

CASE 2633: Application of GENERAL
AMERICAN for expansion of water-
flood project in LOCO HILLS POOL.

5-1-1-1-1-1

2633

Index, Transcript,

// Exhibits, Etc.

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. 2633
Order No. R-2031-A

APPLICATION OF GENERAL AMERICAN OIL
COMPANY OF TEXAS FOR EXPANSION OF A
WATERFLOOD PROJECT IN THE LOCO HILLS
POOL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 11, 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 3rd 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 by Order No. R-2031, entered in Case No. 2334 on July 13, 1961, the applicant was authorized to institute a waterflood project in the Loco Hills Sand of the Loco Hills Pool, by the injection of water into certain wells fully described in said order.

(3) That by said Order No. R-2031, the following-described buffer zone was established wherein water could be injected and wells produced at rates comparable with those in the Newmont Waterflood Project:

SECTION 31, TOWNSHIP 17 SOUTH, RANGE 30 EAST
SE/4 NE/4 NE/4, S/2 NE/4, SW/4

SECTION 36, TOWNSHIP 17 SOUTH, RANGE 29 EAST
SE/4 SE/4

-2-

CASE No. 2633
Order No. R-2031-A

(4) That the applicant now seeks extension of the buffer zone created by Order No. R-2031 by addition of the following acreage:

SECTION 31, TOWNSHIP 17 SOUTH, RANGE 30 EAST
SW/4 NE/4 NE/4, S/2 NW/4 NE/4

(5) That the applicant further seeks authority to convert to water injection its Beeson F No. 10 Well, located 990 feet from the North line and 1650 feet from the East line of Section 31, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico, and to inject water through said well into the Loco Hills Sand of the Grayburg formation.

(6) That approval of the subject application will increase ultimate recovery of oil which otherwise might not be recovered, and will neither cause waste nor impair correlative rights.

IT IS THEREFORE ORDERED:

(1) That Order No. R-2031, entered in Case No. 2334 on July 13, 1961, is hereby amended by the addition of the following-described acreage to the buffer zone established in said order:

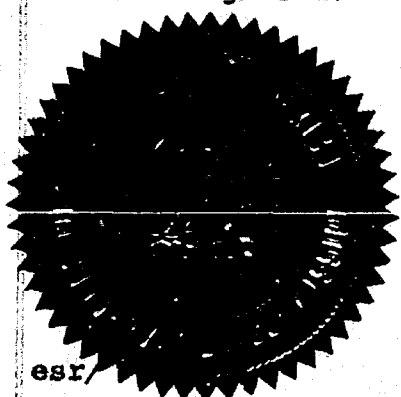
SECTION 31, TOWNSHIP 17 SOUTH, RANGE 30 EAST
SW/4 NE/4 NE/4, S/2 NW/4 NE/4

(2) That Order No. R-2031, entered in Case No. 2334 on July 13, 1961, is hereby amended by the addition of applicant's Beeson F No. 10 Well, located 990 feet from the North line and 1650 feet from the East line of Section 31, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico, to those wells approved by said order for the injection of water in the Loco Hills Sand of the Loco Hills Pool.

(3) That Order No. R-2031, entered in Case No. 2334 on July 13, 1961, shall remain in full force and effect except as amended by this order.

(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.

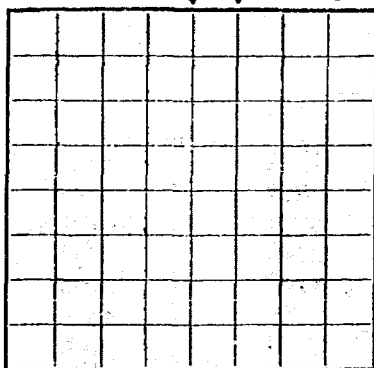


STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

E. L. Mechem
EDWIN L. MECHEM, Chairman

E. S. Walker
E. S. WALKER, Member

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

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 060529
LEASE OR PERMIT TO PROSPECT Beeson F

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Premier Petroleum Corporation Address Box 337, Artesia, New Mexico
 Lessor or Tract Beeson Field Loco Hills State New Mexico
 Well No. 10-F Sec. 31 T. 17 R. 30 Meridian N.M.P.M. County Eddy
 Location 990 ft. [X] of N. Line and 1650 ft. [X] of E. Line of Section 31 Elevation (Denote floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

Signed _____

Date March 7, 1944 Title Secretary

The summary on this page is for the condition of the well at above date.

Commenced drilling December 23, 1944 Finished drilling March 3, 1944

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8" casing	21 lbs.	4 1/2	API	75 sacks	75 sacks	632 ft.			Drilling

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	632 ft.	75 sacks	International		Mud

PLUGS AND ADAPTERS

LD MARK

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	None					

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet

Cable tools were used from feet to feet, and from feet to feet

DATES

....., 19..... Put to producing None 19.....

The production for the first 24 hours was No barrels of fluid of which No % was oil; %
emulsion; % water; and % sediment. Gravity, °Bé. None

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

..... E. B. Luke Driller Aubrey F. Smith Driller

..... P. F. Johnson Driller G. P. Galloway Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	55		Surface
55	115		Red Rock
115	175		Red Beds
175	230		Red Rock
230	305		Red Beds (sandstone has been removed)
305	410		Red Rock
410	470		Gyp
470	515		Red Beds
515	540		Red Rock
540	575		Red Beds
575	605		Pellymite
605	1075		Salt
1075	2300		Anhydrite
2300	2320		Red Sand
2320	2335		Anhydrite
2335	2345		Gray Lime Shells
2345	2360		Brown Sandy Lime
2360	2385		Anhydrite and Lime
2385	2605		Brown Sandy Lime
2605	2630		Anhydrite
2630	2660		Lime
2660	2680		Gray Lime
2680	2700		Lime
2700	2715		Gray Lime
2715	2748		Lime

AT THE END OF COMPLETE DRILLER'S
LOG, ADD GEOL. NOTES. STATE
WHETHER FROM 1, 10, 100 SAMPLES.

(OVER) FORMATION RECORD BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 3

CASE NO. 2633

WELL NO. _____
 EXHIBIT NO. _____
 OIL CONSERVATION DISTRICT

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
2748	2764		Gray Lime
2764	2780		Lime
2780	2790		Dark Gray Lime
2790	2804		Lime
2804	2823		Gray Sand
2823	2824		Sand
2824	2875		Gray Lime
2875	2885		Lime
2885	2975		Gray Lime
2975	2985		Brown and Gray Lime
2985	3018		Light Gray Lime
3018	3032		Lime
3032	3055		Gray Sandy Lime
3055	3065		Lime
3065	3092		Gray Lime
3092	3127		Pink Lime
3127	3135		Gray Lime
3135	3146		Pink Lime
3146	3174		Gray Lime
3174	3200		TOTAL DEPTH (Plugged and Abandoned)
3200	3200		
3200	3200		
3200	3200		
3200	3200		

FROM- TO- TOTAL FEET FORMATION

FORMATION RECORD

Driller _____

Driller _____

EMPLOYEES

Rock pressure, lbs. per sq. in. _____

Gas flow, cu. ft. per 24 hours _____

Completion: _____

The production for the first 24 hours was _____

Bar to producing _____

VALUES

Cable tools were used from _____

Bottom tools were used from _____

TOOLS USED

SHOOTING RECORD

Shooting _____

[illegible]

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "backtracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

DATE	TIME	LOCATION	NAME	ADDRESS	CITY OR TOWN	COUNTY AND STATE	PHONE NO.	TELETYPE NO.
09-10-68	10:00 AM	High School						

CYCLING RECORD

100 5' 10m	to	100 5' 10m	to
100 1' 10m	to	100 1' 10m	to

UNBORN WATER SANDS

№ 3 пом.	№ 3 пом.	№ 3 пом.	№ 3 пом.
№ 5 пом.	№ 5 пом.	№ 5 пом.	№ 5 пом.
№ 1 пом.	№ 1 пом.	№ 1 пом.	№ 1 пом.

OIF OR CUE SYMBS OR SOME2

Содержание дел 10¹¹ 10¹¹

The authority on this page is for the condition of the men at these camps

Date: NOV 11 1964 File: 100-9524

SO 191: 83 CAN PG DESTROYED FROM AN EXTENSIVE LOSS

The information below refers to a complete and correct record of the men and women who were

LOCATION --- 000-1879 OF 1 PUBLIC AND 1338 IF 141 OF 1 PUBLIC OF --- 660701-77

Mail No. 10-1 Sec 35 L 13 R 36 Meridian 5 33 1/2 Corner 5000

Page of Log ----- Page ----- Date -----

[illegible]

ГОСУДЕ МЕРГ СОУБЕСИГА

[illegible]

TOC OF OIL OR GAS METT

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

704-3011

REF: ON J, E, WILL JO, NOVYKOL

SECRET - (S)

U.S. FIVE DOLLAR OFFICE --- 180-21600 ---

PHOTOGRAPHED 15-31-69
RUCOSTE 1111000 140' 45-13387

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 871
SANTA FE

October 3, 1962

Mr. John F. Russell
Campbell & Russell
Attorneys at Law
P. O. Drawer 640
Roswell, New Mexico

Re: CASE NO. 2640
2639
2633
ORDER NO. R-2324, R-2327 and R-2031-
APPLICANT: A
General American Oil Company

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

lr/

Carbon copy of order also sent to:

Hobbs OCC x
Artesia OCC x
Aztec OCC

OTHER

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

September 11, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of General American Oil
Company of Texas for expansion of a
waterflood project, Eddy County, New
Mexico. Applicant, in the above-
styled cause, seeks expansion of its
waterflood project in the Loco Hills
Pool by the conversion to water
injection of its Beeson "F" Well No.
10, located in Unit B of Section 31,
Township 17 South, Range 30 East,
Eddy County, New Mexico.

CASE NO. 2633

BEFORE:

Elvis A. Utz, Examiner

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

ALBUQUERQUE, N. M.
PHONE 243-6691



TRANSCRIPT OF HEARING

MR. UTZ: Case Number 2633.

MR. DURRETT: Application of General American Oil Company of Texas for expansion of a waterflood project, Eddy County, New Mexico.

MR. RUSSELL: John F. Russell of Campbell & Russell, Roswell, New Mexico, appear on behalf of the Applicant. We have one witness at this time to be sworn.

(Witness sworn.)

MR. UTZ: Are there other appearances in this case?
You may proceed.

RAYMOND MILLER

called as a witness herein, having been first duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. RUSSELL:

Q Will you please state your name, your address, by whom you are employed and what your position is?

A Raymond Miller, Artesia, New Mexico. I am the New Mexico District Engineer for General American Oil Company of Texas.

Q Have you previously qualified as an expert with this Commission?

A I have.

Q Are you familiar with the Application which has been filed in Case Number 2633?

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PHONE 243-6691



A I am.

Q Will you briefly describe what you seek to accomplish by the Application?

A We are asking permission from the Commission to add an additional injection well within the limits of the waterflood project which they have previously approved under Order Number R-2031. This well was depicted here.

MR. RUSSELL: One moment.

MR. UTZ: Is there any difference in this map and the one presented with the Application?

A (The witness) No, sir. It's identical.

Q (By Mr. Russell) Will you please tell the Examiner what that plat reflects?

A Well, it shows the location of the proposed injection of the well, the Beeson "F" No. 10, which is 990 from the north line and 1650 from the east line, Section 31, Township 17 South, Range 30 East. It also shows all the wells within a two-mile radius of this proposed injection well and shows the formation or formations from which they are producing or have produced.

Q Now, this well is located within a presently approved waterflood project, is it not?

A Yes, sir, it is.

Q At the time of the original Application, this was not included in the Application for an injection well?

A It was not.

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FARMINGTON, N. M.
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FARMINGTON, N. M.
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ALBUQUERQUE, N. M.
PHONE 243-6691

Q Will you please explain why?

MR. UTZ: Will you please tell us the location of that again?

A 990 feet from the north line and 1650 feet from the east line, Section 31, Township 17 South, Range 30 East.

MR. UTZ: Will you give us the number of the well again?

A The Beeson "F" 10.

MR. UTZ: Okay, thank you.

A This well was originally drilled in 1944 as a dry hole and at the time of our original Application for waterflooding we did not think it would be a successful injection well. Since then, we have drilled the Beeson "F" No. 15, which is approximately 660 feet south and some 200 feet east of this well and the sand, the Loco Hills sand is encountered in Well 15 and this encouraged us to believe that Beeson Well No. 10 would be a successful injection well.

(Whereupon Applicant's Exhibit No. 1 and 2 were marked for identification.)

Q (By Mr. Russell) Referring you to what has been marked Exhibit No. 2, I hand it to you and ask you to explain what that is?

A That is a log of the well as filed with the U. S. Geological Survey at the time the well was planned. It shows the casing program and also the formations encountered here in the driller's log, the drilling log.

Q To what depth?



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A 3391 feet.

Q And was the proposed well, was it a producing well?

A No, sir. It was plugged and abandoned.

(Whereupon Applicant's Exhibit No. 3 was marked for identification.)

Q Now, I refer you to Exhibit No. 3 and ask you to identify that and explain that?

A That is a status sheet showing the condition of the well at the present time. It also shows the geologic properties of the well and also outlines in brief our proposed conversion program.

Q Will you briefly outline that?

A We propose to drill out cement and wooden plugs. We propose to clean out old six quarter inch shoulder amount 2921 radio activity and caliper log at this depth and we will run approximately 250 to 300 feet of seven inch OD casing as a liner from 2671 to 2921 and cement it from the bottom to the top.

Q Now, after conversation with the State Engineer, you have agreed that the liner will be run from 2621 to 2921?

A Yes, sir. That is correct. Of course, I might point out the exact depth this liner will be run should be determined after we run the caliper back, primarily to make sure the top of it is not in a large hole. It will be at least 2621, however, it might be higher.

Q Do you request the Commission to allow you to amend the casing program which was submitted with the Application to



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read 2900?

A I think it shows approximately, depending upon the-- just the size, but it will be at least to that height.

Q What is the source of water for this proposed injection well?

A We will use the water that is now being injected in the other seven inch injection wells in the project we purchased from the Caprock Water Company.

Q Will that be fresh water?

A Fresh water.

Q What will the injection rate be?

A From 500 to a thousand barrels of water a day, that is the rate at which our lease line cooperative agreement calls for in the other wells.

Q What zones or formation and what depth do you propose to inject the water?

A Although the company qualifies in the San Andres-Grayburg formation and from 1000 to 2820 in this particular well.

Q Were Exhibits No. 1, 2 and 3 prepared by you or under your supervision?

A They were.

MR. RUSSELL: I would like to offer Exhibits 1, 2 and 3 in evidence at this time.

MR. UTZ: Without objection, they will be entered into the record.



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PHONE 243-6691

Q (By Mr. Russell) Is there anything further not in the Application that you would like to say at this time?

A No.

MR. RUSSELL: Mr. Examiner, that concludes our direct.

MR. UTZ: Once more, could we have the location of this?

A (The Witness) 990 from the north and 1650 from the east of Section 31. I believe it is on the status sheet there, Mr. Utz, right at the top of it and on the well log.

MR. UTZ: Yes, it is. All right.

CROSS EXAMINATION

BY MR. UTZ:

Q Is this capacity flood?

A Yes, we have a buffer zone set up from producing wells in there and as the off-set flood is a capacity flood, we are receiving capacity allowable.

Q Is this well in the buffer zone?

A No, it's outside.

Q Outside?

A Yes, sir.

MR. UTZ: Are there any other questions? If not, the witness is excused. Are there any other statements in this case? The case will be taken under advisement.

* * *



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 before the New Mexico Oil Conservation Commission was reported by me in Stenotype and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this, the 11th day of October, 1962, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

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. 2633 heard by me on 9-11, 1962.
Michael Rice, Examiner
 New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
 PHONE 325-1182

ALBUQUERQUE, N. M.
 PHONE 243-6691



Memo

From

JAMES M. DURRETT JR.
GENERAL COUNSEL

To

Please note that Elvin recommended that order no R-2031 be superseded. I did not do this as I understood they are still using some of the wells under R-2031. Also it contains provisions concerning storage & production outside buffer zone. (copy of R-2031 in file)

OK -- JMC

Case 2633

Heard 9-21-62

Rec. 9-21-62

Grant Gen. Am. request for
an extension to the Buffer zone
created by R-2031 consisting of the
following Acreage.

175 - 30 E,

Sec. 31, SW 1/4 NE 1/4 NE 1/4,
S 1/2 N 1/4 NE 1/4

30 Ac. M or L.

Also grant approval of injection
well: Gen. Am. Benson F #10,

unit B-31-175-30 E

Suggest no cement + supersede
R-2031.

[Signature]

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. 2334
Order No. R-2031.

APPLICATION OF GENERAL AMERICAN
OIL COMPANY OF TEXAS FOR PERMIS-
SION TO INSTITUTE A WATERFLOOD
PROJECT IN THE LOCO HILLS POOL,
EDDY COUNTY, NEW MEXICO, AND FOR
SPECIAL ALLOWABLES IN CONNECTION
THEREWITH.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 6, 1961, 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 13th day of July, 1961, 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, General American Oil Company of Texas, is the owner and operator of Federal Lease IC 060529, comprising in pertinent part the NE/4 and the SW/4 of Section 31, Township 17 South, Range 30 East, and of the State Lease B-1778, comprising in pertinent part the SE/4 SE/4 of Section 36, Township 17 South, Range 29 East, all in Eddy County, New Mexico.

(3) That said leases are direct offsets to certain leases in the Loco Hills Pool upon which Newmont Oil Corporation is presently conducting waterflood operations.

(4) That in the interest of increasing ultimate recovery and of producing oil which otherwise might not be recovered, applicant seeks authority to institute a waterflood project on the above-described leases by the injection of water into the Loco Hills Sand, which occurs in this area at a depth of

(6) That the applicant should be permitted to institute a waterflood in the Loco Hills Sand of the Loco Hills Pool, Eddy County, New Mexico, by the injection of water into the wells described in Finding No. 4 above, and that a buffer zone should be established wherein water can be injected and wells produced at rates comparable to those in the Newmont Waterflood Project.

(7) That said buffer zone should include the following-described acreage:

SECTION 31, TOWNSHIP 17 SOUTH, RANGE 30 EAST
SE/4 NE/4 NE/4, S/2 NE/4, SW/4

SECTION 36, TOWNSHIP 17 SOUTH, RANGE 29 EAST
SE/4 SE/4

(8) That all producing wells located outside the above-described buffer zone should be operated and produced in accordance with the allowable provisions of Rule 701 of the Commission's Rules and Regulations, the project area being limited to that portion of the subject leases which is not included in the buffer zone.

(9) That production from wells outside the buffer zone should be tanked separately from production from wells inside the buffer zone, unless the applicant receives approval from the Commission for some other satisfactory means of determining production from each of the two areas.

(10) That the applicant should be permitted to drill its Beeson "F" Well No. 15 as an additional producing well at an unorthodox location 1660 feet from the North line and 1480 feet from the East line of Section 31, Township 17 South, Range 30 East.

(11) That Order No. R-1970 entered in Case No. 2238 should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, General American Oil Company of Texas, is hereby authorized to institute a waterflood in the Loco Hills Sand of the Loco Hills Pool on its Federal Lease LC 060529, comprising the NE/4 and the SW/4 of Section 31, Township 17 South, Range 30 East, and on its State Lease B-1778, comprising the SE/4 SE/4 of Section 36, Township 17 South, Range 29 East, all in Eddy County, New Mexico, by the injection of water into the following-described wells to be converted from producing wells:

Beeson "F" No. 2, located
330 feet from the South
line and 330 feet from the
West line,

-2-

CASE No. 2334
Order No. R-2031

approximately 2800 feet below the surface, into the following wells which would be converted from producing wells:

Beeson "F" No. 2, located
330 feet from the South
line and 330 feet from the
West line,

Beeson "F" No. 4, located
1650 feet from the South
line and 2310 feet from the
West line,

Beeson "F" No. 5, located
2310 feet from the North
line and 1650 feet from the
East line,

Beeson "F" No. 11, located
1650 feet from the North
line and 330 feet from the
East line,

all in Section 31, Township 17 South, Range 30 East, NMPPM, Eddy
County, New Mexico, and into the following wells which would be
drilled at unorthodox locations:

State "A" No. 2, located
1295 feet from the South
line and 990 feet from the
East line of Section 36,
Township 17 South, Range
29 East,

Beeson "F" No. 16, located
2310 feet from the South
line and 1300 feet from the
West line of Section 31,
Township 17 South, Range
30 East,

Beeson "F" No. 17, located
2615 feet from the South
line and 25 feet from the
West line of Section 31,
Township 17 South, Range
30 East.

(5) That inasmuch as the Newmont Oil Corporation's water-
flood is of the "capacity allowable" type with relatively high
injection rates, applicant in this cause proposes to inject at
equivalent rates and requests special allowables for its produc-
ing wells.

(6) That the applicant should be permitted to institute a waterflood in the Loco Hills Sand of the Loco Hills Pool, Eddy County, New Mexico, by the injection of water into the wells described in Finding No. 4 above, and that a buffer zone should be established wherein water can be injected and wells produced at rates comparable to those in the Newmont Waterflood Project.

(7) That said buffer zone should include the following-described acreage:

SECTION 31, TOWNSHIP 17 SOUTH, RANGE 30 EAST
SE/4 NE/4 NE/4, S/2 NE/4, SW/4

SECTION 36, TOWNSHIP 17 SOUTH, RANGE 29 EAST
SE/4 SE/4

(8) That all producing wells located outside the above-described buffer zone should be operated and produced in accordance with the allowable provisions of Rule 701 of the Commission's Rules and Regulations, the project area being limited to that portion of the subject leases which is not included in the buffer zone.

(9) That production from wells outside the buffer zone should be tanked separately from production from wells inside the buffer zone, unless the applicant receives approval from the Commission for some other satisfactory means of determining production from each of the two areas.

(10) That the applicant should be permitted to drill its Beeson "F" Well No. 15 as an additional producing well at an unorthodox location 1660 feet from the North line and 1480 feet from the East line of Section 31, Township 17 South, Range 30 East.

(11) That Order No. R-1970 entered in Case No. 2238 should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, General American Oil Company of Texas, is hereby authorized to institute a waterflood in the Loco Hills Sand of the Loco Hills Pool on its Federal Lease LC 060529, comprising the NE/4 and the SW/4 of Section 31, Township 17 South, Range 30 East, and on its State Lease B-1778, comprising the SE/4 SE/4 of Section 36, Township 17 South, Range 29 East, all in Eddy County, New Mexico, by the injection of water into the following-described wells to be converted from producing wells:

Beeson "F" No. 2, located
330 feet from the South
line and 330 feet from the
West line,

-4-

CASE No. 2334
Order No. R-2031

Beeson "F" No. 4, located
1650 feet from the South
line and 2310 feet from the
West line,

Beeson "F" No. 5, located
2310 feet from the North
line and 1650 feet from the
East line,

Beeson "F" No. 11, located
1650 feet from the North
line and 330 feet from the
East line,

all in Section 31, Township 17 South, Range 30 East, NMPM, Eddy
County, New Mexico, and into the following wells to be drilled
at unorthodox locations, which are hereby approved:

State "A" No. 2, located
1295 feet from the South
line and 990 feet from the
East line of Section 36,
Township 17 South, Range
29 East,

Beeson "F" No. 16, located
2310 feet from the South
line and 1300 feet from the
West line of Section 31,
Township 17 South, Range
30 East,

Beeson "F" No. 17, located
2615 feet from the South
line and 25 feet from the
West line of Section 31,
Township 17 South, Range
30 East.

(2) That the following-described buffer zone is hereby
established wherein water can be injected and wells produced at
rates comparable with those in the Newmont Waterflood Project:

SECTION 31, TOWNSHIP 17 SOUTH, RANGE 30 EAST
SE/4 NE/4 NE/4, S/2 NE/4, SW/4

SECTION 36, TOWNSHIP 17 SOUTH, RANGE 29 EAST
SE/4 SE/4

-5-

CASE No. 2334
Order No. R-2031

(3) That all producing wells located outside the above-described buffer zone shall be operated and produced in accordance with the allowable provisions of Rule 701 of the Commission's Rules and Regulations, the project area being limited to that portion of the subject leases which is not included in the buffer zone.

(4) That production from wells outside the buffer zone shall be tanked separately from production from wells inside the buffer zone, unless the applicant receives approval from the Commission for some other satisfactory means of determining production from each of the two areas.

(5) That the applicant is hereby authorized to drill its Beeson "F" Well No. 15 as a producing well, at an unorthodox location 1660 feet from the North line and 1480 feet from the East line of Section 31, Township 17 South, Range 30 East.

(6) That Order No. R-1970 entered in case No. 2238 is hereby superseded.

(7) 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

S E A L

esr/

DOCKET: EXAMINER HEARING - TUESDAY - SEPTEMBER 11, 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, alternate examiner:

CASE 2612 (Continued)

Application of Texaco Inc. for a tubing exception, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to produce its C. C. Fristoe (b) NCT-2 Well No. 6, located in Unit H of Section 35, Township 25 South, Range 37 East, Lea County, New Mexico, North Justis-Devonian Pool, through a string of 1 1/2-inch OD tubing run with a packer inside of a 2 7/8-inch OD casing.

CASE 2626: Application of La Plata Gathering System, Inc., for a dual completion at an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a Basin Dakota-Blanco Mesaverde dual completion at an unorthodox location 1680 feet from the South line and 734 feet from the East line of Section 19, Township 32 North, Range 5 West, Rio Arriba County, New Mexico.

CASE 2627: Application of La Plata Gathering System, Inc., for an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox Blanco Mesaverde well location 1,790 feet from the North line and 790 feet from the East line of Section 24, Township 32 North, Range 6 West, Rio Arriba County, New Mexico.

CASE 2628: Application of Marathon Oil Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location in the Atoka-Pennsylvanian Gas Pool at a point 990 feet from the North line and 990 feet from the East line of Section 30, Township 18 South, Range 26 East, Eddy County, New Mexico.

CASE 2629: Application of S. P. Yates Drilling Company for approval of a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Pecos River Deep Unit Agreement comprising 17,257.82 acres, more or less, of State, Federal and Fee lands in Township 19 South, Ranges 26 and 27 East, and Township 20 South, Range 26 East, Eddy County, New Mexico.

Docket No. 26-62

Examiner Hearing September 11, 1962

- CASE 2630: Application of Gulf Oil Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Graham State (NCT-I) Well No. 1, located in Unit M of Section 19, Township 21 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in the Paddock, Blinebry and Drinkard Oil Pools with the production of oil from all three zones to be through parallel strings of tubing.
- CASE 2631: Application of Moran Oil Producing and Drilling Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the triple completion (conventional) of its Owen Well No. 1, located in Unit E, Section 14, Township 21 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce Blinebry oil, Tubb gas, and Drinkard oil through parallel strings of tubing.
- CASE 2632: Application of Humble Oil & Refining Company for an order establishing special rules and regulations for the Four Lakes-Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing special rules and regulations for the Four Lakes-Pennsylvanian Pool, Lea County, New Mexico, to include provisions for 80-acre oil proration units therein.
- CASE 2633: Application of General American Oil Company of Texas for expansion of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks expansion of its waterflood project in the Loco Hills Pool by the conversion to water injection of its Beeson F Well No. 10, located in Unit B of Section 31, Township 17 South, Range 30 East, Eddy County, New Mexico.
- CASE 2634: Application of Ambassador Oil Corporation for approval of a unit agreement and waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Grayburg-Jackson Pool, with the initial injection of water to be through six wells located in Sections 22, 23, and 26, Township 17 South, Range 30 East, Eddy County, New Mexico, said project to be governed by Rule 701. Applicant further seeks approval of the Grayburg-Jackson Unit Agreement embracing 1600 acres, more or less, of federal and State lands in Township 17 South, Range 30 East, Eddy County, New Mexico.

Docket No. 26-62

Examiner Hearing September 11, 1962

- CASE 2635: Application of L. R. French, Jr. for an order creating a new pool and establishing temporary rules or extension of the South Lane Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order creating a new pool for Pennsylvanian production; the discovery well for said pool is the Gulf-State Well No. 1, located in Unit A of Section 18, Township 11 South, Range 34 East, Lea County, New Mexico, completed in the Bough "C" zone of the Pennsylvanian formation. Applicant further seeks establishment of special rules and regulations governing said pool, including 80-acre proration units. As an alternative, applicant seeks extension of the South Lane Pennsylvanian Pool to include said Gulf-State Well No. 1.
- CASE 2639: Application of General American Oil Company of Texas for a water-flood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a pilot waterflood project in the Upper San Andres formation, Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into its Keeley "B" Well No. 13, located in Unit H, Section 26, Township 17 South, Range 29 East.
- CASE 2640: Application of General American Oil Company of Texas for a water-flood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a pilot waterflood project in the Grayburg zone of the San Andres formation, Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into its Keeley "C" Well No. 25, located in Unit O, Section 25, Township 17 South, Range 29 East.
- CASE 2641: Application of Continental Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a non-standard 80-acre gas proration unit, Blinebry Gas Pool, Lea County, New Mexico, said unit to comprise the NW/4 NW/4 and SE/4 NW/4 of Section 10, Township 21 South, Range 37 East, and be dedicated to applicant's State 10 Well No. 1, located in the NW/4 NW/4 of said Section 10.

ir/

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF)
GENERAL AMERICAN OIL COMPANY OF TEXAS)
FOR PERMISSION TO CONVERT TO WATER)
INJECTION WELL ONE WELL ON ITS BEESON)
F FEDERAL LEASE LC 060529 IN SECTION 31,)
TOWNSHIP 17 SOUTH, RANGE 30 EAST, EDDY)
COUNTY, NEW MEXICO.)

No. 2633

A P P L I C A T I O N

COMES NOW General American Oil Company of Texas, by
its attorneys, Campbell & Russell, Roswell, New Mexico, and
states:

1. It is the owner and operator of a waterflood project in the Loco Hills Sand of the Loco Hills Pool as authorized by the Commission's Order No. R-2031.
2. It desires to convert to a water injection well the following: Their Beeson F No. 10 Well located 990 feet from the North line and 1650 feet from the East line of Section 31, Township 17 South, Range 30 East, Eddy County, New Mexico.
3. The proposed injection well will be flooding the Loco Hills Sand of the Grayburg Formation.
4. The injection rate will be a minimum of 500 barrels of water per day with a maximum of 1000 barrels of water per day.
5. It attaches the following:
 - A. Plat of area.
 - B. Casing and Cement Record of injection well.
 - C. Copy of log.

WHEREFORE, Applicant requests this matter be set down for hearing before an examiner; that notice be published as required by law and that after hearing, the Commission issue its order permitting the conversion to a water injection well as requested.

Respectfully submitted,

GENERAL AMERICAN OIL COMPANY OF TEXAS

BY: John F. Russell
Campbell & Russell
Box 640
Roswell, New Mexico

Its Attorneys

LAW OFFICES OF
CAMPBELL & RUSSELL
SUITE 1010 SECURITY NATIONAL BANK BUILDING
P. O. DRAWER 640
ROSWELL, NEW MEXICO

JACK M. CAMPBELL
JOHN F. RUSSELL

TELEPHONE 622-4641
AREA CODE 505

Page 2433

August 16, 1962

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

Gentlemen:

We transmit herewith in triplicate the application of General American Oil Company of Texas with the accompanying exhibits.

A copy of the application and the exhibits are being forwarded this date to the State Engineer.

Very truly yours,

CAMPBELL & RUSSELL

John F. Russell
John F. Russell

JFR:sah

cc: Mr. S. E. Reynolds
State Engineer
Santa Fe, New Mexico

General American Oil Company of Texas
Loco Hills, New Mexico

*Rechecked
Mailed
8/31/62*

General American Oil Company of Texas
Beeson F #10

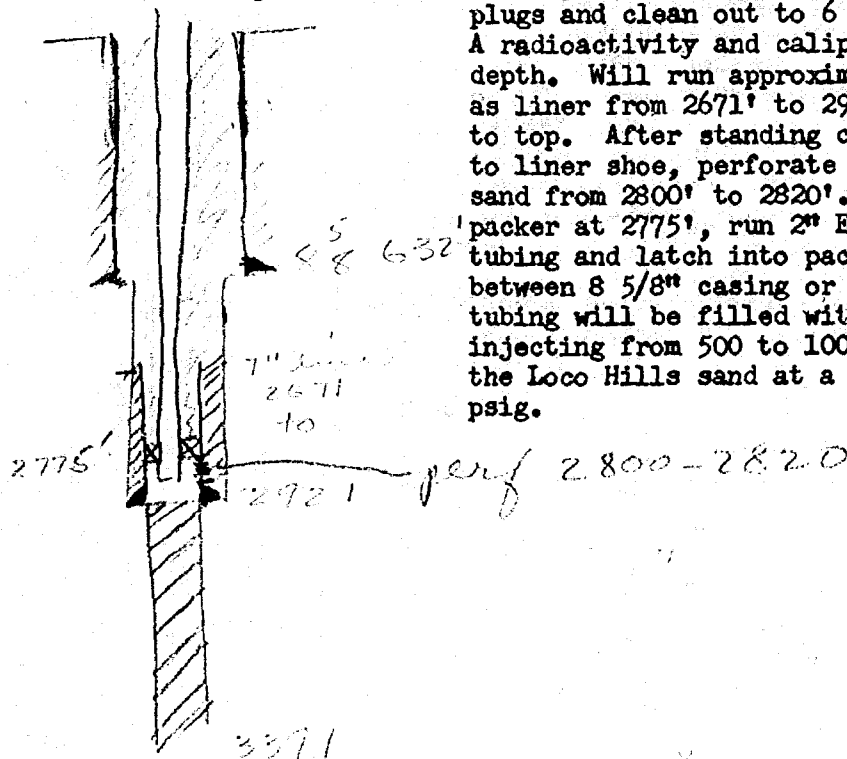
Located 990' from North line & 1650' from East line of Section 31,
Township 17 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.

Present Status: Plugged & Abandoned; T.D. 3391'; 8 5/8" @ 632' w/75
sacks. Wooden plug & 15 sacks cement 1075 to 1065',
Wooden plug & 10 sacks cement 632 to 625'.

Hole Size: 10" from 0' to 632', 8" from 632' to 2921', 6 1/4"
from 2921' to 3391'.

Geologic Tops: Elevation 3589'
Top Salt 605' (Drlr.)
Base Salt 1075' (Drlr.)
Top Queen 2289' (Smpls.)
Top Grayburg 2632' (Smpls.)
Top San Andres 3060' (Smpls.)

Proposed Conversion: Operator proposes to drillout cement & wooden
plugs and clean out to 6 1/4" shoulder at 2921'.
A radioactivity and caliper log will be run to this
depth. Will run approximately 250' of 7" OD casing
as liner from 2671' to 2921' and cement from bottom
to top. After standing cemented we will clean out
to liner shoe, perforate liner opposite Loco Hills
sand from 2800' to 2820'. We will then set drillable
packer at 2775', run 2" EUE internally plastic coated
tubing and latch into packer. The annular space
between 8 5/8" casing or 8" open hole and 2" EUE
tubing will be filled with heavy mud. We anticipate
injecting from 500 to 1000 barrels water per day into
the Loco Hills sand at a maximum pressure of 1500
psig.



BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	3
CASE NO.	2633