CASE 3947: Application of SKELLY OIL COMPANY FOR A WATERFLOOD PROJECT, LEA COUNTY, N. MEX.

-ase Number 3 9 47

Application Transcripts.

Small Exhibits

earniey-meier reporting service, inc.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 20, 1968

EXAMINER HEARING

IN THE MATTER OF:

Application of Skelly Oil Company) Case No. 3947 for a waterflood project, Lea County,)
New Mexico.

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING



MR. UTZ: Case 3947.

MR. HATCH: Case 3947. Application of Skelly Oil Company for a waterflood project, Lea County, New Mexico.

MR. JACOBS: If the Commission please, Ronald Jacobs appearing for Skelly Oil Company. We have one witness we would like to have sworn, please.

MR. UTZ: Are there other appearances in this case? You may proceed to swear the witness.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 4 were marked for identification.)

LARRY R. HALL

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

DIRECT EXAMINATION

BY MR. JACOBS:

Q First of all, if the Commission please, the Commission's file will reflect a letter from L. C. White, Attorney, Santa Fe, New Mexico, entering his appearance as local counsel for Skelly in this matter. Would you please state your name, by whom you are employed and in what capacity?

- A I am Larry R. Hall; I'm employed by Skelly
 Oil Company in Hobbs, New Mexico as Advance Production
 Engineer.
- Q Mr. Hall, have you testified before this
 Commission on prior occasions as a petroleum engineer and
 had your qualifications accepted?
 - A Yes, I have testified before the Commission before.
- Q Are you familiar with the application in this case?
 - A Yes, I am.
- Q Would you explain what is being sought by this application?
- A Case Number 3947 is an application of Skelly
 Oil Company for authority to institute a pilot waterflood
 project by injecting into the Skelly E. L. Steeler No. 6
 in the Langlie-Mattix Pool, Lea County, New Mexico.
- Q Now, Mr. Hall, referring to what has been marked for identification as Exhibit No. 1, would you relate to the Examiner what this exhibit shows?
- A Exhibit No. 1 is a copy of a plat showing a portion of the Langlie-Mattix Pool which is aerially the largest and one of the earliest developed pools in Southeastern New Mexico. This plat shows the location of the proposed

injection well, the Steeler No. 6. It is circled in red on the map and is located 1980 feet from the south line and 1980 feet from the east line, Section 17, Township 23 South, Range 37 East, Lea County, New Mexico. This exhibit also shows the locations of ownership of all the leases and wells within a two-mile radius of the proposed injection. Also outlined on this exhibit is a proposed Skelly Penrose C Unit boundary of which Skelly is the unit expediter. We have made a secondary recovery study on this proposed unit area and our unit negotiations have progressed to a point where work has begun on participation and agreement. Now, this proposed unit will not be effective prior to January 1st, 1969. Because of the New Mexico Oil Conservation Commission deadline for elimination of surface disposal on unlined pits, we must make provision for disposal of produced water from the leases within this area. It is probable that Skelly Oil Company will waterflood the Skelly leases within this proposed Penrose C Unit boundary, either under the unitization operations that are now planned or as a smaller unit with cooperative lease-line agreements. Skelly feels that the flood ability of the Langlie-Mattix has been established based on the performance of the pilots and other floods in the area. The waterflood pattern will utilize many of the same wells as injections for either of

pattern is to be used for the smaller unit and a modified nine spot pattern will be utilized for the unit that is now proposed. Now, the Steeler 6 was selected as the perspective pilot injection well since it is one of the wells common to both of these projects. The proposed five spot around the Steeler 6 is only partially developed. There are two direct Skelly producers, one diagonal Skelly producer, one undeveloped location and one plugged back well. Skelly 0il Company has purchased 120 acres of the Langlie-Mattie rights from Samadan. These are in Section 17, the east half of the southeast quarter and the southeast quarter of the southwest quarter, Section 17, Township 23 South, Range 37 East.

Q Now, Mr. Hall, referring to what has been marked for identification as Exhibit No. 2, would you relate to the Examiner what this exhibit shows?

A Exhibit No. 2 is a down-hole schematic diagram of the proposed pilot injection well, Steeler No. 6. It shows the size and setting depth of the casing, quantities used in tops of cement, size and setting depth of the tubing, the location of the packer and the completion interval.

Steeler 6 was drilled to a total depth of 3685 in March of 1954. Current production on this well is approximately one barrel of oil per day and five barrels of water per day. Cumulated oil production is approximately 24,000 barrels. The injection will be confined to the Langlie-Mattix interval. The injection will be down internally coated tubing below a tension packer into the overall perforated interval 3572 to 3632. Initial injection rates are approximately 500 barrels of water per day are anticipated with an additional 200 barrels per day being added in the immediate future from the proposed Blinebry development in the area. Our anticipated maximum injection pressure is 1800 psi.

MR. UTZ: 1800?

THE WITNESS: Yes, sir. The annulus will be loaded with an inert fluid and a pressure gauge attached. A copy of the portion of the radio activity log on this well has been shown as Exhibit No. 3. This exhibit shows the completion interval and formation tops.

- Q And the log that you mentioned is Exhibit 3 and so marked, is that correct?
 - A That is correct.
 - Q Now, referring to what has been marked for

identification as Exhibit No. 4, Mr. Hall, would you explain to the Examiner, to the Commission, what this exhibit shows?

A Presented as Exhibit 4 is an analysis of the water produced from the J. C. Johnson No. 2 which produces approximately 90 percent of the water that will initially be injected into the proposed injection well. This analysis shows the water to be mineralized and unsuitable for general use.

MR, UTZ: Where is that well located?

THE WITNESS: The well is located in Unit A of Section 20. It's diagonally southeast of the proposed injection well.

MR. UTZ: Thank you.

waters are being disposed of in surface pits within the proposed unit boundary and other Skelly leases in the area. Initial injection water is to be from the same formation into which injection is to be made. Upon Commission approval of that application injection well will be made available for injection of the produced water within the proposed unit area and other Skelly leases in the immediate area.

Q Mr. Hall, in your opinion, what will be the affect of the injection of water into the Steeler No. 6 on the recovery of oil in this area?

into the proposed injection well will definitely increase production in offsetting wells. The Langlie-Mattix Pool has a large number of waterflood units that are now in operation and all known projects which have utilized pilots have expanded or in the process of expanding to full-scale operation. Secondary recoverable oil by waterflood is estimated at 75 percent of ultimate primary recovery for the proposed Skelly Penrose C Unit. As previously stated, Skelly will, in all probability, flood the entire Skelly leases within this proposed unit even if the unit negotiations fail and the unit does not become effective. Therefore, Skelly request that provisions for administrative approval be set out in the order to permit administrative expansion on the Skelly leases.

Q Mr. Hall, will the granting of the application result in waste?

A No, the result of this application will be to provide for a place for immediate down-hole injection of the produced water in the area which is presently being disposed

of in surface pits; also the injection of water into the proposed injection well is expected to increase production in the offsetting wells and thereby recover oil that might not otherwise be recovered.

Q Mr. Hall, will the granting of this application result in impairment of correlative rights?

A No, the granting of this application in my opinion will not result in any impairment of correlative rights.

Q Now, Mr. Hall, with regard to the productivity of the wells in the immediate vicinity of the Steeler 6, did you give the Examiner the approximate volume of oil that is being produced from each well?

A Yes. The lease total is 16 barrels per day; that is for the eight wells. Well No. 7, which is located in the Northwest of the Southwest has the highest productivity of six barrels per day. The Steeler 4, which is immediately south of No. 7 produces four barrels per day and the other six wells, to the nearest barrel, produce one barrel of oil per day.

MR. UTZ: Total of 16 barrels?

THE WITNESS: 16 barrels, yes, sir.

So that this is truly a proposed waterflood project?

- A That is true, advance stripper stage of production.
- Q Mr. Hall, were Exhibits one through four prepared by you or under your supervision?
 - A Yes, they were.
 - Q Mr. Examiner, we offer Exhibits one through four.

MR. UTZ: Without objection Exhibits one through four will be entered into the record of this case.

MR. JACOBS: That is all the direct testimony that we have Mr. Examiner.

CROSS EXAMINATION

BY MR. UTZ:

- Q This well shown in the southeast, southeast, Section 17, is that a location or is that a well?
 - A With a BY underneath it with a six?
 - Q Right.
 - A That well has since been completed as a Blinebry.
 - Q That's a Blinebry oil well?
- A That is true, yes, sir. At the time this map was prepared, they were still testing the well.
- Q Now, the Cornell well immediately to the west of that is shown as a gas well?
 - A Yes, that's a Jalmat Gas Well.

Q Jalmat? Now, what type of pattern did you say that you intended to use?

A Under the full unit participation it will be a nine spot pattern. If the unit does not go into effect, Skelly would flood their leases separately, it will be an 80-acre five spot.

Q What type of coating do you intend to use on your tubing?

A As of right now, we are looking at cement line tubing.

Q In the interval behind the five and a half inch from 3126 up to 1130 is there any fresh waters or any production in that area?

A Not to my knowledge. At 1130 feet should take the surface cement -- this surface pipe cemented to surface and that is below any fresh water sands to my knowledge in the area.

Q No oil production?

A No oil production between the top of the cement and the surface?

Q Yes.

A No, sir. There may be some Yates gas.

Q On your Exhibit No. 4, do I interpret that 2670 to

be parts per million, or equivalent?

- A Yes, milligrams per liter, which is essentially parts per million.
 - Q Plus the small correction?
 - A Yes, that's right.
 - Q Well, this water isn't really too salty, is it?
 - A It is not as salty as some of it, no, sir.

MR. UTZ: Any other questions of the witness?

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

(Witness excused.)

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STATE OF NEW MEXICO)
)ss
COUNTY OF BERNALILLO)

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

Witness my Hand this 22nd day of November, 1968.

COURT REPORTER

I do hereby certify that the foregoing is a complete record of the proceedings in the Example of Case to 3247, heard by no on 1000.

New Maxico Oil Corpervation Countration

ROUGH DRAFT FOR WATERFLOOD LETTERS

Mr. Ronald Jacobs Skelly Oil Company Post Office Box 1650 Tulsa, Oklahoma 74102

Dear Sir:

cc: OCC: Hobbs x

Reference is made to Commission Order No. R-3593, entered in Case No.

3947, approving the Skelley Kangke Matter Steller

Waterflood Project.

In school is to be through the one

Authorized waln injection will which shall

be equipped with 278 inch coment-lined

be equipped with 278 inch coment-lined

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fall. The assuing tubing assimilies chall be

looked with an interf fluid and equipped

with a pressure gauge at the surface to facility

alekande in the casing, tubing, or packer

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 168 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

	Artesia						
	Aztec						
>	USGS		•				
	Mr. Frank Irby, State	Engineer	Office,	Santa	Fe,	New	Mexico
	Mr. D. E. Gray						

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

December 2, 1968

Mr. Ronald Jacobs Skelly Oil Company Post Office Box 1650 Tulsa, Oklahoma 74102

Dear Sir:

Reference is made to Commission Order No. R-3593, recently entered in Case No. 3947, approving the Skelly Langlie Mattix Steeler Water-flood Project.

Injection is to be through the one authorized water injection well which shall be equipped with 2 3/8-inch cement-lined tubing set in a packer at approximately 3500 feet. The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface to facilitate detection of leakage in the casing, tubing, or packer.

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 168 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 provation 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

OIL CONSERVATION COMMISSION P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

-2-Mr. Ronald Jacobs Skelly Oil Company Post Office Box 1650 Tulsa, Oklahoma 74102

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

ALP/Dsn/ir

cc: Oil Conservation Commission Hobbs, New Mexico

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

GOVERNOR DAVID F. CARGO CHAIRMAN

State of New Mexico Gil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MCMBER



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

P. O. BOX 2088 SANTA FE

November 26, 1968

Mr. Ronald Jaco	
Skelly Oil Comp	any
Post Office Box	1650
Tulsa, Oklahoma	74102

Re:	Case No	3947
	Order No.	R-3593
	Applicant:	
	Skelly Of	1 Company

Dear Sir:

Enclosed herewith is a copy of the above-referenced Commission order recently entered in the subject case. Letter pertaining to conditions of approval and maximum allowable to follow.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs	OCC	×
Artes	la OCC_	
Aztec	OCC	
State	Engine	e <u>:: </u>

Other

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE No. 3947 Order No. R-3593

APPLICATION OF SKELLY CIL COMPANY FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 8:30 a.m. on November 20. 1968, at Santa Fe, New Maxico, perore Examiner Blvis A. Utz.

NOW, on this 26th day of November, 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, Skelly Oil Company, seeks permission to institute a pilot waterflood project in the Langlie-Mattix Pool by the injection of water into the Queen formation through its E. L. Steeler Well No. 6, located in Unit J of Section 17, Town-ship 23 South, Range 37 East, NMPM, Lea 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.

-2-CASE No. 3947 Order No. R-3593

- (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.
- (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 applicant. Skelly Oil Company, is hereby authorized to institute a pilot waterflood project in the Langlie-Mattix Pool by the injection of water into the Queen formation through its E. L. Steeler Well No. 6, located in Unit J of Section 17, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico.
- (2) That the subject waterflood project is hereby designated the Skelly Langlie Mattix Steeler 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 Skelly Langlie Mattix Steeler Waterflood Project to include such additional lands and injection wells in the area of said 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 jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-CASE No. 3947 Order No. R-3593

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

STATE OF NEW MEXICO

OIL CONSURVATION COMMISSION

DAVID F. CARGO, chairman

GUYTON B. HATE Member

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

esr/

Care. 3947 Heard 11-20-68 Rec. 11-20-68

Stant Skelly a pilot wales flood

to be named Skelly Pennos C'

Waterflood. approve conservoir

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NOTE: THIS HEARING WILL START AT 8:30 a.m. rather than the usual hour of 9:00 a.m.

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 20, 1938

8:30 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. Hutter, Alternate Examiner:

CASE 3946: Application of Coastal States Gas Producing Company for the redesignation of the Baum-Upper Pennsylvanian and Lazy J-Pennsylvanian Pools, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the extension of the Baum-Upper Pennsylvanian Pool to include the following described lands:

Township 13 South, Range 33 East, Lea County, New Mexico

Section 19: SE/4

Section 20: SW/4 and E/2

Section 21: SW/4

Section 29: All

Section 30: E/2

Section 31: N/2

Section 32: N/2 and SE/4

Township 14 South, Range 33 East, Lea County, New Mexico

Section 5: SE/4

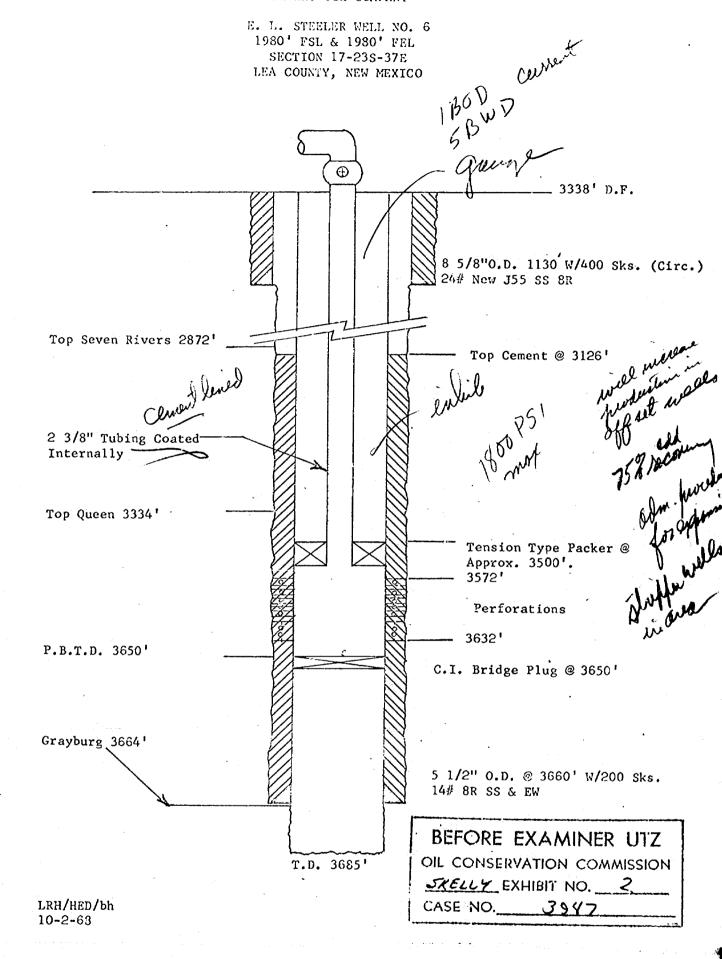
Section 8: NE/4

Applicant further seeks the contraction of the Lazy J-Pennsylvanian Pool by the deletion from said pool of the E/2 of Section 20 and the SE/4 and W/2 of Section 21, both in Township 13 South, Range 33 East, Lea County, New Mexico.

CASE 3947:

Application of Skelly Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Queen formation through its E. L. Steeler Well No. 6 located in Unit J of Section 17, Township 23 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.

CASE 3948: Application of Sinclair Oil Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates and Seven Rivers formations in the perforated and openhole interval from approximately 3110 feet to 3300 feet in its



ENJAY CHEMICAL COMPANY

Houston Chemical Plant 8230 Stedman, Houston, Texas 77029



October 30, 1968 WATER ANALYSIS

SAMFLE DESCRIPTION:

Water Sample for Mineral Analysis, J. C. Johnson No. 2

Date Sampled: October 18, 1968

COMPANY: STSR NUMBER:

REQUESTED BY:

Skelly Oil Company, Eunice, New Mexico

81005 A. R. Bohannon

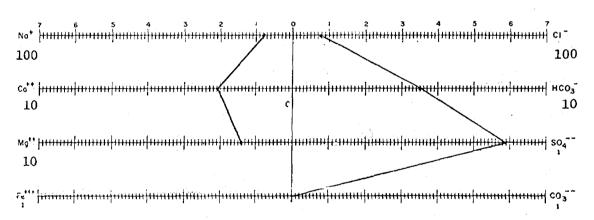
DATE RECEIVED: ANALYZED BY:

October 28, 1968

J. T. Dominy

	Mg/L	Meq/L		
Sodium	1,870	81.09	pH, Beckman	7.9
Calcium	425	21.24	Specific Gravity at 60 _°F.	1.007
Magnesium	173	14.14		
Chloride	2,670	75.24		Mg/L
Sulfate	282	5.87	Oil Content	
Bicarbonate	2,160	35.36	Organic Matter	
Carbonate	-		Hydrogen Sulfide	214
Hydroxide				
TOTAL	7,580			
Dissolved Iron	Not Determin	ed		
Total Iron				

WATER PATTERN (Stiff Method)



Meq/LITER

Remarks:

BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION SKELLY EXHIBIT NO. 4 CASE NO. 3947

WHITE, GILBERT, KOCH & KELLY (GILBERT, WHITE AND GILBERT)

ATTORNEYS AND COUNSELORS AT LAW

LINCOLN BUILDING SANTA FR, NEW MEXICO 87501

CARL H. GILBERT (1891-1963) L.C.WHITE
WILLIAM W. GILBERT
SUMNER S. KOCH
WILLIAM BOOKER KELLY
JOHN F. MCCARTHY, JR,

_ October 31, 1968

Car 3947

POST OFFICE BOX 787 TELEPHONE 982-4301 (AREA CODE 505)

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

> MAIN OFFICE UT & Re: Skelly Oil Company

Langlie Mattix Pool, E. L. Steeler Well No. 6, Lea County Nov 1 AM 3 30

Dear Mr. Porter:

Please enter our appearance as resident counsel for Skelly Oil Company in the above captioned matter.

Very truly yours,

L. C. WHITE

LCW:el

DOCKET MAILED



SKELLY OIL COMPANY

P. O. BOX⊈1650∰ TULSA, OKLAHOMA 74102

PRODUCTION DEPARTMENT

C. L. BLACKSHER, VICE PRESIDENT

W. P. WHITMORE, MGR. PRODUCTION
W.D. CARSON, MGR. TECHNICAL SERVICES
J. R. TEEL, MGR. JOINT OPERATIONS
GEORGE W. SELINGER, MGR. CONSERVATION

October 28, 1968

Care 3947

Re: Langlie Mattix Pool
E. L. Steeler Well No. 6
Unit J, Section 17, Township 23 South,
Range 37 East,
Lea County, New Mexico

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

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

Gentlemen:

We are attaching in triplicate our application to conduct a waterflood project in the Langlie Mattix Pool by injection into our E. L. Steeler Well No. 6, Located in Unit J of Section 17, Township 23 South, Range 37 East, Lea County, New Mexico.

We would appreciate you setting this matter down for the next Examiner's hearing, which we understand will be November 20, 1968.

Yours very truly,

Ronald J. Japobs Conservation Attorney

RJJ:br Attach.

cc-Mr. L. C. White w/ attach.

DOCKET MARED

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF SKELLY OIL)
COMPANY FOR AN ORDER AUTHORIZING A WATERFLOOD)
INTO THE LANGLIE MATTIX POOL BY INJECTION INTO)
ITS E. L. STEELER WELL NO. 6, LOCATED IN UNIT)
"J", SECTION 17, TOWNSHIP 23 SOUTH, RANGE 37)
EAST, LEA COUNTY, NEW MEXICO.

CASE NO. 3947

APPLICATION

Comes now Skelly Oil Company and alleges and states:

- 1. That it is a Delaware Corporation authorized to do business in the State of New Mexico and that it operates a number of wells and leases in the Langlie Mattix Pool, and that in the near future it will form the Skelly Penrose "C" Unit covering a portion of Township 23 South, Range 37 East, Lea County, New Mexico.
- 2. That a number of wells and leases operated by applicant are producing considerable volumes of produced salt water, and that in view of the Commission's pending deadline for the elimination of surface disposal pits it is necessary and desirable that the produced water be disposed of underground.
- 3. That pending final approval by the various interest owners prior to the formation of the Skelly Penrose "C" Unit, Skelly Oil Company proposes to conduct a waterflood into the producing formation by converting its E. L. Steeler Well No. 6 to injection and that in the future when the unit is formed, said well will be one of the injection wells in the unit.
- 4. That based on the performance and information gained from the injection into the aforementioned well, the applicant may request administrative approval to expand the project and to convert additional wells.
- 5. That attached hereto and made a part hereof is Exhibit "A", a plat showing the location of the proposed injection well and the location of all other wells within a radius of two miles from the proposed injection well and the formation from which said wells are producing or have produced. The plat also indicates the lessees within the aforementioned two-mile radius.
- 6. That attached hereto and made a part hereof is Exhibit "B", a log of the proposed injection well.
- 7. That attached hereto and made a part hereof is Exhibit "C", a diagrammatic sketch of the proposed injection well showing all casing strings, including diameter and setting depths; quantities used and tops of cement; perforation interval; tubing strings, including diameter and setting depths; and the type and location of packers.
- 8. That applicant proposes to inject into the Langlie Mattix Pool through perforations between 3,572' to 3,632' in said well, that the fluid to be injected will initially be produced salt water from the Langlie Mattix Pool and Blinebry Pool on applicant's Steeler and Johnson leases and other leases in the immediate vicinity, and applicant anticipates that the initial volume will be 500 to 700 barrels of water per day at a maximum pressure of 1,800 psi.

WHEREFORE, PREMISES CONSIDERED, applicant prays that this Commission set this matter down for hearing, that notice hereof be given as required by law, and that at the conclusion of said hearing based on the evidence adduced, the Commission enter its order granting Skelly Oil Company permission to conduct a waterflood project in the Langlie Mattix Pool through injection into its E. L. Steeler Well No. 6, located in Unit "J" of Section 17, Township 23 South, Range 37 East, Lea County, New Mexico, to further provide for administrative expansion of the project area and conversion of additional wells by administrative means without the necessity of separate hearings, and for such other orders, rules and regulations that may be necessary in the premises.

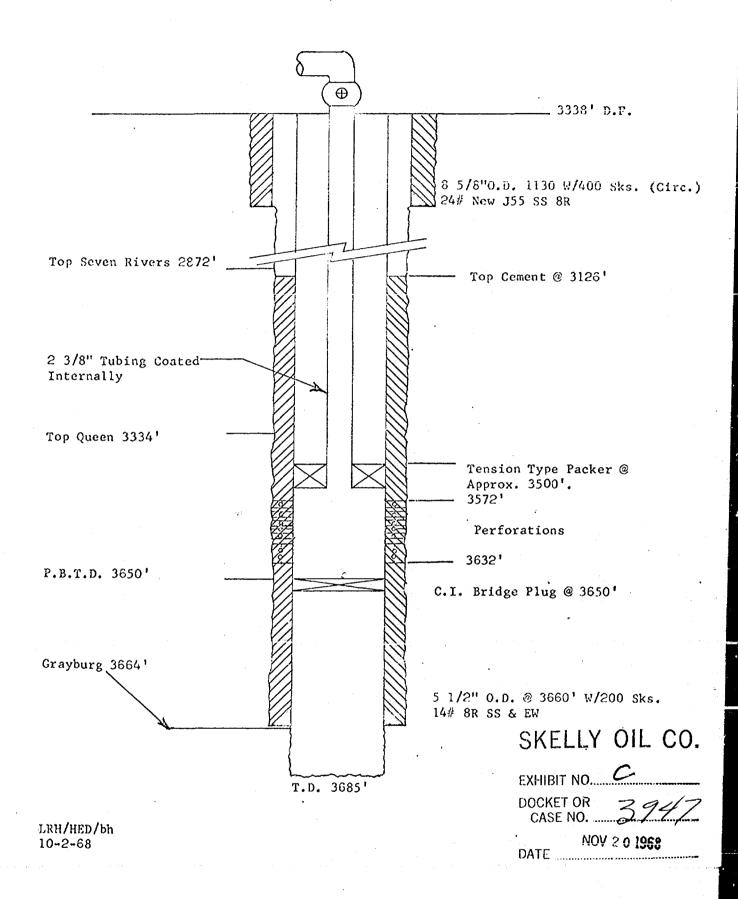
Respectfully submitted,

SKELLY OIL COMPANY

George W. Selinger Ronald J. Jacobs Its Attorneys

Of Counsel: Mr. L. C. White White, Gilbert, Koch & Kelly P. O. Box 787 Santa Fe, New Mexico 87501 By Tronald facobr

E. L. STEULER WELL NO. 6 1980' FSL & 1980' FEL SECTION 17-23S-37E LEA COUNTY, NEW MEXICO



DRAFT

GMH/esr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

The ltr

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	CASE No. 3947
Du	Order No. R- 3.593
APPLICATION OF SKELLY OIL COMPANY FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.	- 11-22-68
ORDER OF THE COMMISSION	<u>.</u>
BY THE COMMISSION:	
This cause came on for hearing at 9 a.m at Santa Fe, New Mexico, before Examiner Elv	
NOW, on this <u>day of November</u> , 1 guorum being present, having considered the and the recommendations of the Examiner, and in the premises,	testimony, the record,
FINDS:	. V.
(1) That due public notice having been law, the Commission has jurisdiction of this matter thereof.	
(2) That the applicant, Skelly Oil Consider the seeks permission to institute a waterflood process of the seeks permission to th	Company,
Langlie-l	
the injection of water into the Queen its E. L. Steeler Well No. 6, located through /==========injection wells-in-Section	n formation in Unit J of Section 17
Township 23 Nombby South, Range 37	Wastex East, NMPM,
Lea County, New Mexico.	
(3) That the applicant further seeks as procedure whereby said project could be expandeditional lands and injection wells in the a	nded to include

(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)

(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.
(1) That the applicant,Skelly Ull Company (SEE UNDER)
is hereby authorized to institute a waterflood project in the
Pool
by the injection of water into the Queen formation
through the following described wells in Township =========
North; South; Range ====================================
County; New Mexico:
through its E. L. Steeler Well No. 6, located in Unit J of Section 17,
Township 23 South, Range 37 East, NMPM, Lea County, New Mexico.

(2) That the subject waterflood project is hereby designated the Skelly Kanglie Matty Steeler 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 Sicelar Raughe Metaling Status Waterflood Project to include such additional lands and injection wells in the area of said 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)

entry of such further orders as the Commission may deem necessary.

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