidized this completed interval. So we feel that with an acid treatment



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we can reduce that pressure even below the 700 psi. This will certainly give us a more economical operation than our current 1600 psi disposal into the San Andres formation.

Q You have a copy of the lateral log. Would you produce that as Exhibit 4?

A Yes, I believe the Examiner has a copy of the lateral log of the State Well No. 3 and it shows the perforated interval and the open hole interval shown in red.

Q Have you gotten a waiver from Sinclair Oil and Gas?

A Yes, we have a letter dated September 20th to the Oil Conservation Commission from Mr. Joe Medford, Division Production Superintendent for Sinclair Oil and Gas. It states that Sinclair has no objection to this application, and they will actually be a party in the disposal system.

Q That's Exhibit No. 5?

A Yes, sir.

Q Are you aware of whether the State Engineer of the State of New Mexico has given his approval?

A Yes, sir. The State Engineer was furnished a copy of Texaco's application, and by letter of September 26th to Mr. A. L. Porter, Jr., Secretary-Director of the Oil Conservation Commission, from Mr. S. E. Reynolds, State Engineer, by Frank E. Irby, stated that they had no objection to the granting of this application.

MR. KELLY: We ask the Commission to take administrative



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notice of that letter.

MR. UTZ: The Commission has a copy of that letter in the file and will take administrative notice of it.

Q (By Mr. Kelly) Do you feel that the granting of this application will have any adverse effect on the reservoir?

A No, sir, I do not.

Q Were Exhibits 1, 2, and 3 prepared by you or under your direction?

A They were prepared under my supervision.

Q Is that the right numbers on the exhibits?

A 1 through 5, with the exception of 5, which was Sinclair's waiver.

MR. KELLY: We ask the introduction of Texaco's exhibits.

MR. UTZ: Without objection, Exhibits 1 through 5 will be entered into the record of this case.

(Whereupon, Applicant's Exhibits Nos. 1 through 5 admitted in evidence.)

MR. KELLY: That's all we have.

CROSS EXAMINATION

BY MR. UTZ:

Q Am I correct in that you intend to inject water through the same perforations that the well produced from?

A That is correct.

Q And your testimony as to the producing history of this



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well would indicate in your opinion that this water will be injected below the water-oil contact of the pool?

A Yes, sir, that is correct.

Q The packer will be set below the top of the cement and above the perforations?

A Yes, sir.

Q This will be permanent type packer?

A It will be a Baker Model "D" permanent type packer.

Q What type tubing?

A 2-3/8ths inch tubing.

Q Will this be plastic coated?

A At the present time we do not plan to plastic coat it. We certainly will continue close observation of the tubing casing annulus and if we note any increase in pressure, then we will take the necessary steps to correct a possible leak in the tubing.

Q Is this tubing already in the well?

A No, sir, it is not.

Q Do you intend to load the annulus with inert liquid?

A Yes, sir, we intend to load the annulus with a non-corrosive fluid.

Q And you will keep a check on the pressures in the annulus?

A Yes, sir, we intend to.

MR. UIZ: Any other questions of the witness?



MR. DURRETT: Yes, sir, I have one question.

BY MR. DURRETT:

Q Mr. Black, I may have missed this on your direct examination. Did you state where you proposed to obtain the salt water?

A The salt water production is water that is produced along with the Devonian oil production. The Commission's order of October 25, 1958, Order No. 1224-A, prohibited the disposal of salt water into surface pits in the Echols (Devonian) Field.

Q This is all produced salt water?

A This is all produced salt water. This is not a secondary recovery or waterflood operation. This is merely a salt water disposal application.

MR. DURRETT: Thank you.

MR. UTZ: Any other questions? The witness may be excused.

(Witness excused.)

MR. UTZ: Are there any statements in this case? If not, the case will be taken under advisement.

We'll take a ten-minute recess.

(Whereupon, a short recess was taken.)

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STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

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 was reported by me in stenotype, 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 19th day of October, 1962, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Ada Dearnley
NOTARY PUBLIC

My Commission Expires:

June 19, 1963.

I do hereby certify that the foregoing is a complete record of the proceedings of the Board of Hearing of Case No. 2646 heard by me on Oct 24 1962
[Signature] Ex
New Mexico Oil Conservation Commission

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NEW MEXICO OIL CONSERVATION COMMISSION

Examiner Hearing

Santa Fe, NEW MEXICO

REGISTERHEARING DATE October 24, 1962 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
Gary W. Selinger	Skelly Oil Co	Tulsa Okla.
Ronald J. Jacobs	Skelly Oil Co.	Mesa, Okla.
Charles E. Davis	Skelly Oil Co.	Tulsa, Okla.
D. L. Loece	Loece & Stewart	Artesia
Charles J. Loece	SKELLY OIL CO.	HOBBS, N.M.
Robert B. Kennedy	Kennedy Oil Co	Artesia N.M.
Jason Kellahi	Kellahi & Fox	Santa Fe
R. T. Wright	El Paso Natural Gas	Jel, N.M.
C. R. Black	Texasco Inc	Midland Texas
A. E. Snyder	Amerada Petroleum	Hobbs, N.M.
C. R. ANDRIAT	AMERADA PETROLEUM	MONUMENT, N.MEX.
J. H. STROUD	UNION PRODUCTIONS CO	SHREVEPORT, LA
A. C. Elliott	JACK L. HAMON	Midland, TEX.
L. K. Booth	Union Prod. Co.	Midland, Tex.
H. G. Alexander	Pure Oil	Midland Tex
G. B. Sabina	The Pure Oil Co.	Houston, Tex
J. W. Luckett, Jr.	the Pure Oil Co.	Midland, Tex

NEW MEXICO OIL CONSERVATION COMMISSION

Examiner Hearing

Santa Fe , NEW MEXICO

REGISTER

HEARING DATE October 24, 1962 TIME: 9 A.M.

TIME:

9 A.M.

NAME:	REPRESENTING:	LOCATION:

NEW MEXICO OIL CONSERVATION COMMISSION

Examiner Hearing

Santa Fe, NEW MEXICO

REGISTER

HEARING DATE October 24, 1962 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
P. E. Mackey	Union Producing Co.	Shreveport, La

NEW MEXICO OIL CONSERVATION COMMISSION

Examiner HearingSanta Fe, NEW MEXICOREGISTERHEARING DATE October 24, 1962 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
J. F. Sperling	Kern County Land Co	San Francisco, Calif
J. L. Hurdall	Kern County Land Co	
Richard A. Morris	Leith, Montgomery, Tedence & Anderson	Santa Fe
M. W. Morton	Union Oil Co of Calif	Roswell
D. R. Murphy Jr	The Pure Oil Co	Midland
C. O. Fletcher	Union Producing Co.	Midland
J. H. Hoover	Gulf Oil Corp	Roswell
W. H. Kastle		
M. J. Peyton	The Pure Oil Co.	Midland
W. J. Farley	V B C	Farmington
J. W. Wenderlich	Southwest Prod Co	Farmington
Richard S. Hunt	Shor-Alon Oil Co	Deming, Cal
T. H. Sturges Jr	Shor-Alon Oil Co	Albuquerque
Guy Buell	Pan Am	Fort Worth
Doyle Kaff	Getty	S. F.