Casa/No.

1727

Application, Transcript,
Small Exhibits, Etc.

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

August 7, 1959

Mr. Charlie White Bishop Building Box 787 Santa Fe, New Mexico

On behalf of your client, Skelly Oil Company, we enclose two copies of Order No. R-1461 in Come 1727, issued by the Cil Conservation Commission on August 7, 1959.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

10/

Enclosures

Copies macles to Hobbs + lighter -8-7-59 Th

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

Date 9-3-59

HEARING DATE 7-28-59

My recommendations for an order in the above numbered case(s) are

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Staff Member

BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico July 28, 1959

EXAMINER HEARING

IN THE MATTER OF:

Case 1727

DEARNLEY - MEIER & ABSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE NEW MEXICO
Phone Chopel 3-6691

BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico July 28, 1959

EXAMINER HEARING

IN THE MATTER OF:

Application of Skelly Oil Company for an oil-) gas dual completion. Applicant, in the above-) styled cause, seeks an order authorizing the dual completion of its Jicarilla "B" Well No.) 20, located in the NW/4 NW/4 of Section 31, Township 25 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to permit production of oil from the Otero- Gallup Oil Pool and the production of gas from an undesignated Dakota pool through parallel strings of tubing.

Case 1727

BEFORE:

Mr. Elvis A. Útz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: The hearing will come to or er, please. The next case will be 1727.

MR. PAYNE: Case 1727. "Application of Skelly Oil Company for an oil-gas dual completion."

MR. WHITE: Charles White of Gilbert, White and Gilbert, Santa Fe, New Mexico appearing on behalf of the applicant. We have one witness we would like to have sworn at this time.

(Witness sworn.)

MR. UTZ: Any other statements to be made in this case

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HAROLD AAB

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

DIRECT EXAMINATION

BY MR. WHITE:

- Will you state your full name for the record, please? Q A
- Harold Aab.
- How do you spell your last name?
- A A - a - b.
- By whom are you employed and in what capacity? Q
- I am employed as District Production Foreman for Skelly Oil Company in Farmington, New Mexico.
 - Have you previously testified before this Commission?
 - No, I have not.
- Will you briefly state your educational background and your professional qualifications, Mr. Aab?
- I hold a Bachelor of Science Degree in Petroleum Engineering from the University of Tulsa in Tulsa, Oklahoma. I have been employed with Skelly Oil Company for nine, years, eighteen months as District Engineer at Oklahoma City, and the remainder of the time as District Production Foreman in Oklahoma and New Mexico.
 - Are you acquainted with Skelly's application

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in this case No. 1727?

A I am.

MR. WHITE: Are his qualifications acceptable?
MR. UTZ: Yes, sir, they are.

Q Are you familiar with Skelly's Jicarilla "B" Well No.

20?

A Yes.

Q Where is that located?

A It is located 1790 feet from the North and West lines of Section 31, Township 25 North, Range 5 West, Rio Arriba County.

Q Is Skelly the sole owner and operator of this well?

A Yes, we have one hundred percent working interest.

Q By this application Skelly requests permission to dually complete this well in order to permit production of oil from the Gallup and gas from an undesignated Dakota pool. Do you know, Mr. Aab, whether or not the Commission has ever approved a dual completion in this area involving these two pools?

A Not to my knowledge in the Otero-Gallup Pool.

Q Will you refer to what has been marked as Exhibit No. 1, being an ownership map, and explain what that is intended to show?

A This map shows our Jicarilla "B" 20 Well with relation to offset operators.

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Phone Chapel 3-6691

A It shows all the offsetting wells.

Q And the names of the operators?

A And the names of the operators.

Q Will you discuss the nature of these reservoir fluids?

A The Gallup section, the upper zone produces sweet
41 gravity crude oil. The Dakota sand, which is the lower zone,
produces gas and gas condensate, approximately 55 gravity.

Q Were any of these crudes sour?

A No, they aren't.

Q What type of solution drives do you have?

A The Gallup is gas solution drive with the total absence of water and the Dakota is a gas condensate reservoir.

Q Will you refer to what has been marked Exhibit 2 and state what that is and explain it, please?

A Exhibit 2 is a schematic drawing of the mechanical features of this dual completion.

Q What does it show?

A It shows that the well was drilled to a total depth of 7215 with 10 3/4 inch casing, surface casing, set at 298 feet and cemented with 300 sacks to the surface and 7 inch 20 pound and 23 pound casing set at 7211, with a Halliburton two stage cementing tool set at 3946 below the Calker formation.

The bottom section of this casing was cemented with

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50-A50 Paw cement, and the top of the cement is at 4960. The top section was cemented with 400 sections of 50-50 Pace mix cement, and the top of the cement is at 2600.

The Dakota sand is perforated 4 shots per foot, 7040 to 7050, 7063 to 7070. The Gallup formation is perforated 4 shots per foot, 6012 to 6016, 6044 to 6060, 6074 to 6090. A Baker oil tool Model D production packer is set at 7016, and one string of two inch upset 8 round tubing is set through the Baker packer to a depth of 7086 to produce the Dakota formation. Another string of two inch upset 8 round tubing is set at 6111 to produce the Gallup formation. This well is equipped with a Garbron Tron Works Split Donut Series 900 wellhead.

- Q In your opinion, is there any possibility of communication between these zones?
 - A No, there is not.
 - Q Have you taken any packer production tests?
- A Yes. We took the Oil Conservation Commission approved packer leakage test.
 - Q Is that Exhibit 3?
- A Exhibit 3.
- Q When was that taken?
- A 6-25-59.
- Q What was the result of the test?
- A It showed that there was no communication between the zones?
 - Q Now, will you refer to what has been marked Exhibit

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No. 4 and Exhibit No. 5? State what they are and explain them, please.

A Exhibits No. 4 and 5, Exhibit 4 is a Schlumberger induction electrolog which shows the relation of the Dakota to the Gallup zone, and the Exhibit 5 is a Schlumberger sonic log which also shows the same thing.

Q Were these Exhibits 1 through 5 either prepared by you or under your direction and supervision?

A Yes, they were.

Q Will the production from these two zones be in separate tank batteries?

A Yes, they will, each zone will be produced into separate tank batteries.

Q What economic advantages will be gained by the dual completion?

A It will save drilling a new well either to the Gallup or Dakota.

- Q What is the cost of drilling to the Gallup?
- A Around sixty-five thousand.
- Q And to the Dakota?
- A Eighty-five thousand approximately.
- Q In regard to correlative rights, would it also prevent offset drainage?
 - A Yes, it will protect us from offset drainage from a

MR. WHITE: I believe that's all the questions we have

CROSS EXAMINATION

BY MR. UTZ:

Q What is your bottomhole pressure?

A On the Dakota zone bottom pressure on drillstem test was 3107. We don't have a bottomhole pressure on the Gallup, but we estimate it at between 15 and 1600. The shutin surface pressure on the Gallup was 1337. The shutin surface pressure on the Dakota is 2307.

MR. UTZ: Any other questions of the witness?

MR. WHITE: We would like to move the introduction of all the exhibits.

MR. UTZ: Without objection the Exhibits 1 through 5 will be accepted. The witness will be excused. Any statements to be made in this case? If not, the case will be taken under advisement.

(Witness excused.)

STATE OF NEW MEXICO COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal day of August, 1959.

My Commission Expires:

June 19, 1963.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1222.

New Mexico Oil Conservation Commission

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
Phone CHapel 3-6691

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. 1727 Order No. R-1461

APPLICATION OF SKELLY OIL COMPANY FOR AN OIL-GAS DUAL COMPLETION IN THE OTERO-GALLUP OIL POOL AND IN AN UNDESIGNATED DAKOTA POOL, RIO ARRIBA COUNTY, NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 28, 1959, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this day of August, 1959, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Skelly Oil Company, is the owner and operator of the Jicarilla "B" Well No. 20, located in the NW/4 NW/4 of Section 31, Township 25 North, Range 5 West, NMPM, Rio Arriba County, New Mexico.
- (3) That the applicant proposes to dually complete the above-described Jicarilla "B" Well No. 20 in such a manner as to permit the production of oil from the Otero-Gallup Oil Pool and the production of gas from an undesignated Dakota pool through parallel strings of 2-inch EUE tubing.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

-2-Case No. 1727 Order No. R-1461

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

IT IS THEREFORE ORDERED:

That the applicant be and the same is hereby authorized to dually complete the Jicarilla "B" Well No. 20, located in the NW/4 NW/4 of Section 31, Township 25 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to permit the production of oil from the Otero-Gallup Oil Pool and the production of gas from an undesignated Dakota pool through parallel strings of 2-inch EUE tubing.

PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Otero-Gallup Oil Pool.

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order, after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

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

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

Mermoza MURRAY E. MORGAN. Member

vem/

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

RIO ARRIBA COUNTY NEW MEXICO BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. /
ASE NO. 1727

R6W		R5W			:
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SKEILY OIL COMPANY

Jicarilla "B" No. 20

NW/4 NW/4 31-25N-5W

Rio Arriba County, N.

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Abuely EXHIBIT NO. 2
CASE NO. 1727

Reference Point KB Flev. 67371

Ground Level Elev. 6727

286' of 10-3/4" OD 32.75#
casing set 3 298' & cemented
w/ 300 sks. (Cemented to surface)

Top of Cement 2600'

HOWCO "DV" Tool 3946"

Top of Cement 4960

2" EUE 4.7# J-55 tubing (w/N-80 couplings turned to 2.910" OD ___w/100 beveled ends) set @ 7086'.

Set 7" OD 20# and 23# casing @ 7211

PBTD 7179'

2" EUE 4.7# J-55 tubing (w/N-30 couplings turned to 2.910" OD w/10° beveled ends) set @ 6111'. Seating nipple and 4' perforation 6074'-6079'.

Gallup perforations 4 shots per foot 6012-6016

6012-60161 6044-60601 6074-60901

Baker Model "D" Production Packer set at 2064.7016

Dakota perforations 4 shots per foot 70.0-70501

7040-70501

TD 721512 Packer Leakge tost 6-25-59 +06-30-59

BELORE EXAMINER UTZ.
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3
CASENO. 1727

RORTHWELD NEW MEXICO PACKETEL The same profits of the control of t Jipari Ua 20.... Type of Prod. Method of Prod. Frod. Medium (Oil or Gas) (Plocher Sit. L. The. or Csg.) 25<u>1</u> 1 1 251 (Oil or Gas) 00000 ___ Alose____ formeletion. Gue ... Dakota JEE DATA Fish Hized? El press. open from, date 8:00 AH length of (see | 5hst-12 6-18-59 1337/ Tails zed de shul-in 7 days .e. (175. f) press. (Yes or No) You Shut-i: 6-17-59 155 SF . - 15 8 Dave 15 2 2307# Commenced at (hour, date)* 9:30 4% 6-25-59
Time | Lapsed time | Freshire Lone producing (er lower): Prod. ?one Opper Compl. | Lower Compl. Temo. (hour, date) since* nenarks 3145 AM 6-25 15 atr. 1353 750 101 AF 6-25 30 min. 1358 685 1360 10:15 AK 6-25 45 min. 634 1360 613 10130 AN 6-25 1 hour 564 11130 AM 6-25 2 hours 1361 1360 12:30 PH 6-25 3 hours 555 Production rate during test Grav. 0.69 GOA til: BOPD cased on Bbls. in jas; 6,983 MCFPD; Tested thru (Orifice or Meter): 3/4" choke MID-TEST SHUT-IN PRESSURE DATA oper Hour, dat- 6:00 AM Length of SI press. tabilized? 11 days Compl Shut-in 6-18-59 time shut-in (Yes or No) USIK Lower Hour, date 12:30 PM SI bress. Tacilized? Length of Compl Shut-in 6-25-59 2264 93 hours (Yes or No) Tes time shut-in psig 10:30 AH 6-29-59 Zone producing (Upper or wolfer): Commenced at (hour, date)** Lapsed time Pressure rod. Zone "ime since ** Upper Compl. Lower Compl. Remarks (hour, date) 11:30 AN 6-29 1 hour 285 2271 Placed through 1" shoke 2130 PM 6-29 4 hours 355 2277 Cross 9:30 AM to 11:30 AM 10:00 AN 6-30231 hours 215 2293 Plound through 26/64" shoke 10:30 AM 6-30 24 hours 214 2293 from 11:30 AH 6#29 to 10:30 AH 6-30-59 Production rate during test 0il: 331 70R 1313 BOPD based on 231 361s. in 24 Grav. Hrs. MCFPD; Tested thru (Crifice or Meter): Orifice pater on Role Wall Checker Gas: 304 REMARKS: I hereby certify that the information herein contained is true and complete to the best of my knowledge. Operator Skally Oil Company

By Benjamin Strickling, Jr.

Title Production Engineer

Date June 30, 1959

New Mexico Oil Conservation Commission

Title

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DOCKET: EXAMINER HEARING JULY 28, 1959

Oil Conservation Commission - 9 a.m., Mabry Hall, State Capitol, Santa Fe, New Mexico

The following cases will be heard before Elvis A. Utz, Examiner, or A. L. Porter, Jr., Secretary-Director

Continued Case

CASE 1720:

(Continued) Application of Skelly Oil Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its W. P. Saunders Well No. 1, located in the SW/4 SE/4 of Section 11, Township 26 North, Range 11 West, San Juan County, New Mexico, in such a manner as to produce oil from the Gallegos-Gallup Oil Pool and to produce oil from an undesignated Dakota pool through parallel strings of tubing.

NEW CASES

CASE 1725

Application of Amerada Petroleum Corporation for an oil-oil dual completion and for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State "Q" Well No. 1, located in the NW/4 SE/4 of Section 16, Township 20 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Eunice-Monument Pool and the production of oil from an undesignated Tubb pool, through parallel strings of tubing. Applicant further seeks permission to commingle the production from said pools produced from the said State "Q" Well No. 1.

CASE 1726:

Application of Amerada Petroleum Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Ka Da Pa Well No. 1, located in the SW/4 SW/4 of Section 4, Township 25 North, Range 12 West, San Juan County, New Mexico, in such a manner as to permit the production of oil from the Bisti-Lower Gallup Oil Pool and the production of oil from an interval designated by the applicant as the Lower Mancos sand through parallel strings of tubing.

CASE 1727: Chas. White Application of Skelly Oil Company for an oil-gas dual completion. Applicant in the above-styled cause, seeks an order authorizing the dual completion of its Jicarilla "B" Well No. 20, located in the NW/4 NW/4 of Section 31, Township 25 North, Range 5 West, Rio Arriba County, New Mexico, in such a manner as to permit production of oil from the Otero-Gallup Oil Pool and the production of gas from an undesignated Dakota pool through parallel strings of tubing.

CASE 1728:

Application of Hanson, Waters and Williamson, for an order authorizing a pilot water flood project, for capacity allowable for twelve wells in said project area, and for establishment of an administrative procedure for expansion of said project, conversion of wells to water injection, and for granting capacity allowables. Applicant, in the above-styled cause, seeks an order authorizing it to institute a pilot water flood project in the Coyote-Queen Pool in Chaves County, New Mexico. Applicant proposes to inject water into the Queen formation through six wells located in Sections 15 and 16, Township 11 South, Range 27 East. Applicant also seeks capacity allowables for twelve wells in said project. Applicant further seeks the establishment of a procedure whereby the project area may be expanded, wells may be converted to water injection, and capacity allowables granted without notice and hearing.

Docket No. 26-59

CASE 1729:

Application of El Paso Natural Gas Products Company for permission to produce more than 16 wells in a common tank battery. Applicant, in the above-styled cause, seeks an order authorizing the production of more than 16 wells in the Horseshoe-Gallup Oil Pool into a common tank battery. Said wells are located on applicant's Horseshoe Ute Lease comprising portions of Sections 27, 28, 33 and 34, Township 31 North, Range 16 West, San Juan County, New Mexico.

CASE 1610:

Application of Wood River Oil & Refining Company, Inc., for an amendment of Order No. R-1352. Applicant, in the above-styled cause, seeks an amendment of Order No. R-1352, to provide that the unorthodox well locations for well Nos. 8 and 9 of the Wills Water Flood Project, Rhodes Pool, Lea County, New Mexico, be 1135 feet from the South line and 1315 feet from the West line of Section 35, and 1135 feet from the South line and 20 feet from the West line of Section 35 respectively, both in Township 26 South, Range 37 East.

XICO OIL CONSERVATION COMMISS

SANTA FE, NEW MEXICO

CIAIN	OFFICE	OCAPPLICATION	FOR D	UAL	COMPLETION
				4	

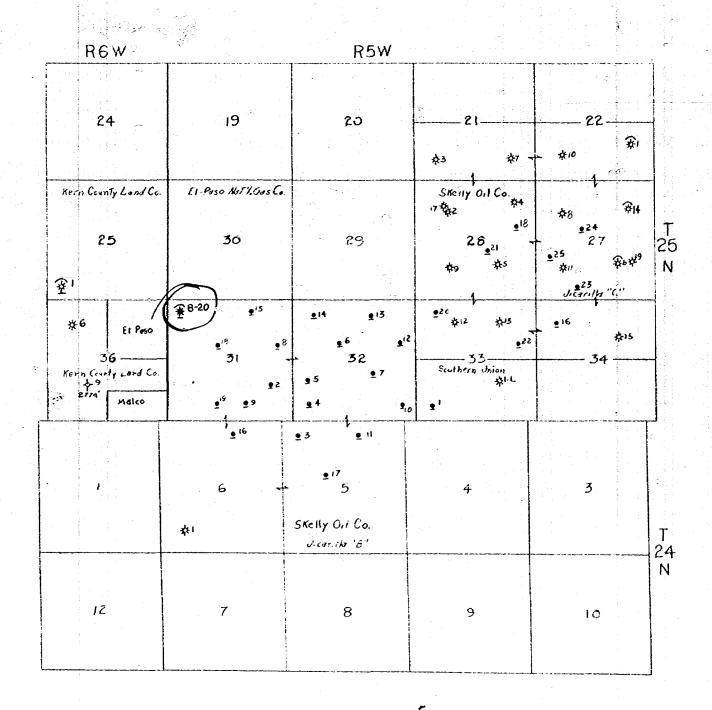
Otero Gallup Pil Undesignated Dakota Rio Arriba Well No. Operator Jicarilla "B" Skelly Oil Company Township Location Range 5W of Wall 1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES_ _ NO <u>X</u> 2. If answer is yes, identify one such instance: Order No. _ ___; Operator, Lease, and Well No.: 3. The following facts are submitted: Upper Zone Lower Zone Dakota a. Name of reservoir Gallup b. Top and Bottom of Pay Section 60121 - 60901 70401 - 70701 (Perforations) c. Type of production (Oil or Gas) Gas d. Method of Production Flowing (Flowing or Antificial Lift) Flowing 4. The following are attached. (Please mark YES of NO) Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, 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. Yes 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. _c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. No 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 112-A.) 5. List all offset operators to the lease on which this well is located together with their correct mailing address. El Paso Natural Gas Co., Box 997, Farmington, New Mexico Kern County Land Co., 304 Korber Bldg., Albuquerque, New Mexico Malco Refineries, Inc., Artesia, New Mexico 6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ____ NO _X . If answer is yes, give date of such notification

CERTIFICATE: I, the undersigned, state that I am the ____resident counsel Skelly Oil of the _ (company), and that I am authorized by said company to make this report; and that this report was prepared superhision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. Signature

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 dual completion will result in an unorthodox well location and/or a non-standard protation unit in either or both of the

producing zones, then separate application for approval of the same should be filed simultaneously with this application.

RIO ARRIBA COUNTY



SKEILY OIL COMPANY

Jicarilla "B" No. 20

NW/4 NW/4 31-25N-5W

Rio Arriba County, N. M.

