CASE 3074: Appli. of CONTINENTAL
OIL CO. for amendment of ORDER
NO. R-2385. (Water injection).

(ASE NO. 3074

APP/ication, Transcripts, SMA// Exh.bits ETC

IN THE MATTER OF: Application of an amendment of County, New Meabove-styled of Order No. Fewater injections

Application of Continental Oil Company for an amendment of Order No. R-2385, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-2385 to substitute for water injection purposes a well located in Unit H of Section 9, Township 17 South, Range 29 East, Eddy County, New Mexico, for the presently authorized well in Unit I of said Section 9.

EXAMINER

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 1, 1964

HEARING

Case No. 3074

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

DEARNLEY-MEIER REPORTING SERVICE,



MR. DURRETT: Application of Continental Oil Company for an amendment of Order No. R-2385, Eddy County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa Fe, representing the Applicant. I have one witness I would like to have sworn, please.

(Witness sworn.)

MR. UTZ: Are there other appearances in this case? Proceed, Mr. Kellahin.

(Whereupon, Applicant's Exhibits Nos. 1, 2 and 3 marked for identification.)

V. T. LYON

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Would wow state your name, please?
- A V. T. Lyon.
- Q By whom are you employed and in what position?
- A Employed by Continental Oil Company as senior engineer located in the Hobbs District Office, Hobbs, New Mexico.
- Q Have you ever testified before the Oil Conservation Commission and made your qualifications a matter of record?
 - A Yes, sir.



BUGUERGUE, N. M. HONE 243.6691 MR. KELLAHIN: Are the witness' qualifications acceptable?
MR. UTZ: Yes, sir, they are.

- Q (By Mr. Kellahin) Are you familiar with the application of Continental Oil Company in Case 3074?
 - A Yes, sir.
- Q Would you state briefly what's proposed by Continental in connection with this case?
- A Case 3074 is the application of Continental Oil Company for authority to substitute Cave Pool Unit Well No. 45 as an injection well in place of Cave Pool Unit Well No. 46.
- Q And the original authority to institute a waterflood in the Cave Pool Unit was authorized by Order No. R-2385 in Case 2703, was it not?
 - A Yes, sir.
- Q Did that order make any provision for administrative approval for changing injection wells?
 - A Unfortunately, it did not.

MR. KELLAHIN: At this time we would like to ask the Examiner to take notice of the testimony in Case 2703 in so far as it pertains to this application.

MR. UTZ: We will so do.

Q (By Mr. Kellahin) Referring to what has been marked as Exhibit No. 1, would you identify that exhibit and discuss the information shown on it?



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A Yes, sir. Exhibit No. 1 is a location and ownership plat showing the boundaries of the Cave Pool Unit, the location and designation of the wells, the injection wells being shown by a triangle inscribed around the well; and the producing wells by the conventional producing well symbol.

Well No. 46, which is presently an injection well, is shown with a green circle, and proposed to be used hereafter as a producing well. Well No. 45, which is presently a producing well, is shown with a red triangle inscribed around it as an injection well.

Q Now referring to what has been marked as Exhibit No. 2, would you identify that exhibit and discuss the information shown on it?

A Exhibit No. 2 is a schematic diagram of Cave Pool Unit Well No. 45 showing the depth and size of casing, the amount of cement used in setting the casing, the perforated interval, and the amount of tubing, which is merely a stub used at the surface of the well.

Q Was this information submitted to the Office of the State Engineer, Mr. Lyon?

A Yes, sir, it was.

Q As far as you know, it has been approved by the State Engineer, is that correct?

Yes, sir, We have a letter from the State Engineer



indicating his approval, subject to testing the well and the casing therein at a pressure of 2,000 pounds per square inch, and on the condition that injection pressure does not exceed 1500 pounds per square inch.

- Q But the casing will be tested to 2,000 pounds, is that correct?
 - A Yes, sir.
 - Q Injection will be through the casing?
 - A Yes, sir.
- Q Referring to what has been marked as Exhibit No. 3, would you identify that exhibit and discuss the information on it?

A Exhibit No. 3 is the well data sheet which on the left hand side has a copy of a portion of the gamma ray neutron log run on Cave Pool Unit Well No. 45. The top of the Premier sand is shown by the red line; the perforated interval is shown by the conventional symbol from 2420 to 2434.

On the right hand side of the exhibit is data concerning the initial completion, test data, casing, and other pertinent data in regard to the well.

- Q Why does Continental desire to change injection wells at this time?
- A Our original plan of operation was to make Well No. 46 an injection well for the purpose of recovering any recoverable oil



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in the thumb, or this projection of the Unit area lying between Well No. 46 and Well No. 45. Well No. 46 originally was a dry hole, but it was our opinion that there may be recoverable oil between there which could be recovered only by injection into Well No. 46.

Injection into the Cave Pool Unit began in October of 1963. The first water injection into Well No. 46 occurred in December of '63 and in the six-month period from December through May of 1964, we have succeeded in injecting a total of 959 barrels at a pressure as high as 1320 pounds into Well No. 46.

Well will serve no purpose to the Unit. In our original plan, as soon as water breakthrough occurred in Well No. 45, we would then convert Well No. 45 to an injection well. As you can see on Exhibit No. 1, Well No. 45 conforms to the alternate well injection pattern with the rest of the Unit.

Since we have been unsuccessful in injecting satisfactory quantities of water into Well No. 46, we desire at this time to convert Well No. 45 into an injection well in conformance with the remainder of the injection pattern.

- Q In other words, the Well No. 45 location conforms to the rest of the pattern in the Unit, is that what you are saying?
 - A Yes.
 - Q What do you intend to do then with Well No. 46?



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A Well No. 46 will be observed, and if there is any indication of oil accumulation in the well bore it will be put on production.

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

A Yes, sir.

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

MR. UTZ: Without objection, Exhibits 1, 2, and 3 will be entered into the record of this case.

(Whereupon, Applicant's Exhibits Nos. 1, 2, and 3 received in evidence.)

MR. KELLAHIN: That's all I have on direct examination.

CROSS EXAMINATION

BY MR. UTZ:

- Q Mr. Lyon, when was Well No. 45 completed?
- A It was originally completed May 3rd, 1957.
- Q Was that new casing, the seven-inch new casing at that time?

A I don't have that information available right here, but I can secure it for you. To my knowledge, it was new, but I'm not certain.

- Q At any rate, it will be tested to 2,000 pounds?
- A Yes, sir.



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- Are the other injection wells in this Unit injecting Q through casing?
 - Yes, sir, I believe all of them are.
- The Well No. 45 is listed in Order R-2385 as at Site U-984, is that correct?
 - I believe that's correct.

MR. UTZ: Are there any other questions of the witness? BY MR. NUTTER:

- The original order authorizing this project contains some provisions for testing the casing, or something of that nature, prior to putting the wells on?
 - I believe that's correct.
- Were all those wells tested in accordance with the provisions of that order?
- I'm not certain that they were. This information was given to our field personnel, and I have confidence that they did this, but I do not, of my own certain knowledge, know that they did.
- If you don't know that, you don't know how the casing withstood the tests or whether any additional repairs were necessary to the casing?
 - No, sir.
- You are proposing on this well to test it to 2,000 pounds prior to putting it on injection?



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- Yes, sir. Α
- I wonder if you could find out when you get home how Q these tests on these wells ran; that is, to let us know whether any casing failures occurred during the casing test program and what repairs were necessary, if any.
 - Yes, sir, I can do that.
- Has the State Engineer's Office agreed to the conversion of this well in this manner, as indicated on your Exhibit No. 2?
- A Yes, sir. We have a letter here which I believe that the original copy went to the Conservation Commission. This is dated June 2nd, 1964, addressed to Mr. A. L. Porter, Jr., Secretary-Director of the Oil Conservation Commission, in Santa Fel
- And he agrees to the use of your Unit Well No. 45 for water injection by means of injection through the casing, is that correct?
- Well, we submitted copies of the exhibits which I've introduced today with our application to the State Engineer, and his statement in the letter says: "This office offers no objection to the granting of the application, provided that the injection pressure does not exceed 1500 psi; casing in all wells be tested to 2,000 psi before injection commences; and injection into all wells that will not withstand 2,000 psi be accomplished through tubing under a packer set well below the top of the cement surrounding casing."



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MR. NUTTER: Thank you.

MR. DURRETT: Would you let him mark that letter and give us a copy for our file?

> (Whereupon, Applicant's Exhibit No 4 marked for identification.)

MR. KELLAHIN: We will at this time offer Exhibit No. 4, being a copy of the letter from the State Engineer.

MR. UTZ: I'll accept that for the record.

(Whereupon, Applicant's Exhibit No 4 received in evidence.)

MR. UTZ: Mr. Durrett.

BY MR. DURRETT:

Mr. Lyon, I was wondering what the reason was that you couldn't come under Rule 701 under administrative procedures for this well. Was it because it hasn't received a response?

- There has been no response in this area. Α
- That's the reason you had to come to a hearing, rather Q than an administrative procedure?
- We are not certain why it was necessary to have a hearing, except that the order did not specifically provide for additional wells or changing injection wells. The order numbered specifically those wells which were injection wells and provided no administrative procedure for substitutions or changes.
- Along this same line of thought now, you don't contemplate 0 this same problem occurring again where you have to change to



another well or put on an additional injection well where you couldn't come under Rule 701, do you?

A We do have a situation coming up in the near future where the Unit area is being expanded and this is to include 120 acres of General American's Green B Lease in Sections 5 and 7.

Two of these wells will be injection wells, and since the original order did not provide authority for administrative approval, it apparently will be necessary to have hearings on those wells.

If we could avoid that, I'd be very happy.

BY MR. NUTTER:

- Q The No. 4 Well in Section 7, is it going to be included in the Unit later?
 - A Yes, sir.
 - Q Will it be an injection well?
 - A Yes, sir.
- Q I presume the No. 7 Well in Section 5 will be an injection well?
 - A That's correct.

BY MR. DURRETT:

Q Would I be correct in stating this, that it would be your desire, if your Commission felt it was within the call of this hearing and advisable, to establish an administrative procedure as part of an amendment to this order, whereby you could convert additional wells to injection?



We would be very pleased if you would do this. MR. DURRETT: That's all I have.

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

excused.

(Witness excused.)

MR. UTZ: Are there any statements in this case?

case will be taken under advisement.

STATE OF NEW MEXICO

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the fore-COUNTY OF BERNALILLO going 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 said proceedings to the best of my

WITNESS my Hand and Seal this 8th day of July, 1964. knowledge, skill and ability.

My Commission Expires:

June 19, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 3074

heard by New Nexico Oil Conservation ... Examiner Commission



MELL DATA PLAT

8ec 9-11-53 1980' FNL & 660' FEL, Cave Pool Unit No. 45 WELL NAME & LOCATION

Eddy County, New Mexico EFEA° 2215, CF

Allowable 1 BPD $\mathbf{d}\mathbf{L}$ Cas GOR 7500 CHK 1/5" TOJEW Cas GOR 1240 Date 1 BOPD DATE 3-30-64 Water 0 1P DATE 5-3-57

CASING RECORD Cb

Size/Depth/No. Sx./C'mt. Top 10-3/4" 353' 100 sxs. 7" 2443 100

CUMULATIVE PRODUCTION

Premier Sand COMPLETION INTERVAL s-1-64: 24,666 bb1s.

Perfs. 24201341, W 4 SPP

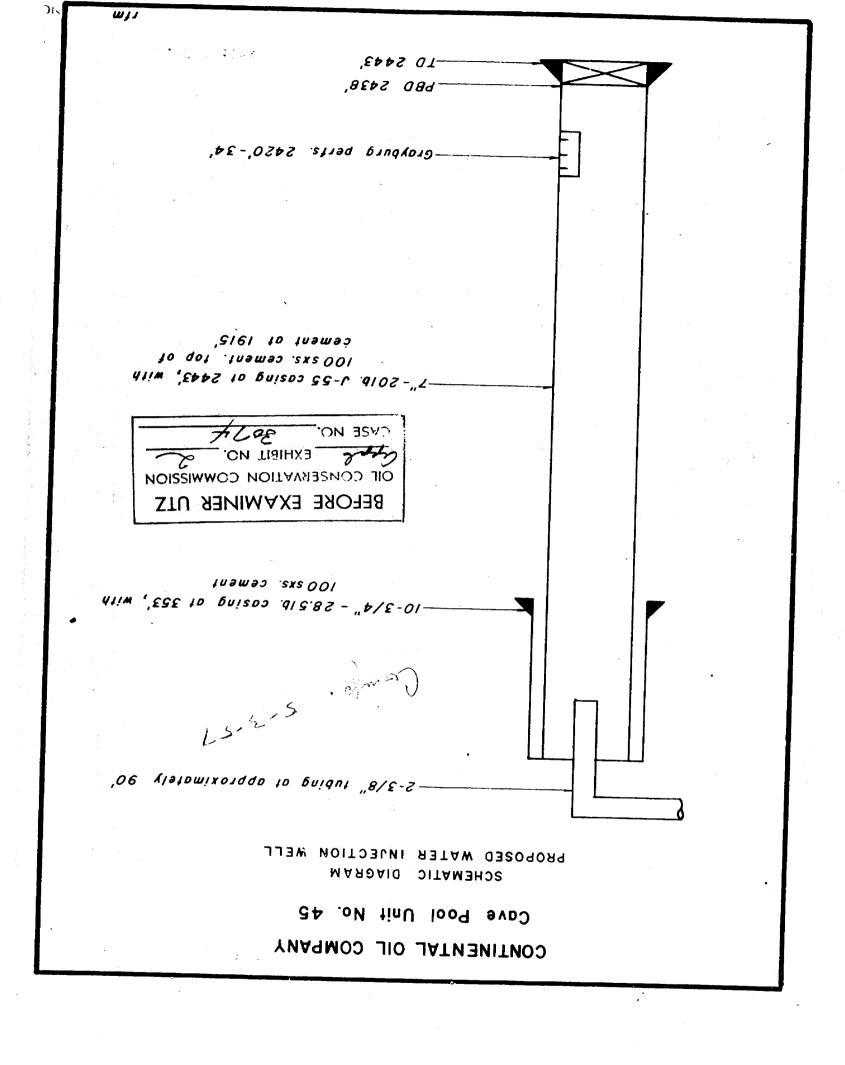
INITIAL TREATMENT

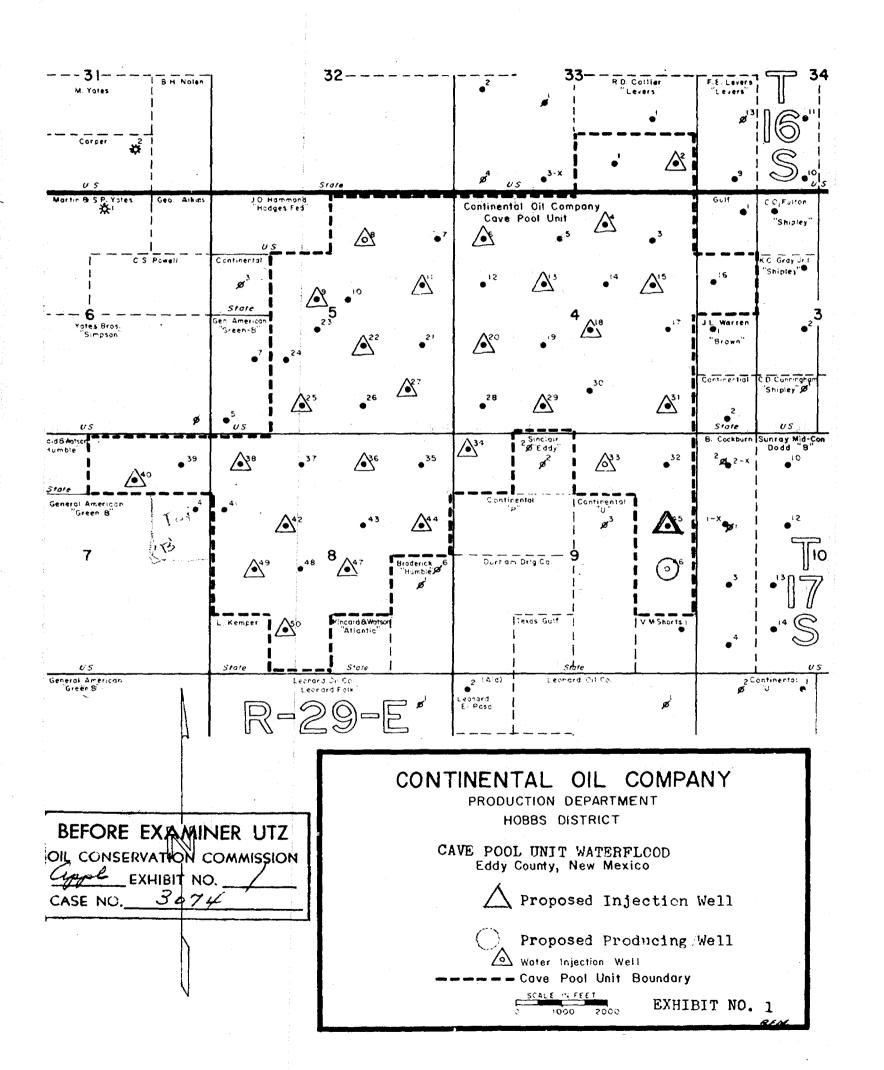
Frac w/20,000 gals, lease crude and 28,500% sand.

PAST REMEDIAL WORK

NONE

CASE NO. 3074 OIL CONSERVATION COMMISSION BEFORE EXAMINER UTZ







CONTINENTAL OIL COMPANY 27 FM 1 03

P. O. BOX 460 HOBBS, NEW MEXICO

May 26, 1964

1001 NORTH TURNER TELEPHONE: EX 3-4141

PRODUCTION DEPARTMENT
HOBBS DISTRICT
A. B. SLAYBAUGH
DISTRICT MANAGER
G. C. JAMIESON
ASSISTANT DISTRICT MANAGLE

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: Cave Pool Unit Waterflood Project

Your Order No. R-2384 approved the Cave Pool Unit Agreement covering certain lands in Eddy County, New Mexico. Order No. R-2385 approved the institution of a waterflood project in the Cave Pool Unit and designated twenty-six wells as water injection wells for use in the project.

Continental Oil Company, as operator of the Cave Pool Unit, now desires to interchange two wells, making one well presently a producer into an injection well, and vice versa. Cave Pool Unit Well No. 46 (formerly Continental Oil Company State U-9 Well No. 4), located in Unit I of Section 9, Township 17 South, Range 29 East, Eddy County, New Mexico, has been found to be incapable of receiving water in the desired quantities. It is proposed to return this well to a producing status.

Cave Pool Unit Well No. 45 is proposed to be converted from a producing well to water injection. This well is located in Unit H of the said Section 9.

DOCKET MAILED

Date 1-64

PIONEERING IN PETROLEUM PROGRESS SINCE 1875

New Mexico Oil Conservation Commission Page 2

The attached plat, marked Exhibit No. 1, shows the Cave Pool Unit boundary and the location of the various wells, both producing and injection. Well No. 46 is shown by the green circle to be the proposed producing well, and No. 45 is shown by the red triangle as the proposed injection well. As can be seen, the proposed modification will make the injection pattern more uniform.

Exhibit No. 2, attached hereto, is a schematic diagram of the proposed injection well and shows the casing and tubing as it will be installed. Injection will be carried out by injecting into the casing after the casing has been tested to 2,000 pounds as required by Order No. R-2385.

Exhibit No. 3 is a well data plat which contains a portion of the Gamma Ray-Neutron log of the injection well and data on the completion and performance of the well.

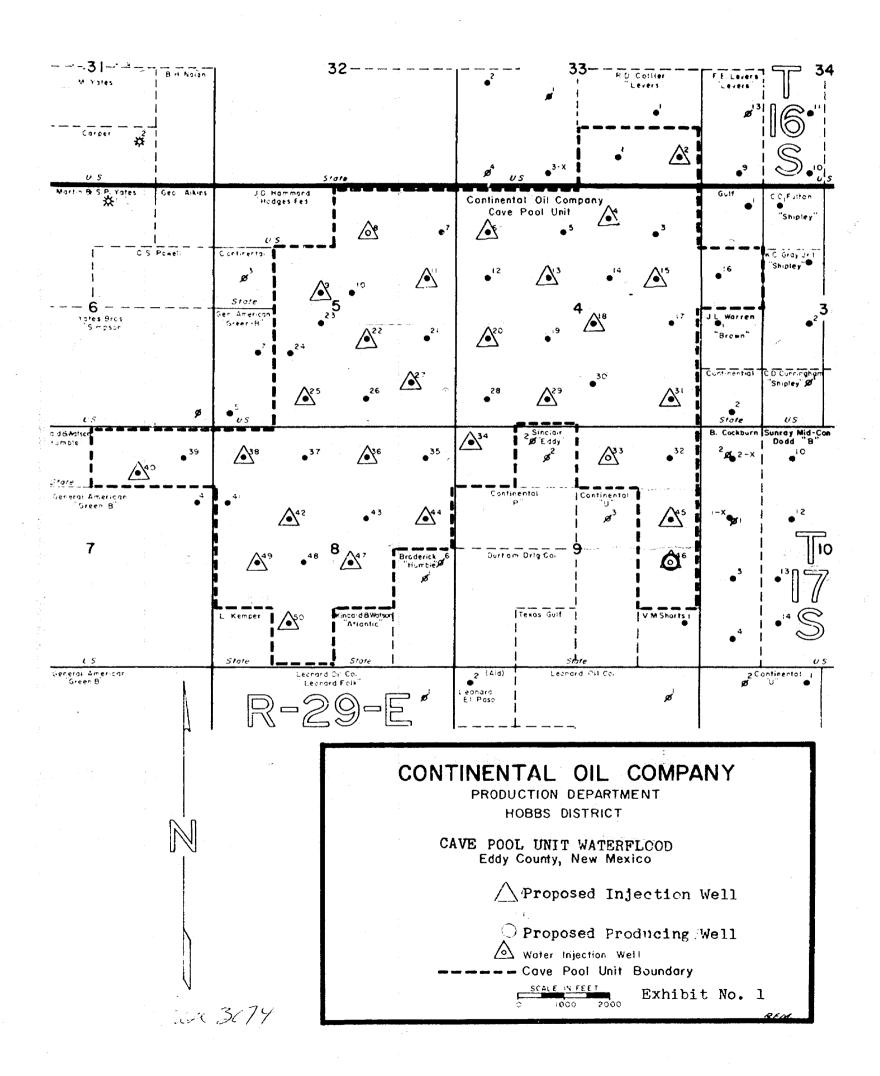
In view of the facts stated above, it is respectfully requested that permission be granted to substitute Cave Pool Unit Well No. 45 as an injection well in place of Cave Pool Unit Well No. 46.

Yours very truly,

as Slaybough

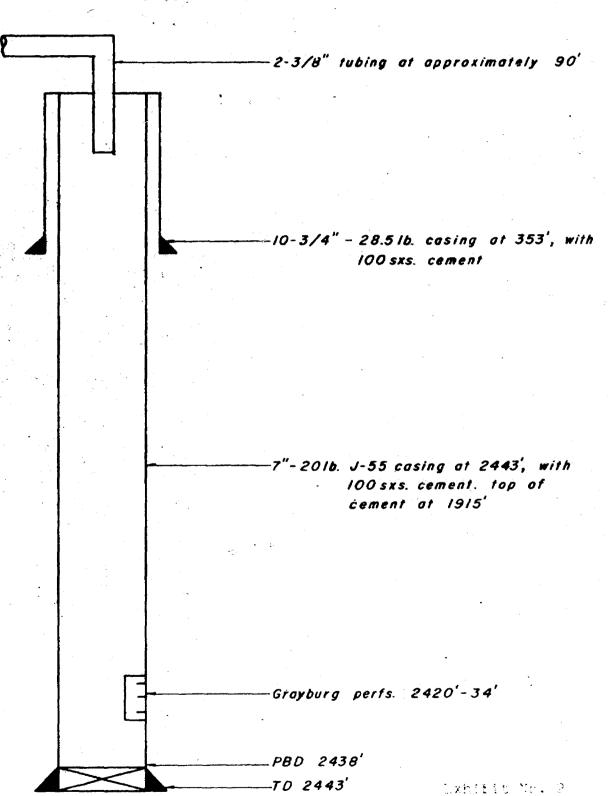
VTL-MLH CC: RGP GW JWK

CC By Certified Mail: State Engineer Office, P. O. Box 1079, Santa Fe, New Mexico Encs.

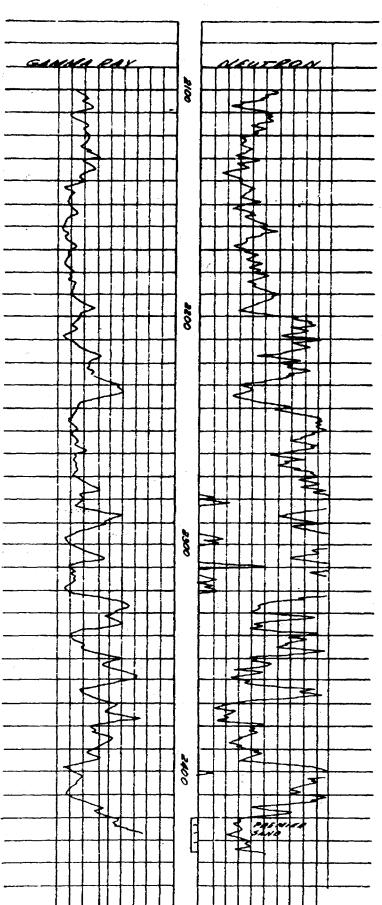


CONTINENTAL OIL COMPANY Cave Pool Unit No. 45

SCHEMATIC DIAGRAM
PROPOSED WATER INJECTION WELL



WELL DATA PLAT



WELL NAME & LOCATION

Cave Pool Unit No. 45
1980' FNL & 660' FEL,
Sec. 9-17-29

Eddy County, New Mexico TD - 2443' ELEV. ELEV. 3572' GL

Date 3-30-64 Oil 1 BOPD IP DATE 5-3-57 OII 384 BOPD Water 0 Gas GOR 1240 Water CHK. 1/2" Gas GOR 7500 TP Allowable 1 BPD CP

CASING RECORD Size/Depth/No. Sx./C'mt. Top 10-3/4" 353' 100 sxs. 7" 2443 100 1915

CUMULATIVE PRODUCTION

5-1-64: 24,666 bbls. COMPLETION INTERVAL Premier Sand Perfs. 2420 434', w/ 4 SPF

INITIAL TREATMENT

Frac w/20,000 gals. lease crude and 28,500# sand.

PAST REMEDIAL WORK

NONE

Beath No. 3

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BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Apple EXHIBIT NO.
CASE NO. 3704

June 2, 1964



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

Dear Mr. Porter:

Reference is made to the application of Continental Oil Company dated May 26. 1964 which seeks to interchange two wells in the Cave Pool by making well No. 46 a producing well and well No. 45 an injection well.

This office offers no objection to the granting of the application provided:

- 1. Injection pressure does not exceed 1500 psi.;
- Casing in all wells be tested to 2000 psi before injection commences;
- 3. Injection into all wells that will not withstand 2000 psi be accomplished through tubing under a packer set well below the top of the cement surrounding the casing.

Very truly yours,

S. E. Reynolds State Engineer

By:

Frank E. Irby, Chief Water Rights Division

cc: A. B. Slaybough

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 1, 1964

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 3063: (Continued from June 10th Examiner Hearing)

 Application of R. C. Davoust Company for a unit agreement, Eddy County,

 New Mexico. Applicant, in the above-styled cause, seeks approval of
 the Turkey Track Section 3 Unit Area comprising 480 acres of State land
 in Section 3, Township 19 South, Range 29 East, Eddy County, New Mexico.
- CASE 3064: (Continued from June 10th Examiner Hearing)
 Application of R. C. Davoust Company for a waterflood expansion, Eddy
 County, New Mexico. Applicant, in the above-styled cause, seeks the
 expansion of the Turkey Track Queen Waterflood Project in Section 34,
 Township 18 South, Range 29 East and Section 3, Township 19 South,
 Range 29 East, Turkey Track Field, Eddy County, New Mexico, to include
 the Grayburg formation.
- CASE 3070: Application of Nearburg & Ingram and Kincaid & Watson Drilling Company for a waterflood project, Eddy County, New Mexico. Applicants, in the above-styled cause, seek authority to institute a waterflood project in the Square Lake Pool by the injection of water into the Grayburg formation through three wells located in Section 6, Township 17 South, Range 30 East, Eddy County, New Mexico.
- CASE 3071: Application of Texas Pacific Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its J. P. Collier Well No. 1 located in Unit F of Section 10, Township II South, Range 33 East, Lea County, New Mexico, to produce oil from the North Bagley-Upper Pennsylvanian Pool and an undesignated Middle Pennsylvanian Pool through 2 1/16 inch tubing.
- CASE 3060: (Reopened)

 Application of Frank Darden for a waterflood project, Eddy County,

 New Mexico. Applicant, in the above-styled cause, seeks authority to

 institute a waterflood project in the Artesia Pool in his Cowtown Unit

 Area by the injection of water into the Grayburg and San Andres forma
 tions through two injection wells in Sections 13 and 24, Township 18

 South, Range 28 East, Eddy County, New Mexico.
- CASE 3072: Application of Coastal States Cas Producing Company for the extension of a pool and for special temporary pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the extension of the Flying "M" San Andres Pool in Township 9 South, Range 33 East, Lea County, New Mexico, and temporary special rules therefor, including a provision for 80-acre well spacing and proration units.
- CASE 3073: Application of Texaco Inc., for the creation of a new oil pool and for special temporary pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Pennsylvanian production for its Navajo Tribal AL Well No. 1 located in Unit H of Section 28, Township 26 North, Range 18 West, San Juan County, New Mexico, and for the establishment of temporary pool rules including a provision for 160-acre spacing and a GOR limitation of

4000 to 1. Applicant further seeks the establishment of an administrative procedure whereby interference tests could be conducted and allowables transferred.

CASE 3074: Application of Continental Oil Company for an amendment of Order No. R-2385, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-2385 to substitute for water injection purposes a well located in Unit H of Section 9, Township 17 South, Range 29 East, Eddy County, New Mexico, for the presently authorized well in Unit I of said Section 9.

CASE 3075; Application of Marathon Oil Company for a special gas well test, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to produce and flare approximately 1000 MCF per day for a period of not less than three nor more than 30 days from Tom Brown Drilling Company's Antelope Sink Unit Well No. 1, located in Unit G of Section 18, Township 19 South, Range 24 East, Eddy County, New Mexico. in an effort to evaluate the reservoir.

CASE 3076: Application of Marathon Oil Company for a non-standard oil proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an 80-acre non-standard proration unit comprising the SE/4 NW/4 and NE/4 SW/4 of Section 31, Township 17 South, Range 35 East, Vacuum-Upper Pennsylvanian Pool, Lea County, New Mexico, said unit to be dedicated to its State Warn A/1 Well No. 3, located in Unit F of said Section 31.

CASE 3038:

(Reopened) Application of Kennedy Oil Company for a waterflood project and for designation of a waterflood buffer zone, Eddy Quunty, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Square Lake Pool by the injection of water into the Grayburg-San Andres formation through one well located in Unit 4 L of Section 20, Township 16 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks the designation of the N/2 SW/4 of said Section 20 as a buffer zone offsetting Newmont Oil Company's Waterflood Project immediately south.

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MAIN OFFICE OCC

CONTINENTAL OIL COMPANY 7: 41

P. O. BOX 460

HOBBS, NEW MEXICO

1001 NORTH TURNER TELEPHONE: EX 3-4141

PRODUCTION DEPARTMENT FRODUCTION DEFENTATION HOBBS DISTRICT
JACK MARSHALL
DISTRICT MANAGER
G. C. JAMIESON
ASSISTANT DISTRICT MANAGER

July 8, 1964

New Mexico 011 Conservation Commission P. O. Box 2028 Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr. Secretary-Director

Gentlemen:

Re: Case 3074 - Cave Pool Unit

During the hearing on Case No. 3074, held July 1, 1964, you requested through our Mr. V. T. Lyon that Continental furnish certain data to your office. In accordance with your request we are organized workers. with your request we are enclosing verifax copies of well reports showing procedures utilized in converting 26 wells in the Cave Pool Unit to water injection.

Form C-103 covers the wells located on State leases and Form 9-331 covers those wells located on Federal leases. Each form contains the statement that the producing string was pressure tested as part of the normal conversion procedure. No casing repairs were necessary as all producing strings satisfactorily withstood the tests.

Please let us know if additional information will be required on these wells.

Yours very truly,

JM-DFW

Enc.

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	<u> </u>	1	Vell No. Uni	t Letter	Section	on Township		ange
Date Work Performed	RF	Pool	4	_1_	1	County		29
10-01-63		Gavo				Rady		
			A REPORT OF:					
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Plugging Detailed account of we			edial Work		- 			
								CEIVED 1291963
Vitnessed by			Position	· · · · ·		Company		C. C.
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996-ANTERSIA (5) SIG AND PARTHERS (11) 1 A

MAIN OFFICE OCC FORM C-183 (Rev 3-55) MISCELLANEOUS REPORTS ON WELKS 41 (Submit to appropriate District Office as per Commission Raio 1106) Address 460, Hobbs, N. M. mtal Oil Company Well No. Section Unit Letter Township Cave Pool Unit Ď 2QE 7-36 Boomed Cave Eddy THIS IS A REPORT OF: (Check appropriate block) Other (Explain):
Convert to water injection Beginning Drilling Operations Casing Test and Cement Job Pemedial Work Plugging Detailed account of work done, nature and quantity of materials used, and results obtained. This well was converted to a water injection well for use in the Cave Pool Unit Waterflood. 8 5/8" dasing is set at 298' and 5 1/2" casing is set at 2427'. The 2 3/8" tubing was pulled and the well was cleaned out from 2400' to 2418'. The well is now ready for injection. 2,000f 101 for 30 minutes on 7-30-63. Tested 0. E. RECEIVED OBBS DISTA OCT 1 8 1963 O. C. C. ARTESIA, OFFICE Position Sr. Prod. Foreman Virgested by Cook ntal 011 Company FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY ORIGINAL WELL DATA D F Elev. TD PBTD Producing Interval Completion Date Oil Strict Depth Tubing Diameter Tubing Depth Oil String Diameter Perforated Interval(s) Opes Hole Interval Producing Formation(s) RESULTS OF WORKOVER Oil Production BPD Gas Production MCFPD Water Production BPD GOR Cubic feet/Bbl Date of Test Before Vorkover After Voobsvez I hereby certify that the information given above is true and complete to the best of my knowledge. OIL CONSERVATION COMMISSION Approved by THE Ass. Dist. Superintendent OLL ARR BAR IRRPECTOR Company Continental Oil Company OCT 2 2 1963

Form 9-381 a (Feb. 1961)									
			<i>Y</i>						

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Porm /	t Burn Appro	eu No.	42-R3	58.4.
Lease No.		137		
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1964 JUL	9	ĀPI	7 :	A 1

SUNDRY NOTICES AND REPORTS ON WELLS

Company Compan	${N \brace S}$ line andft. from ${E \brack W}$ line of sec
(INDICATE ABOVE BY CHECK MARK N	NTURE OF REPORT; NOTICE, OR OTHER DATA)
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING. SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR. SUBSEQUENT REPORT OF ABANDONMENT. SUPPLEMENTARY WELL HISTORY.
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF WATER SHUT-OFF

The elevation of the derrick floor above sea level is _____ ft.

(Twp.)

DETAILS OF WORK

(County or Subdivision)

(Meridian)

(State or Territory)

Constant names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, completely only only of the points, and all other important proposed work)

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Course Property Control							
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Land office	1004						(Rev 3-55)
TRANSPORTER SAS	196 JUL 9	MISCELL.					(AC)
Consists 7		t to appropria				nmission Rule 11	
"Continental 011 0						, New Mex1	60
Cave Pool Unit	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Fell No. U	hit Letter	Section 5	Township.	R	29s
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Beginning Drilling Operation		sing Test and C	ement Joh	- [Conver (injection
Plugging		nedial Work					
Detailed account of work done,	nature and quantity of	ot materials use	d, and res	ults obta	ined.		
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On the Property			D		*ia=(-)	y	UF 2 2 Igas
Open Hole Interval			Freduci	ng Forma	cion(S)	_ (D. n.
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Test Date of Test	Oil Production BPD	as Prod MCF			roduction PD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover	:						
After Workover							
OIL CONSERV	ATION COMMISSION				y that the in my knowled		ove is true and complete
Approved by	0, 4		Name	$\overline{\bigcirc}$			
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CONTROL TERMS CONTROL TERMS CONTROL TERMS CONTROL TERMS CONTROL CONTROL CONTRO	MAIN	OFFICE OU MISCELLA	UC3N	S REP	ORTS O	COMMISSION N WELLS	(Rev 3-55)
Address 460, Hobbs, N. M.							
Cave Pool Unit	We	11 No. Uni	t Letter	Section	Township 17S	I	tange COE
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After Workover							
OIL CONSERVA	TION COMMISSION				y that the in my knowleds		above is true and complete
Approved by W.A. S	ressett		Name)	- J	1	
Title	SPECTOR		Rasig	Di.	st. Sap	erintende	nt
	OCT 22 1963	ARTREES	Corps	*ipe	tal Oi	l Company	

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			MAIN @	FFIBENS	42		VATION ORTS O	amina Bruin	1106)
Name of Co	abasy				Addre			CI	ON DET
Lease			1	Vell No.	Jait Letter	Section	Township		Range
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Approved by	MLQ	uss	roue		Name	1		Des	co.		
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HEW MEXICO OIL CONSENSE PROFESSION

FORM C-103 (Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

104 00 9 M 7 42

(Submit to appropriate District Office as per Cummission Rule 1106) Address 460, Hobbs, N. N. Continental Oil Company Unit Letter Section Township
7 Well No. Range 298 Cave Pool Unit Pool **Cave** Date Fork Performed Eddy THIS IS A REPORT OF: (Check appropriate block) Convert to water injection Casing Test and Cement Job Beginning Drilling Operations Remedial Work Plugging Detailed account of work done, nature and quantity of materials used, and results obtained. This well was converted to a water injection well in conjunction with the Cave Pool Unit Waterflood. 8 5/8" casing is set at 261' and 5 1/2" casing is set at 2346'. The rods and tubing were pulled, and the well was cleaned out to TD. The well is now ready for injection. caping to 2,000f PSI for 30 minuted on 8-27-63. N DEPA Witnessed by J. R. Cook Position W Sr. Frod Forener Continental Oil Company FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY ORIGINAL WELL DATA DF Elev. TD PBTD Producing Interval Completion Date Oil String DEREIVED Tubing Diameter Tubing Depth Oil String Diameter OCT 2 2 1963 Perforated Interval(s) Open Hole Interval Producing Formation(s) RESULTS OF WORKOVER Oil Production BPD Gas Production MCFPD GOR Cubic feet/Bbl Gas Well Potential
MCFPD Before **Vorkover** After Workover I hereby certify that the information given above is true and complete to the best of my knowledge. OIL CONSERVATION COMMISSION Approved by Position Asst. Dist. Superintendent Ticle

Company Continental Oil Company

OCT 2 2 1963

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NEW MEXICO OIL CONSERVATION COMMISSION PORM C-103

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Name of Pod	mental Oil	Company			^\$03		, Hobbs		· 1	
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Date 10 dill	deg ed	PooCave	*1				Country (1)	7		
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Cave Fool Unit	We	II No. Uni	t Letter B	Section	Township		Ra	SOS ARTHE
Date Work Performed	Pool	<u> </u>	<u></u>		County			2
10-17-63	Care	REPORT OF:	(Cl - 1		Eddy			
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OIL CONSERVA	TION COMMISSION		to the	e best of n	ny knowledi			
Approved by ML ame	drong		Name	1.		Calles		
Title OFL AND GAS INSPEC	TOA 🗸		Positi		ist. Sv	perinte	nden	t.
Date OCT 2 9 1963	BS PARTNERS		Compa	any		A Comos		

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NEW MEXICO OIL CONSERVATION COMM	AISSION	FORM C-103
CAMBOTERS OF THE MISCELL ANEOUS DEPORTS AN AND		(Rev 3-55)
PAGRATION OFFICE GRANTON (Submit to appropriate District Office Designation of Commission of Commi		
Name of Company Address	7 12	
Continental Oil Company Hox 460, Hobbs, Me	ew Mexico	
Cave Pool Unit State Unit Letter Station Township 178	Range 295	
Date Work Performed Pool County 9-2-63 Cares County		
THIS IS A REPORT OF CO. par grane works		
Beginning Drilling Operations Casing Fest and Cemen. John ther (Explain		
Plugging Remodal Work the ANGRED TO	yaver in	jection
Detailed account of work done, nature and quantity of materials used, and results directly		
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Tested casing to 2,000# FSI for 30 minutes on 9-2-63. Tes	streo, k	•
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	or or	-
Witnessed by Company		
		MICHIE
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY ORIGINAL WELL DATA		
DF Elev. TD PISTO Reducing before		oletion Date
Tubing Diameter Tubing Depth Tolerand Connecter	OCT 2	
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Open Hole Interval Prostacting Fermation(s)	0012	1983
Open Hole Interval Producting Fermation(s)	$Q \sim$	~
RESULTS OF WORKOVER	ARTEBIA, DI	FICE
Test Date of Oil Production Gas Production Water Production Gub	GOR ic feet/Bbl	Gas Well Potentia MCFPD
Before Workovet	10 1001	
After Workover		
OIL CONSERVATION COMMISSION I hereby certify that the information to the best of my knowledge.	ion given above	is true and comple
Approved by / Name		
W. U. Gressitt C. She	<u>Ca-</u>	
Title On and has inspected Angle Dist. Superix	tandent	
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NEW MEXICO OIL CONSERVADION CONTESTON

FORM C-103

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NEW MEXICO OIL CONSERVATION COMMISSION FORM C-1030

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PIAIN OFFICE OCC POM C4103 NEW MEXICO OIL CONSERVATION COMMISSION RESEV 3-55) LAND OFFICE MISCELLANEOUS REPORTS ON WELLS (Submit to appropriate District Office as per Commission Rule 1106) 1963 Name of Company Address Continental Oil Company Box (60, Hobbs, New Mexico Lease Well No. Unit Letter Section Township DEPAR 1:6 3.7 Cave Pool Unit Date Work Performed Pool County Eddy Cave 10-16-53 THIS IS A REPORT OF: (Check appropriate block) Casing Test and Cement Job Beginning Drilling Operations Other (Explain): Convert to water inject ion Remedial Work Plugging Detailed account of work done, nature and quantity of materials used, and results obtained. This well was converted to a water injection well in conjunction with the Cave Fool Unit Waterflood. 7 5/6" casing is set at 701' and 4 1/2" casing is set at 2465. The reds and tubing were pulled and the well is now ready for injection. e casing was tested to 2,000f PSI for 30 minutes on 10-16-63. Tested O. K. RECEIVED OCT 2 1 1963 O. C. C. ARTEBIA. DEFICE Witnessed by Position Continental Gil Company J. R. Cook Sr. Rood . Poweren FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY ORIGINAL WELL DATA D F Elev. TD PBTD Producing Interval Completion Date Oil Stage Depth Tubing Diameter Tabing Depah Oil String Diameter Perforated Laterval(s) 2 4 1963 Open Hole Interval Producing Fermation(s) RESULTS OF WORKOVER R/RLI MC PD Gas Production Oil Production Water Production BPD Date of Test GOR Test Cabic feet/Bbl Before Workover After Workover I hereby certify that the information given above is true and complete to the best of my knowledge. OIL CONSERVATION COMMISSION Approved by Title Asst. Dist. Superintendent Date FUNT inexted 862 Company

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

July 17, 1964

Mr. Jason Kellahin Kellahin & Fox Attorneys at Law P. O. Box 1769 Santa Pe, New Mexico

Dear Mr. Kellahin:

Reference is made to Order No. R-2739, entered by the Commission July 15, 1964. This order authorized the substitution of Continental's Cave Unit Well No. 45 in Unit H of Section 9, Township 17 South, Range 29 East, Eddy County, New Mexico, as a water injection well in lieu of Unit Well No. 46 located in Unit I of said Section 9

Continental is authorized to use this well for water injection purposes provided that:

- 1. Injection pressure shall not exceed 1500 psi.
- The casing in the subject well shall satisfactorily pass a 2000 psi pressure test prior to utilisation as an injection well.
- Injection shall be through tubing and a packer set immediately above the injection interval if any casing leak is apparent on the aforesaid casing test.
- 4. The District Office of the Commission at Artesia shall be notified of the hour and the date such pressure test is to be conducted.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/DSN/og cc: Oil Conservation Commission - Artesia Mr. Frank Irby - State Engineer Office - Santa Fe

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. 3074 Order No. R-2739

APPLICATION OF CONTINENTAL OIL COMPANY FOR AN AMENDMENT OF ORDER NO. R-2385, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 1, 1964, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 15th day of July, 1964, 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, Continental Oil Company, seeks amendment of Order No. R-2385 to authorize water injection into its Cave Pool Unit Well No. 45 located in Unit H of Section 9, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, in lieu of its Unit Well No. 46 (formerly State U-9 Well No. 4) located in Unit I of said Section 9.
- (3) That approval of the subject application should result in a more efficient waterflood project.
- (4) That approval of the subject application should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

-2-CASE No. 3074 Order No. R-2739

IT IS THEREFORE ORDERED:

- (1) That Order No. R-2385 is hereby amended to authorize Continental Oil Company to inject water into its Cave Pool Unit Well No. 45 located in Unit H of Section 9, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, in lieu of its Unit Well No. 46 (formerly State U-9 Well No. 4) located in Unit I of said Section 9.
- (2) 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

JACK M. CAMPBELL Chairman

E. S. WALKER, Member

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

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. 2703 Order No. R-2385

APPLICATION OF CONTINENTAL OIL COMPANY FOR A WATERFLOOD PROJECT AND A CENTRAL TANK BATTERY, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 20, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, heteinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

5th day of December, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the Cave Pool Unit Agreement has been approved by the Commission by Order No. R-2384; that the Cave Pool Unit Area comprises 1,960 acres, more or less, of state and Federal lands in Townships 16 and 17 South, Range 29 East, NMPM, Cave Pool, Eddy County, New Mexico, as more fully described in said order.
- (3) That the applicant, Continental Oil Company, seeks permission to institute a waterflood project in the Cave Pool Unit Area by the injection of water into the Premier Sand of the Grayburg formation through 26 injection wells located within said unit area.
- (4) That the applicant further seeks authority to commingle all production in the Cave Pool Unit Area into a central tank battery to be located in the southeast corner of the NW/4 SE/4 of Section 5, Township 17 South, Range 29 East.

That the wells in the project area are in an advanced stripper that the wells in the project area are in an advanced stripper area are in a stripper area area. stage of depletion and should properly be classified as "stripper" wells. That approval of the waterflood project will not cause producing formations in the area or otherwise cause CASE No. 2703 order No. R-2385 (6) That approval of the waterflood project will not cause to producing formations in the area or otherwise damage to producing on all injection wells is tested to waste if the well casing on all injection wells. damage to producing formations in the area or otherwise cause or otherwise cause in the area or otherwise cause or otherwise or otherwise cause or oth That approval of the waterflood project will not cause producing formations in the area or otherwise cause damage to producing into all wells that will not cause with area or otherwise and analy waste if injection pressure is accomplished through tubing pounds psi casing pressure is accomplished. wells. waste if injection into all wells that will not withstand through tubing pounds psi casing pressure is accomplished the packer.

pounds psi casing pressure with injection below the packer with injection below the packer. pounds psi casing pressure is accomplished through tubing pressure is accomplished through the packer. That the waterflood project should be approved and governed by the provisions of Rule 701 That the applicant should be granted authority to com-production from the waterflood project into a central (8) That the waterflood project should be 701. should be governed by the provisions of Rule 701. (9) That the applicant should be granted authority contral into a central waterflood project into a conunit be waterflood project into a conunit be waterflood project into a conunit be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be within the cave pool unit tank battery as all production will be will be within the cave pool unit tank battery as all production will be will mingle all production from the waterflood project into a central tank battery as all production will be within the cave pool unit tank harea. That the applicant, Continental Oil Company, is hereby to institute a waterflood project in the premier Sand (1) That the applicant, Continental Oil Company, is hereby continental Oil Company, is hereby the sand the premier sand the premier in the premier in the premier in the cave pool unit Area by the inject of the Grayburg formation in the cave pool unit area by the inject of the Grayburg formation in the cave pool unit area by the inject of the grayburg formation in the cave pool unit area by the inject of the grayburg formation in the cave pool unit area by the inject of the grayburg formation in the cave pool unit area. authorized to institute a waterflood project in the premier sand in the Cave Pool Unit Area by the inject of the Grayburg formation in the Cave Pool 26 wells: of the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in the Cave Pool Unit Area by the Grayburg formation in Area. TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM, EDDY COUNTY, NEW MEXTCO CONTINENTAL OIL COMPANY

State "EE" 4 Well No. 2, Unit B, Section 4

State "EE" 4 Well No. 1, Unit H, Section 5

State U-4 Well No. 1, Unit H, Section 9

State U-5 Well No. 2, Unit H, Section 9

State U-8 Well No. 2, Unit B, Section 9

State U-9 Well No. 4, Unit B, Section 9

State U-9 Well No. 4, Unit B, Section 9

State U-9 Well No. 4, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9

State U-9 Well No. 1, Unit B, Section 9 NEW MEXICO J. Caremit 45 State T-8 Well No. 1, Unit D, Section 4
State KE-9 Well No. 1, Unit D, Section 4
State KD-4 Well No. 3, Unit D, Section 5
State KD-4 Well No. 3, Unit P, Section 5
State KC-5 Well No. 4, Unit F, Section 5
State KC-5 Well No. 1, Unit N, Section 5
State KC-5 Well No. 1, Unit B, Section 5
State KF-5 Well No. 1, Unit B, Section 5
State KF-5 Well No. 1, Unit B, Section 5 State KE'-5 Well No. 1, Unit B, Section 5 Hodges 5 Well No. 1,

-3-CASE No. 2703 Order No. R-2385

KINCAID & WATSON DRILLING COMPANY
Humble State Well No. 1, Unit D, Section 8
Humble State Well No. 4, Unit F, Section 8
Humble State Well No. 5, Unit B, Section 7
Atlantic State Well No. 2, Unit L, Section 8
Atlantic State Well No. 3, Unit J, Section 8
Atlantic State Well No. 4, Unit N, Section 8

BILL A. SHELTON OIL PROPERTIES
Gulf State "E" Well No. 4, Unit P, Section 4

SKELLY OIL COMPANY
Hobbs "H" Well No. 1, Unit L, Section 4

TOWNSHIP 16 SOUTH, RANGE 29 EAST, NMPM, EDDY COUNTY, NEW MEXICO

WESTERN DEVELOPMENT COMPANY
Dale Federal Well No. 2, Unit P, Section 33

- (2) That the casing in all injection wells shall be tested to withstand 2000 pounds psi casing pressure prior to injection.
- (3) That injection into all wells that will not withstand casing pressure of 2000 pounds psi shall be accomplished through tubing installed in a packer with injection below the packer.
- (4) That the applicant, Continental Oil Company, is hereby authorized to commingle all production from the aforesaid water-flood project in the Cave Pool Unit Area into a central tank battery to be located in the southeast corner of the NW/4 SE/4 of Section 5, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (5) That the subject waterflood project shall be governed by the provisions of Rule 701, including the allowable provisions thereof, and including the provisions with respect to expansion of the waterflood project.
- (6) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-4-CASE No. 2703 Order No. R-2385

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

TOM BOLACK, Chairman

E. S. WALKER, Member

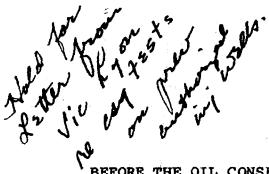
A. L. PORTER, Jr., Member & Secretary

S E A L

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JMD/esr July 1, 1964

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BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

CF Subj.
IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:
APPLICATION OF CONTINENTAL OIL COMPANY FOR AN AMENDMENT OF ORDER NO. R-2385, EDDY COUNTY, NEW MEXICO.
ORDER OF THE COMMISSION BY THE COMMISSION:
This cause came on for hearing at 9 o'clock a.m. on July 1 , 1964, at Santa Fe, New Mexico, before Examiner Elvis A. Utz NOW, on this day of July , 1964, 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, Continental Oil Company, seeks
amendment of Order No. R-2385 to authorize water injection into its

(3) That approval of the subject application should result in a more efficient waterflood project.

Cave Pool Unit Well No. 45 located in Unit H of Section 9, Town-

ship 17 South, Range 29 East, NMPM, Eddy County, New Mexico, in

Unif Well No 46 (formerly State U-9 Well No 4)

lieu of its State U-9 Well No. 4 located in Unit I of said Sec-

(4) That approval of the subject application should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

IT IS THEREFORE ORDERED:

- (1) That Order No. R-2385 is hereby amended to authorize Continental Oil Company to inject water into its Cave Pool Unit Well No. 45 located in Unit H of Section 9, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, in lieu of its Unit Well No 46 (formerly State U-9 Well No 4) State U-9 Well North located in Unit I of said Section 9.
- (2) 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.