

CASE 5224: Application of PHILLIPS  
FOR A DUAL COMPLETION, EDDY COUNTY  
NEW MEXICO.

CASE No.

5224

Application,

Transcripts,

Small Exhibits

ETC.

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
April 25, 1974

EXAMINER HEARING

----- )  
IN THE MATTER OF: )

Application of Phillips Petroleum )  
Company for a dual completion, )  
Eddy County, New Mexico )

CASE NO.  
5224

----- )  
BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil  
Conservation Commission:

William Carr, Esq.  
Legal Counsel for the  
Commission  
State Land Office Building  
Santa Fe, New Mexico

For the Applicant:

W. Thomas Kellahin, Esq.  
KELLAHIN & FOX  
500 Don Gaspar  
Santa Fe, New Mexico

CASE 5224

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I N D E X

PAGE

WILLIAM J. MUELLER

Direct Examination by Mr. Tom Kellahin

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E X H I B I T S

Marked      Offered &  
Admitted

Applicant's Exhibits Nos. 1 through 8

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THE NYE REPORTING SERVICE  
STATE-WIDE DEPOSITION NOTARIES  
225 JOHNSON STREET  
SANTA FE, NEW MEXICO 87501  
TEL. (505) 982-0386

MR. NUTTER: Case 5224.

MR. CARR: Case 5224. Application of Phillips Petroleum Company for a dual completion, Eddy County, New Mexico.

MR. TOM KELLAHIN: Tom Kellahin of Kellahin and Fox, Santa Fe, New Mexico, appearing in association with Joe V. Peacock, an attorney and member of the Texas Bar on behalf of the Applicant, Phillips Petroleum Company. We have one witness to be sworn.

WILLIAM J. MUELLER

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

DIRECT EXAMINATION

BY MR. TOM KELLAHIN:

Q Would you please state your name, by whom you are employed and in what capacity?

A My name is William J. Mueller. I am employed by Phillips Petroleum Company in the capacity of senior reservoir engineer in the Odessa District.

Q Mr. Mueller, have you previously testified before this Commission or one of its Hearing Examiners and had your qualifications accepted?

A Yes, sir.

MUELLER-DIRECT

Q Have you made a study of and are you familiar with the facts surrounding this particular Application by Phillips Petroleum Company?

A Yes, sir.

MR. TOM KELLAHIN: Are the witness' qualifications acceptable?

MR. NUTTER: Yes, they are. Please proceed.

BY MR. TOM KELLAHIN:

Q Would you please refer to what has been marked as Applicant's Exhibit No. 1 and identify it and explain what the Applicant is seeking?

A Applicant's Exhibit No. 1 here is an area plat of the Cabin Lake Field area, Eddy County, New Mexico in Township 22 South, Range 30 East. It shows the location of the proposed dual completion of our James "E" No. 1 in the north half of Section 11. It shows the location of the James "A" No. 1 in the south half of Section 2 which was the discovery well for this field. It produced initially from the Strawn and its Strawn has now been shut in and now produces from the Morrow. There is one other producing Morrow well in the field, the Phillips James "C" No. 1 upper north in Section 35. The James "D" No. 1 in Section 26 further north is now under completion.

MUELLER-DIRECT

We have tested the Morrow and the Morrow was non-commercial and we are testing the Atoka now.

The only other well in the area is a current drilling well by Troporo in Section 1 and I believe they are at about 5000 feet.

Q Please refer to Applicant's Exhibit No. 2 and identify it.

A Exhibit No. 2 is the New Mexico Oil Conservation Commission Form C-107, the Application for Multiple Completion. It details the well, James "E" No. 1, Unit "G" Section 11, 22 South, 30 East. It shows the proposed zones of multiple completion as being the upper zone of Cabin Lake Strawn from perforations 12,214 to 221, the type of production, oil, method of production, flow. It shows the lower zone, the proposed multiple completion to be the Morrow with perforated intervals from 13,323 to 400. The type of production is gas and it will be flowing. It lists the off-set operators that were notified of this Application.

Q Please refer to Exhibit No. 3 and identify it.

A Exhibit No. 3 is a diagrammatic sketch of the well as it is currently completed, listing casing setting depths, cement volumes and shows we have a 16-inch set

MUELLER-DIRECT

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at 403 feet and cemented to surface, and 10 and 3/4 set at 3688 circulated cement to surface on that string. We have 7 and 5/8 set at 11,405 feet. The top of cement behind the 7 and 5/8 is at 10,040 feet. We then ran a 5 1/2-inch liner with top of liner at 11,050 to TD at 13,948. The well has been perforated first in the lower Morrow section from 13,710 to 13,760. These intervals tested water and was subsequently squeezed off. The well was then perforated in the upper Morrow section from 13,323 to 13,400 and tested approximately 1.9 million a day. A Baker Model F-1 Production Packer was set at 13,200. We have a 2 1/2-inch N-80 High Drill tubing to the Baker Model F-1 Production Packer.

We than have Strawn perforations 7 feet from 12,214 to 221. The dual packer, a Baker Model A Dual Packer, at 11,000 with 2-and-3/8-inch tubing for the Strawn Zone in the dual packer at 11,000, or approximately 1200 feet above the Strawn purse at 12,214.

Q Why is the tubing set so high above the top of the pay in the Strawn formation?

A The 5 1/2-inch liner would not accommodate the 2-and-3/8-inch tubing string in conjunction with the 2-and-7/8-inch tubing we used through the Morrow completion

MUELLER-DIRECT

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for through-tubing perforation. Also, this previous Strawn production showed it to be a Strawn water-drive type of reservoir and we did not anticipate much pressure depletion. We thought that the additional 1000 feet to the bottom of the tubing would not in any way be detrimental.

Q Are you specifically requesting an exception to the regulation requiring that the top of the tubing be set within 250 feet of the top of the pay?

A Yes.

Q Please continue with the exhibit and its attachments?

A Attached to Exhibit 3, I have one of the U.S.G.S. forms showing it was mailed to the U.S. on the Morrow completion of this well, listing the same casing, setting depths, perforations for the Morrow Zone, and showing that we ask it be classified as a Morrow completion for gas at 1.7 million test.

Also, attached to this is a U.S.G.S. form which I would like to submit to show adequate pressure testing of the casing was done for this multiple completion. After setting the 5½-inch liner, this form shows that we did test the 7-and-5/8-inch casing and the 5½-inch

MJELLER-DIRECT

Page..... 8

liner for 2000 pounds for half hour with no pressure loss.

Attached also is what is referred to as a Packer Setting Affidavit showing a Baker Model F-1 Production Packer for separation of zones was set at 13,200 feet.

Q Please refer to what has been marked as Exhibit No. 4 and identify that?

A Exhibit 4 is a detail of the characteristics of the two zones we are asking in this multiple completion. It shows the upper completion as the Strawn and the lower completion as Morrow. The overall perforated producing intervals. It shows the maximum shut-in surface pressure we experienced on these two zones of 4750 PSI on the Strawn and on the Morrow, 4600 PSI. We show a shut-in bottom-hole pressure on the Strawn of 6529 PSI which was obtained from a two hour shut-in GST pressure.

The bottom-hole pressure for the Morrow of 5924 was calculated from the shut-in surface pressure and there is dry gas there.

Q There is no liquid being produced in the Morrow?

A There is no liquid production associated with the Morrow.

MUELLER-DIRECT

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Q Go ahead.

A The gas-oil ratio in the Strawn is approximately 10,000 to one and the oil gravity is 52 degrees. I then show some gas analysis data obtained on the two zones, showing there are two separate and distinct sources of hydrocarbons here. This is the difference in methane content, ethane, propane. The GPM of the Strawn gas being 2.8 as against 0.65 for the Morrow. The BTU being 1272 for the Strawn gas as against 1043. Specific gravity of the Strawn gas is .75 against .60 for the Morrow.

There, listed on the bottom portion of this sheet, is the test data we have obtained so far in this well. We initially completed it in the Morrow, and I believe this is the third of a three-day test. It flowed 24 hours 1.9 million with a flowing-tubing pressure of 625 pounds and no liquids. We then obtained permission from the Artesia Office of the New Mexico Conservation Commission to test the Strawn for approximately 30 days to ascertain what type of well it would be and its productivity, and as you can see there, on March 20th, we started opening the well up and we had 120 barrels of oil and 400 barrels of water with a flowing-tubing pressure of 1800 pounds, gas-oil ratio of 6610. In about

MUELLER-DIRECT

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a month's testing here the well has declined to approximately 10 or 11 barrels of oil a day and 200-plus barrels of water a day with a flowing-tubing pressure of 600 pounds and a gas-oil ratio in the 13,000 to 15,000 range. This is similar to what we experienced in the James "A".

Q In your opinion, Mr. Mueller, these are two distinct and separate sources of supply?

A That's right.

Q With regard to Exhibits 3 and 4, does the method of dual completion conform to good engineering practices so that there will be no communication between the two zones?

A Yes, sir. A packer leakage test will be taken as soon as we have approval of the dual.

Q Please refer to Exhibit 5. That is your log on the James "E" No. 1?

A I have here a small scale log with a bore hole compensated sine gamma ray log on the James "E" No. 1 showing the top of the Strawn at 12,210. It is a perforated interval there from 12,214 to 21. The top of the Atoka at 12,430 is listed. The top of what we refer to as the Morrow Lime at 13,082; then the top of the Morrow Sand section at 13,280. The current Morrow perforations are shown in red there, and the PBTD at 13,590 is shown with the squeezed Morrow perforations below it.

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Q Would you please refer to what has been marked as Exhibit No. 6; that is the James "A" No. 1?

A The James "A" No. 1 well log -- excuse me -- Exhibit No. 6 is a log of the James "A" No. 1 -- showing the identical data of the log that we had in the James "E" No. 1 to show that this James "E" No. 1 current producing intervals are the same ones that are now or have produced in the James "A" No. 1 in both the Cabin Lake-Strawn and Cabin Lake-Morrow Fields.

Q Please refer to what has been marked as Exhibit No. 7 and identify that, please?

A Exhibit No. 7 is a detail of the past production and completion history on our James "A" No. 1, the discovery well in the Cabin Lake Field. This well was completed in February of '67 from Strawn perforations 12,155 to 67 with an IP flowing of 288 barrels of oil at 51.8 gravity, 264 barrels of water, gas-oil ratio of 10,400 to one. Initial bottom-hole pressure measured at that time was 7280 PSI. Completion tests of the Strawn in February of '67 indicates a very similar rapid deterioration that we are experiencing in the James "E". On February 13th, the well was capable of flowing 216 barrels of oil and 245 water, but by seven days later on the 21st, we found

50 oil, 330 water with a flowing-tubing pressure of 1400 pounds.

The annual production is then listed at the James "A" No. 1 which produced from 1967 through 1972. This is accumulative of approximately 360,000 barrels of oil with a maximum production occurring in 1968 of 17,516 barrels or approximately 48 barrels a day, I believe, is the maximum. The water production here and gas production listed as annual volumes are estimated based on annual and semi-annual well tests taken during the time because the gas production from the Strawn was flared or vented. After the no-flare order, the economics would not justify connection by any gas purchaser so it continued until the fall of '72 at which time El Paso said that they would lay to the well in the area if we would temporarily abandon the Strawn and recomplete in the Morrow, and take the Strawn as a fade-out pay later on after completion of the Morrow. So, in January and February of '73, the Strawn was essentially shut in or abandoned in the annulus and the tubing run to the packer in the Morrow and put back on production for a calculated open flow of 1.8 million. The well apparently produces from the Morrow at 1.6 million a day.

MUELLER-DIRECT

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Gas analyses of both zones are listed on this attachment two showing that here, again, this is two separate sources of supply and they are very identical to the gas analysis in the James "E".

Q Please refer to Exhibit 8 and identify it, Mr. Mueller?

A Exhibit 8 is a -- composes two letters that Phillips sent to the off-set operators in this area, our first letter being dated February 19th of '74. We sent them a copy of our proposed multiple completion in the James "E" by way of Commission Form C-107. Waivers were obtained from four of the five operators, I believe. Everyone but K. K. Ameaney. Subsequently, then, after this testing of the Strawn, we saw that we had very similar production to the James "A" Strawn which had been classified as the Cabin Lake-Strawn Oil Pool, so the top letter of March 27th renotified these off-set operators that we were amending our form from a gas to an oil completion on the Strawn similar to the James "A". No objection has been received from any of them.

Q In your opinion, Mr. Mueller, will approval of this Application be in the best interest of conservation, prevention of waste and the protection of correlative

MUELLER-DIRECT

rights of the owners?

A Yes.

Q Were Exhibits 1 through 8 either prepared by you directly or under your direction and supervision?

A Yes, sir.

MR. TOM KELLAHIN: We move the introduction of Applicant's Exhibits Nos. 1 through 8.

MR. NUTTER: Phillips' Exhibits 1 through 8 will be admitted in evidence.

(Whereupon, Applicant's Exhibits Nos. 1 through 8 were marked for identification and admitted into evidence.)

MR. TOM KELLAHIN: This concludes our direct examination.

MR. NUTTER: Are there any questions of Mr. Mueller?

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Mueller, you mentioned in your testimony that this tubing on the Strawn was set higher than the permitted 250 feet?

A Yes.

Q This is not included in the Notice of the

MUELLER-CROSS

Hearing, so if you will write a letter, there is a provision that we can approve that separately.

A Fine, all right.

Q So, if you will just write a letter requesting that, we can take care of that.

MR. NUTTER: Is there anything further, Mr. Kellahin?

MR. TOM KELLAHIN: No.

MR. NUTTER: Is there anyone who would like to offer anything in Case No. 5224?


We will take the case under advisement.

STATE OF NEW MEXICO )  
 ) SS.  
COUNTY OF SANTA FE )

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

  
COURT REPORTER

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5224 heard by me on 4/25, 1974.

 Examiner  
New Mexico Oil Conservation Commission

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SANTA FE, N. MEXICO 87501  
TEL. (505) 982-0386



## OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO  
P. O. BOX 2088 - SANTA FE  
87501

I. R. TRUJILLO  
CHAIRMAN  
LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER  
STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

May 21, 1974

Mr. Tom Kellahin  
Kellahin & Fox  
Attorneys at Law  
Post Office Box 1769  
Santa Fe, New Mexico

Re: CASE NO. 5224  
ORDER NO. R-4781  
Applicant:  
Phillips Petroleum Co.

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.*

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC X  
Artesia OCC X  
Aztec OCC       

Other Mr. Joe V. Peacock

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. 5224  
Order No. R-4781

APPLICATION OF PHILLIPS PETROLEUM  
COMPANY FOR A DUAL COMPLETION,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 25, 1974,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 21st day of May, 1974, 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, Phillips Petroleum Company, seeks  
authority to complete its James "E" Well No. 1, located in Unit G  
of Section 11, Township 22 South, Range 30 East, NMPM, Eddy  
County, New Mexico, as a dual completion (conventional) to pro-  
duce oil and gas from the Cabin Lake-Strawn Pool and gas from  
the Cabin Lake-Morrow Gas Pool through parallel strings of tubing.

(3) That the mechanics of the proposed dual completion are  
feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent  
waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Phillips Petroleum Company, is  
hereby authorized to complete its James "E" Well No. 1, located  
in Unit G of Section 11, Township 22 South, Range 30 East, NMPM,  
Eddy County, New Mexico, as a dual completion (conventional) to  
produce oil and gas from the Cabin Lake-Strawn Pool and gas from  
the Cabin Lake-Morrow Gas Pool through parallel strings of tubing,  
with separation of the producing zones achieved by means of a  
packer set at approximately 13,200 feet;

-2-

CASE NO. 5224  
Order No. R-4781

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of 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 completion and annually thereafter during the Annual Shut-In Pressure Test Period for the Cabin Lake-Morrow Gas Pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



*R. Trujillo*  
I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member

*A. L. Porter, Jr.*  
A. L. PORTER, JR., Member & Secretary

S E A L

jr/

Case 5224

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 14, 1974

Phillips Petroleum Co.  
Phillips Building  
4th & Washington  
Odessa, Texas 79760

Attention: Mr. G. W. Edwards

Administrative Order TX-43

Gentlemen:

Reference is made to your letter dated April 26, 1974, requesting a tubing exception for your James E Well No. 1, located in Unit G, Section 11, Township 22 South, Range 30 East, Cabin Lake Field, Eddy County, New Mexico.

It is our understanding that this well is equipped with a 5 1/2-inch liner, which prohibits running the Strawn tubing below 11,057 feet.

Pursuant to the authority granted me by Commission Rule 107(d)4, Phillips Petroleum Company is hereby granted an exception to Commission Rule 107(d)3 and is authorized to set the Strawn tubing in the subject well at a depth of 11,002 feet.

Should production problems or other difficulties arise from this exception, which indicate that waste or reservoir damage is occurring, this authority may be rescinded.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/DSN/dr

cc: Oil Conservation Commission - Artesia  
Oil & Gas Engineering Committee - Hobbs

C  
O  
P  
Y

DOCKET: EXAMINER HEARING - THURSDAY - APRIL 25, 1974

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 Richard L. Stamets, Alternate Examiner:

CASE 5206: (Continued from the April 10, 1974, Examiner Hearing)

Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle West Warren-Blinebry and East Skaggs-Drinkard production in the wellbore of its SEMU Burger Well No. 21 located in Unit O of Section 19, Township 20 South, Range 38 East, Lea County, New Mexico.

CASE 5209: (Continued from the April 10, 1974, Examiner Hearing)

Application of Union Oil Company of California for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Estacado Unit Area comprising 1280 acres, more or less, of State and fee lands in Township 14 South, Range 35 East, Lea County, New Mexico.

CASE 5219: Application of Midwest Oil Corporation for pool creation, discovery allowable, and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Wolfcamp production for its South Empire Deep Unit Well No. 4 located in Unit G of Section 32, Township 17 South, Range 29 East, Eddy County, New Mexico, and for the promulgation of special pool rules therefor, including a provision for 80-acre spacing. Applicant further seeks the assignment of approximately 42,245 barrels of oil discovery allowable to the aforesaid well.

CASE 5220: Application of Atlantic Richfield Company for an unorthodox gas well location and non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its McDonald State WN Well No. 24 located 1780 feet from the North line and 660 feet from the West line of Section 25, Township 22 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to a 320-acre non-standard gas proration unit comprising the N/2 of said Section 25.

CASE 5221: Application of Black River Corporation for an unorthodox gas well location and a non-standard proration unit, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its BR 4 Federal Well No. 3 located 1986 feet from the North line and 330 feet from the East line of Section 4, Township 26 South, Range 24 East, undesignated Delaware gas pool, Eddy County, New Mexico,

(Case 5221 continued from Page 1)

said well having been projected as an oil well at a standard location for Delaware oil wells. Applicant further seeks approval of a 201.34-acre non-standard gas proration unit for said well comprising the NE/4 of said Section 4.

CASE 5222: Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Pavo Mesa Unit Area comprising 2,560 acres, more or less, of State and Federal lands in Township 16 South, Range 28 East, Eddy County, New Mexico.

CASE 5223: Application of Continental Oil Company for a 320-acre non-standard gas proration unit, simultaneous dedication of acreage, and reinstatement of cancelled underproduction, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 320-acre non-standard gas proration unit comprising the N/2 of Section 17, Township 24 South, Range 37 East, Jalmat Gas Pool, Lea County, New Mexico, to be simultaneously dedicated to its Jack B-17 Wells Nos. 3 and 4 located 990 feet from the North and East lines and 990 feet from the North line and 1980 feet from the West line, respectively, of said Section 17. Applicant further seeks the reinstatement of the underproduction which was cancelled November 1, 1973, when the aforesaid proration unit was reclassified to marginal status.

CASE 5224: 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 James "E" Well No. 1 located in Unit G of Section 11, Township 22 South, Range 30 East, Cabin Lake Field, Eddy County, New Mexico, in such a manner as to produce gas from the Strawn and Morrow formations through parallel strings of tubing.

CASE 5225: Application of Fluid Power Pump Company, Petro Lewis Corporation, and Partnership Properties Company for compulsory pooling, Sandoval County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests in the Media-Entrada Oil Pool underlying the NW/4 of Section 22, Township 19 North, Range 3 West, Sandoval County, New Mexico, to be dedicated to the Fluid Power Pump Company Well No. 5 located in Unit C of said Section 22.

CASE 5226: 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 Morrow gas pool for its Fasken El Paso Federal Well No. 1 located in the SW/4 NW/4 of Section 3, Township 21 South, Range 26 East, Eddy County, New Mexico, and the promulgation of special pool rules therefor, including a provision for 640-acre spacing units for Sections 7 through 12, Township 21 South, Range 26 East, and the adoption of 480-acre non-standard spacing units comprising either the N/2 or S/2 of Sections 1 through 6, Township 21 South, Range 26 East, and Section 7, Township 21 South, Range 27 East.

CASE 5227: Application of Morris R. Antwell for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying Lots 9 through 16 of Section 4, Township 21 South, Range 26 East, Eddy County, New Mexico, to form a standard 320-acre gas proration unit to be dedicated to a well to be drilled at a standard location for said unit. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5228: Application of David Fasken for the creation of two pools and a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a Strawn gas pool and a Morrow gas pool for his El Paso 3 Federal Well No. 1 located 2724 feet from the North line and 2870 feet from the East line of Section 3, Township 21 South, Range 26 East, Eddy County, New Mexico. Applicant further seeks approval for the dual completion of said well to produce gas from the Strawn and Morrow formations through parallel strings of tubing.

CASE 5207: (Continued from the April 10, 1974, Examiner Hearing)

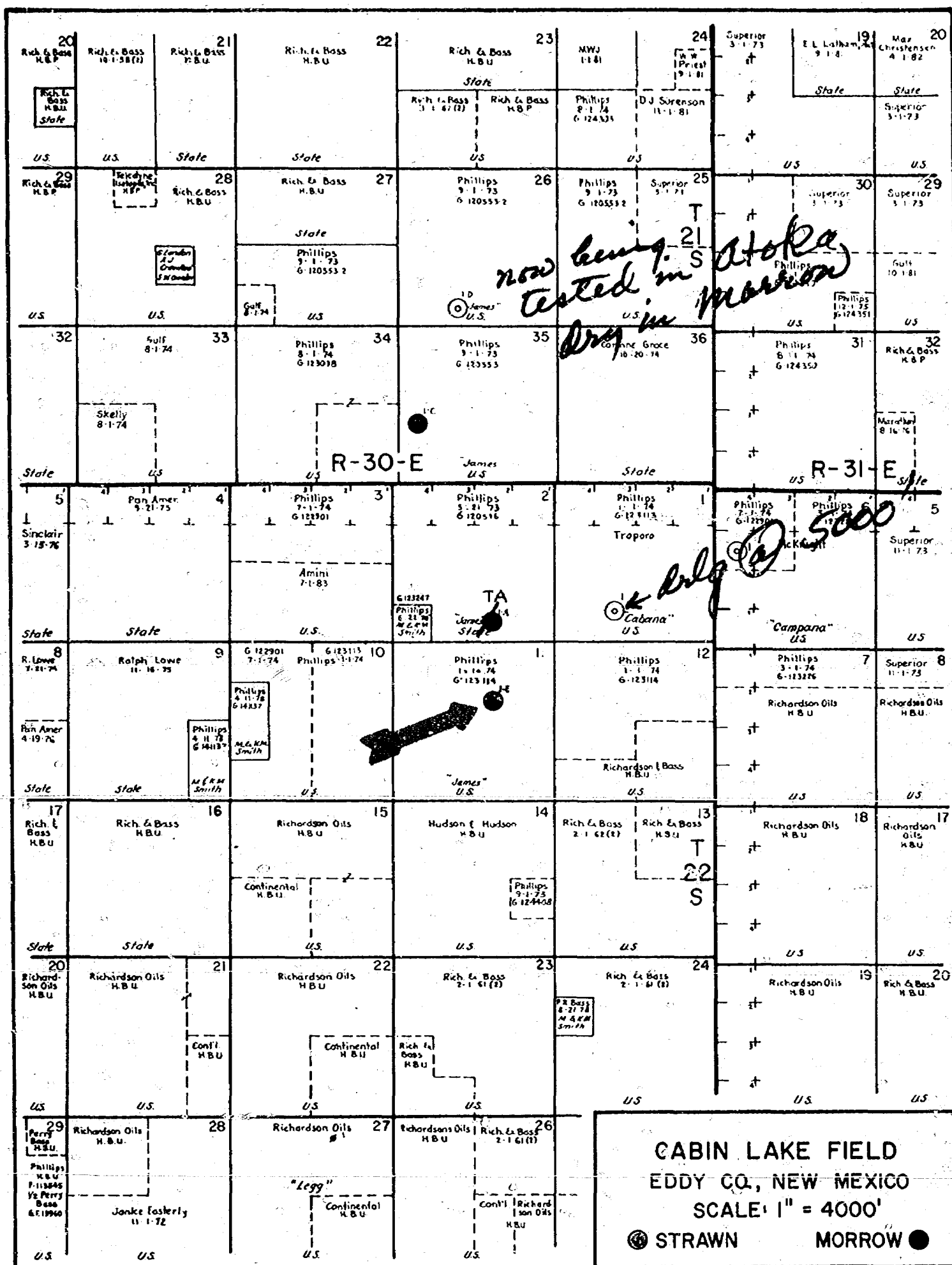
Application of Craig Polson for a non-standard proration unit and compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying a non-standard oil proration unit comprising the SW/4 NE/4 SE/4, NW/4 SE/4 SE/4, NE/4 SW/4 SE/4, and the SE/4 NW/4 SE/4 of Section 12, Township 13 South, Range 31 East, Caprock-Queen Pool, Chaves County, New Mexico, to be dedicated to a well to be drilled at an unorthodox location 1340 feet from the South line and 1300 feet from the East line of said Section 12, said location having been previously been approved by Order No. R-4750. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5208: (Continued from the April 10, 1974, Examiner Hearing)

Application of S. P. Yates for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Order No. R-3221, as amended, authority to dispose of produced salt water in an unlined surface pit on its Federal LC 065598 lease in the SW/4 SW/4 of Section 4, and the NE/4 of Section 5, Township 17 South, Range 30 East, Square Lake Pool, Eddy County, New Mexico.

CASE 5224

Phillips application  
was for an oil/gas  
dual complete but it  
was advertised as  
a gas/gas dual  
completion. Jason  
has notified all  
off-set operators  
and wants to go  
ahead with the  
bearing on April 25.



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

Form C-107  
5-1-61

Operator <b>Phillips Petroleum Company</b>		County <b>Eddy</b>	Date <b>2-20-74</b>
Address <b>Room 711, Phillips Bldg., Odessa, Tx. 79761</b>		Lease <b>James-E</b>	Well No. <b>1</b>
Location of Well <b>G</b>	Unit <b>11</b>	Township <b>22-S</b>	Range <b>30-E</b>

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 \_\_\_\_\_ NO X
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator Lease, and Well No.: \_\_\_\_\_

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	<b>Cabin Lake (Strawn)</b>	---	<b>Cabin Lake (Morrow)</b>
b. Top and Bottom of Pay Section (Perforations)	<b>perf. 1221 1/4' (top) 12221' (bottom)</b>	---	<b>perf. 13323' (top) 13400' (bottom)</b>
c. Type of production (Oil or Gas)	<b>Oil</b>	---	<b>Gas</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flow</b>	---	<b>Flow</b>

4. The following are attached. (Please check YES or NO)

- |                                     |                          |   |
|-------------------------------------|--------------------------|---|
| Yes                                 | No                       |   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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.   |
| <input type="checkbox"/>            | <input type="checkbox"/> | 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.*  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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.

K. K. Amini, 1505 First City East, Houston, Texas 77002

Hudson and Hudson, 1000 First National Bldg., Fort Worth, Texas 76102

Richardson and Bass, 1211 Fort Worth National Bank Bldg., Fort Worth, Texas 76102

Richardson Oils, Inc., 1211 Fort Worth National Bank Bldg., Fort Worth, Texas 76102

Troparo Oil and Gas Company, 511 West Ohio, Midland, Texas 79701

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_\_. If answer is yes, give date of such notification 2-20-74

CERTIFICATE: I, the undersigned, state that I am the Senior Reservoir Engineer of the Phillips Petroleum 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.



W. J. Mueller

\*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 location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

PHILLIPS PETROLEUM COMPANY  
JAMES "E" NO. 1 (G-11-22S-30E)  
EDDY COUNTY, NEW MEXICO

DOCKET NO. 11-74  
CASE 5224  
APRIL 25, 1974

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION  
Phillips EXHIBIT NO. 3  
CASE NO. 5224

16" CENTRALIZERS  
@ 365', 325'

16" @ 403'

550 SZ, 7/8" READY MIX

CMT to SURFACE

10 3/4" @ 3688'

2700 SZ, CIRC.

11002'  
BAKER A-5 DUAL PKR.

11057'  
B.O.T. HY-FLO  
LINER HANGER

2 7/8", 6.5" N-80 HYDRIL CS

13178'-BAKER MODEL L  
SLIDING SLEEVE

13196'-BAKER ON-OFF TOOL

13200'-BAKER MODEL F-1  
PROD PKR

13594'-SV CMT RETAINER

13600'-BAKER MODEL  
FB-1 PKR

5 1/2" CENTRALIZERS @ 13940',  
13900', 13780', 13660', 13540',  
13420', 13260', 13100', 12940', 12780',  
12620', 12460', 12300', 12140', 11980',  
11820', 11660', 11500', 11340', 11180'

10' SUB  
MODEL F NPL  
6' SUB

10 3/4" CENTRALIZERS

@ 3681', 3646',  
3605', 3566'

2 3/8", 47" N-80, ABC MOD

2.68" S' SNAP SET LATCH  
SEAL

2 3/8" x 1.78" R NIPPLE (NO-60)

7 1/2" CENTRALIZERS @ 11400',  
11351', 11269', 11180', 11089',  
10988', 10855', 10730'

11405'-7 1/2" HYDRIL

29.7" S-95, SUPER FJ-P

TOC @ 10040'

CMT. W/ 300 SZ.

4 ST/FT 12214'-12221'  
STRAWN

1.9 million  
BAKER MODEL F-1 ANCHOR  
SEAL ASS.

2 ST/FT 13323-13330'

13350'-55', 13372'-76',

13384'-90', 13395'-400'

MORROW

2 ST/FT 13710'-14'

13738'-46', 13752'-60'

CMT. W/ 325 SZ

5 1/2" LINER 20"

13948' HYDRIL P-110  
CMT. CIR TOP OF LIN.

BARTLESVILLE, OKLAHOMA

JAMES "E" No. 1

COMPLETION EQUIPMENT

DRAWN  
CHECKED

ECW

3/18/74

AGE NO.

DWG. NO.

Form 9-330  
(Rev. 5-63)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

OPERATOR'S COPY

SUBMIT IN DUPL  
(See other instructions on reverse side)

file: James-E #1

Form approved  
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 0479142	
1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. REVER. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Phillips Petroleum Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Room 711, Phillips Building, Odessa, Texas 79761		8. FARM OR LEASE NAME James-E	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 1980' FN & E lines (Unit G) At top prod. interval reported below At total depth		9. WELL NO. 1	
14. PERMIT NO. 10-17-73		10. FIELD AND POOL, OR WILDCAT Cabin Lake - Morrow	
15. DATE SPUDDED 10-24-73		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 11, 22-S, 30-E	
16. DATE T.D. REACHED 1-10-74		12. COUNTY OR PARISH Eddy	
17. DATE COMPL. (Ready to prod.) 2-4-74		13. STATE New Mexico	
18. ELEVATIONS (DF, RKB, RT, CB, ETC.) 3198' Gr., 3220' DF		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 13,950'		21. PLUG, PACK T.D., MD & TVD 13,590'	
22. IF MULTIPLE COMPL., HOW MANY? two		23. INTERVALS DRILLED BY 0 - 13,950'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) Morrow - top 13,082', bottom 13,590'		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger BHC-Sonic-GR-Caliper, Dual Laterolog, Micro-Laterolog and Microlog, CNL-FDC-RYO		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
API SPEC	WEIGHT TO / FT	DEPTH SET (MD)	HOLES SET
16"	65#	403'	20" (550sxTRLW w/2%CaCl <sub>2</sub> , 7 yds ready mix)
10-3/4"	51#	3688'	15" (2400sxTRLW w/2%CaCl <sub>2</sub> , 300sxClass C. Circ)
7-5/8"	29.7#, 26.4#	11405'	9 1/2" (300sxClass H w/3/10%LWL, 1%DA.TOC at 10040')--
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
5-1/2"	11057'	13948'	325sxClass G IncorSR w/1/10% LWL & 2%KCL/sx.
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-7/8"	13,200'	13,200'	
31. PERFORATION RECORD (Interval, size and number)			
2 = 1/2" holes/ft 13710-14, 13738-46, 13752-60', total 20', 40 holes (Sqzd & abandoned 13710-60')		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
2 = 1/2" holes/ft 13323-30, 13350-55, 13384-90, 13395-400', total 22', 44 holes.		DEPTH INTERVAL (MD)	
		13710-60'	
		13710-60'	
		13323-400'	
		AMOUNT AND KIND OF MATERIAL USED	
		3000 gals 7 1/2% HCL acid w/1000 cu ft nitrogen.	
		Sqzd w/25 sx press into form, 20sx below cmt retrn at 13594'.	
		4000 gals 7 1/2% HCL acid (see reverse)	
33. PRODUCTION			
DATE FIRST PRODUCTION 2-14-74	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing		WELL STATUS (Producing or shut-in) shut-in
DATE OF TEST 2-15-74	HOURS TESTED 1	CHOKE SIZE 3/4"	PROD'N. FOR TEST PERIOD
FLOW. TUBING PRESS. 110	CASING PRESSURE pkc.	CALCULATED 24-HOUR RATE Estimated	OIL—BBL. 1.7 MM
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Shut in pending gas connection.		GAS—MCF. 0	
35. LIST OF ATTACHMENTS Logs furnished direct by Schlumberger.		WATER—BBL. 0	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		GAS-OIL RATIO 1.055	
SIGNED W. J. Mueller		TEST WITNESSED BY R. C. Ainsworth	
TITLE Senior Reservoir Engineer		DATE 3-7-74	

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Form C-122 to be filed as soon as connected and potentialized.

Form 9-331  
(May 1963)

OPERATOR'S COPY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 0479142

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

James-E

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Cabin Lake - Morrow

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

11, 22S, 30E

12. COUNTY OR PARISH 13. STATE

Eddy New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

Room 711, Phillips Building, Odessa, Texas 79761

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1980' FN & E lines, Sec 11. (Unit G)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3198' Fr., 3220' DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) TD and run liner

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Reached TD 13950' 6 PM, 1-10-74, cond hole.  
1-11-74, set 5-1/2" P-110 Hydril triple seal liner w/BOT Hyflo liner hanger, bottom of  
liner at 13,948', top at 11,057'. Circulated 2 hrs, Howco cmt w/325 sx Class C Incor SR  
cmt w/1/10% LWL and 2# KCL per sx. Plug to 13,903' w/176 bbls mud. Max press 1300#,  
bumped w/1900#. Set liner hangers and reversed 52 sx cmt. Job complete 7:45 PM, 1-11-74.  
Pulled 10 stds DP. Closed pipe rams, held 1200# on 7-5/8" csg and 4" DP for 12-3/4 hrs.  
1-12-74, released pressure and pulled DP. Ran 6-3/4" bit to 10,500'. WOC 11-1/4 hrs,  
drld cmt 11,052'-57' at top of liner, circ hole clean. COOH WITH w/4-1/2" bit. 1-13-74,  
ran bit to top of liner, washed for 13900'-903'. Circ hole clean. Howco tested 7-5/8"  
csg and 5-1/2" liner w/2000# for 1/2 hr, ok. Displaced hole with brine.

Prep to perforate and complete well.

RECEIVED

FEB 21 1974

U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

I hereby certify that the foregoing is true and correct

SIGNED

W. J. Mueller

TITLE Senior Reservoir Engineer

DATE 2-18-74

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL IF ANY:

TITLE

DATE

FEB 21 1974  
H. L. BEEKMAN  
ACTING DISTRICT ENGINEER

\*See Instructions on Reverse Side

Form 9-331  
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

OPERATOR'S COPY

SUBMIT IN TRI-  
(Other instructions  
reverse side)

DATE

Form approved.  
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

NM 0479142

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

James-E

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Cabin Lake - Morrow - Gas

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

11, 22-S, 30-E

12. COUNTY OR PARISH

Eddy

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

Room 711, Phillips Building, Odessa, Texas 79761

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)

At surface

1980' FN & E lines Section 11 (Unit G)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3198' Gr., 3220' DF

RECEIVED

MAR - 8 1974

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Setting of separation packer

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

2-2-73: Ram Guns set Baker Model P-1 production separation packer, with wire line, at 13,200'.

2-3/4-73: Set 2-7/8" tbg w/anchor seal assy in packer at 13,200', on-off tool at 13,196', Baker Model L sliding sleeve at 12,258', Baker A-5 dual packer at 11,002'.

18. I hereby certify that the foregoing is true and correct

SIGNED

W. J. Mueller

TITLE Senior Reservoir Engineer

DATE 2-18-74

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

MAR 11 1974

H. L. BEEKMAN  
ACTING DISTRICT ENGINEER

TITLE

DATE

\*See Instructions on Reverse Side

## BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

Phillips EXHIBIT NO. 4

CASE NO. 5224

DOCKET NO. 11-74

CASE 5224

APRIL 25, 1974

PHILLIPS PETROLEUM COMPANY

JAMES "E" NO. 1  
UNIT G, SECTION 11, T-22-S, R-30-E  
EDDY COUNTY, NEW MEXICOCABIN LAKE FIELDCompletion Zone  
Formation  
Completion Interval  
Shut-in Surface Pressure  
Shut-in B.H.P.  
Gas-Oil Ratio  
Oil Gravity at 60° F.Upper  
Strawn  
12,214-221'  
4750 psi  
6529 psi  
10,000  
52°Lower  
Morrow  
13,323-400'  
4600 psi  
5924 psi  
Dry*calc from  
surf press  
no liquids  
at all*Gas Analysis Data

Trap

490 psi at 185°

575 psi at 80°

Mol %:Methane  
Ethane  
Propane  
Butane  
Pentane78.62  
11.05  
4.24  
2.32  
1.2794.95  
1.99  
1.57  
0.19  
0.18G.P.M. of Propane Plus  
BTU/Cubic Ft.  
Specific Gravity2.848  
1,272  
0.7520.653  
1,043  
0.600Well Test DataMorrow:

3-15-74 Flow 24 hrs. 1,900 Mcf FTP 625# No liquids

Strawn:

3-20-74	Flow 24 hrs.	120 BO	400 BW	FTP 1800#	GOR 6,610
3-22-74	Flow 24 hrs.	71 BO	350 BW	FTP 1800#	GOR 17,950
3-25-74	Flow 24 hrs.	125 BO	600 BW	FTP 1050#	GOR 9,050
4-17-74	Flow 24 hrs.	10 BO	200 BW	FTP 600#	GOR 14,650
4-18-74	Flow 24 hrs.	11 BO	225 BW	FTP 600#	GOR 13,250

DOCKET NO. 11-74  
CASE 5224  
APRIL 25, 1974

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

*Phillips* EXHIBIT NO. 7

CASE NO. 5224

PHILLIPS PETROLEUM COMPANY

JAMES "A" NO. 1

UNIT O, SECTION 2, T-22-S, R-30-E  
EDDY COUNTY, NEW MEXICO

CABIN LAKE FIELD

Completed February, 1967, from Sprawn perforations 12,155-167'.

IPF 288 BO (51.8° API) 264 BW GOR 10,400.

2/6/67 SITP—4705 psi. B.H.P. at 12,060' — 7,280 psi.

2/13/67	Flow 24 hrs.	216 BO	245 BW	FTP 2100#	GOR 11,185
2/14/67	Flow 24 hrs.	120 BO	230 BW	FTP 2400#	GOR 16,392
2/15/67	Flow 24 hrs.	96 BO	252 BW	FTP 2200#	GOR 16,531
2/16/67	Flow 24 hrs.	84 BO	264 BW	FTP 2000#	GOR 15,400
2/17/67	Flow 24 hrs.	64 BO	288 BW	FTP 2000#	GOR 19,344
2/18/67	Flow 24 hrs.	65 BO	290 BW	FTP 2000#	GOR 15,538
2/20/67	Flow 24 hrs.	50 BO	310 BW	FTP 1600#	GOR 16,580
2/21/67	Flow 24 hrs.	50 BO	330 BW	FTP 1400#	GOR 20,350
2/24/67	48-Hour SITP —	3000 psi.	B.H.P. —	6716 psi.	

Annual Production—Strawn

<u>Year</u>	<u>Oil—Barrels</u>	<u>Water*—Barrels</u>	<u>Gas*—Mcf</u>	<u>GOR</u>
1967	14,548	82,073	121,299	8,338
1968	17,516	87,682	240,235	13,715
1969	11,286	57,612	146,290	12,962
1970	6,288	57,972	80,597	12,817
1971	5,353	108,260	114,350	21,362
1972	5,363	102,156	96,939	18,065

\*Estimated volumes based on well tests.

12/28/72	Flow 24 hrs.	16 BO	330 BW	FTP 240#	GOR 11,222
1/5/73	SI—6 days	SITP—1449 psi.	B.H.P.—	4717 psi.	

Recompleted February, 1973, from Morrow perforations 13,246-424'.  
(Strawn zone temporarily abandoned in casing-tubing annulus.)

Morrow CAOF 2/2/73; 1,845 Mcfd; specific gravity 0.590.

SITP—4709 psi. B.H.P.—6028 psi.

1973 Morrow production: 732,683 Mcf; no liquids.

4/21/74 Flow 24 hrs.; 1,647 Mcfd; FTP 580#.

Gas Analysis Data

Trap

Strawn  
230 psi at 85°

Morrow  
250 psi at 73°

Mol %:

Methane	79.14	95.76
Ethane	11.10	2.67
Propane	4.29	0.43
Butane	2.23	0.16
Pentane	.97	0.08
G.P.M. of Propane Plus	2.745	0.238
BTU/Cubic Ft.	1,250	1,023
Specific Gravity	0.737	0.586



**PHILLIPS PETROLEUM COMPANY**

ODESSA, TEXAS 79760  
PHILLIPS BUILDING, FOURTH & WASHINGTON

EXPLORATION & PRODUCTION DEPARTMENT

March 27, 1974

7-5: James-E Well No. 1,  
Cabin Lake (Morrow)  
and (Strawn) Pools,  
Eddy County, New Mexico

File: W2-Ed-141-74

K. K. Amini  
1505 First City East  
Houston, Texas 77002

Hudson and Hudson  
1000 First National Building  
Fort Worth, Texas 76102

Richardson and Bass  
1211 Fort Worth National Bank Building  
Fort Worth, Texas 76102

Richardson Oils, Inc.  
1211 Fort Worth National Bank Building  
Fort Worth, Texas 76102

Troparo Oil and Gas Company  
511 West Ohio  
Midland, Texas 79701

Gentlemen:

Please refer to our captioned letter of February 19, 1974, transmitting Form C-107, "Application for Multiple Completion" on the subject well. Your attention is called to the change in the type of production from the Strawn zone from gas to oil, which resulted from an evaluation testing period.

We have filed an application before the Commission for a hearing on this proposed dual completion. We expect that hearing to be scheduled for April 24, 1974.

Your consideration in furnishing the waivers upon receipt of our initial request is very much appreciated. They will be used, if necessary, in the hearing proceedings.

Yours very truly,

  
T. Harold McEmore

PHILLIPS PETROLEUM COMPANY

THMcL:rm

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Phillips EXHIBIT NO. <u>8</u>
CASE NO. <u>5224</u>



**PHILLIPS PETROLEUM COMPANY**

ODESSA, TEXAS 79760  
PHILLIPS BUILDING, FOURTH & WASHINGTON

EXPLORATION & PRODUCTION DEPARTMENT

February 19, 1974

7-5: James-E Well No. 1,  
Cabin Lake (Morrow)  
and (Strawn) Pools,  
Eddy County, New Mexico

File: W2-Ed-76-74

K. K. Amini  
1505 First City East  
Houston, Texas 77002

Hudson and Hudson  
1000 First National Building  
Fort Worth, Texas 76102

Richardson and Bass  
1211 Fort Worth National Bank Building  
Fort Worth, Texas 76102

Richardson Oils, Inc.  
1211 Fort Worth National Bank Building  
Fort Worth, Texas 76102

Troparo Oil and Gas Company  
511 West Ohio  
Midland, Texas 79701

Gentlemen:

We respectfully request your waiver of objections to our proposed dual gas/gas completion of the captioned well--located 1980 feet from north and east lines (Unit G), Section 11, T-22-S, R-30-E--in the Cabin Lake (Morrow) and (Strawn)--Gas Pools. This will be a conventional tubing/tubing dual completion with a Baker Model F-1 separation packer set at 13,200 feet, on/off tool at 13,196 feet, Baker Model L sliding sleeve at 12,258 feet and Baker Model A-5 dual packer at 11,002 feet. Morrow perforations are selective from 13,323 feet to 13,400 feet; Strawn perforations are selective from 12,214 feet to 12,221 feet. We attach copies of NMOCC Form No. C-107, "Application for Multiple Completion", which will be filed covering this proposed dual completion.

If you have no objections to our proposal, kindly execute and return two (2) copies of the attached waiver in order that they may be filed with the New Mexico Oil Conservation Commission. A stamped and addressed envelope is enclosed for your convenience.

Yours very truly,

*T. Harold McLemore*  
T. Harold McLemore, for

PHILLIPS PETROLEUM COMPANY

THMcL:rm  
Attach.

cc: NMOCC - 3  
Santa Fe, New Mexico  
NMOCC  
Artesia, New Mexico

Waiver of Objections

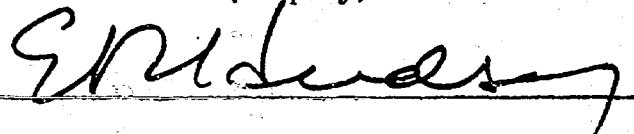
Hudson & Hudson, as an Offset Operator,  
has been duly advised by Phillips Petroleum Company of their proposal to dually  
complete the James-E Well No. 1 (Unit G), Section 11, T-22-S, R-30-E, Eddy  
County, New Mexico, in the Cabin Lake (Morrow) and (Strawn)--Gas Pools, in a  
conventional tubing/tubing completion procedure.

We hereby waive any and all objections to this proposal of the conventional  
tubing/tubing dual completion of Phillips Petroleum Company's James-E Well No. 1  
in the named pools.

Hudson & Hudson

(Company)

BY:



TITLE: Partner

DATE: February 22, 1974

THMcL:rm

Waiver of Objections

BASS ENTERPRISES PRODUCTION CO., as an Offset Operator,  
has been duly advised by Phillips Petroleum Company of their proposal to dually  
complete the James-E Well No. 1 (Unit G), Section 11, T-22-S, R-30-E, Eddy  
County, New Mexico, in the Cabin Lake (Morrow) and (Strawn)--Gas Pools, in a  
conventional tubing/tubing completion procedure.

We hereby waive any and all objections to this proposal of the conventional  
tubing/tubing dual completion of Phillips Petroleum Company's James-E Well No. 1  
in the named pools.

BASS ENTERPRISES PRODUCTION CO.

*Discu*  
BX: 

TITLE: VICE PRESIDENT & MGR., OPERATIONS

DATE: FEBRUARY 21, 1974

THMcL:rm

Waiver of Objections

PERRY R. BASS \_\_\_\_\_, as an Offset Operator,  
has been duly advised by Phillips Petroleum Company of their proposal to dually  
complete the James-E Well No. 1 (Unit G), Section 11, T-22-S, R-30-E, Eddy  
County, New Mexico, in the Cabin Lake (Morrow) and (Strawn)--Gas Pools, in a  
conventional tubing/tubing completion procedure.

We hereby waive any and all objections to this proposal of the conventional  
tubing/tubing dual completion of Phillips Petroleum Company's James-E Well No. 1  
in the named pools.

PERRY R. BASS

BY:  (Company)

TITLE: VICE PRESIDENT & MGR., OPERATIONS

DATE: FEBRUARY 21, 1974

THMcL:rm

Waiver of Objections

Troporo Oil & Gas Company, as an Offset Operator, has been duly advised by Phillips Petroleum Company of their proposal to dually complete the James-E Well No. 1 (Unit G), Section 11, T-22-S, R-30-E, Eddy County, New Mexico, in the Cabin Lake (Morrow) and (Strawn)-Gas Pools, in a conventional tubing/tubing completion procedure.

We hereby waive any and all objections to this proposal of the conventional tubing/tubing dual completion of Phillips Petroleum Company's James-E Well No. 1 in the named pools.

TROPORO OIL & GAS COMPANY  
(Company)

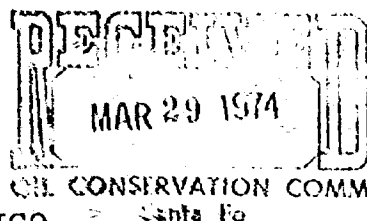
BY: 

TITLE: President

DATE: February 22, 1974

THMcL:rm

BEFORE THE  
OIL CONSERVATION COMMISSION OF NEW MEXICO



*Case 5224*

IN THE MATTER OF THE APPLICATION OF  
PHILLIPS PETROLEUM COMPANY FOR  
A MULTIPLE COMPLETION (Conventional)  
EDDY COUNTY, NEW MEXICO

A P P L I C A T I O N

COMES NOW PHILLIPS PETROLEUM COMPANY, and applies to  
the Oil Conservation Commission of New Mexico for approval  
of a Multiple Completion (Conventional) for its James  
"E" No. 1, located in Unit G, Section 11, Township 22 South,  
Range 30 East, N.M.P.M., Eddy County, New Mexico and in  
support thereof would show the Commission:

1. Applicant is the owner of the right to drill and  
develop the oil and gas minerals in the area involved  
in this application.

2. Applicant proposes to dually complete its James  
"E" No. 1 Well for Morrow production from the Cabin Lake  
Morrow Gas Pool and for Strawn production from the  
Cabin Lake-Strawn Oil Pool.

3. The Morrow production will be produced through  
2-7/8" O.D. Tubing from under a production packer set at  
13,200 feet with perforated intervals between 13,323 feet  
to 13,400 feet.

4. The Strawn production will be produced through  
2-3/8" O.D. Tubing from under a dual packer set at 11,002  
feet with perforated intervals between 12,214 feet to  
12,221 feet.

DOCKET MAILED  
Date 4-11-74

5. Applicant believes that the well dually completed as indicated above will recover oil and gas that would not otherwise be recovered, is in the best interest of conservation, would not damage the producing formations if completed as proposed and the correlative rights of no offset operators will be impaired.

WHEREFORE applicant prays that this application be set for hearing before the Commission's duly appointed examiner, and that after notice and hearing as required by law the Commission enter its order approving the application as prayed for.

Respectfully submitted:

PHILLIPS PETROLEUM COMPANY

By *W. F. Kellahin*  
KELLAHIN & FOX  
P. O. Box 1769  
Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

DRAFT

dr/

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. 5224

Order No. R-4781

APPLICATION OF PHILLIPS PETROLEUM COMPANY  
FOR A DUAL COMPLETION, EDDY COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on  
April 25, 1964, at Santa Fe, New Mexico, before Examiner  
Daniel S. Nutten.

NOW, on this May day of April, 1964, the Commission,  
a quorum being present, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Phillips Petroleum Company,  
seeks authority to complete its James "E"  
Well No. 1, located in Unit G of Section 11, Township

22 South Range 30 East, NMPM, Eddy County, New  
~~North~~ ~~xxxxxx~~ ~~xxxxx~~

Mexico, as a dual completion ~~(conventional)~~ ~~(combination)~~ ~~(tubingless)~~ to produce ~~gas~~ ~~xxxxxx~~

oil and gas from the Cabin Lake-Strawn Pool and  
gas from the ~~xxxxxx~~ ~~xxxxxx~~ ~~xxxxxx~~

Strawn and Morrow formations through parallel strings of tubing

Cabin Lake-Strawn Pool  
the Cabin Lake-Morrow Gas Pool through  
parallel strings of tubing

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Phillips Petroleum Company, is hereby authorized to complete its James "E" Well No. 1, located in Unit G of Section 11, Township

22 ~~North~~ <sup>South</sup> Range 30 ~~West~~ <sup>East</sup> NMPM, Eddy County, New

Mexico, as a dual completion <sup>(conventional)</sup> ~~(combination)~~ to produce ~~gas~~ <sup>oil and gas</sup> from the Cabin Lake Strawn Pool and gas ~~from the~~ <sup>Pool through</sup>

~~Strawn and Morrow formations through parallel strings of tubing.~~  
~~Cabin Lake Strawn and Cabin Lake-Morrow Gas Pools through~~  
~~parallel strings of tubing, with separation of the~~  
~~producing zones achieved by means of a~~  
~~jacker set at approximately 13,200 feet;~~

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

PROVIDED FURTHER, that the applicant shall take packer-leakage ~~zone segregation~~ tests upon completion and annually thereafter during the Annual ~~Gas-Oil Ratio~~ <sup>Shut in pressure</sup> Test Period for the Cabin Lake-Morrow Gas Pool. ~~Deliverability~~

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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