

CASE 4416: Application of ROBERT  
L. PARKER TRUST FOR A WATERFLOOD  
PROJECT, LEA COUNTY, NEW MEXICO.

Case Number

4416

Application  
Transcripts.

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

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

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BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
September 30, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Robert L. Parker ) Case No. 4416  
Trust for a waterflood project, )  
Lea County, New Mexico. )

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

## NEW MEXICO OIL CONSERVATION COMMISSION

## EXAMINER HEARING

Santa Fe, NEW MEXICO

Hearing Date SEPTEMBER 30, 1970 TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
E. M. PRINGLE	ATLANTIC Richfield Co.	Roswell, N.M.
H. E. COBB Jr.	ROBERT L. PARKER TRUST	TULSA, OKLA.
James E. Hinkle	Atl-Rich-Union Dev.	Roswell
HOWARD PERDUE	+ Coastal States	Midland, Texas
Donald B. Wells	UNION TEXAS PETROLEUM	Midland Texas
James L. Mackey	Union Texas Petroleum	Houston, Texas
Jack E. Brown	Stoltz, Wagner & Brown	Midland, Tex.
Jack R. McGraw	Coastal States	Midland, Tex.
W. D. ELLIOTT	Coastal States	Corpus Christ, TEX
Nina L. Williams	RW Byram & Co.	Santa Fe
Doyle Butts	Blackrock Oil Co.	Midland, Texas
Jason Kellahin	Kellahin & Fox	Santa Fe
Don D. Meeks	D.I. Developmental Co. of Texas	Amarillo, Tex
Guy Leach	" " " "	"
J. T. Paulanters	Oil Developmental Co. of Texas	Lawrenceville, Tex
David H. Rethygen	MWJ Producing Co.	Midland, Tex
R. Ken Williams	MWJ Producing Co.	Midland TX

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date SEPTEMBER 30, 1970 TIME: 9 A.M.

NAME	REPRESENTING	LOCATION
<i>[Signature]</i>	CITIES SERVICE OIL CO.	MIDLAND-
Gordon G. Maccum	State Land Office	
Ralph L. Gray	Wm A & Ed. R. Hudson	Artesia
Edward R. Hudson, Jr	"	Ft. Worth, Tex.

MR. NUTTER: The hearing will come to order, please. The first case this morning will be Case Number 4416.

MR. HATCH: Case 4416. Application of Robert L. Parker Trust for a waterflood project, Lea County, New Mexico.

MR. HINKLE: Clarence Hinkle, Hinkle, Bondurant, Cox and Eaton, Roswell. I would like to enter an appearance for Mr. Robert L. Parker.

Mr. Examiner, in this particular case, Mr. Cobb came in this morning and found out that he would have to be associated with an attorney and asked me to enter an appearance for him. I am not familiar with his case, but I think he has it pretty well organized and will be able to go ahead with it.

He has just himself as a witness and several -- one exhibit which is in several parts here which we have had marked as Exhibit 1 and then the parts are referred to by letter.

Would you be sworn?

(Witness sworn.)

(Whereupon, Exhibit 1 was marked for identification.)

H. E. COBB, JR.

having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. HINKLE:

Q State your name, your residence and by whom you are employed.

A My name is H. E. Cobb, Jr. I am a consulting petroleum engineer operating my own consulting firm under the name of H. E. Cobb, Jr. and Associates in Tulsa, Oklahoma.

Q Have you previously testified before the New Mexico Oil Conservation Commission?

A No, sir, I have not.

Q Are you a graduate petroleum engineer?

A Yes, sir.

Q State briefly your educational background and experience as a petroleum engineer.

A Yes, sir. I was graduated from the Oklahoma State University in January of 1949 with a degree in mechanical engineering with a petroleum production option which involved an additional thirty hours of work associated with petroleum and reservoir engineering.

I did graduate level work at the University of Tulsa; did not acquire a graduate level degree but accumulated twenty-five hours of graduate work in reservoir engineering. I went to work by the -- for the Deep Rock Oil Corporation and worked two years for them as an evaluation engineer in their general office in Tulsa.

I was recalled into active duty in the Navy in 1951 and served two years as a gunnery officer on a destroyer returning to Deep Rock in 1953 and moved to Wichita Falls, Texas, where I was field engineer and later district engineer over their Texas operations.

With the sale of Deep Rock properties to General American, I became district engineer for General American in Abilene, Texas, in 1954, returning to Deep Rock as chief engineer in 1955. Since that time I have progressed from chief engineer to general superintendent and eventually production manager for that company which eventually changed its name to Crescent Oil and Gas Corporation, until they moved their offices to Dallas in June of 1963, at which time I became a consulting engineer.

Q Have you been employed by Robert L. Parker Trust in this case?

A Yes, sir.



Q Have you made a study of the Langlie Mattix Woolworth Unit?

A Yes, sir, I have.

Q And of the Parker Trust Property?

A Yes, sir.

Q Have you prepared or has there been prepared under your direction certain exhibits for introduction in this case?

A Yes, sir.

Q Refer to Exhibit Number One and in your own words go ahead and put on your case as you have planned.

A Yes, sir. I would like to relate to the Commission a little history on the project, if I may. Mr. Parker owns the 160 acre producing lease located in the Southwest of Section 35 of 24 South, 37 East, in Lea County, New Mexico, which is a direct offset to the Langlie Mattix Woolworth Unit operated by Amerada Petroleum Corporation.

Q Is that shown on Exhibit "B"?

A Yes, sir, this is shown on the plat "B" on Exhibit 1 that we have introduced. Amerada commenced operating this waterflood unit in 1963, in April, and in May of 1965 a very significant response was noted to a double five spot injection pattern and since that time, they have

expanded the operation.

Production in the unit area has increased from 150 barrels a day to over 1200 barrels a day. Amerada approached Mr. Parker with the idea of exchanging injection wells across the unit line and this is the purpose I appear before the Commission this morning is to gain approval of this Commission to cooperate with Amerada.

Q Did you originally file this as an application for administrative approval?

A Yes, sir, I did, and we were informed that in this case a hearing would be necessary.

Q And the first page of Exhibit 1 constitutes the application which you filed?

A Yes, sir. Page one is the information that was filed with the Commission setting out our proposed injection rate, location of the well, the plat showing the injection well and Mr. Parker's lease, a log of the well and a diagrammatic sketch of the proposed mechanical hook-up.

The plat is -- incidentally, I might add that the distribution of this material is shown in Exhibit 1 on the page marked "A".

Q In other words, you gave notice to the offset owners --

A Yes, sir, I did.

Q -- and they are listed on "A"?

A Yes, sir.

Q Okay.

A Marked "B" is the plat which, incidentally, was prepared by Amerada and adapted for our purpose by my staff showing the outline of the Woolworth Unit as well as some other waterfloods in the area and Mr. Parker's lease is shown outlined in red with an arrow pointing to the proposed injection well.

In Exhibit 1 labeled "C" is a well log cable tool record of the original drilling of this well when it was drilled in 1938. Mr. Parker has owned this well since that time.

Labeled "D" in Exhibit 1 is a diagrammatic sketch of the mechanical hook-up proposed for this injection well in which it's illustrated that tubing and packer will be used to inject into this zone.

Q You propose to use **plastic**-lined tubing?

A Yes, sir, we do.

Q Have a **gauge** on the annulus --

A Yes, sir.

Q --- pressure gauge?

A Right. Labeled "E" is our letter to Mr. Brown at the U. S. Geological Survey District Office in Hobbs in which we filed the required form 9-331 with them and state our intention to cooperate with Amerada in this flood.

Labeled "F" is this form filled out which we mailed to them.

Q This was filed with the U. S. G. S.?

A Yes, sir. Labeled "G" in Exhibit 1 is a return letter from Mr. Brown of the U. S. G. S. stating their satisfaction with our proposed operation and attached to it and labeled "H" is the approved form in which the only notation they make is that approval of the New Mexico Oil Conservation Commission is required. That's what I am here for today.

Labeled "I" in Exhibit 1 is a letter from Amerada in which they state their approval of this operation. I would like to state very briefly that this project came about through our cooperation with Amerada after we had exhausted efforts to perform our own cooperative unit with other operators outside of their Woolworth Unit.

Texaco has notified me that they are in agreement with our plan here and they inject water into a well

immediately north of this tract.

Q In your opinion, will this project be in the interest of conservation and prevention of waste?

A Yes, sir. In my opinion it will.

Q And will tend to protect correlative rights?

A Yes, sir.

MR. HINKLE: We would like to offer in evidence Exhibit 1.

MR. NUTTER: Exhibit 1 of the Applicant will be admitted in evidence.

MR. HINKLE: Is that all you have to present?

THE WITNESS: That's all I have; yes, sir.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Cobb, here on this Parker 160 acre lease you are going to have an injection well in the Northwest corner and then you will have the two producing wells. Is there any porosity or any indication that another well should be drilled in the Southeast corner of that 160 acre tract?

A Very likely we will drill an additional well in that.

Q Which would be an injection well --

A Yes, sir.

Q -- to back up the --

A That's right. Noticing that plat, the wells with the triangles are injection wells and immediately north of Mr. Parker's Erwin tract is the Texaco Frisco Number 6, which commenced injection about a year ago and as developments occur that indicate the economic feasibility of it, it's our intention to expand to the full extent of the lease.

Q I see.

MR. NUTTER: Are there any further questions of Mr. Cobb? He may be excused.

(Witness excused).

MR. NUTTER: Do you have anything further, Mr. Hinkle?

MR. HINKLE: That's all.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 4416?

MR. HATCH: The Commission has received a letter from Amerada Hess Corporation in favor of the application.

MR. NUTTER: Thank you.

If there's nothing further, we will take the case under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
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STATE OF NEW MEXICO )  
 ) ss  
 COUNTY OF BERNALILLO )

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

Glenda Burks  
 Court Reporter

I do hereby certify that the foregoing is  
 a complete record of the proceedings  
 the said hearing held on 9/30/70  
 heard by me on 9/30/70

Glenda Burks, Reporter  
 New Mexico Oil Conservation Commission



dearnley-meier reporting service, inc.

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

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
September 16, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Robert L. Parker  
Trust for a waterflood project,  
Lea County, New Mexico.

CASE 4416

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

dearnley-meier reporting service, inc.

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

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MR. NUTTER: Case 4416.

MR. HATCH: Case 4416, continued from the September 2nd, 1970 Examiner Hearing, Application of Robert L. Parker Trust for a waterflood project, Lea County, New Mexico. This Applicant in this case requested it be continued to September 30th.

MR. NUTTER: Case 4416 will be continued to the Examiner Hearing which will be held at this same place on September 30, 1970 at 9:00 o'clock A.M.

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

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STATE OF NEW MEXICO )  
COUNTY OF BERNALILLO )

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

*Soveida Gonzales*  
COURT REPORTER

I do hereby certify that the foregoing is  
a complete record of the proceedings of  
the Examiner hearing of Case No. 4416  
called by me on 9/16/70  
*[Signature]*  
New Mexico Oil Conservation Commission

dearnley-meier reporting service, inc.

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

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
State Land Office Building  
Santa Fe, New Mexico  
September 2, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Robert L. Parker Trust  
for a waterflood project, Lea County,  
New Mexico.

Case No. 4416

BEFORE: ELVIS A. UTZ, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: We have four continued cases which we will take up first. Case No. 4416.

MR. HATCH: Application of Robert L. Parker Trust for a waterflood project, Lea County, New Mexico. Applicant in the above styled cause seeks authority to institute a cooperative waterflood project in the Langlie-Mattix Pool on its George L. Erwin Lease by the injection of water through its Erwin Well No. 2 located in Unit L of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

We have received a request the case be continued to September 16, 1970.

MR. UTZ: Case No. 4416 will be continued to September 16, 1970.

MR. HATCH: I assume at that time it would be 9:30 on September 16th.

MR. UTZ: That is what the docket says.

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

I, Peter A. Lumia, 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.

Peter A. Lumia  
Peter A. Lumia, C.S.R.

I do hereby certify that the foregoing is  
a complete record of the proceedings  
the Executive hearing of Case No. 4416  
heard by me on 9-20-70.

Wm. D. Miller  
New Mexico Oil Conservation Commission

Docket No. 21-70

DOCKET: REGULAR HEARING - WEDNESDAY - SEPTEMBER 16, 1970

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

**ALLOWABLE:** Consideration of the allowable production of gas for October, 1970, from fifteen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for October, 1970.

CASE 4367: (De Novo)

Application of Mobil Oil Corporation for a waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Bridges State Waterflood Project, Vacuum Grayburg-San Andres Pool, by the injection of water into the Grayburg San Andres formations through two additional injection wells to be drilled at locations in Township 17 South, Range 34 East, Lea County, New Mexico, as follows:

A well to be drilled at a standard location 2310 feet from the North line and 860 feet from the West line of Section 25; and

A well to be drilled at an unorthodox location 100 feet from the South line and 1980 feet from the West line of Section 26.

Upon application of Mobil Oil Corporation this case will be heard De Novo under the provisions of Rule 1220.

CASE 4368: Application of Mobil Oil Corporation for a waterflood expansion and amendment of rules governing same, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Bridges State Waterflood Project, Vacuum Grayburg-San Andres Pool, to the conversion of water injection of 13 additional wells at standard locations in Sections 25, 26, and 27, Township 17 South, Range 34 East, Lea County, New Mexico. Applicant further seeks the amendment of the rules governing said project to permit expansion of the project administratively without a showing of well response.

Upon application of Mobil Oil Corporation this case will be heard De Novo under the provisions of Rule 1220.

THE FOLLOWING CASES WILL BE HEARD BEFORE DANIEL S. NUTTER, EXAMINER,  
OR ELVIS A. UTZ, ALTERNATE EXAMINER, IN THE OIL CONSERVATION COMMISSION  
CONFERENCE ROOM ON THE SECOND FLOOR OF SAID BUILDING AT 9:30 A.M.

CASE 4413: (Continued from the August 19, 1970, Examiner Hearing)  
In the matter of the hearing called by the Oil Conservation Commission upon its own motion to permit Stanley Leonard Jones dba Francisca Corporation and all other interested parties to appear and show cause why the Francisca Corporation Beeman Well No. 1 located 1980 feet from the South and West lines of Section 2, Township 24 South, Range 28 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 4416: (Continued for the September 2, 1970, Examiner Hearing)  
Application of Robert L. Parker Trust for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a cooperative waterflood project in the Langlie Mattix Pool on its George L. Erwin Lease by the injection of water through its Erwin Well No. 2 located in Unit L of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

CASE 4424: Southeastern New Mexico nomenclature case calling for an order for the extensions of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico:

a) Extend the Blinebry Oil Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM  
SECTION 25: SE/4

b) Extend the Bluitt-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM  
SECTION 17: SE/4

c) Extend the South-Carlsbad Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 26 EAST, NMPM  
SECTION 1: W/2

d) Extend the Double L-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 29 EAST, NMPM  
SECTION 25: SE/4 SW/4  
SECTION 36: NE/4 NW/4

e) Extend the Eagle Creek-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM  
SECTION 22: E/2 NE/4

f) Extend the Lusk-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM  
SECTION 32: All



(Case 4424 continued)

- g) Extend the Midway-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM  
SECTION 16: SW/4

- h) Extend the West Sawyer-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 37 EAST, NMPM  
SECTION 34: S/2

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

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM  
SECTION 11: SW/4

- j) Extend the North Vacuum-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM  
SECTION 14: N/2  
SECTION 15: E/2

- k) Extend the Vada-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico to include therein:

TOWNSHIP 8 SOUTH, RANGE 35 EAST, NMPM  
SECTION 34: NW/4

TOWNSHIP 8 SOUTH, RANGE 36 EAST, NMPM  
SECTION 27: SE/4  
SECTION 28: NE/4

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM  
SECTION 24: All  
SECTION 25: NE/4

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM  
SECTION 19: N/2 and SW/4

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM  
SECTION 16: SE/4

CASE 4425: Application of Eastern Petroleum Company as agent for Southern Gulf Production Company for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to the gas well location requirements of the Commission Rules and Regulations, approval for the Southern Gulf

(Case 4425 continued)

Production Company Navajo Tocito Well No. 4 at an unorthodox gas well location 2023 feet from the South line and 1157 feet from the West line of Section 10, Township 26 North, Range 18 West, undesignated Pennsylvanian gas pool, San Juan County, New Mexico.

CASE 4426: Application of Texaco Inc. for salt water disposal, Chaves 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 11,150 feet to 11,750 feet in its Peery Federal Well No. 4 located in Unit A of Section 29, Township 15 South, Range 30 East, Little Lucky Lake-Devonian Pool, Chaves County, New Mexico.

CASE 4427: Application of David F. Fasken for the creation of a new gas pool and special pool rules therefor, and a non-standard gas spacing unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Morrow gas pool for his well located 3630 feet from the South line and 660 feet from the East line of Section 1, Township 21 South, Range 25 East, Eddy County, New Mexico, and for the promulgation of special rules therefor, including a provision for 640-acre spacing units. Applicant further seeks approval of a 854.62-acre non-standard gas spacing unit comprising all of said Section 1 to be dedicated to the above-described well.

CASE 4428: Application of Texas Oil and Gas Corporation for a non-standard gas spacing unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an approximately 240-acre non-standard gas proration unit comprising the E/2 NE/4, SW/4 NE/4, W/2 NW/4, and SE/4 NW/4 of Section 11, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location in the N/2 of said Section 11 to test any and all formations from the surface of the ground down to and including the Morrow formation.

CASE 4354: (Continued from the July 1, 1970, Examiner Hearing) and the August 5, 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.

Docket No. 22-70

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 30, 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 4416: (Continued from the September 16, 1970, Examiner Hearing)

Application of Robert L. Parker Trust for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a cooperative waterflood project in the Langlie Mattix Pool on its George L. Erwin Lease by the injection of water through its Erwin Well No. 2 located in Unit L of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

CASE 4422: (Continued from the September 2, 1970, Examiner Hearing)

Application of Atlantic Richfield Company for amendment of Order No. R-3588, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3588, which order authorized the disposal of produced salt water into the Yates and Seven Rivers formation in the perforated and open-hole interval from 3110 feet to 3300 feet in the Sinclair ARC Federal Well No. 1 located in Unit O of Section 9, Township 20 South, Range 33 East, West Teas Pool, Lea County, New Mexico. Applicant now seeks authority to dispose into said zones in the interval from 3010 feet to 3300 feet.

CASE 4222: (Reopened)

In the matter of Case 4222 being reopened pursuant to the provisions of Order No. R-3850, which order established 80-acre spacing units for the West Sawyer-San Andres Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units and present evidence as to whether or not the subject pool is in fact an associated reservoir.

CASE 4429: Application of Union Texas Petroleum Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Langlie-Jal Unit Area comprising 3,748 acres, more or less, of federal, state, and fee lands in Townships 24 and 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4430: Application of Union Texas Petroleum Corporation of a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Langlie-Jal Unit by the injection of water into the Seven Rivers and Queen formations through 46 wells in Townships 24 and 25 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

(Reopened)  
CASE 4173: In the matter of Case 4173 being reopened pursuant to the provisions of Order No. R-3811-A, which order extended 80-acre spacing units and a limiting gas-oil ratio of 4000 cubic feet of gas per barrel of oil for the Hobbs-Drinkard Pool, Lea County, New Mexico, for a period of 90 days. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing, why the limiting gas-oil ratio should not revert to 2000 to one, and/or why all casing-head gas produced by wells in the pool should not be reinjected.

CASE 4420: (Continued and Readvertised)

Application of Xplor Company for the creation of a new gas pool and special rules therefor, a dual completion, and authority to commingle, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Pennsylvanian gas pool for its Cleveland Well No. 1 located in Unit G of Section 23, Township 12 South, Range 32 East, Lea County, New Mexico, and for the promulgation of special rules therefor, including a provision for 160-acre spacing units. In the alternative, applicant seeks approval of a non-standard 160-acre gas proration unit comprising the NE/4 of said Section 23 to be dedicated to said well. Applicant also seeks authority to dually complete said well in such a manner as to produce oil from the East Caprock-Devonian Pool and gas from said Pennsylvanian formation and to commingle on the surface the liquids from said zones.

CASE 4431: Application of William A. and Edward R. Hudson for unorthodox well locations and a dual completion, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to drill a well at an unorthodox location (off pattern) 660 feet from the South line and 1980 feet from the West line of Section 15, Township 17 South, Range 32 East, Lea County, New Mexico, for the production of oil from the Baish-Wolfcamp and Maljamar-Abo Pools and to dually complete said well in the subject pools.

CASE 4432: Application of MWJ production Company for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the rules governing the Baum-Upper Pennsylvanian Pool to permit the drilling of an oil well at an unorthodox location 2310 feet from the South line and 990 feet from the West line of Section 5, Township 14 South, Range 33 East, Lea County, New Mexico.

CASE 4433: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to permit Allied Chemical Corporation to appear and show cause why said corporation should be permitted to institute its proposed waterflood project in its Milnesand (San Andres) Unit Area, Milnesand-San Andres Pool, Roosevelt County, New Mexico, by the injection of fresh water; said corporation testified in the hearing that authorized said waterflood project that produced salt water be used for waterflooding purposes.

Examiner Hearing - September 30, 1970

-3-

Docket No. 22-70

CASE 4423: (Continued from the September 2, 1970, Examiner Hearing)

Application of Union Oil Company of California for compulsory pooling, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down to and including the San Andres formation underlying the N/2 NE/4 of Section 20, Township 8 South, Range 38 East, Bluitt-San Andres Associated Pool, Roosevelt County, New Mexico. Said acreage to be dedicated to a well to be drilled at an orthodox location in the NW/4 NE/4 of said Section 20. Also to be considered will be the cost 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.

CASE 4434: Application of Union Oil Company of California for the creation of a new gas pool and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for its Pipeline Federal Well No. 1 located in Section 4, Township 19 South, Range 34 East, Lea County, New Mexico. Applicant further seeks the promulgation of special rules therefor, including a provision for 640-acre spacing and proration units and fixed well location requirements.

CASE 4435: Application of Blackrock Oil Company for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Mobil Atlantic Well No. 1 located in Unit D of Section 10, Township 9 South, Range 36 East, Lea County, New Mexico, in such a manner as to produce oil from the Pennsylvanian formation through tubing and to dispose of produced salt water into the San Andres formation from 4300 feet to 5045 feet and possibly other formations between the 8 5/8-inch casing shoe at 4153 feet and the top of the cement at 9205.

**AMERADA DIVISION  
AMERADA HESS CORPORATION**

September 4, 1970

BOX 501  
MIDLAND, TEXAS 79701  
915-684-5531

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

*YWA*  
*See*  
RE: Robert L. Parker Trust  
Case No. 4416  
September 16, 1970

70 SEP 8 AM 9 14

Dear Sir:

We have received Robert L. Parker Trust application for authority to institute a Cooperative Waterflood Project in the Langlie Mattix Pool, Lea County, New Mexico, by injecting into their #2 Erwin well, Unit L, Section 35, T-24-S, R-37-E.

The Erwin #2 well will complete a five spot flood pattern on the east side of the Langlie Mattix Woolworth Unit and will provide increased secondary recovery for this area. Amerada Hess Corporation supports this application and respectfully requests that their well be approved for water injection.

Very truly yours,

*D. G. Griffin*  
D. G. Griffin

DGG/kw

cc: Robert L. Parker Trust  
518 National Bank of Tulsa Bldg.  
Tulsa, Oklahoma 74103  
Attn: Mr. L. W. Brodie

# Memo

From

JAMES M. DURRETT JR.  
GENERAL COUNSEL

To Dan —

Will injection  
be only into the  
Queen?

George  
as far as I  
can tell  
will help.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

October 27, 1970

Mr. Clarence Hinkle  
Hinkle, Bondurant, Cox & Eaton  
Attorneys at Law  
Post Office Box 10  
Roswell, New Mexico 88201

Dear Sir:

Enclosed herewith is Commission Order No. R-4044, entered in Case No. 4416, approving the Parker Trust Langlie Mattix Erwin Water-flood Project.

Injection is to be through the one authorized water injection well, which shall be equipped with plastic-lined tubing set in a packer located at approximately 3150 feet; the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface.

As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 126 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

-2-

Mr. Clarence Hinkle  
Hinkle, Bondurant, Cox & Eaton  
Attorneys at Law  
Post Office Box 10  
Roswell, New Mexico 88201

October 27, 1970

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

Enclosure

ALP/DSM/ir

cc: OCC-Hobbs, New Mexico

Mr. D. E. Gray - State Engineer Office  
Santa Fe, New Mexico

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. 4416  
Order No. R-4044

APPLICATION OF ROBERT L. PARKER  
TRUST FOR A WATERFLOOD PROJECT,  
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 30, 1970, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 27th day of October, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Robert L. Parker Trust, seeks authority to institute a cooperative waterflood project in the Langlie-Mattix Pool on its George L. Erwin Lease by the injection of water into the Queen formation through its Erwin Well No. 2, located in Unit L of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.

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

(4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

-2-

CASE No. 4416  
Order No. R-4044

(5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Robert L. Parker Trust, is hereby authorized to institute a cooperative waterflood project in the Langlie-Mattix Pool on its George L. Erwin Lease by the injection of water into the Queen formation through its Erwin Well No. 2, located in Unit L of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.

(2) That the subject waterflood project is hereby designated the Parker Trust Langlie Mattix Erwin Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

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

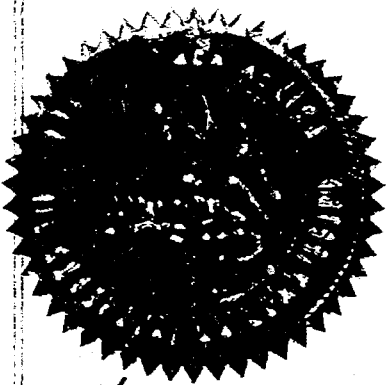
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
DAVID F. CARGO, Chairman

  
ALEX J. ARMIJO, Member

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



esr/

File 600

**ROBERT L. PARKER TRUST**

*Oil Producer*

518 National Bank of Tulsa Building  
Tulsa, Oklahoma 74103

August 18, 1970

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

Re: Robert L. Parker Trust  
George L. Erwin Lease  
SW 1/4 Section 35-T24S-R37E  
Lea County, New Mexico

Dear Sir:

Robert L. Parker Trust hereby applies for authority to initiate a "co-operative waterflood project," on subject lease, with Amerada Hess Corporation's expanded Langlie Mattix Woolworth Unit. Authority is requested to convert Parker Trust Erwin No. 2, NW NW SW Section 35, to injection service.

The attached plat shows the relationship of the proposed injection well to the expanded Amerada flood.

Injection will be into the Langlie Mattix zone with expected stabilized rate of 300-600 BWPD. Water for injection will be obtained from Amerada's input water system.

The following attachments accompany this request in compliance with Rule 701:

1. A plat showing proposed injection well.
2. Log of well.
3. Diagrammatic sketch of this proposed injection well.

Yours very truly,

*L. W. Brodie*

L. W. Brodie

Encs.

See attached Distribution Sheet

BEFORE EXAMINER PUTTER
OIL CONSERVATION COMMISSION
App. NO. <u>1</u>
CASE NO. <u>4416</u>

DISTRIBUTION SHEET

Original & cc: Mr. A. L. Porter, Jr.  
P. O. Box 2088  
Santa Fe, New Mexico

*TEXACO INC  
MIDLAND TEXAS*

cc: Mr. Joe Ramey,  
N.M.O.C.C.  
P. O. Box 1980  
Hobbs, New Mexico

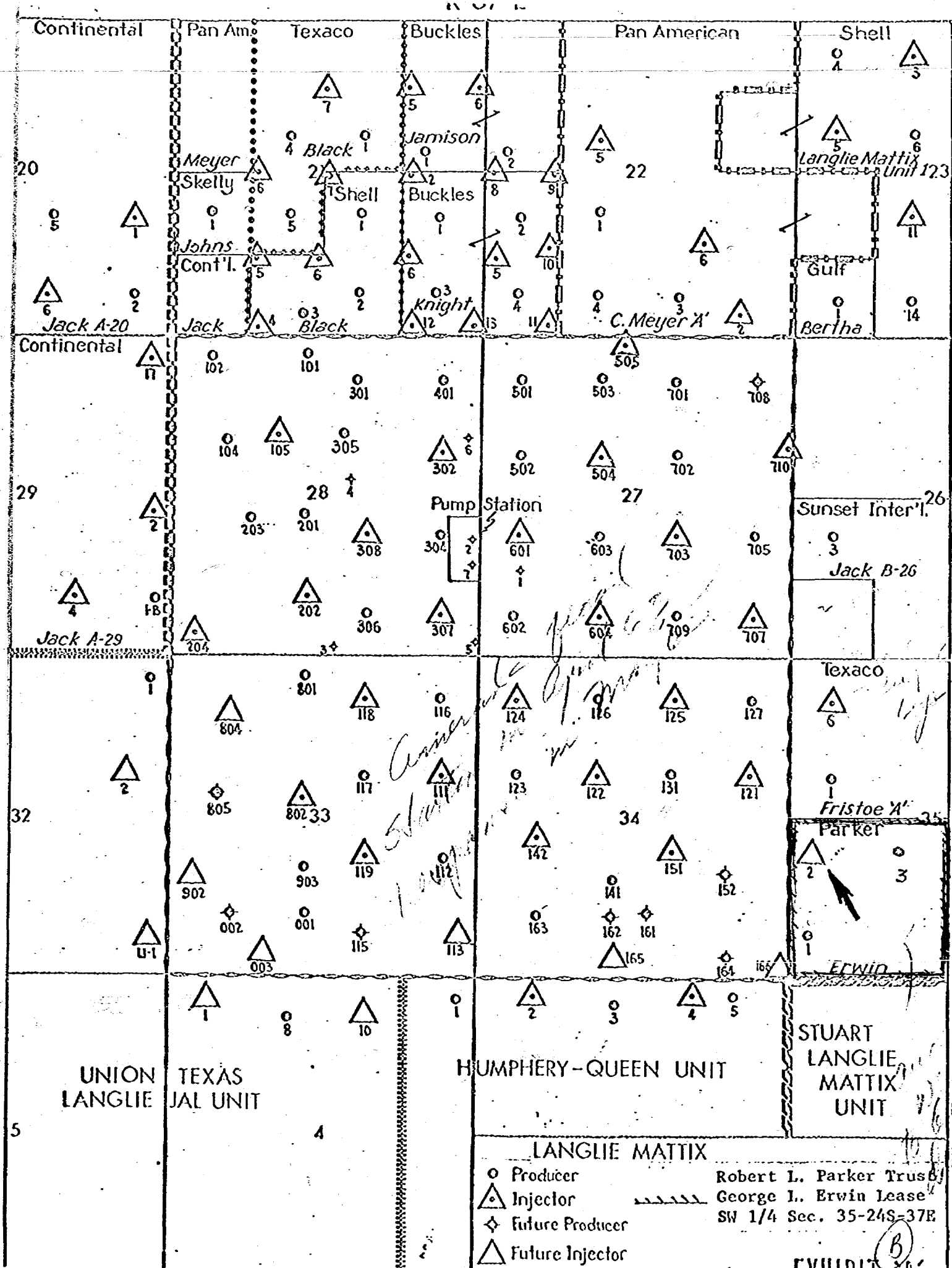
Gulf Oil Corporation  
Box 670  
Hobbs, New Mexico

Mobil Oil Company  
Box 633  
Midland, Texas

Duplicates to: Mr. Arthur Brown  
U.S.G.S. District Office  
P. O. Box 1157  
Hobbs, New Mexico 88240

Mr. D. G. Griffin  
Technical Services Manager  
Amerada Division  
Amerada Hess Corporation  
Box 591  
Midland, Texas 79701

*A*



STATE <u>TEXAS</u>		COMPANY <u>Parker Drilg.</u>	
COUNTY <u>20</u>		FARM <u>Levin #2</u> WELL NO.	
T. <u>24</u> N. <u>37</u>	DIVISION <u>TEXAS</u>	DISTRICT <u>1, Mexico</u>	
SURVEY <u>35</u>	KIND OF RIG <u>Std</u>		
1000 FT	COMMENCED <u>5/5/38</u>		
500 FT	COMPLETED <u>8/3/38</u>		
0	REMARKS <u>1160 Sublease</u>		
ELEV. <u>5191</u>			
PRODUCTION INITIAL 1 SETILED 100 5000			
CASING AND SCREEN RECORD			
15 1/2" 75' setpld			
7" 3204/150 sx			
12 1/2" 150/50 sx			
10" 301/50			
8 1/2" 150/100 sx			
7" 3204/150 sx			
SHOT	QUARTS	BETWEEN	
	800	2000-75	
Log R1 - H.B.G.			
Samples - H.B.G.			
3191 LS			
SQ 3245'-3250'			
Inc G 3323'			
Est 2,000,000 gals			
3320-3330'			
SC 3373-30'			
SC 3410-3417'			
3481			
3500	IF 500 5000 gals		
Before shot, no test			

(C)

ROBERT L. PARKER TRUST  
George L. Erwin #2, NW NW SW, Sec. 35-24S-37E  
Langlie Mattix Pool, Lea County, New Mexico

D. F. Elevation = 3,191

13-3/8" @ 152' w/50 sacks

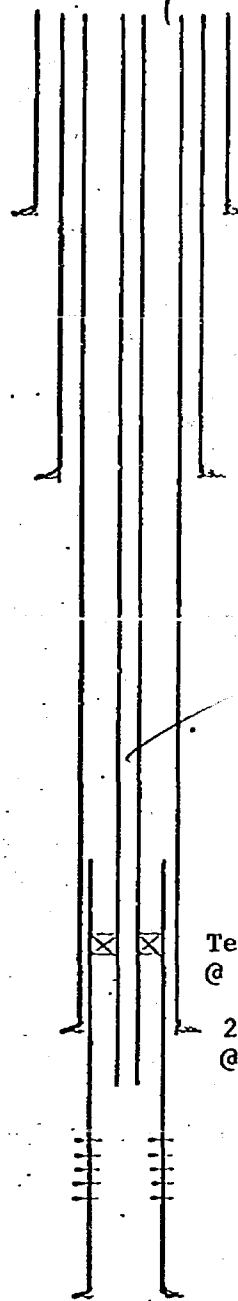
8-5/8" @ 1,319' w/100 sacks

7" @ 3,204' w/150 sacks

5-1/2" liner perforated 3,225-3,345'

5-1/2" liner 3,084-3,375' w/175 sacks

Total depth - 3,481



Tension packer  
@ 3,150

2-3/8" tubing  
@ 3,160

(D)



August 18, 1970

Mr. Arthur Brown  
U.S.G.S. District Office  
P. O. Box 1157  
Hobbs, New Mexico 88240

Re: Robert L. Parker Trust  
George L. Erwin Lease  
SW 1/4 Sec. 35-24S-37E  
Lea County, New Mexico

Dear Sir:

It is proposed that Well No. 2 on subject lease be converted to water injection service in a "co-operative" waterflood with Amerada Petroleum's Langlie Mattix Woolworth Unit.

We enclose your Form 9-331 (Sundry Notice on Well) in quintuplicate, and duplicate copies of all data sent to Oil Conservation Commission at Santa Fe requesting their authority to initiate water injection.

Yours very truly,

*L. W. Brodie*

L. W. Brodie

Encs.

①

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Robert L. Parker Trust

3. ADDRESS OF OPERATOR

518 National Bank of Tulsa Bldg., Tulsa, Oklahoma 74103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

NW NW SW Sec. 35-24S-37E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)

3,191 D.F.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

16.

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

(Other)

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers, and zones pertinent to this work.)

It is proposed that the George L. Erwin well No. 2 be converted to water injection service, thereby joining into a "Co-operative Waterflood Project" with Amerada Petroleum's Langlie Mattix Woolworth Unit

- 1) Remove rods and tubing.
- 2) Run tubing with packer.
- 3) Set packer above Queens formation.
- 4) Inject water (300-600) BWPD into Queens Zone through perforation 3325-3372.

18. I hereby certify that the foregoing is true and correct

SIGNED

*L. M. Brink*

TITLE Agent

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE Aug. 18, 1970

DATE

\*See Instructions on Reverse Side

Note: U.S.G.S. instructions requests five copies of this to Hobbs District Office



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
P. O. Box 1157  
Hobbs, New Mexico 88240

August 24, 1970

Robert L. Parker Trust  
518 National Bank of Tulsa Building  
Tulsa, Oklahoma 74103

Attention: Mr. L. W. Brodie

Gentlemen:

Your letter of August 18 requests approval to institute a waterflood of the Seven Rivers-Queen formation in the NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 35, T. 24 S., R. 37 E., Lea County, New Mexico, lease Las Cruces 032874(a). Waterflood operations are to be on a lease basis in cooperation with the flood being carried out in the Langlie Mattix Woolworth unit area.

The plan you propose for waterflooding the Seven Rivers-Queen formation on lease Las Cruces 032874(a) is satisfactory to this office and is hereby approved.

Duplicate copies of a monthly progress report should be submitted showing the volume of water injected and average pressures for each injection well and monthly oil and water production for the producing wells in the project area.

Sincerely yours,

Arthur R. Brown  
District Engineer

Approval of this project by the New Mexico Oil  
Conservation Commission pursuant to rule 701  
is also required.

U.S.G.S.

(G)

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. LC-032874-A LCO-32874-A
2. NAME OF OPERATOR Robert L. Parker Trust	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 518 National Bank of Tulsa Bldg., Tulsa, Oklahoma 74103	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980 FSL and 330 FWL of NW-NW-SW Sec. 35-24S-37E	8. FARM OR LEASE NAME George L. Erwin
14. PERMIT NO.	9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GS, etc.) 3,191 D.F.	10. FIELD AND POOL, OR WILDCAT Langlie Mattix
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW 1/4 35-24S-37E
	12. COUNTY OR PARISH Lea
	13. STATE New Mexico

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Convert to injection <input checked="" type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

It is proposed that the George L. Erwin well No. 2 be converted to water injection service, thereby joining into a "Co-operative Waterflood Project" with Amerada Petroleum's Langlie Mattix Woolworth Unit

- 1) Remove rods and tubing.
- 2) Run tubing with packer.
- 3) Set packer above Queens formation.
- 4) Inject water (300-600) BWPD into Queens Zone through perforation 3325-3372.

Approval of the New Mexico Oil Conservation Commission to inject water into the reservoir pursuant to Rule 701 is also required.

18. I hereby certify that the foregoing is true and correct

SIGNED L. M. Beck

TITLE Agent

DATE Aug. 18, 1970

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED  
AUG 31 1970  
ARTHUR R. BROWN  
DISTRICT ENGINEER

\*See Instructions on Reverse Side

Note: U.S.G.S. instructions requests five copies of this to Hobbs District Office

*file*

AMERADA DIVISION  
AMERADA HESS CORPORATION

September 4, 1970

BOX 501  
MIDLAND, TEXAS 79701  
915-684-5381

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

*ERWIN LEASE*

RE: Robert L. Parker Trust  
Case No. 4416  
September 16, 1970

Dear Sir:

We have received Robert L. Parker Trust application for authority to institute a Cooperative Waterflood Project in the Langlie Mattix Pool, Lea County, New Mexico, by injecting into their #2 Erwin well, Unit L, Section 35, T-24-S, R-37-E.

The Erwin #2 well will complete a five spot flood pattern on the east side of the Langlie Mattix Woolworth Unit and will provide increased secondary recovery for this area. Amerada Hess Corporation supports this application and respectfully requests that their well be approved for water injection.

Very truly yours,

*D. G. Griffin*  
D. G. Griffin

DGG/kw

cc: Robert L. Parker Trust  
518 National Bank of Tulsa Bldg.  
Tulsa, Oklahoma 74103  
Attn: Mr. L. W. Brodie

(1)

**ROBERT L. PARKER TRUST**

**Oil Producer**

518 National Bank of Tulsa Building  
Tulsa, Oklahoma 74103

September 11, 1970

70 SEP 14 AM 8 31

Ac. 918 - 585-8221

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

*RMP*

Re: Robert L. Parker Trust  
George L. Erwin Lease  
SW 1/4 Section 35-T24S-R37E  
Lea County, New Mexico

Dear Sir:

Our application for authority to initiate a "Cooperative Waterflood Project" on subject lease, in Langlie-Mattis Pool was initially entered as Case No. 4416 on your Docket No. 20-70, and scheduled for examiner hearing in Sante Fe on Wednesday, September 2, 1970. At our request, you authorized continuance of our case to Docket No. 21-70, set for hearing on September 16, 1970 in Sante Fe.

Mr. Porter, I returned yesterday from an extended well completion job in Australia and have a "back-log" that has my time committed through the coming week. It will be appreciated if you will have our case continued to your hearing scheduled for September 30, 1970 on Docket No. 22-70.

Please advise if this continuation cannot be granted.

Yours very truly,

ROBERT L. PARKER TRUST

*H. E. Cobb, Jr.*  
H. E. Cobb, Jr.

HEC/jp

cc: N.M.O.C.C.  
Gulf Oil Corporation  
Mobil Oil Company  
Amerada Division  
Amerada Hess Corporation

*Called Mr. Cobb on  
Sept. 14th - DH*

DOCKET MAILED

Date *9-18-70*

OIL CONSERVATION COMMISSION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

August 4, 1970

DOCKET MAILED

Date 9-21-70

Case 4416

DOCKET MAILED

Date 9-2-70

Mr. L. W. Brodie  
Robert L. Parker Trust  
518 National Bank of Tulsa Building  
Tulsa, Oklahoma 74103

Re: Application for a waterflood  
project, Langlie-Mattix Pool,  
Lea County, New Mexico

Dear Mr. Brodie:

As the above-described application is not eligible for administrative approval, the matter is being set for hearing before an examiner on September 2, 1970. As soon as the docket is prepared you will be notified of the exact time and place to appear and present your case.

After secondary recovery operations are commenced, you will be required to file monthly Form C-102, Monthly Injection Report.

I am enclosing copies of several rules that you should find helpful in instituting the project.

Very truly yours,

GEORGE M. HATCH  
Attorney

GMH/esr  
Enclosures

C  
O  
P  
Y

**ROBERT L. PARKER TRUST**

*Oil Producer*

518 National Bank of Tulsa Building  
Tulsa, Oklahoma 74103

MAILED 10  
AUG 31 AM 8 12  
August 27, 1970

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

*PA*

Re: Robert L. Parker Trust  
George L. Erwin Lease  
SW 1/4 Section 35-T24S-R37E  
Lea County, New Mexico

Dear Sir:

Our application for authority to initiate a "cooperative water-flood project," on subject lease, in Langliè-Mattix Pool was entered as Case No. 4416 on your Docket No. 20-70, and scheduled for Examiner Hearing in Santa Fe on Wednesday, September 2, 1970.

As I explained to you in our phone conversation yesterday, Mr. Ed Cobb, Jr., who normally would attend the hearing, in Parker's behalf, is in Australia. We anticipate that he will be available to attend your hearing which is scheduled for September 16, 1970. We appreciate your understanding and cooperation in having granted verbal permission yesterday to have our case continued to the hearing scheduled for September 16.

Please send a copy of your docket for September 16 when it is available. Thank you.

Yours very truly,

*L. W. Brodie*

L. W. Brodie

cc-Mr. Joe Ramey  
N.M.O.C.C.  
P. O. Box 1980  
Hobbs, New Mexico

Gulf Oil Corporation  
Box 670  
Hobbs, New Mexico

Mobil Oil Company  
Box 633  
Midland, Texas

Mr. D. G. Griffin  
Technical Services Manager  
Amerada Division  
Amerada Hess Corporation  
Box 591  
Midland, Texas 79701



Docket No. 20-70

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 2, 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 4415: Application of Depco, Inc. for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by injection into the Grayburg and San Andres formations through 6 wells located in Sections 27, 33 and 34, Township 18 South, Range 28 East, Artesia Pool, Eddy County, New Mexico.

CASE 4416: Application of Robert L. Parker Trust for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a cooperative waterflood project in the Langlie-Mattix Pool on its George L. Erwin Lease by the injection of water through its Erwin Well No. 2 located in Unit L of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

CASE 4417: Application of J. Cleo Thompson for an exception to Order No. R-3221, as amended, Eddy 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 the applicant's Evans Wells Nos. 9 and 12 located, respectively, in Units A and B of Section 33, Township 16 South, Range 30 East, Square Lake Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of water produced by said wells in unlined surface pits located in the vicinity of said wells.

CASE 4418: Application of Texas Pacific Oil Company for amendment of Order No. R-3200, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3200, which order authorized the applicant to institute a waterflood project in the South Eunice Pool, Lea County, New Mexico, by the injection of water through six wells located in Sections 5, 8, and 9 of Township 22 South, Range 36 East. Applicant seeks authority to delete the six wells authorized in said Order R-3200 and substitute therefor six other wells located in said Sections 8 and 9.

September 2, 1970 - Examiner Hearing

-2-

Docket No. 20-70

CASE 4419: Application of Billings, Keyser and Kennedy for a non-standard gas proration unit, Eddy County, New Mexico. Applicant in the above-styled cause, seeks, in exception to Rule 104 B I, approval of a 320-acre non-standard gas proration unit comprising the NW/4 of Section 2 and Lots 1, 2 and 3 and the SE/4 NE/4 of Section 3, Township 22 South, Range 26 East, Eddy County, New Mexico, said unit to be dedicated to a wildcat gas well to be drilled in the NE/4 NE/4 of said Section 3.

CASE 4420: Application of Xplor Company for a dual completion, authority to gas-lift oil production, and to flare gas, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Cleveland Well No. 1 located in Unit G of Section 23, Township 12 South, Range 32 East, Lea County, New Mexico, in such a manner as to produce oil from the East Caprock-Devonian Pool through 2 3/8-inch tubing and gas from the Pennsylvanian formation within one mile of the East Caprock-Pennsylvanian Pool. Applicant further seeks authority to use a portion of said gas to gas-lift said oil production and to subsequently flare said gas in exception to Rule 404 of the Commission Rules and Regulations.

CASE 4421: Application of Phillips Petroleum Company for creation of a new oil pool, special pool rules therefor, and redesignation of the vertical limits of the Ranger Lake-Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new pool for the production of oil from the Bough section of the Pennsylvanian formation for its Phillips West Ranger Lake Unit Well No. 1 located in Unit C of Section 26, Township 12 South, Range 34 East, Lea County, New Mexico, and for the promulgation of special rules therefor including a provision for 80-acre spacing and proration units, with vertical limits of said pool to be the interval from sub-sea datum -5671 feet to -6016 feet as found in said Well No. 1. Applicant further seeks the contraction of the vertical limits of the Ranger Lake-Pennsylvanian Pool to that interval from sub-sea datum -6080 feet to -6230 feet as found in its West Ranger Lake Unit Tract 2 Well No. 1 located in Unit P of Section 23, said township and range.

CASE 4422: Application of Atlantic Richfield Company for amendment of Order No. R-3588, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3588, which order authorized the disposal of produced salt water into the Yates and Seven Rivers formation in the perforated

Case 4422 continued

and open-hole interval from 3110 feet to 3300 feet in the Sinclair ARC Federal Well No. 1 located in Unit O of Section 9, Township 20 South, Range 33 East, West Teas Pool, Lea County, New Mexico. Applicant now seeks authority to dispose into said zones in the interval from 3010 feet to 3300 feet.

CASE 4423: Application of Union Oil Company of California for compulsory pooling, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down to and including the San Andres formation underlying the N/2 NE/4 of Section 20, Township 8 South, Range 38 East, Bluit-San Andres Associated Pool, Roosevelt County, New Mexico. Said acreage to be dedicated to a well to be drilled at an orthodox location in the NW/4 NE/4 of said Section 20. Also to be considered will be the cost 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.

(Continued from the August 19, 1970 Examiner Hearing )  
CASE 4410: Application of Major, Giebel & Forster for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the SE/4 of Section 28, Township 25 South, Range 37 East, Crosby-Devonian Pool, Lea County, New Mexico, said acreage to be dedicated to a well to be drilled in said quarter section. Also, to be considered will be the cost 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.

**ROBERT L. PARKER TRUST**

*Oil Producer*

518 National Bank of Tulsa Building  
Tulsa, Oklahoma 74103

July 29, 1970

MAILED 11  
JUL 31 AM 8 09

*Set for hearing*

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

Re: Robert L. Parker Trust  
George L. Erwin Lease  
(Federal Lease No. LC 032874-A)  
SE SW Section 35-T24S-R37E  
Lea County, New Mexico

*Case 4416*

*wrong unit*  
*Unit*  
*NW/SW*

Gentlemen:

As you know, the subject lease adjoins AMERADA PETROLEUM'S LANGLIE MATTIX WOOLWORTH UNIT, which is now scheduled for expansion. We wish to soon initiate water injection into Erwin No. 2 Well, thereby beginning a cooperative flood with Amerada Petroleum.

Currently we submit to your office the Operator's Monthly Report (Form C-115 Rev. 10-1-61) and Annual Gas-Oil Ratio Tests (Form C-116).

Please send to us the instructions and required forms to obtain your permission to initiate secondary recovery operations on this lease. Also please advise if we will be required to prepare any additional reports after subject lease begins secondary operations.

Yours very truly,

*L. W. Brodie*

L. W. Brodie

LWB/ml

**ROBERT L. PARKER TRUST**

*Oil Producer*

518 National Bank of Tulsa Building  
Tulsa, Oklahoma 74103

August 18, 1970

*BM  
file - Core 4416*

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

'70 AUG 20 PM 1 10

Re: Robert L. Parker Trust  
George L. Erwin Lease  
SW 1/4 Section 35-T24S-R37E  
Lea County, New Mexico

Dear Sir:

Robert L. Parker Trust hereby applies for authority to initiate a "co-operative waterflood project," on subject lease, with Amerada Hess Corporation's expanded Langlie Mattix Woolworth Unit. Authority is requested to convert Parker Trust Erwin No. 2, NW NW SW Section 35, to injection service.

The attached plat shows the relationship of the proposed injection well to the expanded Amerada flood.

Injection will be into the Langlie Mattix zone with expected stabilized rate of 300-600 BWPD. Water for injection will be obtained from Amerada's input water system.

The following attachments accompany this request in compliance with Rule 701:

1. A plat showing proposed injection well.
2. Log of well.
3. Diagrammatic sketch of this proposed injection well.

Yours very truly,

*L. W. Brodie*

L. W. Brodie

Encs.

See attached Distribution Sheet

DISTRIBUTION SHEET

Original & cc: Mr. A. L. Porter, Jr.  
P. O. Box 2088  
Santa Fe, New Mexico

cc: Mr. Joe Ramey,  
N.M.O.C.C.  
P. O. Box 1980  
Hobbs, New Mexico

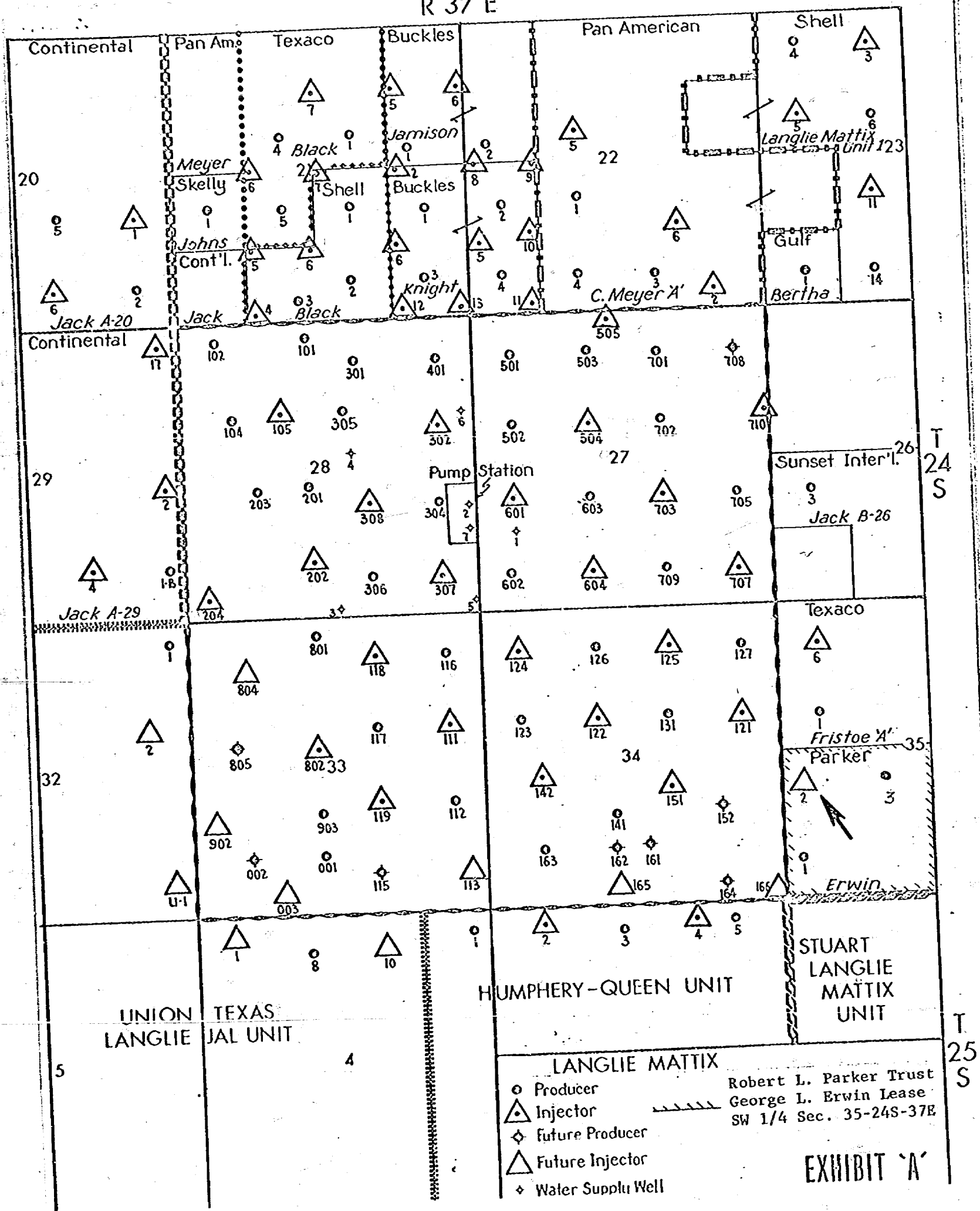
Gulf Oil Corporation  
Box 670  
Hobbs, New Mexico

Mobil Oil Company  
Box 633  
Midland, Texas

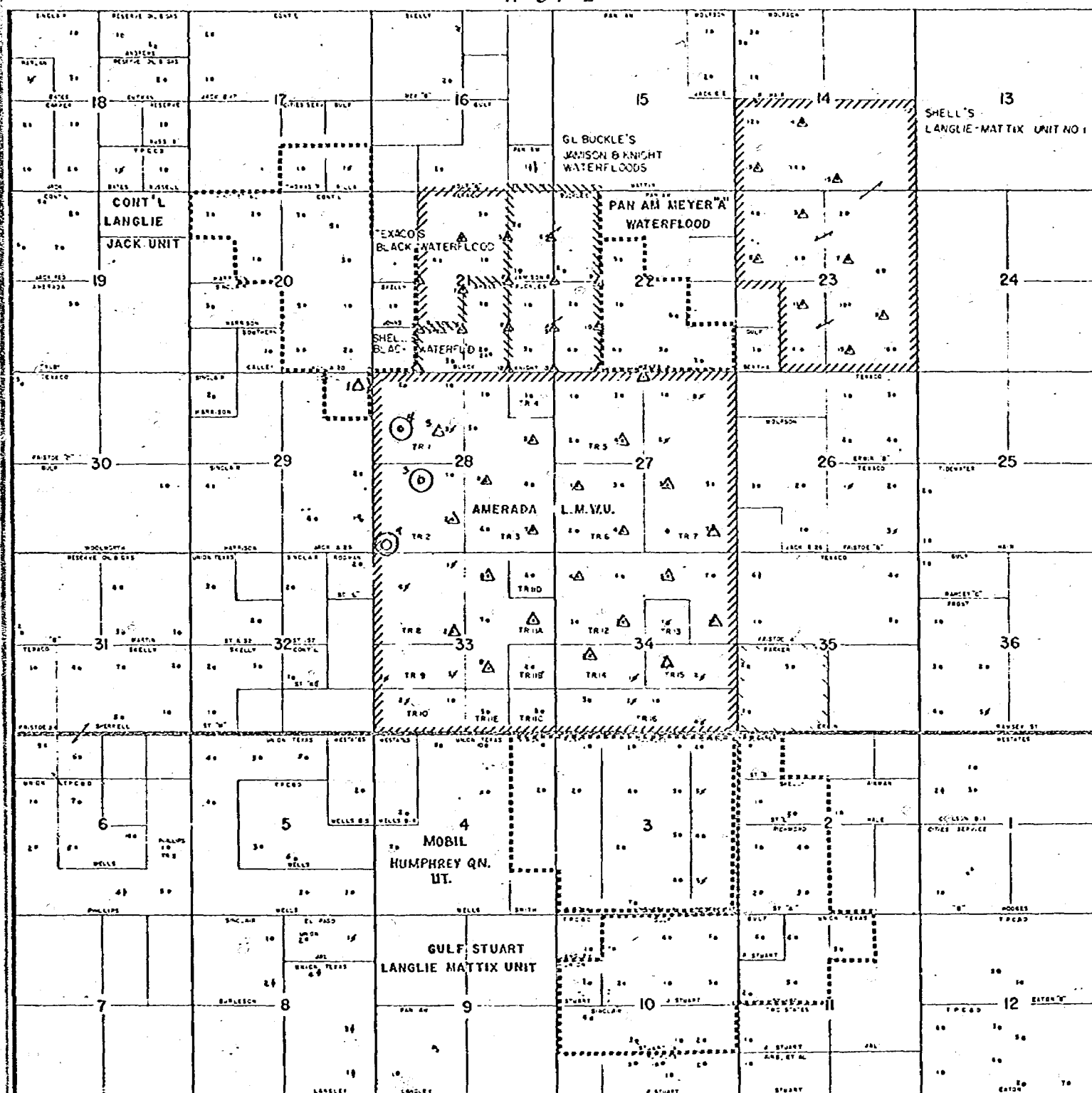
Duplicates to: Mr. Arthur Brown  
U.S.G.S. District Office  
P. O. Box 1157  
Hobbs, New Mexico 88240

Mr. D. G. Griffin  
Technical Services Manager  
Amerada Division  
Amerada Hess Corporation  
Box 591  
Midland, Texas 79701

R 37 E



R 37 E



- △ PRESENT INJECTION WELLS
- ⊙ PROPOSED PRODUCING WELLS TO BE DRILLED
- ⊙ PROPOSED INJECTION WELL TO BE DRILLED

AMERADA'S L.M.W.U.  
 LANGLEIE-MATTIX POOL  
 LEA CO., NEW MEXICO



FARM NO.		WELL NO.	
DIVISION		DISTRICT	
KIND OF RIG		5th	
COMMENCED		6/3/38	
COMPLETED		8/3/38	
REMARKS		116.5 bbl/day	
PRODUCTION			
INITIAL		SETTLED	
CASING AND SCREEN RECORD			
15 1/2" 70/setsld			
7" 3204/100 SX			
12 1/2" 100/100 SX			
10" 100/100			
12 1/2" 100/100 SX			
10" 100/100 SX			
SHOT QUARTS BETWEEN			
500 500-75			
LOG RL - H.J.B.			
Samples - H.B.G.			
3191.15			
32 3245'-3250'			
Inc G 3323'			
Est 2,000,000 gals			
3320-3330'			
3330-3340'			
3340-3410'			
3410-3417'			
3417-3420'			
3420-3425'			
3425-3430'			
3430-3435'			
3435-3440'			
3440-3445'			
3445-3450'			
3450-3455'			
3455-3460'			
3460-3465'			
3465-3470'			
3470-3475'			
3475-3480'			
3480-3485'			
3485-3490'			
3490-3495'			
3495-3500'			
3500-3505'			
3505-3510'			
3510-3515'			
3515-3520'			
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3595-3600'			
3600-3605'			
3605-3610'			
3610-3615'			
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3625-3630'			
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3755-3760'			
3760-3765'			
3765-3770'			
3770-3775'			
3775-3780'			
3780-3785'			
3785-3790'			
3790-3795'			
3795-3800'			
3800-3805'			
3805-3810'			
3810-3815'			
3815-3820'			
3820-3825'			
3825-3830'			
3830-3835'			
3835-3840'			
3840-3845'			
3845-3850'			
3850-3855'			
3855-3860'			
3860-3865'			
3865-3870'			
3870-3875'			
3875-3880'			
3880-3885'			
3885-3890'			
3890-3895'			
3895-3900'			
3900-3905'			
3905-3910'			
3910-3915'			
3915-3920'			
3920-3925'			
3925-3930'			
3930-3935'			
3935-3940'			
3940-3945'			
3945-3950'			
3950-3955'			
3955-3960'			
3960-3965'			
3965-3970'			
3970-3975'			
3975-3980'			
3980-3985'			
3985-3990'			
3990-3995'			
3995-4000'			

ROBERT L. PARKER TRUST  
George L. Erwin #2, NW NW SW, Sec. 35-24S-37E  
Langlie Mattix Pool, Lea County, New Mexico

D. F. Elevation = 3,191

13-3/8" @ 152' w/50 sacks

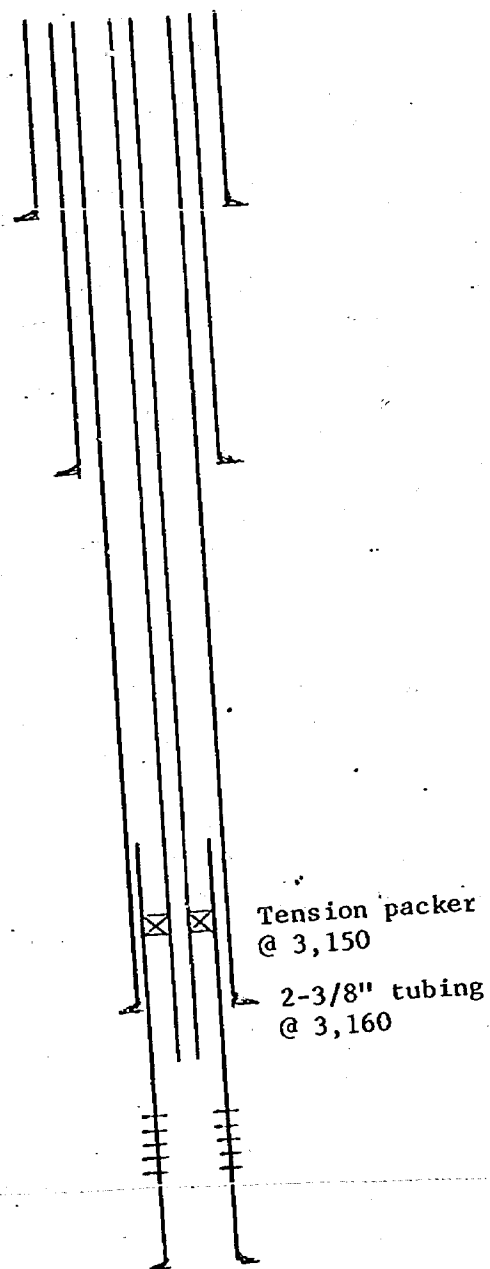
8-5/8" @ 1,319' w/100 sacks

7" @ 3,204' w/150 sacks

5-1/2" liner perforated 3,225-3,345'

5-1/2" liner 3,084-3,375' w/175 sacks

Total depth - 3,481



ROUGH DRAFT FOR WATERFLOOD LETTERS

Mr. Clarence Hinkle  
Hinkle, Bondurant, ~~Exch~~ Cox & Eaton  
Attorneys at Law  
Post Office Box 10  
Roswell, New Mexico 88201

Dear Sir:

*Endorsed herewith*  
Commission Order No. R-4044, entered in Case No. 4416, approving the Parker Trust Sample Mining Division Waterflood Project.

*Injection is to be through the one*  
*authorizing 1 water injection well, which shall*  
*be equipped with plastic tubing set in a*  
*packed located at approximately 3150 feet. The*  
*casing tubing annulus shall be packed with an*  
*inert fluid and equipped with a pressure gauge.*  
As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 12p barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

cc: OCC: Hobbs x  
Artesia         
Aztec       

USGS       

~~Mr. Frank Irby~~, State Engineer Office, Santa Fe, New Mexico  
Mr. D. E. Gray

DRAFT  
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:

CASE No. 4416

Order No. R-4044

APPLICATION OF ROBERT L. PARKER TRUST  
FOR A WATERFLOOD PROJECT, LEA COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 30, 1970,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this        day of October, 1970, the Commission, a  
quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Robert L. Parker Trust, seeks  
authority to institute a cooperative waterflood project in  
the Langlie-Mattix Pool on its George L. Erwin Lease by the  
injection of water into the Queen formation  
through its Erwin Well No. 2, located in Unit L of Section 35,  
Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.

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

(4) That the proposed waterflood project should result in  
the recovery of otherwise unrecoverable oil, thereby preventing  
waste.

(5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Robert L. Parker Trust,  
cooperative  
is hereby authorized to institute a/waterflood project in the  
~~=====Unit Area,=====Pool,~~  
~~by the injection of water into the=====formation~~  
~~through the following described wells in Township=====~~  
~~North, South, Range=====West, East, NMPM,=====~~  
~~County, New Mexico.~~

Langlie-Mattix Pool on its George L. Erwin Lease by the injection  
of water into the Queen formation through its  
Erwin Well No 2, located in Unit L of Section 35, Township 24  
South, Range 37 East, NMPM, Lea County, New Mexico

(2) That the subject waterflood project is hereby designated  
the <sup>Trust</sup>Parker Langlie Mattix Brown Waterflood Project and shall  
be governed by the provisions of Rules 701, 702, and 703 of the  
Commission Rules and Regulations.

(3) That monthly progress reports of the waterflood project  
herein authorized shall be submitted to the Commission in accor-  
dance with Rules 704 and 1120 of the Commission Rules and Regula-  
tions.

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

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

CASE 4417: Appli. of J. CLEO  
THOMPSON FOR AN EXCEPTION TO  
ORDER NO. R-3221, AS AMENDED.