Case Number

Application Transcripts.

Small Exhibits

1

BEFORE THE

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

EXAMINER HEARING

IN THE MATTER OF:

Application of Depco, Inc., for a waterflood project, Eddy County, New Mexico.

Case No. 4415

BEFORE: ELVIS A. UTZ, Examiner

TRANSCRIPT OF HEARING

	MEXICO OIL CONSERVATION CO	MMISSION
	EXAMINER HEARING SANTA FE	
Hearing Date	SEPTEMBER 2, 1970	W MEXICO
NAME		TIME: 9 A.M.
	REPRESENTING	LOCATITON
John J. Bussell Omer Kollerto	Jeras Pacific	LOCATION
John M. Strale	Terrastacifec	Midland
etton C. Smith	Depco	Odessa, Techo
over Killass	Pepier nobile bills	IN SF
H. Hoover	GULF OIL Corps	Lanto H.
SV Kastler L Hutchison		Roswell NM
Vmi L. Markani	PW Kepm	Sunda Lei.
Islando Brisco	H.C. Thompson	Valla Tester
on Ballerig 2. Koch	An Billenys M&F	Midland Tex
J. Ringi	Major, Sichel à Ferster	Midland Taxas

Page

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

MR. KELLY: William Booker Relly. I have one witness and ask that he be sworn.

(Witness was sworn)

JOHN STRADER,

the witness, having been first duly sworn upon his oath, according to law testified as follows:

DIRECT EXAMINATION

BY MR. KELLY:

- Q For the record would you state your full name and your position with Depco and your address.
- A John Strader. I am the Chief Engineer for Depco, Inc., Denver, Colorado.
- Q And have you previously qualified as an expert witness in the field of petroleum engineering before this Commission?
 - A Yes, in Case 37 and 47.
- Q Would you refer to what has been marked Exhibit No. 1 and briefly state what Depco seeks by this application?

A Depco seeks to establish an 840 acre waterflood project in the Artesia Field, in a portion of Sections 22, 23, 27, 33 and 34 in Township 18 South, Range 28 East, in Eddy County, New Mexico. Depco also seeks to convert State 647 Lease, Well Nos. 92, 100, 207 and 217 to water injection wells.

MR. UTZ: Sir, do you have a list of those wells?
THE WITNESS: Yes, Sir.

MR. UTZ: In this exhibit?

THE WITNESS: Yes, Sir.

Q That is exhibits 3 A, B, C & D. Do they show the footage?

A Yes.

Q A, B, C, D, & E -- there are five of them altogether. That is in the sketch?

A Yes. That is exhibit 3. The injection interval will be covered later.

MR. UTZ: I want to check your testimony here.

THE WITNESS: In the original application we asked that well No. 90 also be approved for conversion to water injection, but we no longer ask for that.

Q You filed an amended application with the amended plat deleting that well, is that correct?

A That is correct.

MR. UTZ: Is it in here?

MR. HATCH: Yes, I think so.

MR. UTZ: You still got it listed.

THE WITNESS: Well No. 90?

MR. UTZ: Yes. Alright now, your State Lease 647, what number wells did you testify there you wanted to change?

I will change them on the application.

THE WITNESS: We will convert Well No. 92, 100, 207 and 217.

MR. UTZ: And our State E 1288?

THE WITNESS: That well is not to be converted to injection.

MR. UTZ: How many wells are you making application for all together?

THE WITNESS: Four wells and to change the status of Well No. 82 from a salt water disposal classification to a waterflood injector.

O Do you have the Order Number on that last well?

MR. UTZ: That is 3454, I guess.

THE WITNESS: that is correct.

MR. UTZ: O. K. You may proceed.

THE WITNESS: These wells are shown on Exhibit 1 which is a plat of the area. The wells to be converted are noted in red. The salt water disposal well is noted by a triangle colored blue.

Q Now, your waterflood project is outlined in broken

lines, is that correct?

A That is correct.

MR. KELLY: Does the Examiner want a more thorough description of the project area in the testimony?

MR. HATCH: No. The project area will be determined from this.

Q Alright. Would you identify what else is shown on Exhibit 1?

MR. HATCH: May I interrupt you a moment? It looks like the project area would not be outlined here.

MR. KELLY: Because of probably the acrea, over in Section 20.

MR. HATCH: I believe it would be too far away in offsetting injection production wells, wouldn't it?

THE WITNESS: That is right. That is the Northwest Quarter of the Northeast Quarter of Section 33.

MR. UTZ: You understand how the project area is?
THE WITNESS: Yes.

- Q Actually then -- I didn't see this application, but we would like to have approval for administrative expansion without showing response, is that correct?
 - A Yes.
 - Q Alright. What else is shown on Exhibit 1?
- A Exhibit 1 shows all wells within a radius of two miles. Shown here are several waterfloods in this area. The

D & E Allen, which is the west offset lease, is involved, is a Loco Hills flood. Also a Loco Hills flood is American Petrofina Flood No. 2, which offsets our project to the west. A Collier Coop a mile and a half northwest is a waterflood in the primary. The Ryder Scott Depco Coop, a mile and a half northeast. There is an abandoned Depco waterflood a mile and a half south which is in the Grayburg. There are no San Andres waterfloods within this two mile radius.

- Q Now, you were going to flood the San Andres and Grayburg by this application, is that right?
- A That is correct. The San Andres wells are wells completed in the San Andres, are noted on the plat with a circle.
- Q Now, how many producing wells do you have in the project area?
- A Twenty two. There are twenty one producing wells and one salt water disposal at the present time.
 - Q What is the ownership status under your project?
- A Depco is the operator of all leases involved in the project area. There are two leases, the State 647 Lease and the State E 1288 Lease. The State 647 Lease is divided into three accounts due to slight differences in the net interests.
- Q Now, can you give the Examiner a brief summary of the geology under this project?
 - A The San Andres trend, which is the primary objective

for the waterflood project, is a long narrow trend extending six miles to the northeast and to the Grayburg Jackson Field. The dip is to the east southeast, although it is erratic and varies in depth. The oil water contact is the principle factor limiting the field to the south and the east. Loss in permeability limits the pool to the northwest. This is solution gas drive pool.

Q Alright now, referring to what has been marked Exhibit No. 2 with four parts, A, B, C and D -- the logs -- would you point out the significant features in those exhibits. These are logs of the four injection wells and not the presently approved salt water injection well, is that right?

A That is correct. Exhibit 2 A through 2 D are radioactive logs over the Grayburg and San Andres formations. The top of the San Andres is marked on each log.

Q And Exhibit 3 A, B, C, D and E is diagramatic sketches of all the proposed injection wells, is that correct?

A That is correct. These exhibits show hole size casing programs, cement tops, proposed tubing and packer depth and completion intervals. Exhibit 3 A is a diagramatic sketch of State 647 account 711 Well No. 82. This well is in the Southeast Quarter of the Northwest Quarter of Section 27. The injection interval --

- Q That is the one in blue?
- A That is right. That is salt water disposal well and

the injection interval is 2471 to 2926.

- Q Now, the diagram you show on Exhibit 3 A is the present installation in that well, is that right?
 - A That is correct.
 - Q Alright.
- A Exhibit 3 B, State 647 account 711 Well No. 92, in the Northeast Quarter of the Northwest Quarter of Section 27; the injection interval is 2720 to 2820.
 - Q Alright.
- A State 647 account 711 Well No. 100 is the Northeast Quarter of the Northeast Quarter of Section 27; the injection interval is 2450 to 2920.

Exhibit 3 D, State 647 Account 721 Well No. 207, in the Northeast Quarter of the Southeast Quarter, Section 33; the intended injection interval is 2696 to 2786.

- Q Now, all of these wells have plastic coated tubing?
- A They will.
- Q And I notice on -- I think it is 3 B and 3 E -- that you have some perforations above your packer. How are you going to handle avoiding any migration in those wells?
- A Migration upward will be monitored by putting a pressure gauge on the casing annulus and if it is determined that we do have pressure on the casing annulus, at that time the perforations will be squeezed with cement.
 - Q Now, in your other wells you will fill your annulus

with some kind of a pressure gauge?

- A We will.
- Q What is the source of your water injection?
- A We intend to purchase water from Double Eagle Water Corporation.
- Q And that could be under the contract either fresh or salt water?
- A We have a contract in effect now that calls for either brackish or fresh water.
- Q I take it the produced water that is going in the existing salt water well is not sufficient for the flood?
 - A Yes. That is correct.
 - Q Do you anticipate any corrosion problems?
 - A No. Our system is protected mechanically.
- Q Is there any fresh water near the surface of this area?
 - A Very little.
 - Q It is not an appreciable amount?
 - A That is correct.
- Q In your opinion, will the installations you have shown on Exhibits 3 A through E prevent migration of injection fluids to any other zone?
 - A They will.
 - Q Now, what is your injection rate now on your Well No.

- A Cur injection rate at the present time is 130 barrels a day which represents the produced water from the area shown on the Exhibit 1.
- Q And are you having any problem to get the well to take that amount?
 - A No. It is on the vacuum.
 - Q What do you anticipate your injection will be?
 - A We anticipate 800 barrels a day.
 - Q How about pressure?
 - A At 1400 pounds.
 - Q And there will be no problem, so far as you know?
 - A That is correct.
- Q Now, going on to Exhibit No. 4, what is the present status of the injection wells, the four injection wells?
- A The four injection wells shown in red on Exhibit 1, the average producing rate is 3 barrels of oil per day.
- Q And I notice your top producer there, No. 205, is only 12. Would you say that the wells in the project area have reached clearly their advanced stage of depletion?
- A They have -- some 90 to 95 percent depleted of primary.
- Q Do you have an estimate of about a million barrels of recoverable primary from this pool?
 - A That is correct.
 - Q And you have produced about 931,000. Now, do you

have an estimate of what the recovery will be if you get a successful secondary project?

- A We anticipate three quarters of a million barrels of recoverable due to waterflood.
- Q Is there anything else you want to point out on Exhibit No. 4?
- A Shown on Exhibit No. 4 are the completion intervals, the date of completion and stimulation.
- Q Now, in your opinion, would the granting of this application allow you to recover hydrocarbons that would otherwise be left in place and thereby protect the correlative rights of all parties in the area?
 - A That is right.
- Q Were Exhibits 1 through 4 prepared by you or under your supervision?
 - A They were.

MR. KELLY: At this time, I move the introduction of Depco's Exhibits 1 through 4.

will be entered into the record of this case.

MR. KELLY: We have no further direct testimony.

CROSS EXAMINATION

BY MR. UTZ:

Q Have you received any response from the water you have injected from the No. 82?

The cumulative injection is some 86,000 barrels and we have not filled up this reservoir in the vicinity of this well.

- What is the surface cement on the No. 92?
- That has been omitted and I will have to -- this well A has no surface casing, so far as I know.
 - Now, the top of the cement is at 1500, is that correct?
 - The calculated top is at 1500.
 - It is your testimony you have no cement above 1500?
 - So far as I know, that is correct.
 - Could you confirm that?
 - By letter?
 - Yes. Q
 - I will.
 - If this is true, I am real surprised it has been going on this long.
 - There are several wells in this vicinity where permission was granted from the Commission to pull surface casing. These are quite old wells completed in -- this particular well was completed in July of 1948.
 - Q On the No. 100, the cement you figure is 200 feet from the surface, is that correct?
 - On Well No. 100, 1000 feet from the surface on the surface casing, yes, Sir.
 - The same on 207?

- Yes, Sir.
- Now, you mentioned on your No. 92 that you were going to put pressure up the annulus and if it didn't hold pressure you were going to squeeze the perfs?
- No, Sir. We will monitor the pressure in the annulus with a pressure gauge and at such time that we do get pressure on the casing annulus, we will squeeze the perforations if it is determined that it is not a packer or tubing leak.
- In other words, you are going at it the other way. You are going to say that you load the annulus. Now, what if it doesn't hold water -- do you intend to load the annulus?
- A We will load the annulus. I am sure that it won't hold water to the surface. We will go ahead and convert the well to injection and at such time as we have pressure build up on the annulus, we will squeeze the perforations.
 - And the same is true for the 217?
 - That is correct.
 - You are making application here for injection in hoth the Grayburg and San Andres?
 - Yes, Sir.
 - All these wells open in both zones?
 - No, Sir. They are all open in the San Andres. This is our primary objective, however, we'd like to have approval to flood the Grayburg as a secondary injector.
 - None of them open in the Grayburg?

- A Yes, Sir. Some of them are open in the Grayburg. Well No. 92, these perforations that are presently isolated are in the Grayburg. The same with 217.
- Q Which perforation is that -- the ones above the packer?
 - A Yes.
 - Q That is Grayburg?
 - A Yes, Sir.
 - Q O. K. What other wells?
 - A 217.
- Q Now, are both sets in the upper purse in the Grayburg?
 - A This is on 217?
 - Q Yes, Sir.
- A No. The only set -- the only perforations that are in the Grayburg are those that are above the packer. This particular well, the top of the San Andres is approximately 2365.
- Q Well, I got a note here from our district geologist in Artesia. He says the 82 is open into the Grayburg and San Andres as well as the No. 100. I don't know whether you geologists have got the tops the same or not.
- A That is correct. 82, in this salt water disposal application we received approval to inject into the Grayburg and the San Andres and the top of the San Andres is 2490. In

Well No. 100, the top of the San Andres is at 2550 which leaves 50 feet of Grayburg in the open hole section.

Q So in effect you will be injecting in both zones right off the bat, won't you?

A In the wells 82 and 100, the wellbore -- the Grayburg will be subject to injection. In Well No. 82 there is no water going into the Grayburg at the present time.

- Q How much Grayburg have you got in No. 82, the whole thing?
 - A I don't know the top of the Grayburg or the San Andres.
 - Q You don't have that?
 - A No, Sir.
- Q Do you have anything in the record that would show the area of the two leases, your State 647 and the State E 1288?

A On Exhibit No. 1, except all of the area outlined with a dashed line in State 647 with the exception of the Southwest Quarter of the Northeast Quarter of Section 27, this is a forty acre tract. That is not in the State 647 lease, however, the working interest is common.

- Q That is in the E 1288 -- it is marked E 1288?
- A Yes. The location is -- the lease name is State E 1288.
 - Q That is all of the 1288 lease that is in your area?
- A No. There is one non-contiguous tract on this lease in Unit GN, Section 22.

- Q That is outside of the unit there?
- A That is correct.
- 2 So you'd have forty acres which would be the Southwest of the Northeast Section 27. All the rest of your area is -- that would be in the project area -- is State 647 lease?

A Yes, Sir.

MR. HATCH: I think there is going to be a little problem here because you are probably going to have to waterflood in that project because there are two separate leases. Now we have got a lease without an injection well.

MR. UTZ: Have you contacted the State Land Office

THE WITNESS: No, Sir.

MR. UTZ: I am afraid maybe you should.

MR. KELLY: Why don't we -- can we ask to amend the application to create two floods and then we will contact the State Land Office and be back in touch with you?

MR. UTZ: We'd have to have an injection well.

MR. KELLY: In the second lease?

MR. UTZ: Yes.

THE WITNESS: Can we remove this lease from the project area?

MR. KELLY: That would be the easiest way.

MR. UTZ: I presume you could. Couldn't he?

MR, HATCH: Yes.

THE WITNESS: I would like to do that.

MR. HATCH: It could be left in there and create another one.

THE WITNESS: I'd like to delete it from the project area.

MR. KELLY: We will just move to go ahead and delete that from the tract.

MR. UTZ: Alright. Any other questions of the witness:

Statements in the case?

The witness may be excused. The case will be taken under advisement.

STATE OF NEW MEXICO ss. COUNTY OF BERNALILLO

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

I do hereby gertify that the formation a templote removed of the percenting of the Arminer bearing of Seas So. 7405

New Mexico Oil Conservation Cosmission

INDEX

	WITNESS:	PAGE
JOHN	STRADER	
	Direct Examination by Mr. Kelly	2
-	Cross Examination by Mr. Utz	11

EXHIBITS

MARKED

OFFERED AND
ADMITTED

Depco's
Exhibits 1 thru 4

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

March 27, 1978

Leon Standard Engineer Assistant Depco, Inc. 800 Central Odessa, Texas 79760

Case 4415

Re: Commission Order No. R-4027 and WFX-457

Dear Mr. Standard:

After reviewing the step rate test data submitted by your letter of February 20, 1978, it is my determination that a higher injection pressure limitation may be established for your State 647 AC 711 Well No. 93-C, Section 27, Township 18 South, Range 28 East, Camp Waterflood Project, Artesia Pool, Eddy County, New Mexico.

Said pressure limitation is hereby increased to 1100 psi.

Yours very truly,

JOE D. RAMEY Director

JDR/RLS/fd

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

September 10, 1970

Mr. Booker Kelly White, Gilbert, Koch & Kelly Attorneys at Law Post Office Box 787 Santa Fe, New Nexico

pear Sir:

Enclosed herewith is Commission Order No. R-4027, entered in Case No. 4415, approving the Depco Camp Artesia Waterflood Project.

injection is to be through the five authorized water injection wells, with injection to be through plastic-lined tubing set in a packer. Packers shall be set as near as practicable to the uppermost perforation, or, in the case of open-hole completions, as near as practicable to the casing shoe.

to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 854 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or

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

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

-2-

Mr. Booker Kelly White, Gilbert, Koch & Kelly Attorneys at Law Post Office Box 787 Santa Fe, New Mexico

September 10, 1970

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

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

Endlosyres Abp/DSN/ir

OCC-Hobbs and Artesia, New Mexico Mr. D. E. Gray, State Engineer Office Santa Fe, New Mexico

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 4415 Order No. R-4027

APPLICATION OF DEPCO, INC., FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 2, 1970, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 10th day of September, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Depco, Inc., seeks authority to institute a waterflood project in the Artesia Pool by the injection of water into the Grayburg and San Andres formations through five injection wells in Sections 27, 33, and 34, Township 18 South, Range 28 East, NMPM, Eády County, New Mexico.
- (3) That the applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.
- (4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

-2-CASE No. 4415 Order No. R-4027

- (6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided, however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.
- (7) That Order No. R-3454, which previously authorized water injection for disposal into one of the subject wells, should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, Depco, Inc., is hereby authorized to institute a waterflood project in the Artesia Pool by the injection of water into the Grayburg and San Andres formations through the following-described wells in Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico:

```
Depco State 647 Well No. 100 - Unit A - Section 27 Depco State 647 Well No. 82 - Unit F - Section 27 Depco State 647 Well No. 92 - Unit N - Section 27 Depco State 647 Well No. 207 - Unit I - Section 33 Depco State 647 Well No. 217 - Unit E - Section 34
```

(2) That the subject waterflood project is hereby designated the Depco Camp Artesia Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the Depco Camp Artesia Waterflood Project on the State 647 Lease to include such additional lands and injection wells in the area of the project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
 - (4) That Order No. R-3454 is hereby superseded.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-CASE No. 4415 Order No. R-4027

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

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

esr/

DEPCO, Inc.

PRODUCTION & EXPLORATION

August 14, 1970

2h 2415

New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico 87501

Attention: Mr. J. E. Kapteina

Application for Water Injection Re:

Depco's State 647 Lease

Artesia Field

Eddy County, New Mexico

Gentlemen:

In our application dated July 30, 1970 to permit water injection on the subject lease, it was requested that State 647, Acct. 711, Well No. 90 be approved as an injector. We have had a change in plans and no longer wish to convert this well. Our plans for Well No. 92, 100, 207 and 217 remain the same.

Each of the accounts listed below have the same working interest ownership but have slightly different net interests in income. ,

SWD to Having. Lease and Account <u>Wells</u> 68, 70, 74 & 82, 83, 84, 85, 86, 87, 89, 92, 93, 100, 101, 200 State 647, Acct. 711 199, 201, 207, 217 State 647, Acct. 721 State 647, Acct. 731 205 State E-1288 40

Yours very truly,

J. M. STRADER

JMS/jer

1025 PETROLEUM CLUB BLDG. • DENVER, COLORADO 80202 • PHONE 303/292-0980

SFOCC PAIN George Hatch DEPCO, Inc. Exploration & Production July 30, 1970 Once 4415 New Mexico Oil Conservation Commission P. O. Box (871) Santa Fe, New Mexico Subject: Application for Injection of Water Project: Proposed Camp Waterflood Field : Artesia County: Eddy Gentlemen: DEPCO, Inc. requests a hearing to approve injection of water into the San Andres pay for the purpose of waterflood operations in the proposed Camp Flood. This project area is shown by the plat, Exhibit 1 and is located in sections 22, 23, 27, 28, 33, and 34, T-18-S, R-28-E, Eddy County, New Mexico. New Mexico. This application also requests approval to permit producers State 647 Wells No. 90, 92, 100, 207, and 217 to be converted to water injection status. The attached plat also shows the location of the present produced water injector, proposed water injectors, producing wells, and lease ownership within a two-mile radius of the proposed injectors. Exhibit 2 contains logs or portions of logs over the zones of interest for the five (5) proposed injection wells. Also, diagrammatic sketches for these wells are presented in Exhibit 3. Injection will be into the San Andres pay at an approximate depth of 2700'. Approximately 500 BWPD will be injected into each of the proposed injectors. Water for this project will be purchased from one of the water companies which have distribution facilities in the vicinity. Very truly yours, District Engineer WCS: mas Attachments RECEIVED cc: NMOCC-Artesia John Strader-Denver AUG 6 1970 Leon Standard-Artesia Present water injector #82 is open in both the Gray burg & San Andres for mations as authorized by Order No 183454. Inject into open hole from 2471 to 2926'. Top of San Andres about 2520'. Proposed injection well # 100 would also be open in Gray bury and San Andres as shown on their exhibits.

8/6/10 Dick

DEPCO, Inc.

Exploration & Production



ODESSA. TEXAS 79760

September 4, 1970

New Mexico Oil Conservation Commission P. 0. Box 871 Santa Fe, New Mexico

Attention: Elvis A. Utz

AN 9 15 270 SEP 8

Subject:

Confirmation of Well Data Presented at Commission

Hearing, Case No. 4415

Project: Proposed Camp Waterflood

Field: Artesia

County: Eddy

Gentlemen:

You requested letter confirmation of well conditions in our State 647 Well No. 92 as presented in Exhibit 3-B, at the above subject hearing, and in particular, removal of surface casing. The well conditions presented by Exhibit 3-B at this hearing are correct as 8" surface casing was pulled after 7" casing was cemented on approximately July 29, 1948. Attached is a copy of the New Mexico Oil Conservation Commission Scout Report which also confirms these data. If additional information is desired, we will be most anxious to help furnish it to you. Please feel free co call me collect at Area Code 915 337-1536 Odesss, Texas if any other questions

Yours very truly,

Welton C. Smith

District Engineer

WCS:jm

cc: John Strader - Denver

Thing for gifting to Strain on F. pagest

Camp N. F. pagest 137. 133 Odess ur Greller Smith

weep

SCOUT REPORT

arteria

NEW MEXICO	OIL CONSERVATION	ON COMMISSION
	٠,	0.

	į	ĺ		Farm Name		tate		Well No.	92
5				Sec. 27	Twp.	8 Rar	180 7 S	County	Edde
		l		Feet from Line:	N	. 990 8	. I	. 1650V	w. of
₩		Elevation 3.566 Method							
				Contractor				-	
ľ				Spudded 5-1	1-48		Complet	ted 7 -/	7-48
<u> </u>	i	S	إحجيا			TA		TG	
	-	.•		ACID REC	000	TX			
CASI		MOUNT MENTING	RECORD	Gals.				TSA	
Size	Feet	Inches	Sax Cement	1000	\sim	TCA		TGI	
-84	612		set.			BX		TYo	
7/1	2720		60	4000	(21)	TY	 .	TABo	
					100	TSR		TPenn	
				Top Pay /	75	TQ		TOrd	
	-		· '	No. of Quarts	•	SHOOTING From	RECORD	To	•
	(DIIDIN	C BECOD	L			From		To	
نم	II OBIN	G RECORI		No. of Quarts	<i>V</i> 0				
		280	0	S/0 280,	<i>y</i> s			S/	Kê T
			<u> </u>	<u>S/</u>	S		· · · · · · · · · · · · · · · · · · ·	S/	
PACKE	R .	·		S/	S	<u>/</u>		S/	 .
Date MAY 5		Soc.			·	Date			
MAY 1 2		11				JUL 7.	10 2	874 0	P. 1.10
MAY 1	19 01	a. 820) R -	1			A.A.		5130
MAY 2		1905	- L		7	,,	A. A		20, 21
E YALL	1	2001		3 A	1, .	JUL 14	TD 2	902 2	Litz
JUN		1 23	2 <u>- </u>	0		JUL 2 1	TD 2	302.f.	IPP
ן אטל	16	75	30 1.				4 BOP	2	
JUN 2		277	18 E.			ļ		•	
3 אטע	0 /7	D 2	874 L	; Pulle	15"			·	-
· <u> </u>	10	00-	7"						
· .			:						
						•		-	

Cere 4415 Veard 9-2-70 Rec. 9-4-70 Grant. Depeo permission to convert 5 wells to Water injection wells. Deemely the State 647 #82 L # 9.2 The #82 is now a SWD well cesper R-3454. Dlies order should he rescended. Oll injection skul he lan plaster coated tubing + einder a packer. The annulus in all cases shallhe filled w/ inest fluid v/ a gauge at illo surface. Apprione injection in ballothe Alby & S.A. In the Certesia pool. Hane-Defeo-Camp flood. The SW NE (lease Et-1258) should not be put injorofect area. allothet Lead the other area is common ownerships,

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. 3800 Order No. R-3454

APPLICATION OF DEPCO, INC., FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 10, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 15th day of July, 1968, 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, Depco, Inc., is the owner and operator of the State 647 Well No. 82, located in Unit F of Section 27, Township 18 South, Range 28 East, NMPM, Artesia Pool, Eddy County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Grayburg and San Andres formations in the open-hole interval from approximately 2471 feet to 2926 feet.
- (4) That the injection should be accomplished through 2 3/8-inch internally plastic-coated tubing installed in a packer set at approximately 2450 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure

-2-CASE No. 3800 Order No. R-3454

gauge should be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Depco, Inc., is hereby authorized to utilize its State 647 Well No. 82, located in Unit F of Section 27, Township 18 South, Range 28 East, NMPM, Artesia Pool, Eddy County, New Mexico, to dispose of produced salt water into the Grayburg and San Andres formations, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 2450 feet, with injection in the open-hole interval from approximately 2471 feet to 2926 feet;

PROVIDED HOWEVER, that the tubing shall be internally plastic-coated; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or packer.

- (2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

SEAL

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

esr/

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 2, 1970

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

The following cases will be heard before Elvis A. Utz, Examiner, or Danjel S. Nutter, Alternate Examiner:

- CASE 4415: Application of Depco, Inc. for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by injection into the Grayburg and San Andres formations through 6 wells located in Sections 27, 33 and 34, Township 18 South, Range 28 East, Artesia Pool, Eddy County, New Mexico.
- CASE 4416: Application of Robert L. Parker Trust for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a cooperative waterflood project in the Langlie-Mattix Pool on its George L. Erwin Lease by the injection of water through its Erwin Well No. 2 located in Unit L of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.
- CASE 4417: Application of J. Cleo Thompson for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for the applicant's Evans Wells Nos. 9 and 12 located, respectively, in Units Gaand B of Section 33, Township 16 South, Range 30 East, Square Lake Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of water produced by said wells in unlined surface pits located in the vicinity of said wells.
- CASE 4418: Application of Texas Pacific Oil Company for amendment of Order No. R-3200, Lea County, New Mexico. Applicant, inthe above-styled cause, seeks the amendment of Order No. R-3200, which order authorized the applicant to institute a waterflood project in the South Eunice Pool, Lea County, New Mexico, by the injection of water through six wells located in Sections 5, 8, and 9 of Township 22 South, Range 36 East. Applicant seeks authority to delete the six wells authorized in said Order R-3200 and substitute therefor six other wells located in said Sections 8 and 9.

- CASE 4419: Application of Billings, Keyser and Kennedy for a non-standard gas proration unit, Eddy County, New Mexico.

 Applicant in the above-styled cause, seeks, in exception to Rule 104 B I, approval of a 320-acre non-standard gas proration unit comprising the NW/4 of Section 2 and Lots 1, 2 and 3 and the SE/4 NE/4 of Section 3, Township 22 South, Range 26 East, Eddy County, New Mexico, said unit to be dedicated to a wildcat gas well to be drilled in the NE/4 NE/4 of said Section 3.
- CASE 4420: Application of Xplor Company for a dual completion, authority to gas-lift oil production, and to flare gas, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Cleveland Well No. 1 located in Unit G of Section 23, Township 12 South, Range 32 East, Lea County, New Mexico, in such a manner as to produce oil from the East Caprock-Devonian Pool through 2 3/8-inch tubing and gas from the Pennsylvanian formation within one mile of the East Caprock-Pennsylvanian Pool. Applicant further seeks authority to use a portion of said gas to gas-lift said oil production and to subsequently flare said gas in exception to Rule 404 of the Commission Rules and Regulations.
- Application of Phillips Petroleum Company for creation of a CASE 4421: new oil pool, special pool rules therefor, and redesignation of the vertical limits of the Ranger Lake-Pennsylvanian Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new pool for the production of oil from the Bough section of the Pennsylvanian formation for its Phillips West Ranger Lake Unit Well No. 1 located in Unit C of Section 26, Township 12 South, Range 34 East, Lea County, New Mexico, and for the promulgation of special rules therefor including a provision for 80-acre spacing and proration units, with vertical limits of said pool to be the interval from sub-sea datum -5671 feet to -6016 feet as found in said Well No. 1. Applicant further seeks the contraction of the vertical limits of the Ranger Lake-Pennsylvanian Pool to that interval from sub-sea datum -6080 feet to -6230 feet as found in its West Ranger Lake Unit Tract 2 Well No. 1 located in Unit P of Section 23, said township and range.
- CASE 4422: Application of Atlantic Richfield Company for amendment of Order No. R-3588, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3588, which order authorized the disposal of produced salt water into the Yates and Seven Rivers formation in the perforated

Case 4422 continued

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

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

CASE 4410:

(Continued from the August 19, 1970 Examiner Hearing)
Application of Major, Giebel & Forster for compulsory pooling,
Lea County, New Mexico. Applicant, in the above-styled cause,
seeks an order pooling all mineral interests underlying the
SE/4 of Section 28, Township 25 South, Range 37 East, CrosbyDevonian Pool, Lea County, New Mexico, said acreage to be
dedicated to a well to be drilled in said quarter section. Also,
to be considered will be the cost of drilling said well, a
charge for the risk involved, a provision for the allocation
of actual operating costs, and the establishment of charges for
supervision of said well.

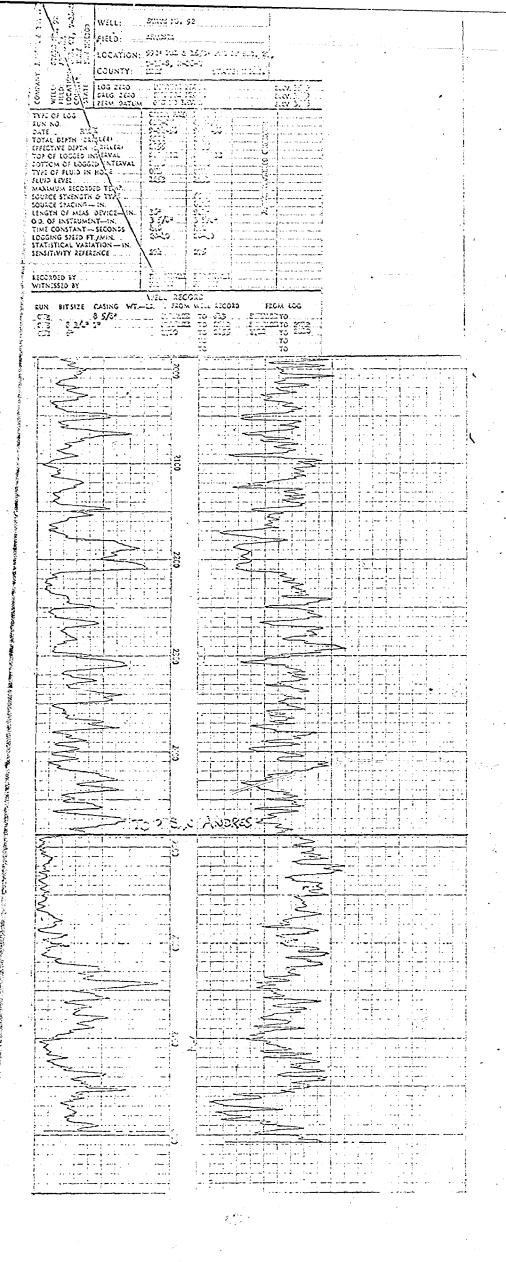
BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Depart EXHIBITS NO. 2, A, B, CD

CASE NO. 9415

LOGS



NOW OIL WELL CEMENTING CO. RADIOACTIVITY LOS NATURAL CAMMA RADIATION INDUCED GAMMA RADIATION og Messured From Borrick Frank Elevation 357
Dalling Messured From Borrick Frank State
Permanent Patum Borrick Floor Resultan 357 oging Speed Fr. min. Jeutron Source Code Tuck No. See realiks Accorded by 19 F 19788.
Witness 2 by 19 F 19 F 2 and the control of th

EXX. WAS THE TOP

Jacobs & State & COMPANY_INTERNATIONAL __YAYES WELL STATE CLY NO. 207 MELO. ASTESIA STATE BEN MEXICO

COM Servin

F/L

ME/L-CALIPER
M.O.P. COUNTY_ TORY lion. 1980: FSL & Sho: FEL 10_33.___twn__1-15__ 465_23-E_ Sections of Department of Section 1992 of Sect Cestan Record Ç 2200 2300

(__

m£83.	CO PANY.	02900	P. PAGGRPGRATED
ŧ	Wātt		5 647 AO. 217
\$	7.210	ARTES	5:A
<u> </u>	COUNTY	2207	STATE NEW MEXICO
· .	JOCATION:		VAL & 330° FML (Oran Server)
!	1863b 1		-8 154 28:E.
Permanent Datum	୍ଲ୍ୟକୃଷ୍ଟପୁଟର ଅଧ	7 L	3532 45 603000 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
Didding Measured from			G4 3532
Care Fun Na			
\$7500 \$22			
Desire la ross Pesire la ross récusar lagges irreces			
Top logged fallered Type Fuld in Hote Sol Hity Part Ct.			
Set Hily Part Ct. Density to Gat.			
Level Grad Res. Temp. 200. F	(T-1) (T-1)		
Cost to The	- 15 Grand 1		
Williams 27		19	
	Telegrania	5 27	County Reyard Visit From To
1 1110 1 502			24 SURF 500
		-	
		-	
		2100	
		•	
		7200	
-5			
8, 5		~	
		2300	
	7.00 SX	<u>یگر ۱۸۰</u>	.:0:15
		7.100	
		ŏ	
		2500	
		0	
	- - - 		
一三十			
		500	
		-	
355-4			
		2700	
Him			
		ž.	
		ິ .	

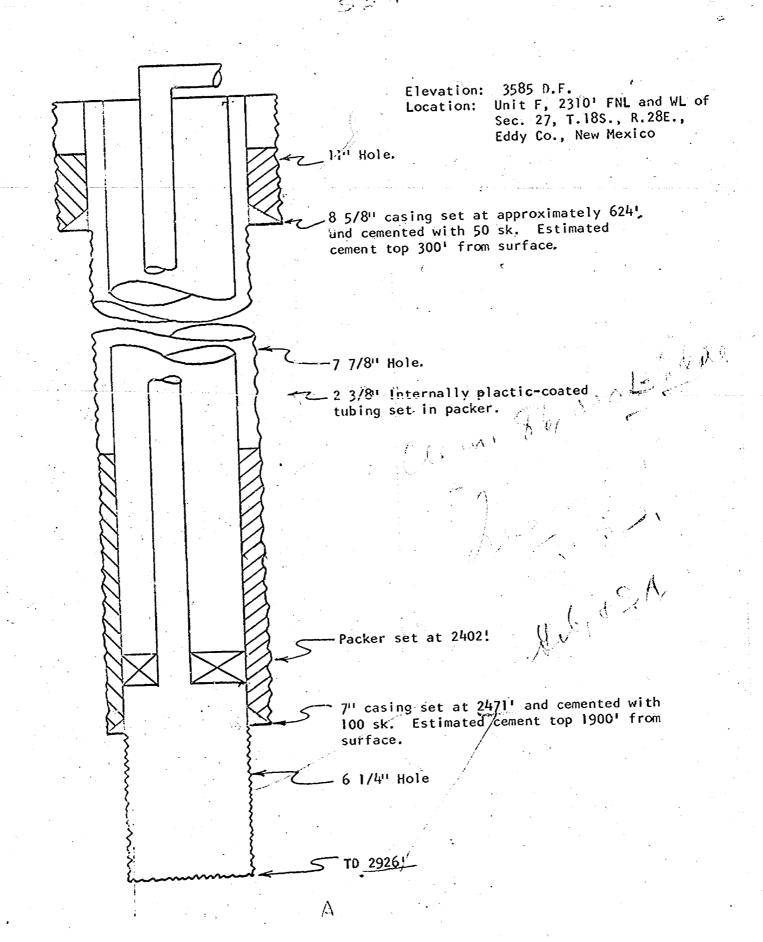
OIL CONSERVATION COMMISSION

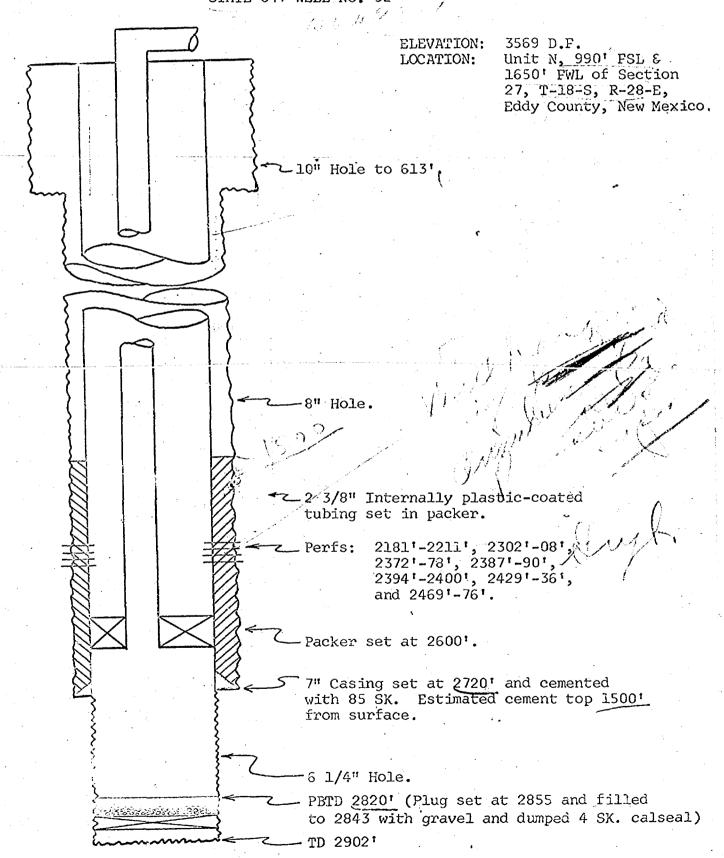
Department EXHIBITS NO. 3, A T.E.

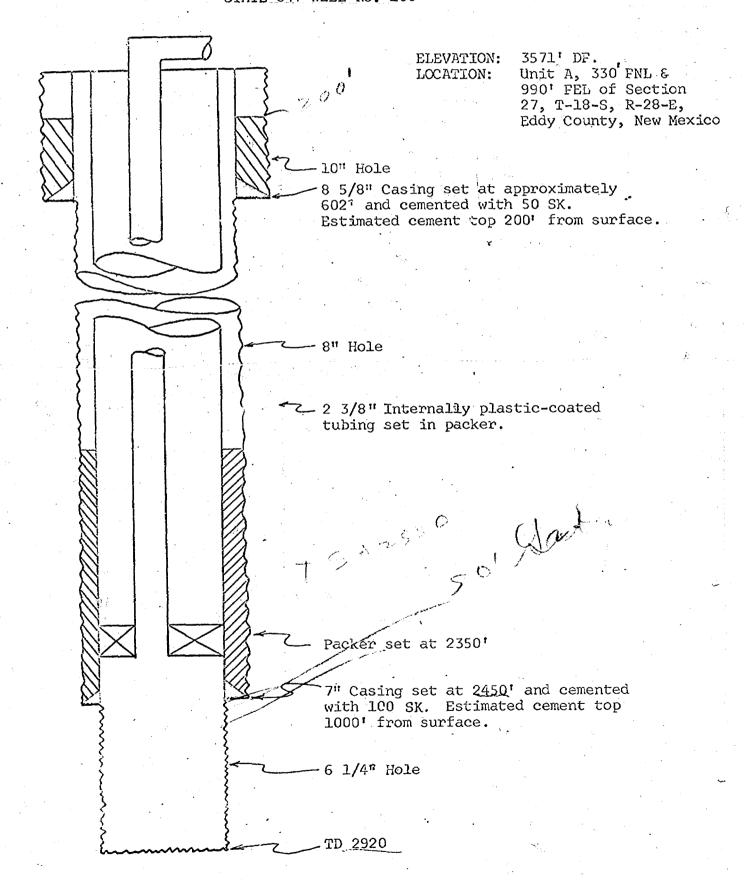
CASE NO. 4415

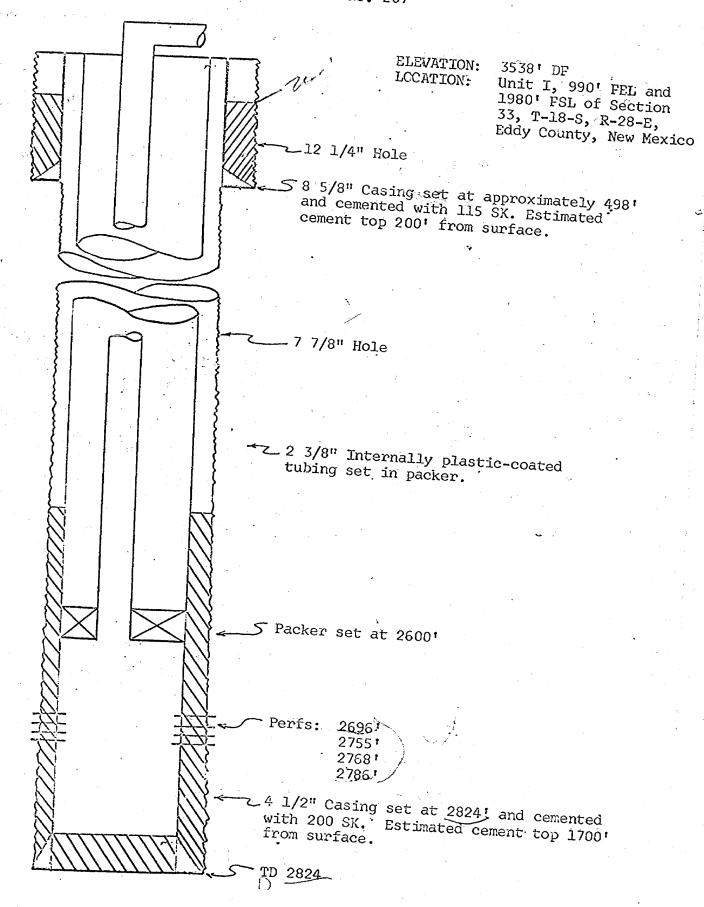
DIAGRAMMATIC SKETCHES

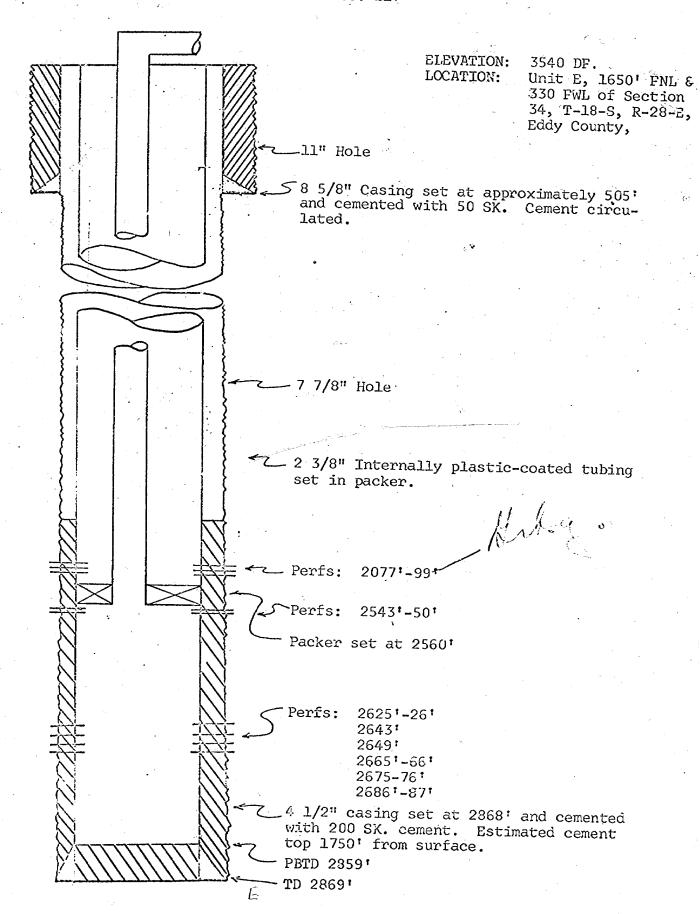
DIAGRAMMATIC SKETCH PRESENT WELL CONDITIONS STATE 647 WELL NO. 82

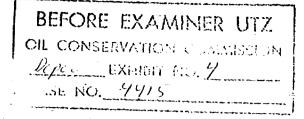












INITIAL PROJECT AREA CAMP WATERFLOOD INDIVIDUAL WELL DATA

		Well	Cumulative Oil as of	July	Date of	Completion	
1.6	ease	No.	7-1-70	BOPD	Completion Mo Yr.	Interval	Stimulation
			•		no Ir.	•	
State 6	47 AC 7	11 68	57,203	1	7-34	2233-2877	2000 gals acid
		70	46,581	6	10-35	2305-2871	80 qts nitro &
							3500 gals acid
		74	92,242*	2	10-36	2210-2825	150 qts nitro &
		00	*	CEAD!	11-47	2471-2924'	3000 gals acid
		<u>82</u> 83	42,447	SWD/ 5	5-48	2614-2775	5500 gals acid 3000 gals acid &
		63	42,447	3	3-40	2014-2773	43,000 gal frac
		84 .	87,266	. 8	1-48	1952-28421	4000 gals acid &
			0.,1,00				40,000 gal frac
	• *	.85	47,895	4	1-48	2605-28481	2500 gals acid &
		•		*** /-	•	•	38,000 gal frac
		86	37,972	5	2-48	2115-28701	2000 gals acid &
	× ·						40,000 gal frac
		. 87	77,520	3	1-48	2236-2833	40,000 gal frac
		89	47,154	4	2-48	2703-2884	2500 gals acid
		, 90	40,558	5	4-48	2097-2796	5000 gals acid &
•			71 747	3⁄	7-48	Olol occet	38,000 gal frac
		92	31,743	<i>y</i>	7-48	2181-2855	9000 gals acid & 50,000 gal frac
•		93	23,732	7. 2 254	11-56	1987-2514'	50,000 gal frac
		100	60,253	1/	7-49/	2450-2920 t	3000 gals acid &
£		1,00	00,233	74	7, 13	2.30 2320	20,000 gal frac
		101	44,398	. 1	1-50	2800-28901	4500 gals acid
	•	200	11,411	sı	4-64	2534-2849	2750 gals acid &
	•				A21		17,500 gal frac
State 6	47 AC 7		32,910	7	3-64	2663-2777	30,000 gal frac
		201	28,246	6	6-64	2652-2787 '	7000 gals acid &
. •						0.50.5 0.70.51	25,000 gal frac
		207	10,988	4	4-66	2696-2786	500 gals acid &
		01.7	7 400	4	12-66	2077-26871	40,000 gal frac
		217	7,492	40	12-66	2077-2007	3500 gals acid & 39,000 gal frac
State 6	47. AC 7	31 205	38,802	12	5-65	2006-2769	1750 gals acid &
ocate b	TI, ACI	JT 203	30,002	12	5 05	2000 2703	40,000 gal frac
State E	-1288	81	64,995	4	8-47	2283-2872	4000 gals acid
2000 D						- · · · · ·	.
То	tal	21	931,808	87			in the second se

^{*}Cumulative was carried combined on Wells No. 74 and 82 since both wells are located in the same proration unit.

DEPCO, Inc.

Exploration & Production

200 Central ODESSA, TEXAS 7

July 30, 1970

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

Case 4418

Subject: Application for Injection

of Water

Project: Proposed Camp Waterflood

Field : Artesia County : Eddy

Gentlemen:

DEPCO, Inc. requests a hearing to approve injection of water into the San Andres pay for the purpose of waterflood operations in the proposed Camp Flood. This project area is shown by the plat, Exhibit 1 and is located in sections 22, 23, 27, 28, 33, and 34, T-18-S, R-28-E, Eddy County, New Mexico.

This application also requests approval to permit producers State 647 Wells No. 90, 92, 100, 207, and 217 to be converted to water injection status. The attached plat also shows the location of the present produced water injector, proposed water injectors, producing wells, and lease ownership within a two-mile radius of the proposed injectors. Exhibit 2 contains logs or portions of logs over the zones of interest for the five (5) proposed injection wells. Also, diagrammatic sketches for these wells are presented in Exhibit 3.

Injection will be into the San Andres pay at an approximate depth of 2700'. Approximately 500 BWPD will be injected into each of the proposed injectors. Water for this project will be purchased from one of the water companies which have distribution facilities in the vicinity.

Very truly yours,

W. C. Smith

District Engineer

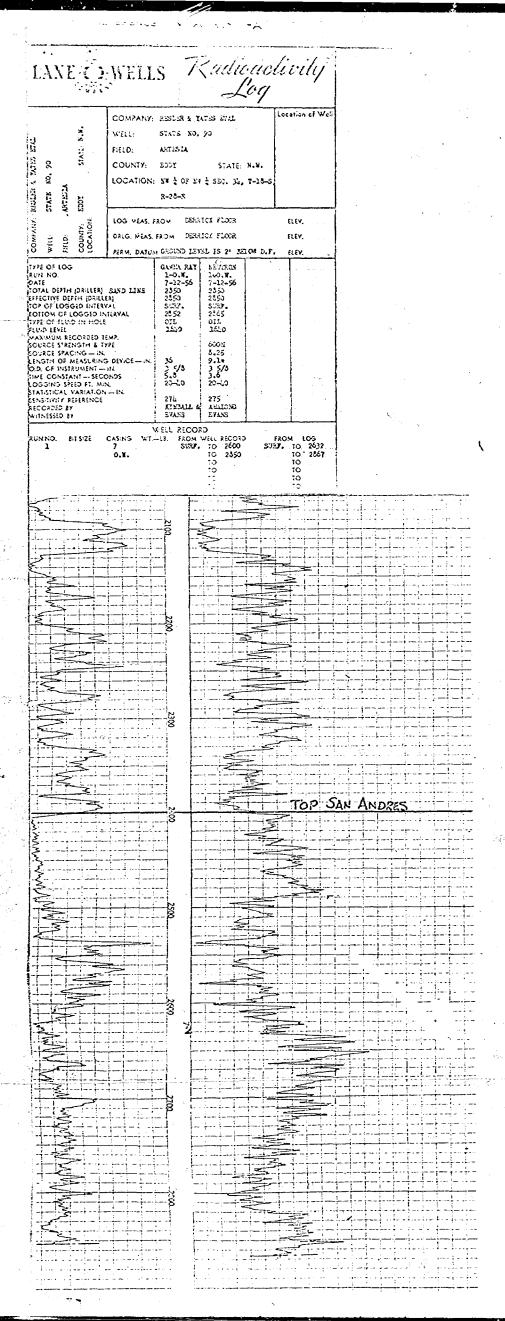
WCS: mas

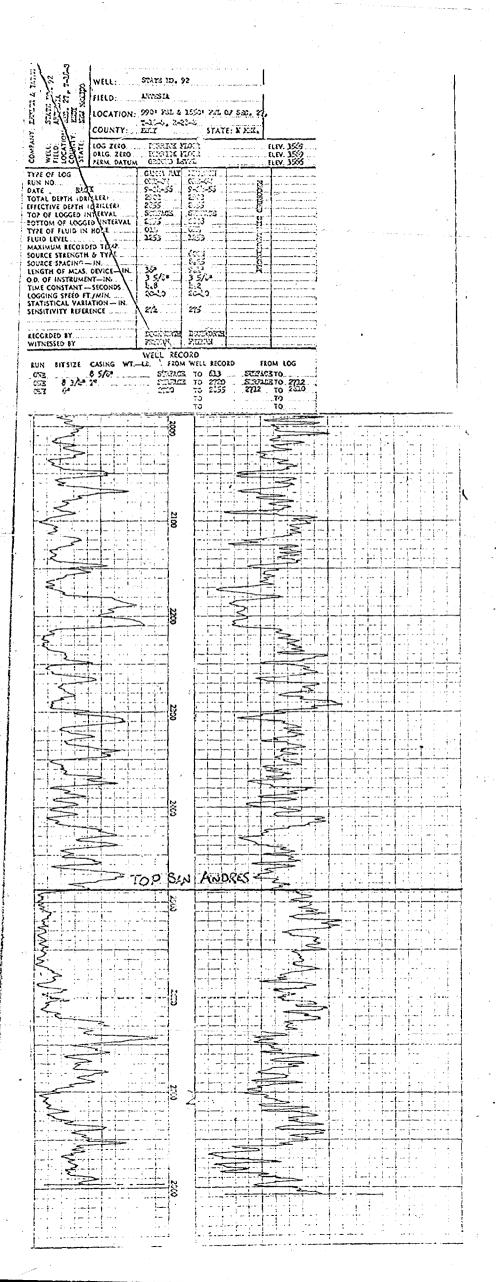
Attachments

cc: NMCCC-Artesia

John Strader-Denver Leon Standard-Artesia

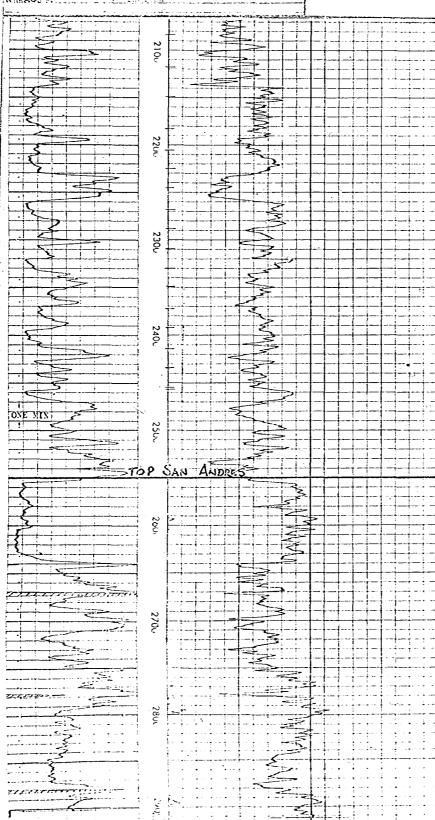
LOGS





RADIOACTIVITY LOG

NATURAL G	AMMA RAD	IATION	INQUCE	D G	AMMA R	ADIATION
ATES ELL STATE ELD ATES TUDATES	WELL S FIELD A COUNTY E SEC 27	STATE = 10 Ortesia Oddy	ER-YATES FILE STATENOW RGE 28	Mex.	Sec. 2 Np. 1 Rge. 2 Elev. D. K.	8
og Measured						
Onlling Measu	red From D	errick flo	or	Flo	vation	3571'
Permatient Dat	turaD	errick flo			vation	3571
Type Log		611/11			-	
Run No.		ONE	OVE			
Tale		3-15-56	3-15-50			
Footage Loren	3	2,412'	2,412			}
Fotal Depth, I Fotal Depth, I	Driller	2,920	2,920			
Total Depth, 1	ogged	2,902	2,912			}
Type of Huid		0il	Qil			[
fluid Level						
Max. Temp			- 96 F		F	<u>-</u>
Neutron Source			400.55		in.	in.
Source to Cente					111-	
Longth Meas, 1 O.D. of Instruc	terrice in	291n.	lin_			
		2	3 5/8		 -	
Time Constant					—- i	
Logging Speed Neutron Sou	rce Code	-1055-15001	Blue			
Truck No.		4132	4132			{
Recorded by_		G E Ayre				
Witness by		\$ 55.00				



COMPANY INTERNATIONAL - YATES WELL ... STATE 647 NO. 207 RIELO, L ARTESIA. STATE NEW MEXICO

Ober Sender

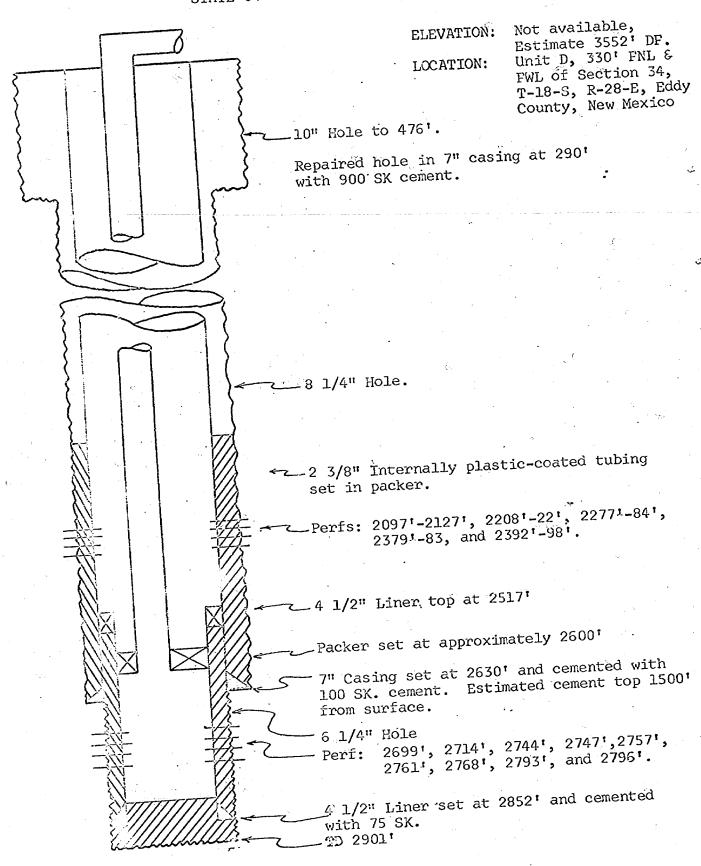
EL F/L

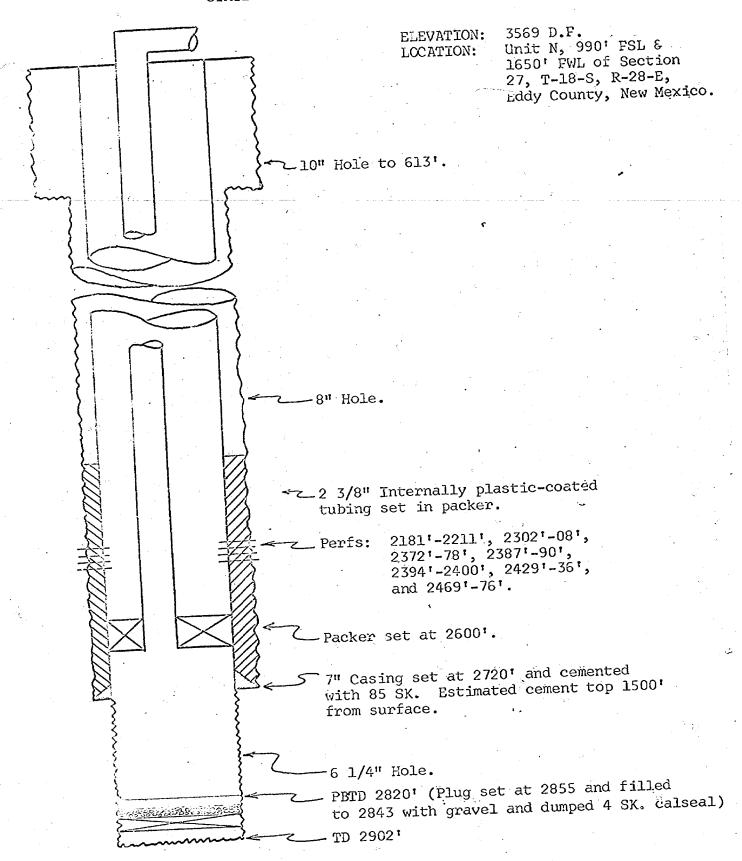
MF/L-CALIPER
M.O.P. COUNTY SERY S TOCATION 1980+ FSL 5-990+ FEL SEC 33 TWY 18-5 FOE 18-E GREUND LEVEL Fev. 3538.
K. B. . . 7 Ft. Above Permanent Do To

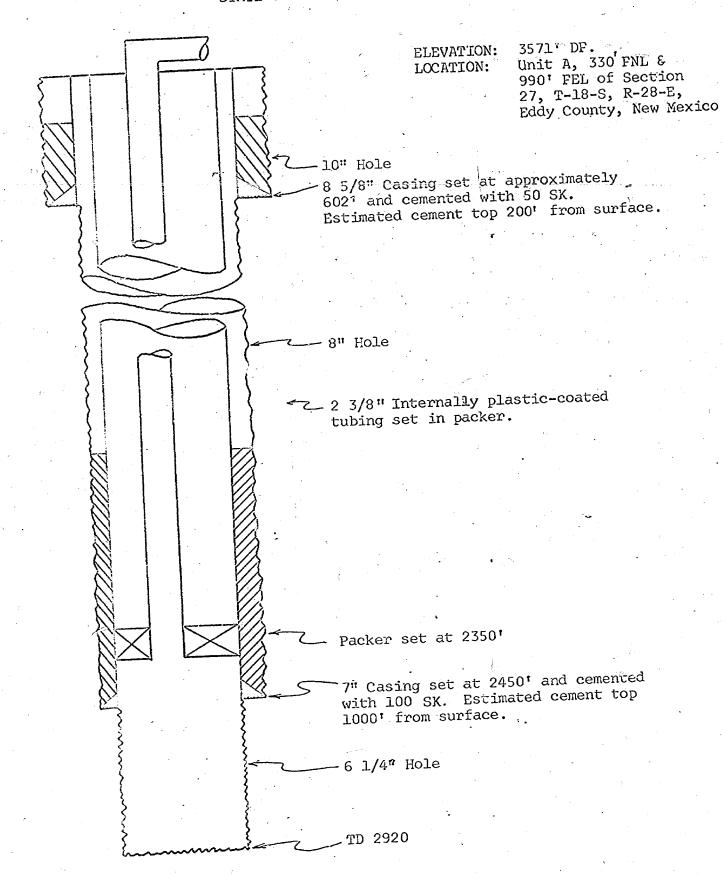
۵

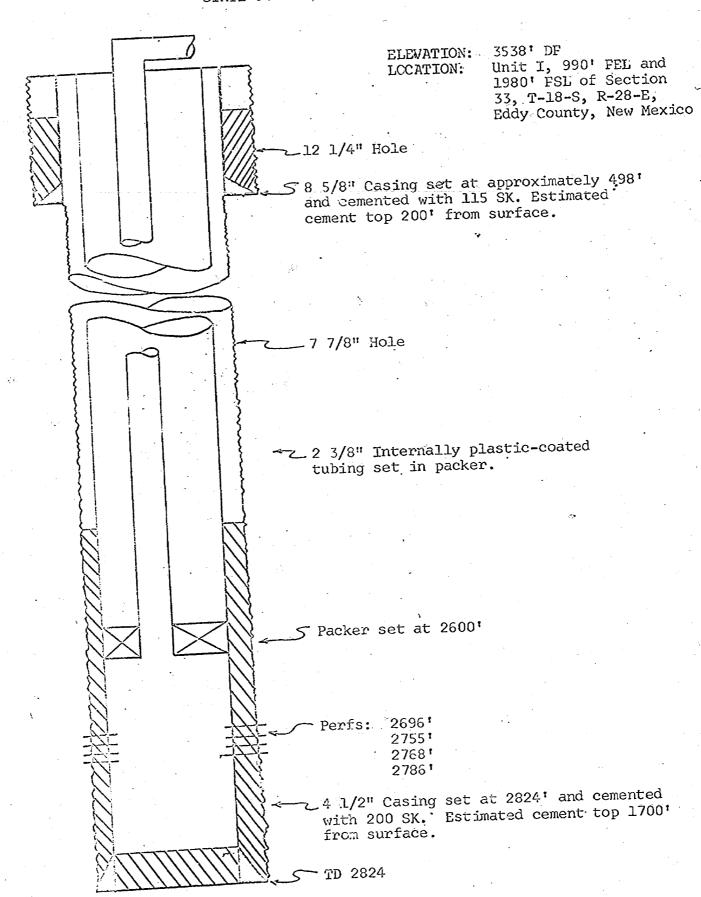
. . . .

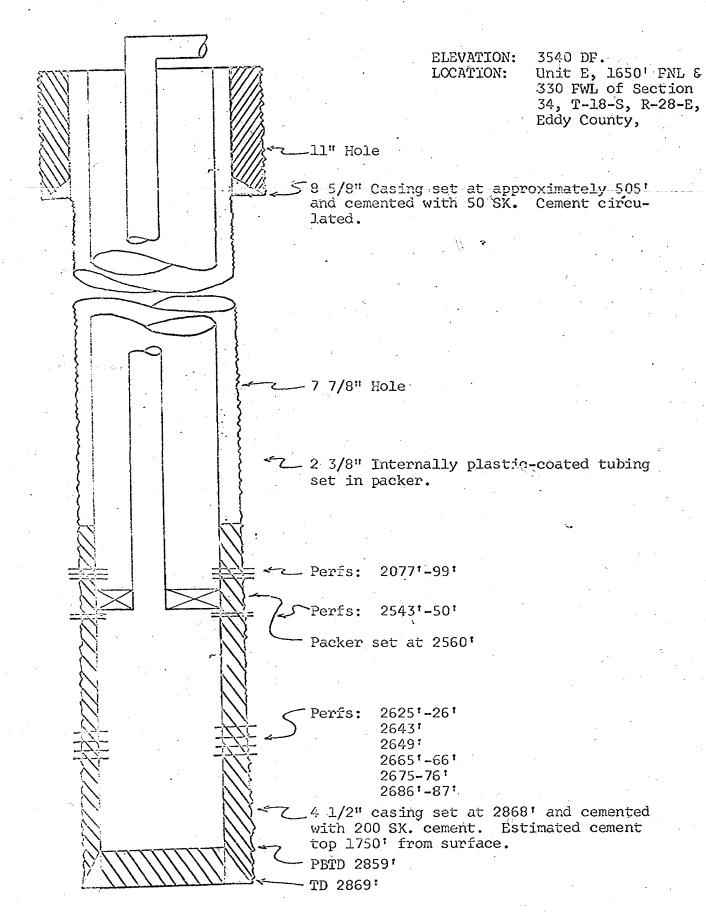
11.E 14O. COMPANY DEPCO. INCORPORATED WELL. STATE 547 NO. 217 FIELD ARTESIA STATE NEW MEXICO 1650'FNL & 330'FWL UNIT E.











ROUGH DRAFT FOR WATERFLOOD LETTERS

Mr. Booker Kelly White, Gilbert, Koch & Kelly Attorneys at Law Post Office Box 787 Santa Fe, New Mexico

Pear Sir:

2nclosed termeth Commission Order No. R-4027, entered in Case No.

4415, approving the Peper Camp Cirtheca To
Waterflood Project.

Outlier in the head with a peaker with a peaker

be the through plattic limed testing set in

a public. Packers shall be set as plan as
peachested to the appropriate ferfor about

or, in the last of after-back dampletons,

as near a presidente to the Rasing Above.

As to allowable our calculations indicate that when all of the authorized
injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions

of Rule 701-E-3 is 54 barrels per day when the Southeast New Mexico
normal unit allowable is 42 barrels per day or less.

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

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

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

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

CC: OCC: Hobbs x
Artesia x
Aztec
USGS

Mr. D. E. Gray,

DRAFT

GMH/esr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

Den

AMA

ass

Order No. R-415

John She!

APPLICATION OF DEPCO, INC.,

FOR A WATERFLOOD PROJECT, EDDY COUNTY,

NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

This cause came on for hearing at 9 a.m. on September 2, 1970, at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this day of September, 1970, the Commission, a guarum being present baying considered the testimony the record.

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.
- (3) That the applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.

(SEE UNDER)

Which previously interior warn history of one of the Sudjer to Willer, 17 That Order no. R - 3454 should be sufured by sufured.

(6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1)	That the applican	t, <u>De</u>	pco, Inc.			
is hereby	authorized to ins	titute a water	rflood proje	ect in	the	
=======		It Area,	Artesia		_ Pool	÷ '
by the in	jection of water i	nto the Graybu	rg and San	Andres	formation	ns
through t	he following-descr	ibed wells in	Township	18		٠
MOWEN, So	outh, Range 28	Westex Eas	st, NMPM,	Eddy		
County, N	few Mexico:	•				

Oefro State 647 Well No. 100 - Wint A - Lection 27 Defro State 647 Well No. 82 - Wint F - Lection 27 /
Oefro State 647 Well No. 92 - Venit N - Lection 27 /
Defro State 647 Well No. 207 - Venit I - Lection 33 /
Oefro State 647 Well No. 207 - Venit I - Lection 33 /

(2) That the subject waterflood project is hereby designated the Depth Camp Ortesia Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, That the Secretary-Director of the Commission may approve expansion of the Depch Camp little Water-flood Project to include such additional lands and injection wells in the area of the project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(SEE UNDER)

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

-2-