Court to

Case Number 4808 Large

Exhibits

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO

October 4, 1972

EXAMINER HEARING

IN THE MATTER OF:

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Application of Skelly Oil Company for a waterflood expansion and dual completion, Eddy County, New Mexico.

Case No. 4808

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

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Case 4808. MR. HATCH: Case 4808: Application of Skelly Oil 2 Company for a waterflood expansion and dual completion,

MR. UTZ:

Eddy County, New Mexico.

MR. SELINGER: George W. Selinger and L. C. White of White, Gilbert, Koch, Kelly, and McCarthy, Santa Fe, appearing on behalf of Skelly Oil Company. We have one witness we would like to have sworn.

BERT O. BROWN,

was called as a witness, and after being duly sworn, testified as follows:

MR. UTZ: Are there any other appearances in this

(No response)

MR. UTZ: You may proceed.

DIRECT EXAMINATION

BY MR. SELINGER: 18

case?

- Will you state your name and what position you are in?
- Α My name is Bert O. Brown, B-e-r-t, and I am with Skelly
- Oil Company as an area engineer.
 - Have you heretofore testified before the New Mexico Oil Q Conservation Commission?
- Yes, sir. 24
 - Are you familiar in general with the Grayburg-Jackson Q

DOS SIMMS BLDG. P.D. BOX 1062-PHONE 243-0001-ALBUQUERQUE, NEW MEXICO 17103

1		waterflood unit of Skelly?
2	A	Yes, sir.
3	Q	Are you familiar with the application and the exhibits
4		that have been marked?
5	A	Yes, sir.
6	Q	I will hand you what has been marked as Exhibit One,
7		and ask you to state what that is.
8	A	Exhibit One is a two-mile radius map around the well
9		that is the subject of this hearing, Skelly Well Number
10		114, showing all of the wells around that well within
11		a two-mile radius, or producing zone, or horizon from
12	-	which they produce. It also shows the injection wells.
13	Q	This area has been under waterflood for some time, has
24		it not?
15	A	Yes.
16	Q	I will hand you what has been marked as Exhibit Two, and
17		ask you to state what that is.
18	Α	Exhibit Two is a section of the gamma ray neutron log
19		of the Skelly Unit Well Number 114 which shows the
20		formation top, the perforations, and the casing that
21		opens to the Fren-Seven Rivers as well as the Grayburg-
22		Jackson Pools.
23	Q	This field is overlaid by two different classified
24		reservoirs, is that correct?
25	Α	Yes, sir.

dearnley, meier & mc cormick and serve

NEW MEXICO 87108	MEXICO 87108
209 SIMMS BLDG. # P.O. BOX 1092 * PHONE 245-6691 * ALBUQUERQUE, NEW MEXICO 87103	TOTAL STATE OF A TIONAL BANK BLOW MANTEAL BLOCKET NEW MAKING B7108

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Yes, sir.

1	Q	I will hand you what has been marked as Exhibit Three,
2		and ask you to state what that is.
3	A	Exhibit Three is a schematic diagram of Well Number 114,
4		and the configuration that we propose as a dual completion
5		with production of oil from the Fren-Seven Rivers and
6		water injection into the Grayburg-Jackson Pool.
7	Q	The exhibit shows the completion as you propose it?
8	A	Right.
9	Q	Not the present equipment?
10	A	No.
11	Q	Now, I will hand you what has been marked as Exhibit
12		Four, and ask you to state what that is.
13	A	Exhibit Four is a water analyses of the water that we
14		purchase for injection or back-up water in the Skelly
15	• II	Unit Waterflood Project. We also inject all the produced
16		water and we purchase the additional water from the
17		Double Eagle Water Company.
18	Q	The unit produces approximately one thousand barrels
19		of oil and thirteen hundred barrels of water daily, is
20		that correct?
21	Α	Correct.
22	Q	And you are injecting approximately 11,000 barrels and
23		the difference between 1,300 and 11,000 is the water
24	11.	you purchase, is that correct?

١٢	Q	Is that water by its analyses indicated to be fresh
		water?
	A	Yes, sir.
	Q	I will hand you what has been marked as Exhibit Five,
5		and ask you to state what that is.
5	A	Exhibit Five are copies of C-115s that we have filed
,		with the Commission over the years, showing the wells
8		around the Skelly Unit Well Number 114, indicating there
9		has been response to the injection in the area.
0	Q	credifically, the months covered are February, 1966,
		April, 1972, and May, 1971 at various times indicating
11		the effect of the waterflood operation?
12		mbat's right.
13	A	I will hand you what has been marked as Exhibit Six, and
14		ask you to state what that is.
15	!	Exhibit Six is a form that we filed with the Oil
16	A	Conservation Commission requesting a dual completion.
1'	7	We filed this as an administrative request, which
1	8	
1	9	resulted in this hearing. That indicates that you proposed at that time to
2	w \	That indicates that you put
:	21	Seven Rivers, and from the lower zone, the Grayburg-
	22	
	23	San Andres, is that correct?
	24	That's right. Now, this Skelly Unit Waterflood Project was authorize
	25	Q Now, this Skelly office was

701, 702, and 703?

by the Commission by Order R-2900 on May 4th, 1965,

And amended by the expansion route of different wells

dearnley, meier & mc cormick

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is that correct?

Yes, sir.

	5	·	by Order 3214, dated April 7th, 1967, is that right?
	6	A	That's right.
	7	Q	I will hand you what has been marked as Skelly Exhibit
	8		Seven, and ask you to state what that is.
	9	A	Skelly's Exhibit Seven are C-115s on Skelly's Unit Wells
	10		producing from the Fren-Seven Rivers Pool.
	11	Q	And that information is for the month of June, 1972?
	12	A	The months of June, July, and August.
87108	13	Q.	Does that include Unit Well Number 114, showing its
ONAL BANK BLDG. KASTOALBLOOURRQUE, NRY MRXIGO 87108	14		capacity?
∑ ≱ ⊌ Z	15	A	Yes, sir.
ROUE,	iố	Q	I'll hand you what has been marked as Exhibit Eight, and
000	17		ask you to state what that is.
487 • AL	18	A	Exhibit Number Eight is a letter dated July 24th to the
14 15 13 13	19		New Mexico Oil Conservation Commission requesting
A N K	20		application for waterflood expansion on the Skelly Unit
D A A C	21		Well Number 114 by administrative procedure.
_	22	Q	That is provided for by Statewide Rules 701, 702, and 703
1216 FIRST NAT	23	A	Yes, sir.
Ę	24	Q	I will hand you what has been marked as Exhibit Nine,
	25		and ask you to state what that is.

25

dearnley, meier & mc cormick

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209 SIMMS BLDG. 4 P.O. BOX 1092 • PHONE 243•6691 • ALBUQUERQUE, NEW MEXICO \$7103 1216 First national bank bldg. East • Albuquerque, new mexico \$7108 Conservation Commission dated July 24th, 1972, requesting application for administrative approval of the dual completion.

Q That is for the purpose of producing cil from the upper pay and the disposal of water-- or water expansion to the lower pay through another string of tubing, is that correct?

A Yes, sir.

Q And the Commission required this hearing as a result of that request?

A The two requests.

Q I will hand you what has been marked as Exhibit Ten, and ask you to state what that is.

A Exhibit Ten is a letter to Skelly Oil Company from the

Exhibit Nine is a letter to the New Mexico Oil

A Exhibit Ten is a letter to Skelly Oil Company from the
United States Department of Interior approving the
proposed dual completion of the Skelly Unit Well Number 114.

Q Approving what you are proposing to the Commission?

A Yes, and as is pointed out on the diagramatic sketch of the well.

Q Did you have overall jurisdiction to propose these exhibits, make them up?

A Yes, sir.

MR. SELINGER: We offer into evidence Skelly Exhibits One through Ten, both inclusive. That's all we have.

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MR. UTZ: Without objection, Exhibits One through
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   Ten will be entered into the record of this case.
2
              (Whereupon Skelly's Exhibits One through Ten were
3
   entered in evidence.)
5
                        CROSS EXAMINATION
6
   BY MR. UTZ:
7
         Mr. Brown, on Exhibit Six, that is information for the
8
         dual completion, is that correct?
9
         I beg your pardon?
10
         Exhibit Six?
11
    Q
         Yes, sir.
12
         And now you propose to inject water into the Grayburg
13
          zone rather than produce it as an oil well?
 14
          Yes, sir.
     Α
 15
          At the same perforations?
     Q
 16
          Yes, sir.
 17
     Α
          Three thousand three hundred seventy-three to 3,772?
     Q
 18
           That's correct.
 19
                MR. SELINGER: I might state that the well was
 20
     producing oil for a short period of time from those
  21
      perforations. That is correct, isn't it?
                THE WITNESS: Yes.
  23
            (By Mr. Utz) The Grayburg is part of the waterflood
  24
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project here?

9 10 11 20% SIMMS BLDG. * P.O. BOX 1092 * PHONE 243-6691 * ALBUQUERQUE. NEW MEXICO 87108 1216 FIRST NATIONAL BANK BLDG. EAST * ALBUQUERQUE, NEW MEXICO 87108

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So actually all you need out of this hearing is approval Yes, sir. Α of the water injection and oil dual completion? Q MR. SELINGER: May the Examiner please, we would Yes, sir. Α also like to have permission to seek administrative approval of similar completions in the future on this project without the necessity of a hearing. And while our project is a small 7 part of the entire field, we will have no objection if that 8 relief is given to any other operator that may conduct similar projects. MR. HATCH: What you are talking about here is administrative approval of dual completions? 12 MR. SELINGER: Dual completions for producing oil 13 from the upper pay and the waterflood into the lower pay. 14 MR. HATCH: There may be some question as to whether 15 that can be allowed or not. There has always been a lot of 16 argument as to whether this is properly a dual completion. 17 18 We have issued orders though. MR. UTZ: We will take your request under 19 consideration. Are there any further questions of this 20 21 witness? 22 (No response) MR. UTZ: If not, he may be excused. 23

(Witness excused.)

Case 4808 will be taken under advisement.

MR. UTZ:

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

I, RICHARD E. McCORMICK, a Certified Shorthand
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.

CERTIFIED SHORTHAND REPORTER

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION CONFERENCE HALL, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO September 13, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of Skelly Oil Company for a waterflood expansion and dual completion, Eddy County, New Mexico.

CASE NO. 4808

BEFORE: Daniel S. Nutter Examiner

TRANSCRIPT OF HEARING

MR. HATCH: Case 4808: Application of Skelly Oil Company for a waterflood expansion and dual completion, Eddy County, New Mexico.

The Commission has received a request from the Applicant that the case be continued to October 4th. MR. NUTTER: Case 4808 will be continued to

October 4th, the Examiner Hearing scheduled to be held at this same place.

Call Case Number 4809.

STATE OF NEW MEXICO I, JOHN DE LA ROSA, a Court Reporter, in and for the COUNTY OF BERNALILLO 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 knowledg, skill and ability.

PAGE

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 13, 1972

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

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

- ALLOWABLE: (1) Consideration of the allowable production of gas for October, 1972, from seventeen prorated pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico;
 - (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for October, 1972.
- CASE 4808: Application of Skelly Oil Company for a waterflood expansion and dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to expand its Grayburg-Jackson Skelly Unit Water-flood Project, Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water through its Unit Well No. 114 located in Unit D of Section 14, Township 17 South, Range 31 East. Said Well No. 114 to be completed as a dual completion in such a manner as to permit the production of oil from the Fren-Sevens Rivers Pool and the injection of water into the Grayburg-Jackson Pool.
- CASE 4809: Application of Saturn Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Antebellum Unit Area comprising 3,840 acres, more or less, of State and Federal lands in Township 23 South, Range 34 East, Lea County, New Mexico.
- CASE 4810: In the matter of the application of the Oil Conservation Commission on its own motion to consider the revision of the special rules for the Devils Fork Gallup Associated Pool and the Escrito Gallup Associated Pool, Rio Arriba and San Juan Counties, New Mexico, promulgated by Orders Nos. R-1670-B and R-1793-A, respectively, to permit taking of gas-oil ratio and bottom-hole pressure tests on an annual basis rather than quarterly and semi-annually, as is now required.

CASE 4747: (Continued from the July 26, 1972, Examiner Hearing)

Application of Union Texas Petroleum, a Division of Allied Chemical Corporation for compulsory pooling, Lea County, New Mexico, Applicant, in the above-styled cause, seeks an order pooling all mineral interests below the base of the Devonian formation underlying the N/2 of Section 33, Township 25 South, Range 37 East, Crosby Field, Lea County, New Mexico. Said acreage to be dedicated to its well to be located 1650 feet from the North line and 2310 feet from the East line of said Section 33. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

Examiner Hearing - Wednesday - September 13, 1972

CASE 4577: (Reopened)

In the matter of Case 4577 being reopened pursuant to the provisions of Order No. R-4181, which order established special rules and regulations for the Parkway-Wolfcamp Pool, Eddy County, New Mexico, including a provision for 160-acre spacing units. All interested persons may appear and show cause why said pool should not be developed on 40-acre or 80-acre spacing units.

- CASE 4811: Application of Atlantic Richfield Company for a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 120-acre non-standard gas proration unit comprising the N/2 SE/4 and NE/4 SW/4 of Section 36, Township 21 South, Range 37 East, Blinebry Gas Pool, Lea County, New Mexico, to be dedicated to its State 367 Well No. 3 located in Unit K of said Section 36.
- CASE 4812: Application of Midwest Oil Corporation for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 104, authority to drill a wildcat gas well to test the Morrow formation at an unorthodox location 1320 feet from the South and East lines of Section 1, Township 18 South, Range 28 East, Eddy County, New Mexico, with the S/2 of said Section 1 to be dedicated to the well.
- CASE 4813: Application of Inexco Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Sitting Bull Unit Area comprising 6,665 acres, more or less, of Federal lands in Sections 28, 29, 31, 32, and 33 of Township 23 South, Range 22 East, and Sections 4 through 9 of Township 24 South, Range 22 East, Eddy County, New Mexico.
- CASE 4814: Application of Inexco Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Four Forks Unit Area comprising 3,133 acres, more or less, of Federal and Fee lands in Sections 3, 10, 11, 14 and 15 of Township 22 South, Range 25 East, Eddy County, New Mexico.
- CASE 4815: Application of Inexco Oil Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Strawn gas pool for its well located 1980 feet from the South and West lines of Section 18, Township 21 South, Range 26 East, Eddy County, New Mexico. Applicant further seeks the promulgation of special rules therefor, including a provision for 640-acre spacing units.
- CASE 4816: Application of Penroc Oil Corporation for a special gas-oil ratio limitation increase, Lea County, New Mexico. Applicant, in the above-styled cause, seeks amendment of the special rules and regulations for the Hobbs-Drinkard Pool promulgated by Order No. R-3811, as amended,

(Case 4816 continued from Page 2)

to establish a limiting gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of oil in said pool.

- CASE 4817: Application of Phillips Petroleum Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Drag "B" Well No. 1 located in Unit K of Section 18, Township 23 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce gas from the South Carlsbad-Morrow Gas Pool through tubing and an undesignated Canyon gas pool through the casing-tubing annulus.
- CASE 4818: Application of Tipperary Land and Exploration Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the North Bagley-Pennsylvanian Pool by the injection of water into the Strawn and possibly other formations by the injection of water through its Bess Well No. 1 located 660 feet from the North line and 1980 feet from the East line of Section 20, Township 11 South, Range 33 East, Lea County, New Mexico.
- CASE 4819: Application of D. L. Hannifin for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in and under the S/2 of Section 24, Township 22 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, to be dedicated to a well to be drilled 1980 feet from the South and East lines of said Section 24. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said weil.
- CASE 4820: Application of Anadarko Production Company for the creation of an associated pool, special rules therefor, downhole and surface commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new associated pool for the production of oil and gas from the Yates and Seven Rivers formations for its Loco Hills Federal "B" Wells Nos. 1 and 8 located, respectively, in Units P and K of Section 9, Township 17 South, Range 30 East, Eddy County, New Mexico, and the promulgation of special rules therefor including provisions for the classification of oil and gas wells, oil and gas well spacing, and an unlimited gas-oil ratio.

Applicant further seeks authority to commingle in the well-bore of said Well No. 1 the Yates-Seven Rivers production from the newly created pool and the Grayburg-Jackson Pool and to commingle on the surface the Yates-Seven Rivers production from said Well No. 8 with production from the Grayburg-Jackson Pool.

CASE 4821: Application of Getty Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception

(Case 4821 continued from Page 3)

to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Pennsylvanian Pools in the wellbore of its State "BA" Well No. 8 located in Unit B of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico.

- CASE 4822: Application of Getty Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location for its State "BA" Well No. 9 located 660 feet from the North line and 2310 feet from the East line of Section 36, Township 17 South, Range 34 East, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico. Said well being nearer than 660 feet to another well capable of producing from the same pool.
- CASE 4823: Application of Getty Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location for its A. B. Coates "C" Well No. 28 located 1820 feet from the North and West lines of Section 24, Township 25 South, Range 37 East, Justis Blinebry Pool, Lea County, New Mexico. Said well being located nearer than 660 feet to another well capable of producing from the same pool.
- CASE 4824: Application of Getty Oil Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox location for its H. D. McKinley Well No. 11 located 760 feet from the North line and 550 feet from the East line of Section 30, Township 18 South, Range 38 East, Hobbs Grayburg-San Andres Pool, Lea County, New Mexico. Said well being nearer than 660 feet to another well capable of producing from the same pool.
- CASE 4825: Application of Hanagan Petroleum Corporation for dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Catclaw Draw Unit Well No. 3 located in Unit D of Section 36; Township 21 South, Range 25 East, Eddy County, New Mexico, in such a manner as to produce gas from an undesignated Strawn gas pool through tubing and from the Catclaw Draw-Morrow Gas Pool through the casing-tubing annulus.
- CASE 4826: Application of Hanagan Petrcleum Corporation for pool creation, special pool rules, and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Strawn gas pool for its well located 920 feet from the North and West lines of Section 36, Township 21 South, Range 25 East, Eddy County, New Mexico, and the promulgation of special rules therefor, including a provision for 640-acre spacing units. Applicant further seeks approval of an unorthodox location for the above-described well.
- CASE 4827: Application of Robert N. Enfield for an unorthodox location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks

Examiner Hearing - Wednesday - September 13, 1972

Docket No. 20-72

(Case 4827 continued from Page 4)

authority to drill a gas well at an off-pattern unorthodox location 990 feet from the North and East lines of Section 11, Township 15 South, Range 27 East, Buffalo Valley-Pennsylvanian Gas Pool, Chaves County, New Mexico, with the E/2 of said Section 11 to be dedicated to the well.

CASE 4828: Application of Inexco Oil Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority for the dual completion of its McMinn State Well No. 1 located 1980 feet from the South and West lines of Section 18, Township 21 South, Range 26 East, Eddy County, New Mexico, in such a manner as to produce gas from the Strawn formation and the Morrow formation adjacent to the Catclaw Draw-Morrow Gas Pool.

BEFORE THE NEW MEXICO STATE OIL CONSERVATION COMMISSION

IN THE MATTER OF APPLICATION
OF SKELLY OIL COMPANY FOR WATERFLOOD EXPANSION, DUAL COMPLETION
AND INJECTION OF WATER INTO DUAL
COMPLETION

No. 4808

Comes now L. C. White of the firm of White, Koch, Kelly & McCarthy of Santa Fe, New Mexico, and herewith enters his formal appearance as local counsel for Skelly Oil Company the applicant in the above entitled cause.

WHITE, KOCH, KELLY & McCARTHY

By Meller

SEP 19 1972

OIL CONSERVATION COMM.

Santa Fe

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July - Core 4808

SKELLY OIL COMPANY September 7, 1972

PLORATION & PRODUCTION DEPARTMENT ST CENTRAL DISTRICT

A. B. CARY, EXPLORATION & PRODUCTION MANAGER V. E. BARTLETT, EXPLORATION MANAGER C. J. LOVE, PRODUCTION MANAGER J. R. AVENT, ADM:NISTRATIVE COORDINATOR

ADDRESS REPLY TO: P. O. BOX 1351 MIDLAND, TEXAS 79701

File: Skelly Unit Well No. 114

Lease No. 73617

Eddy County, New Mexico

Re: New Mexico Oil Conservation Commission

Hearing for Dual Completion

Secretary Director (3) New Mexico Oil Conservation Commission Santa Fe, New Mexico 87501

Dear Mr. Porter:

We are informed that our request for administrative approval for a dual well has not been granted and that the matter has been scheduled for hearing September 13, 1972. We request that this hearing (case number 4808) be re-scheduled for October 4, 1972. This will allow us to prepare our case more thoroughly which will result in a clear presentation.

Very truly yours,

District Production Manager

BOB/rc

1-22-72



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2008 - SANTA FE 87501

October 16, 1972

GOVERNOR **BRUCE KING** CHAIRMAN LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

		Case No	4808
ir. George Selinger	Re:		R-4419
skelly Oil Company		Applicant:	
ruisa, Oklahoma 74102		Skelly Oil	Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

very truly yours. A. L. PORTER, Jr. Secretary-Director

ALP/ir copy of order also sent to: Hobbs OCC x Artesia OCC x Aztec OCC State Engineer Office

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. 4808 Order No. R-4419

APPLICATION OF SKELLY OIL COMPANY FOR A WATERFLOOD EXPANSION AND DUAL COMPLETION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 4, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 16th day of October, 1972, 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 expand its Grayburg-Jackson Skelly Unit Waterflood Project in the Grayburg-Jackson Pool, by the injection of water through its Unit Well No. 114 located in Unit D of Section 14, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (3) That the applicant further seeks authority to complete its Well No. 114 in such a manner as to permit the production of oil from the Fren-Seven Rivers Pool through 2 1/16-inch tubing and the injection of water into the Grayburg-Jackson Pool through a parallel string of 2 1/16-inch tubing with separation of zones by a packer set at approximately 3300 feet.
- (4) That the applicant further seeks a procedure whereby the subject waterflood project may be expanded by the dual completion of additional wells within the boundaries of the above-described unit without the necessity for notice and hearing.
- (5) That the proposed waterflood expansion and dual completion are feasible and should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

-2-Case No. 4808 Order No. R-4419

(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 as single completions or as dual completions.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Skelly Oil Company, is hereby authorized to expand its Grayburg-Jackson Skelly Unit Waterflood Project in the Grayburg-Jackson Pool by the injection of water through its Unit Well No. 114 located in Unit D of Section 14, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (2) That the applicant is hereby authorized to complete said Well No. 114 in such a manner as to permit the production of oil from the Fren-Seven Rivers Pool through 2 1/16-inch tubing and the injection of water into the Grayburg-Jackson Pool through a parallel string of 2 1/16-inch tubing with separation of zones by a packer set at approximately 3300 feet.
- (3) That Order (2) of Order No. R-3214 is hereby amended to read in its entirety as follows:
- "(2) That the subject waterflood project is hereby designated the Grayburg-Jackson Skelly Unit 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 above-described water-flood project to include such additional injection wells in the area of said project as may be necessary to complete an efficient injection pattern; that said wells may be approved as dual completions for injection into the Grayburg-Jackson Pool and production from the Fren-Seven Rivers Pool."

- (4) That monthly progress reports of the waterflood expansion authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-Case No. 4808 Order No. R-4419

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

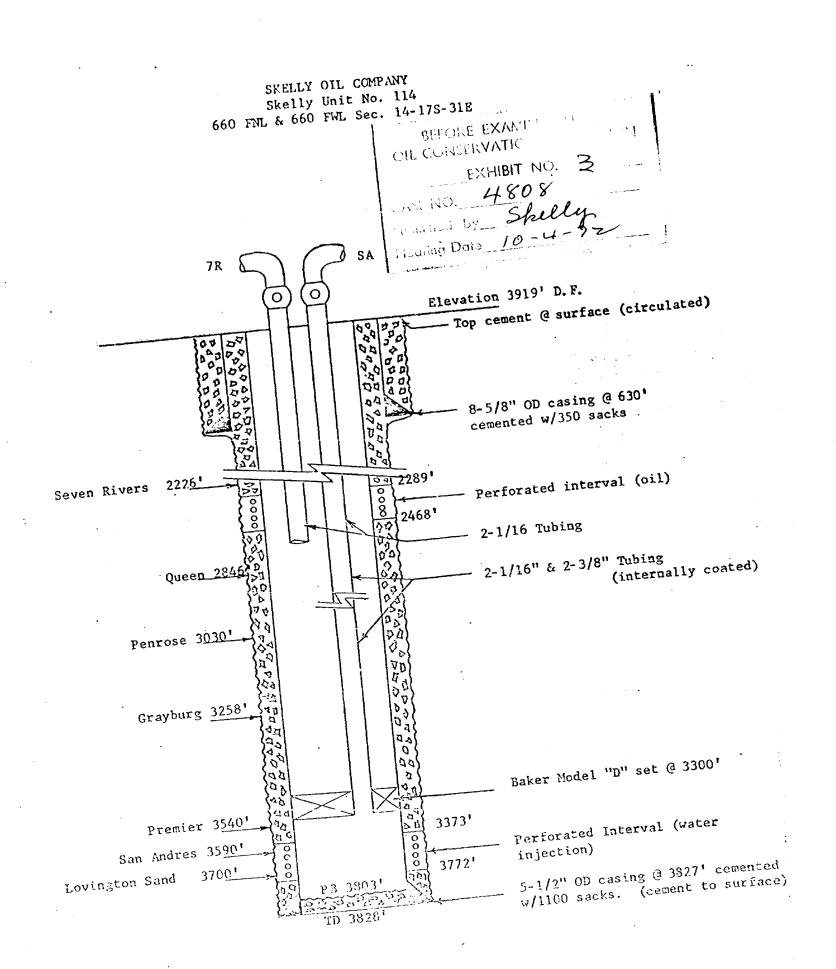
STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX JARMIJO, Member

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

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Martin Water Laboratories RESULT OF WATER ANALYSES 77161 LABORATORY NO. Mr. D. R. Parkhurat

P. O. Box 730, Hobbs, Naw Paxico

Results Reported. 7-17-11 P. 0. UOX 1468 PHONE 943-3234
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NEW MEXICO OIL CO! ERVATION COMMISSION

BOX 2088 SANTA FE, NEW MEXICO

OPERATOR'S MONTHLY REPORT -

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NEW MEXICO OIL CONSERVATION COMMISSION

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Submitted in Lieu of Form No. 9-329

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MAY 2 4 1972

District Administrative Coordinator EXHIBIT 5

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NEW MEXICO OIL CONSERVATION COMMISSION

DOX 2038 SANTA FE, NEW MEXICO
OPERATOR'S MONTHLY REPORT

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NEW MEXICO OIL CONSERVATION COMMISSION

BOX 2088 SANTA FE, NEW MEXICO

OPERATOR'S MONTHLY REPORT

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NEW MEXICO OIL CONSERVATION COMMISSION

DOX 2008 SANTA PE, NEW MEXICO - OPERATOR'S MONTHLY REPORT

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Submitted in Lieu of Form No. 9-329

JUN 21 1971 District Administrative Coordinator

EXHIBIT 5

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NEW MEXICO OIL CONSERVATION COMMISSION

EOX 2038 SANTA FE, NEW MEXICO OPERATOR'S MONTHLY REPORT

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District Administrative Coordinator

EXHIBIT 5

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BOX 2038 SANTA FE, NEW MEXICO OPERATOR'S MONTHLY REPORT

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NEW MEXICO OIL CONSERVATION COMMISSION

BOX 2086 SANTA FE, HEM MEXICO OPERATOR'S MONTHLY REPORT

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Jun 21 197

District Administrative Coordinator

Submitted in Lieu of Form No. 9-329

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NEW MEXICO OIL CONSERVATION COMMISSION

BOX 2088 SANTA FE, NEW HEXICO OPERATOR'S MONTHLY REPORT Connected report P. O. Box 1351 Midland, Texas SKELLY OIL COMPANY CHAN BARRELS TO END OF OTHER PORTER HAND TRANS-TOTAL LIQUIDS PRODUCED OTHER SEG. OF PURCH. SOLO VERTED BARRELS PRODUCED WELL NO. UNIT SEC. TWP. RND. LEASE ACTUAL MONTHLY OF MATER BARRELS PRODUCED **ALLOYABLE** POOL NAME (UNDERLINE) LEASE NAME AND STATE LAND LEASS NUMBER OR FEDERAL LEASE NUMBER Fren - Eddy - (Continued) Section 276 - (Continue) Skelly Unit - No. 10/ 155 92 13 K 21 17 31 0 102 61 14 L 21 17 31 0 92 15 M 21 17 31 ×55 160 - Yesting well 92 *0 48 P 16 N 21 17 31 48 160 47 0 P ** 114 D 14 17 31 MAAT 48 566 1276 384 <u>587</u> 1885 620 CON Total this page 160 2045 Well 40.224. 1288 126 VANK Senung 2201 * Test Pool Total ** To Add well ho. I 14 to The sport.

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Submitted in Lieu of Form No. 9-329

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9-2-5-72

MICHAELIES

District Administrative Coordinate

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NEW MEXICO OIL CONSERVATION COMMISSION

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Submitted in Lieu of Form No. 9-329

District Administrative Coordinato

OIL CONSERVATION COMPOSION

July 24, 1972

EXHIBIT NO. 8

CASE NO. 4808

Shelly

Harman Day 10-4-72

3011

File: Skelly Unit
Lease No. 73617
Grayburg-Jackson Pool
Eddy County, New Mexico

Re: Application for waterflood expansion

New Mexico Oil Conservation Commission State Land Office Building P. O. Box 2088 -Santa Fe, New Mexico 87501

Attention: Mr. Secretary-Director

Gentlemen:

Skelly Oil Company respectfully requests administrative approval to expand its Skelly Unit waterflood in the Grayburg-Jackson Pool, Eddy County, New Mexico. The Skelly Unit waterflood project was authorized by order R-2900 issued May 4, 1965 and amended by order R-3214 dated April 7, 1967.

The Skelly Unit waterflood has been expanded as follows:

- 1. Initial injection Wells 42, 44, 46, 52, 54, and 56 in 1965 by 2-2900.
- 2. Expand and convert Wells 24 and 34 in July, 1967 by R-3214.
- 3. Expand and convert Well 98 in December, 1967 by WFX278.
- 4. Expand and convert Wells 19, 21, 22, 24, 26, 30, 32, 38, 40, 48, 58, 71, 73, 83, 85, 86, and 105 in March, 1968 by R-3214.
- 5. Expand and convert Wells 64, 66, 67, 75, 77, 89, 93, and 95 in August, 1968 by WFX290.
- 6. Expand and convert Wells 79 and 81 in August, 1970 by WFX327.
- 7. Expand and convert Wells 59, 91, and 100 in December, 1970 by WFX354.
- 3. Expand and convert Wells 87 and 102 in Hay, 1971 by WEX357.
- 9. This application for Well No. 114.

DISTRICT SPINCE

PHE COPY

Atlantic Richfield, P. O. Box 1610, Hidland, Texas 79701

79701

Gatty Oil Company, P. O. Box 1231, Midland, Taxas

Hanagan & Hanagan, P. O. Box 1737, Roswell, New Mexico 88201 William A. & Edward R. Hudson, 1510 1st Nat'l Banki Bldg., Pt. Worth, Taxas 76100

Kersey and Company, 808 West Grand, Artesia, New Mexico 88210

Murchison & Closuit 7 Mr. Ernest Closuit, 1019 Ft. Worth Nat'l Bank Bldg.

State Land Office, P. O. Box 2088, Santa Fe, New Mexico 87501 Ft. Worth 2, Texas 76100

New Mexico Oil Conservation Commission, Drawer DD, Artesia, New Mexico 88201

United States Geological Survey, P. O. Drawer "U", Artesia, New Mexico 88201

Skally Unit Page No. 2 July 24, 1972

The subject waterflood as governed by the provisions of Rule 701, 702, and 703 of the 0il Conservation Commission rules and regulations; provided that the Secretary-Director of the Commission may approve expansion of the Grayburg-Jackson Skully Unit waterflood project to include additional wells, within said unit area, on water injection as may be necessary to complete an efficient waterflood pattern. We consider this application to be included under this provision.

Skelly 0il Company desires to expand the waterflood and requests administrative approval to convert the following well to water injection:

Township 17 South, Range 31 Bast
Skelly Unit Well No. 114, Unit Letter D, Sectica 14

Under order R-3214 Skelly Oil Company was authorized to effect a water-flood project in the Grayburg-Jackson Pool in the Skelly Unit by the selective injection of water into various zones throughout the Grayburg-Jackson vertical producing interval. Skelly Oil Company requests approval to inject into the Grayburg-Jackson interval in the subject well. It is our intention to equip the proposed injector as an injector in the Grayburg-Jackson interval and also a producer in the Seven Rivers zone. Application for dual completion of this well has already been submitted.

Attached is a map showing all wells within a two mile radius, a unit plat abowing the present and proposed injection wells, schematic dizgram and log sections of the proposed well, an analysis of the water to be injected, and duplicate copy of C-115 on offsets.

Limited response has been noted in the area of Well No. 114; although lass than desired regnitude for this area due to the limited volumes of water which have been injected into this portion of the unit. The proposed injection well's producing capacity and other producing wells which directly offset the proposed injection well are shown by the following tabulation:

Skelly Ut.	Daily P	roducti	on	Daily	Produc	tion
Wall No.	Date	011	Vater	Data	011	Water
193 n	Fab., 1966	2.7	24.0	April, 1972	3.6	7.1
108	April, 1971	17.0	25.7	April, 1972	18.4	26.8
114 (Prop. WIW)	Jan., 1972	?la₩	Well	April, 1972	4.0	0.2
102	April. 1971	1.0	0.6	April, 1972		2.0

Injection water will be purchased from Double Ragle Water Company. The water is fresh and taken from the Ogallala formation as shown by the water analysis. Anticipated injection rate is 300 to 600 BPD at pressure of 1,500 to 2,000 psig.

This proposed expansion is in line with our plan of operation for the Skelly Unit.

Skelly Unit Page No. 3 July 24, 1972

Offset operators are being notified by a copy of this application in accordance with the attached mailing list.

Very truly yours, SKELLY OIL COMPANY

(Signed) C. J. LOVE

C. J. Love District Production Manager

HRD/re
Attachments
Area 2 mile Radius Map
Lease Plat
Schematic Diagram
Log Section
Water Analysis
C-115 forms

HED,

150P 1/31 7 d.n 3/1

131/12 P/1/72

COPISS TO:

Atlantic-Richfield, Box 1610, Midland, Taxas 79701

Getty Oil Company, Box 1231, Midland, Taxas 79701

Hanagan Oil Company, Box 1737, Roswell, Mew Hexico 88201

Hudson and Hudson, 1510 1st, Mat'l Bank Bldg., Fort Worth, Taxas 76100

Kersey and Company, 808 West Grand, Artesia, New Mexico 88210

Murchison & Closuit, 1019 Fort Worth Nat'l Bank Bldg., Fort Worth 2, Taxas 76100

U.S.G.S (for approval-two copies) Drawer "U", Artesia, New Mexico 88210

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BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION

July 24, 1972

ASE NO. 4808

ASE NO. 4808

ASE NO. 4808

ASE NO. 4808

Pile: Skelly Unit Well No. 114 - Lease No. 736172

Re: Application for Administrative Approval of a Dual Completion

New Mexico Oil Conservation Commission-State Land Office Building P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlewer:

In the matter of application of Skelly Oil Company seeking administrative approval to dual complete its Skelly Unit Well No. 114 located in unit D of Section 14-173-31E in the Fren Seven Rivers Pool and the Grayburg-Jackson San Andres Pool, Eddy County, New Mexico, and in support thereof does state:

- A. Skelly Oil Company is the sole owner of oil and gas lease consisting all Sec. 11, all Sec. 14, all Sec. 15, all Sec. 21, all Sec. 27, all Sec. 23, all Sec. 26, all Sec. 27, all Sec. 28, and all Sec. 33, Township 17South, Range 31East, N.M.P.M., Eddy, County, New Mexico.
- 3. That Skelly Unit Well No. 114 is located 660 FML and 660 FML of Section 14-17S-R31Z.
- C. That the applicant has prior duals on lease (Wells No. 3 and 11). Applicant does plan to dual complete subject Well No. 114 in the following manner.
 - 1. Set Baker Model "D" packer at 3,300 to segregate the two
 - Perforate 5-1/2^N Cag. in the Seven Rivers section between 2239 and 2468, also perforated Grayburg-San Andres section between 3373 to 3772.
 - 3. Produce by pumping Seven Rivers oil from the upper zone and injecting water into the Grayburg-San Andres thru parallel

Service Service

Skelly Unit Heils No. 114 Page No. 2 July 24, 1972

strings of tubing; injection side will be internally coated for protection.

- D. 1. Diagrammatic skatch of the proposed multiple completion showing all down hole conditions.
 - 2. Plat showing location of all wells on applicant's lease also offset wells on offset leases.
 - 3. That all offset operators are hereby notified by a copy of this application.
 - 4. Electric log of subject well with all tops and bottoms of producing zones and intervals of perforations.
 - 5. All of above submitted complete and accurate to the best of our knowledge.

Therefore, applicant prays that Secretary of the Commission grant permission to dual complete the above well in the interest of conservation and protection of correlative rights.

Respectfully submitted, SKELLY O'LL COMPANY

(Signed) C. J. LOVE

C. J. Love District Production Hanager

HED/re
Attachments:
Lease Flat
Area Map
Down Hole Schematic
Section of Electric-Log
C-107 Application for Dual

AED.

130

A July

51 W 15 const United States Department of the Interior GEOLOGICAL SURVEY P. O. Drawer U Artesia, New Mexico 88210

September 21, 1972

Skelly Oil Company Post Office Box 1351 Midland, Texas 79701

Your letter of September 7, 1972 requests approval to dually rour recter or September /, 19/2 requests approval to qualicomplete the Skelly Unit well No. 114 on oil and gas lease Gentlemen: complete the akerty unit well No. 114 on oil and gas lease
Las Cruces 029418(b) located 660/N&W sec. 14, T. 17 S., R. 31 E.,
N. W. D. M. Balan County Nov. Moving his anadysing from the county N.M.P.M., Eddy County, New Mexico, by producing from the Seven Rivers formation and injecting into the San Andres formation.

The dual completion and operation of this well as outlined in your application is satisfactory to this office and hereby your apprication is satisfactory to this office and nereby approved subject to approval by the New Mexico Oil Conservation Commission.

Sincerely yours,

Robert L. Beekman Assistant District Engineer

Roswell





SKELLY OIL COMPANY

EXPLORATION & PRODUCTION DEPARTMENT WEST CENTRAL DISTRICT

B. CARY, EXPLORATION & FRODUCTION MANAGER
E. BARTLETT, EXPLORATION MANAGER
J. LOVE, PRODUCTION MANAGER
R. AVENT, ADMINISTRATIVE COORDINATOR

ADDRESS REPLY TO:

OIL CONSERVATION COMM.

Skelly Unit Well No. 114 File: Lease No. 73617

Re: Application for Administrative Approval of a Dual Completion

New Mexico Oil Conservation Commission State Land Office Building P. O. Box 2088 Santa Fe, New Mexico

Gentlemen:

In the matter of application of Skelly Oil Company seeking administrative approval to dual complete its Skelly Unit Well No. 114 located in unit D of Section 14-175-31E in the Fren Seven Rivers Pool and the Grayburg-Jackson San Andres Pool, Eddy County, New Mexico, and in support thereof does state:

- A. Skelly Oil Company is the sole owner of oil and gas lease consisting all Sec. 11, all Sec. 14, all Sec. 15, all Sec. 21, all Sec. 22, all Sec. 23, all Sec. 26, all Sec. 27, all Sec. 28, and all Sec. 33, Township 17South, Range 31East, N.M.P.M., Eddy, County, New Mexico.
- That Skelly Unit Well No. 114 is located 660 FNL and 660 FWL of Section 14-17S-R31E.
- C. That the applicant has prior duals on lease (Wells No. 3 and 11). Applicant does plan to dual complete subject Well No. 114 in the following manner.
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 - 2. Perforate 5-1/2" Csg. in the Seven Rivers section between 2289 and 2468', also perforated Grayburg-San Andres section between 3373 to 3772'.
 - 3. Produce by pumping Seven Rivers oil from the upper zone and injecting water into the Grayburg-San Andres thru parallel

Skelly Unit Well No. 114 Page No. 2 July 24, 1972

strings of tubing; injection side will be internally coated for protection.

- D. 1. Diagrammatic sketch of the proposed multiple completion showing all down hole conditions.
 - 2. Plat showing location of all wells on applicant's lease also offset wells on offset leases.
 - 3. That all offset operators are hereby notified by a copy of this application.
 - 4. Electric log of subject well with all tops and bottoms of producing zones and intervals of perforations.
 - 5. All of above submitted complete and accurate to the best of our knowledge.

Therefore, applicant prays that Secretary of the Commission grant permission to dual complete the above well in the interest of conservation and protection of correlative rights.

Respectfully submitted, SKELLY OIL COMPANY

C. J. Love

District Production Manager

HED/rc
Attachments:
Lease Plat
Area Map
Down Hole Schematic
Section of Electric-Log
C-107 Application for Dual

79701 Atlantic Richfield, P. O. Box 1610, Midland, Texas COPIES TO:

Getty Oil Company: P. O. Box 1231, Midland, Texas William A. & Edward R. Hudson, 1510 1st Nat'l Bank Bldg., Pt. Worth, Texas 76100 Hanagan & Hanagan, P. O. Box 1737, Roswell, New Mexico

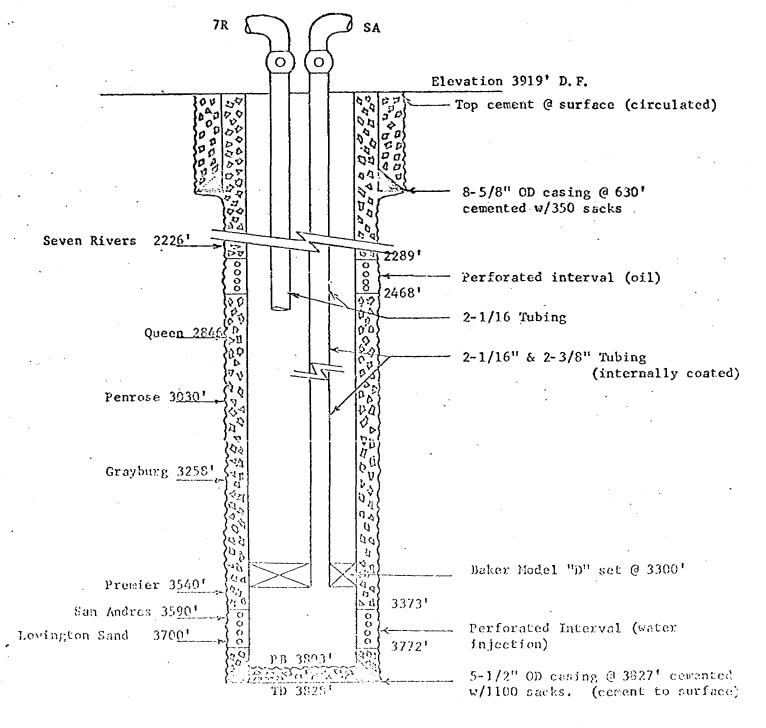
Kersey and Company, 808 West Grand, Artesia, New Mexico Murchison & Closuit % Mr. Ernest Closuit, 1019 Ft. Worth Nat'l Bank Bldg.
Ft. Worth 2. Texas

State Land Office, P. O. Box 2088, Santa Fe, New Mexico 88201 88201 Ft. Worth 2, Texas

New Mexico Oil Conservation Commission, Drawer DD, Artesia, New Mexico United States Geological Survey, P. O. Drawer "U", Artesia, New Mexico

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PROPOSED WATER INMECTION WELL
 WELLS TO BE DRIVLED



Chre 4808

NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Form C-107 5-1-61

erator Skelly Oil Company		County Eddy	Date	24/72
dress		Lease	Well N	
P. O. Box 1351, Midlan	nd, Texas 79701	Skelly Unit	31E	
		wnship	Range	·
ocation Unit			l manys	
Has the New Mexico Oil Conservati	on Commission heretofore a	uthorized the multiple compl	etion of a well	in these same pools or in the s
zones within one mile of the subjec		NO		-
If answer is yes, identify one such	instance: Order No. R- 240	6 Also ; Operator Le	ase, and Well N	No.: Skelly Unit Well
3 and Skelly Unit Well 1	No. 11 MC-12	187		
The following facts are submitted:	1			
The following facts are submitted:	Upper Zone	Intermed: Zone	iate	Lower Zone
a. Name of Pool and Formation	Fren Seven Rivers			Grayburg-San Andres
b. Top and Bottom of				Crayoutg but thicker
Pay Section			ļ	
(Perforations)	2289' to 2468'			3373' to 3772'
c. Type of production (Oil or Gas)	011			Oil
d. Method of Production				
(Flowing or Artificial Lift)	Art-Lift	,		Art-Lift
The following are attached. (Please	check YES or NO)			
Yes No				
				meters and setting depths, cen
				intetvals, tubing strings, inclu er information as may be pertir
X b. Plat showing the lo	cation of all wells on applic	cant's lease, all offset well	s on offset lea:	ses, and the names and addres
of operators of all le	ases offsetting applicant's	lease.		
	to such multiple completion ished copies of the applica		or in lieu thereo	of, evidence that said offset op
d. Electrical log of the	well or other acceptable l	og with tops and bottoms of	f producing zon	es and intervals of perforation
dicated thereon. (If	such log is not available at	the time application is filed	it shall be sub	mitted as provided by Rule 11
. List all offset operators to the leas	e on which this well is loca	ted together with their corre	ce mailing addre	:55.
Atlantic-Richfield, I	Box 1610, Midland.	Texas 79701		
Getty Oil Company, Bo	ox 1231, Midland, T	exas 79701		
Hanagan Oil Company,	Box 1737, Roswell,	New Mexico 88201		
15-5 1 15-1 151	10 1-4 N (11 D 1	10.11.1 mg 11 .1		
. Hudson and Hudson 151	to ist, Nat'l Bank	Blag,, Ft, Worth,	Texas /6	5100
Kersey and Company, 8	208 Wast Crand Art	onia Novi Movico	88210	
Relacy and company, c	oo nest diana, mic	esta, New Mexico	00210	
Murchison and Closuit	. 1019 Fort Worth	Nat'l Bank Ridg. 1	Port Worth	2 Teyes 76100
Were all operators listed in Item 5	•			
date of such notification July	24, 1972		***************************************	, ii answer is yes,
CERTIFICATE: I, the undersigned	, state that I am the M	anager	of the	Production
Challe Oil Comment	company), and that I am au	thorized by said company to a	make this report	t; and that this report was prep
		0 1 =	l on a	
		Mr. C. J. Love	Signate	ore .
		rif. G. J. Love	£141J1114C	

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well foration and/or a non-standard proration unit in one orthogo of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.





SKELLY OIL COMPANY

EXPLORATION & PRODUCTION DEPARTMENT WEST CENTRAL DISTRICT

A. B. CARY, EXPLORATION & PRODUCTION MANAGER V. E. BARTLETT, EXPLORATION MANAGER C. J. LOVE, PRODUCTION MANAGER J. R. AVENT, ADMINISTRATIVE COORDINATOR

OIL CONSERVATION COMM.

Skelly Unit File: Lease No. 73617

Grayburg-Jackson Pool Eddy County, New Mexico

Re: Application for waterflood expansion

Care 4808

New Mexico Oil Conservation Commission State Land Office Building P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Secretary-Director

Gentlemen:

Skelly Oil Company respectfully requests administrative approval to expand its Skelly Unit waterflood in the Grayburg-Jackson Pool, Eddy County, New Mexico. The Skelly Unit waterflood project was authorized by order R-2900 issued May 4, 1965 and amended by order R-3214 dated April 7, 1967.

The Skelly Unit waterflood has been expanded as follows:

- Initial injection Wells 42, 44, 46, 52, 54, and 56 in 1965 by R-2900.
- Expand and convert Wells 24 and 34 in July, 1967 by R-3214.
- 3. Expand and convert Well 98 in December, 1967 by WFX278.
- Expand and convert Wells 19, 21, 22, 24, 26, 30, 32, 38, 40, 48, 58, 71, 73, 83, 85, 86, and 105 in March, 1968 by R-3214.
- Expand and convert Wells 64, 66, 67, 75, 77, 89, 93, and 95 in August, 1968 by WFX290.
- Expand and convert Wells 79 and 81 in August, 1970 by WFX327. 6.
- Expand and convert Wells 69, 91, and 100 in December, 1970 by WFX354. 7.
- Expand and convert Wells 87 and 102 in May, 1971 by WFX357.
- This application for Well No. 114.

MIDLAND, TEXAS 79701

Skelly Unit Page No. 2 July 24, 1972

The subject waterflood as governed by the provisions of Rule 701, 702, and 703 of the Oil Conservation Commission rules and regulations; provided that the Secretary-Director of the Commission may approve expansion of the Grayburg-Jackson Skelly Unit waterflood project to include additional wells, within said unit area, on water injection as may be necessary to complete an efficient waterflood pattern. We consider this application to be included under this provision.

Skelly 0il Company desires to expand the waterflood and requests administrative approval to convert the following well to water injection:

Township 17 South, Range 31 East
Skelly Unit Well No. 114, Unit Letter D, Section 14

Under order R-3214 Skelly Oil Company was authorized to effect a water-flood project in the Grayburg-Jackson Pool in the Skelly Unit by the selective injection of water into various zones throughout the Grayburg-Jackson vertical producing interval. Skelly Oil Company requests approval to inject into the Grayburg-Jackson interval in the subject well. It is our intention to equip the proposed injector as an injector in the Grayburg-Jackson interval and also a producer in the Seven Rivers zone. Application for dual completion of this well has already been submitted.

Attached is a map showing all wells within a two mile radius, a unit plat showing the present and proposed injection wells, schematic diagram and log sections of the proposed well, an analysis of the water to be injected, and duplicate copy of C-115 on offsets.

Limited response has been noted in the area of Well No. 114; although less than desired magnitude for this area due to the limited volumes of water which have been injected into this portion of the unit. The proposed injection well's producing capacity and other producing wells which directly offset the proposed injection well are shown by the following tabulation:

Skelly Ut.	Daily P	roducti	on	Daily	Produc	tion
Well No.	Date	Oil	Water	Date	011	Water
103	Feb., 1966	$\frac{1}{2.7}$	24.0	April, 1972	3.6	7.1
108	April, 1971	17.0	25.7	April, 1972	18.4	26.8
114 (Prop.WIW)	Jan., 1972	New	Well	April, 1972	4.0	0.2
102	April, 1971	1.0	0.6	April, 1972	3.0	2.0

Injection water will be purchased from Bouble Eagle Water Company. The water is fresh and taken from the Ogallala formation as shown by the water analysis. Anticipated injection rate is 300 to 600 BPD at pressure of 1,500 to 2,000 psig.

This proposed expansion is in line with our plan of operation for the Skelly Unit.

Skelly Unit Page No. 3 July 24, 1972

Offset operators are being notified by a copy of this application in accordance with the attached mailing list.

C. J. Love

C. J. Love
District Production Manager

BED/rc Area 2 mile Radius Map Attachments Lease Plat Schematic Diagram Log Section Water Analysis C-115 forms

COPIES TO:

Atlantic-Richfield, Box 1610, Midland, Texas

Getty Oil Company, Box 1231, Midland, Texas

Hanagan Oil Company, Box 1737, Roswell, New Mexico

Hudson and Hudson, 1510 lst, Nat'l Bank Bldg., Fort Worth, Texas

Kersey and Company, 808 West Grand, Artesia, Hew Mexico 88210 Murchison & Closuit, 1019 Fort Worth Nat'l Bank Bldg., Fort Worth 2, Texas

76100

U.S.G.S (for approval-two copies) Drawer "U", Artesia, New Mexico

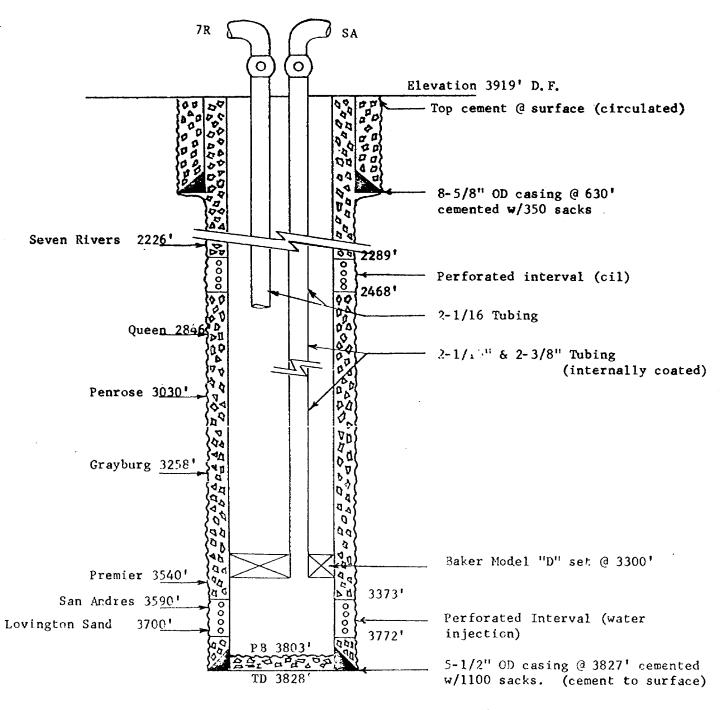
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Grayburg Jackson Waterflood

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NEW MEXICO OIL CONSERVATION COMMISSION

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NEW MEXICO OIL CONSERVATION COMMISSION

BOX 2038 SANTA FE, NEW MEXICO
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NEW MEXICO OIL CONSERVATION COMMISSION

BOX 2088 SANTA FE, NEW MEXICO OPERATOR'S MONTHLY REPORT

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NEW MEXICO OIL CONSERVATION COMMISSION

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JUN 21 1971

District Administrative Coordinator

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NEW MEXICO OIL CONSERVATION COMMISSION

BOX 2088 SANTA FE, NEW MEXICO OPERATOR'S MONTHLY REPORT

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NEW MEXICO OIL CO. BERVATION COMMISSION

BOX 2088 SANTA FE, NEW MEXICO OPERATOR'S MONTHLY REPORT

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District Administrative Coordinator

APR

NEW MEXICO OIL CONSERVATION COMMISSION

BOX 2088 SANTA FE, NEW HEXTCO OPERATOR'S MONTHLY REPORT

P. 31 . P. O. Box 1351 Midland, Texas. SKELLY OIL COMPANY DISPOSITION OF GAS TOTAL LIQUIDS PRODUCED CIL ON SARRELS TO ACTUAL ALREF! S HAHD END OF PRODUCED USED ON TRAKS-PORTER SARRELS VENTED SOLD PURCH. OTHER OTHER PURIER SEG. OF ≅C.F ALLOWABLE PRODUCED PRODUCED LEASE NAME AND STATE LAND LEASS NUMBER OF FEDERAL LEASE NUMBER GRAYBURG Jackson - Eddy Skelly Unit No. I Section 276 690 0130 117 3 D 22 17 31 -0 -781 P 15/ 17 118 11 I 21 17 · 31 210 1080 17 B 15 17 31 P 1045 52 6 18 D 15 17 31 51 123 19 F 15 17 31 Water Injection Well 1470 20 G 15 17 31 P 1445 27 19 87 21 H 15 17 31 Water Injection Well 22 J 14 17 31 Water Injection Well 35% 30/33 86 23 K 14 17 31 24 L 14 17 31 I Water Injection Wall p 150 92 25 I 15 17 31 76 26 J 15 17 31 Water Injection Well 42601 Totals this page TO THE ATTON LODGE OF SETTION CODE. TOTHER TOAS DISPLOITEN COZE \$[4193 CODE F-----FLOWNS P-----FLOWNS C-----GASLIFT Cea Bust Ivadyo rottarrofri brt tart yrtsog yebroh D -- - OSED FOR DARLING -COMPLETE TO THE BEST OF MY KHOW LOCKE. - . 637 在 BAY 241972

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E---- ELECTRICAL OF AFFACACO Submitted in Lieu of Form No. 9-329

E - - - EXPLANATION ATTACHED

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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

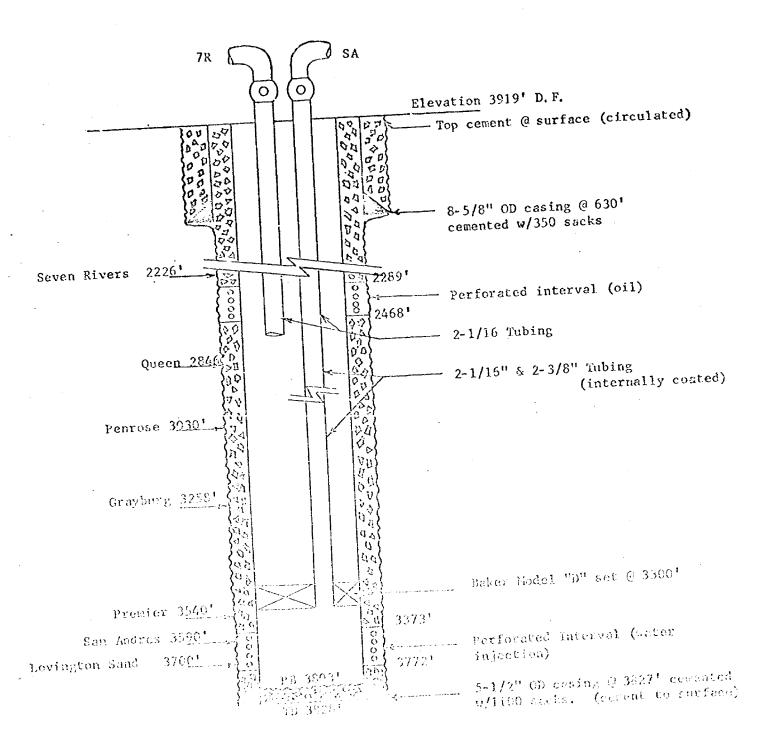
Form C-107

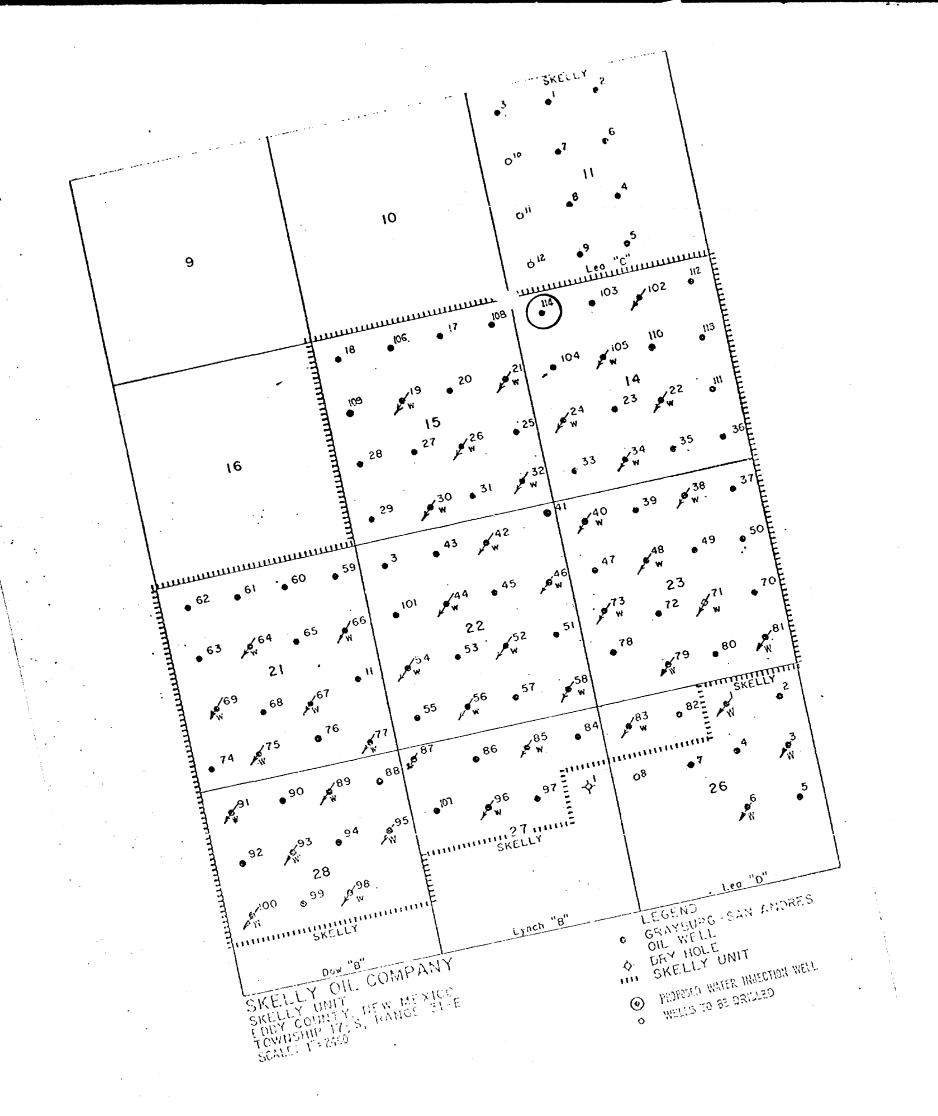
APPLICATION FOR MULTIPLE COMPLETION Skelly Oil Company Eddy 7/24/72 Address ell No 79701 P. O. Box 1351, Midland, Texas Skelly Unit 3H2 Unit Location 17 South 31 East of Well 1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES_ 2. If answer is yes, identify one such instance: Order No. R-2406 Also ; Operator Lease, and Well No.: Skelly Unit Well MC-1287 No. 3 and Skelly Unit Well No. 11 3. The following facts are submitted: Upper Intermediate Zone Zone Zone Fren Seven Rivers a. Name of Pool and Formation Grayburg-San Andres b. Top and Bottom of Pay Section 2289' to 2468' (Perforations) 3373' to 3772' 011 c. Type of production (Oil or Gas) d. Method of Production Art-Lift SELLE (Flowing or Artificial Lift) 4. The following are attached. (Please check YES or NO) X a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. X b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. x c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112A.) 5. List all offset operators to the lease on which this well is located together with their correct mailing address. Atlantic-Richfield, Box 1610, Midland, Texas 79701 Getty Oil Company, Box 1231, Midland, Texas 79701 Hanagan Oil Company, Box 1737, Roswell, New Mexico 88201 Hudson and Hudson 1510 lst. Nat'l Bank Bldg., Ft. Worth , Texas 76100 Kersey and Company, 808 West Grand, Artesia, New Mexico 88210 Murchison and Closuit, 1019 Fort Worth Nat'l Bank Bldg., Fort Worth 2, Texas 76100 date of such notification July 24, 1972 CERTIFICATE: I, the undersigned, state that I am the Manager of the Production Skelly 011 Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest not request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will tesult in an unorthodox well location and/or a non-standard proration unit in ancommore of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

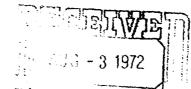
SKELLY OIL COMPANY
Skelly Unit No. 114
660 FNL & 660 FWL Sec. 14-17S-31E











KELLY OIL COMPA

July 24, 1972

EXPLORATION & PRODUCTION DEPARTMENT WEST CENTRAL DISTRICT

A. B. CARY, EXPLORATION & PRODUCTION MANAGER V. E. BARTLETT, EXPLORATION MANAGER C. J. LOVE, PRODUCTION MANAGER J. R. AVENT, ADMINISTRATIVE COORDINATOR

ADDRESS REPLY TO: P. O. BOX 1351 MIDLAND, TEXAS 7970:

Pre 4808

File: Skelly Unit Well No. 114 Lease No. 73617

Re: Application for Administrative Approval of a Dual Completion

New Mexico Oil Conservation Commission State Land Office Building P. O. Box 2088 Santa Fe, New Mexico

Gentlemen:

In the matter of application of Skelly Oil Company seeking administrative approval to dual complete its Skelly Unit Well No. 114 located in unit D of Section 14-17S-31E in the Fren Seven Rivers Pool and the Grayburg-Jackson San Andres Pool, Eddy County, New Mexico, and in support thereof does state:

- A. Skelly 011 Company is the sole owner of oil and gas lease consisting all Sec. 11, all Sec. 14, all Sec. 15, all Sec. 21, all Sec. 22, all Sec. 23, ali Sec. 26, all Sec. 27, all Sec. 28, and all Sec. 33, Township 17South, Range 31East, N.M.P.M., Eddy, County, New Mexico.
- That Skelly Unit Well No. 114 is located 660 FNL and 660 FWL of Section 14-17S-R31E,
- That the applicant has prior duels on lease (Wells No. 3 and 11). Applicant does plan to dual complete subject Well No. 114 in the following manner.
 - Set Baker Model "D" packer at 3,300 to segregate the two
 - 2. Perforate 5-1/2" Csg. in the Seven Rivers section between 2289 and 24681, also perforated Grayburg-San Andres section between 3373 to 3772'.
 - 3. Produce by pumping Seven Rivers oil from the upper zone and injecting water into the Grayburg-San Andrea thru parallel

Skelly Unit Well No. 114 Page No. 2 July 24, 1972

strings of tubing; injection side will be internally coated for protection.

- D. 1. Diagrammatic sketch of the proposed multiple completion showing all down hole conditions.
 - 2. Plat showing location of all wells on applicant's lease also offset wells on offset leases.
 - 3. That all offset operators are hereby notified by a copy of this application.
 - 4. Electric log of subject well with all tops and bottoms of producing zones and intervals of perforations.
 - 5. All of above submitted complete and accurate to the best of our knowledge.

Therefore, applicant prays that Secretary of the Commission grant permission to dual complete the above well in the interest of conservation and protection of correlative rights.

Respectfully submitted, SKELLY OIL COMPANY

C. J. Love

District Production Manager

HED/rc
Attachments:
Lease Plat
Area Map
Down Hole Schematic
Section of Electric-Log
C-107 Application for Dual

COPIES TO:

Arlantic Richfield, P. O. Box 1610, Midland, Texas 19701

Getty Oil Company, P. O. Box 1231, Midland, Texas 88201

Eanagan & Hanagan, P. O. Box 1737, Roswell, New Mexico 88210

Eanagan & Edward R. Hudson, 1510 1st Nat'l Bank Bldg., Ft. Worth, Texas 8111 Mark Bldg.

William A. & Edward R. Hudson, Arcesia, New Mexico 88210

Kersey and Company, 808 West Grand, Arcesia, New Mexico Nat'l Bank Bldg.

Wersey and Company, 808 West Grand, Arcesia, New Mexico 87501

Mirchison & Closuit % Nr. Ernest Closuit, 1019 Ft. Worth Nat'l Bank Bldg.

Pt. Worth 2, Texas 76100

State Land Office, P. O. Box 2088, Santa Fe, New Mexico 188201

New Mexico Oil Conservation Commission, Drawer DD, Arcesia, New Mexico 188201

Inited States Geological Survey, P. O. Drawer ''U'', Arcesia, New Mexico 1911 (1911)

DRAFT
GMH/dr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

Shop

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

CASE NO. 4808
Order No. R- 4419

APPLICATION OF SKELLY OIL COMPANY FOR A WATERFLOOD EXPANSION AND DUAL COMPLETION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 4 , 19⁷² at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this day of October , 1972, 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 ... uving 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 expand its Grayburg-Jackson Skelly, Waterflood project in the Grayburg-Jackson Pool, by the injection of water through its Unit Well No. 114 located in Unit D of Section 14, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.

-2-CASE NO. 4808 Order No. R-

its Well No. 114 in such a manner as to permit the production through 2 h and taken of oil from the Fren-Seven Rivers Pool, and the injection of water into the Grayburg-Jackson Pool through a packer set at approximately test.

(4) That the well in the project is in an advanced state of depletion and should properly be classified as a "stripper" well.

- (5) That the proposed waterflood expansion and dual completion are feasible and 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 as Rungle Completions of as dual completions.

IT IS THEREFORE ORDERED:

authorized to expand its Grayburg-Jackson Skelly, Waterflood

Project in the Grayburg-Jackson Pool by the injection of water through its Unit Well No. 114 located in Unit D of Section 14, 19 (a) shiftle applicant is lead, authorized the Complete said week 114 in such a manner as to permit the production of oil from the though 216 with belief.

Fren-Seven Rivers Pool, and the injection of water into the though a parallel shin of 2 16 med talking Grayburg-Jackson Pool, Section 14, Township 17 South, Range 31 with separation games by a pocker selat approximatily 3 300 feet. East, MMPM, Eddy County, New Mexico.

PROVIDED HOWEVER, that the water shall be continuously treated prior to injection and coupon corrosion tests shall be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission.

(3) That Order (2) or Order No. R-3214 is hereby -3- amended to read in its entirety as follows: CASE NO. 4808 Order No. R-

fujulis heaby designet. Illie (2) That the subject waterflood expansion shall be Wayling forburn shell, whit Welifford Plojet and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED FURTHER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A cf the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon complexion and annually thereafter during the Annual Shut-in Test Period for the American Grayburg-Jackson Pool.

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

(5) 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.

Commission may approve expansion of the obone described with flood people to include such additional locales infection wells in the same a paid project as may be necessary to complete an efficient injection pattern; that the short of well reported that said wells may be approved as deal completeous for injection with the Straybury Joshuan Pool and production from the Then - Seven River Poul.