### CASE No. 4817

Application,

Transcripts,

Small Ekhibts

### 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 Phillips Petroleum Company for a dual completion, Eddy County, New Mexico.

CASE NO. 4817

BEOFRE: Daniel S. Nutter Examiner

TRANSCRIPT OF HEARING

## dearnley, meier & mc cormick

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209 SIMMS BLDG. P.O. BOX 1002-PHONE 245-6691-ALBUQUERQUE, NEW MEXICO 67103 1216 First national bank bldg. East-Albuquerque, new mexico 87108 MR. NUTTER: Case Number 4817.

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

MR. KELLAHIN: If the Examiner please, Thomas Kellahin, Kellahin and Fox, appearing for the Applicant.

I have one witness to be sworn.

\* \* \* \* \*

### W. J. MUELLE

was called as a witness and, having been duly sworn by law, testified as follows:

### DIRECT EXAMINATION

### BY MR. KELLAHIN:

- Q Would you state your name and position, please?
- A W. J. Muelle, senior petroleum engineer for Phillips
  Petroleum Company.
- Q Have you previously testified before this Examiner, or one of these hearings and had your qualifications as a senior engineer made a matter of record?
- A Yes.
- O Have you examined and are you familiar with the facts surrounding this Application?
- A Yes, I am.

MR. KELLAHIN: Mr. Examiner, are the witness' qualifications acceptable?

MR. NUTTUR: Yes, they are.

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(By Mr. Kellahin) Will you please state briefly what the Applicant is seeking by this Application? Phillips requests authority for the dual completion in the conventional manner of its Drag B Number 1 located in the South Carlsbad Field area, Eddy County, New Mexico. It is to be a gas-gas dual completion with the Morrow zone producing up the tubing from the packer and the lower zone producing from the casing-tubing Will you please refer to Applicant's Exhibit 1 and annulus.

identify it and state what it is?

Exhibit 1 is a New Mexico Oil Conservation form C-107, the Application for multiple completion. It gives the location of our well, the Drag B Number 1, located in Unit K, Section 18, 23 South, 27 East, Eddy County, New Mexico. It shows the upper zone of the multiple completion to be an undesignated Canyon interval, the bottom of the pay section is 10,280 to 10,300. lower zone is the South Carlsbad Morrow with the top of 11,468 feet and the bottom pay of 11,721 feet. Will you please refer to Exhibit 2 and indicate what

Ü information it contains?

Exhibit 2, I believe, is the plat of the area. plat is color coded as to the current completions, that exhibits all the wells surrounding ours in a ten

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mile radius here. The well in this hearing is the well located in the S/2 of Section 18 designated by a blue arrow on the plat. It shows, in going through the color coding of this plat, we see that there are currently three undesignated Canyon completions that have been filed in this area. Ours, the Drag B Well, Grace Oil Company has filed one in the N/2 of Section 11, 23 South, 26 East; Mr. Antweil has recently filed one in Section 21 of 27 East, 22 South. other color coded wells here are those that are the Carlsbad South Morrow producing wells. Our brown colored well located up there in Section 15 in the far NE part of the plat is a Carlsbad Permo Penn. completion. It was completed back prior to 1972, I believe; and the other field shown on here is the Hackberry Hills Canyon Field in Section 22 of 26 East, 22 Couth. This well is operated by Read and Stevens now, but it was drilled as a Sinclair Hackberry-Hills well.

Q Have you referred to what has been marked as Exhibit
3?

Exhibit 3 is a cross-section which was designated on Exhibit 2 by the orange line labeled A- A'. Located here on this cross-section on the far right hand side is a Phillips Drag B Number 1. It shows that the

### dearnley, meier & mc cormick

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209 SINIMS BLDG. # P.O. BCX 1092 # PHONE 243-4691 \* ALBUQUERQUE, NEW MEXICO 87103 12.9 First national bank bldg. East \* Albuquerque, new mexico 87108 correlative intervals currently perforated in the Drag B Number 1 are the blue zone, or Canyon by our designation, and the red zone, or Morrow sand. upper zone, the undesignated Canyon there, this well is traced by the cross-sections first to the north offset, or Drag A Number 1 and you can see by the cross-section it is shaled out and not present in the Drag A Number 1. Our cross-section then carries it NW into the Pennzoil-Echols well in the S/2 of Section 12, Township 23 South, Range 26 East, I believe. Then, you can see that the Canyon zone there is evident in about a 17 foot stringer there, but it appears tight there on the log. The next log on the cross-section is the Pennzoil-Mobile Federal in the N/2 of Section 12, and the Canyon zone is very evident there with a 30 foot lime zone developed. That zone did drill some tests by Pennzoil at the rate of 10,000,000 a day. Now, they did subsequently choose to complete the well as a gas/gas dual in the Atoka zone. They are not currently completed.

MR, NUTTER: Looking at these, they could have a well there, bowever?

THE WITTLES: Yes, could.

Our cross-section then goes straight north into the Superior Colette well which is a single Strawn

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completion and, again, the Canyon zone appears completely shaled out and not present. Our crosssection takes us, however, to the Hackberry-Hills Canyon gas field and you see where in the very correlative zone that currently is recognized in the producing field in this area as having the Canyon designation. This cross-section shows the perforations initial potential, calculated open flow, and completion dates at the bottom of each of the logs. cross-section shows the perforation's initial potential calculated open flow and completion dates at the bottom of each of the logs.

MR. NUTTER: And that Hackberry-Hills well, that has a calculated open flow of 14,000,000 from the Canyon, is that correct?

Yes, sir. THE WITNESS:

And what was the CAOF on your well MR. NUTTER:

on your Drag B 1? Our Canyon was 14,672,000 and our THE WITNESS: Morrow was 18,176,000.

- Please refer to what has been (By Mr. Kellahin) marked as Exhibit 4 and state what information it contains?
- Exhibit 4 is a Schlumber Borchole Compensated sonic log on our Brag B Number 1. It's a log from surface I.

to total depth with all the tops and geological markers on it. Also marked on this log is the upper set of perforations in the Canyon at 10,280 feet to 10,300, colored blue, as with the cross-section in the area plat. It shows the location of our Baker Production Packer set at 11,380. It shows the top of the Morrow sand zones, the top of the Morrow here is 11,428 and our top perforation being at 11,468, and shows the formation on through the Morrow zone.

- Q Refer to what has been marked as Exhibit 5 and explain what information it contains.
  - Exhibit 5 is some detail engineer's data relative to two separate zones of supply in this well. It shows the upper completion zone to be the Canyon, the interval to be 10,280 feet to 10,300 feet; a shut-in surface pressure of 4,887.2 PSI; and a shut-in bottomhole pressure of 6,076.4. It shows the calculated open flow potential to be 14,672,000 with a gas-liquid ratio of 31 MCF per barrel. The gas analysis data sample was caught at a trap pressure of 800 PSI at 132 degrees Farenheit. It shows our methane content as 86.65, ethane at 8.40, propane at 2.39, butane at 1.05, and pentane at 0.26. The G.P.M. of propane plus was 1.115; the B.T.O. per cubic foot was 1,111; the specific gravity was 0.649.

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The lower zone, Morrow, was completed at an interval of 11,468 feet to 11,721 feet at a shut-in pressure of 4,264.2, or relatively 600 pounds less than the shut-in surface of the Canyon. The calculated shut-in bottom-hole pressure was 5,339, or 600 pounds less than the Canyon; there was a calculated absolute open flow of 18,176,000 and the gas-liquid ratio was dry. This is also characterized by the gas analysis of the lower zone being higher in methane content at 95.77, ethane only 2.71, a G.P.M. of 0.444, and the lower B.T.U. of 1,038; specific gravity was 0.580. Please refer to Exhibit 6, identify it, and explain what information it contains? Exhibit 6 is a diagrammatic sketch of this well in its completion, showing all surface strings, their setting depth, and the cement used, tops of the cement behind the surface strings. It shows the Canyon zone perforations, the methods of isolating the two zones, the Baker Model F-1 Packer, our two and one-half tubing string and the equipment located in it, the Morrow zone completion, and the plug BTD. This is a conventional completion, then? Yes, sir. Does it insure separation between the two zones of production so that there is no communication?

. ;	1 A Yes, sir.
	please refer to Exhibit,
	information it contains.  information it contains.  Exhibit 7 is a United States Department of Interior  Exhibit 7 is a United States Department of Interior  form on which, this being a federal lease, our form is  form on which, this being a federal lease, our form is
	form on which, this nerve This was the pressure  on file with the USGS forms. This was the pressure
mick	test of the casing and tank
s mc cormick	actual completion. In sing into the well at 6,500
neier &	we latched the
dearnley, meier	pressured the tubing casing annulus to pressured the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing a half hour and then we also pressure tested the tubing the hour and the hour and the hour and the hour also pressure tested the tubing the hour and the h
dea	and the casing that would be tubing, perforated
	our Canyon Low and the casing below on
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	contains.
	And will you refer to Txhibit 9 and indicate what
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Exhibit 9 is a New Mexico Oil Conservation Commission multipoint and one point back pressure test for gas wells. It shows the undesignated Canyon, it shows the absolute calculated open flow of 14,672,000. It details the gas-liquid ratio and it gives the various flow rates from which we derive the absolute open flow.  Based on these Exhibits and your testimony, is it your testimony that approval of this Application will preserve waste and not impair correlative rights of
others?  A Yes.  Q Were Exhibits 1 through 9 prepared by you or under your
direction?  A Yes, sir.  MR. KELLAHIN: Mr. Examiner, I move the introduction
of Exhibits 1 through 9.  MR. NUTTER: Applicant's Exhibits 1 through 9
will be admitted into evidence.  (Whereupon, Applicant's Exhibits 1 through 9 were marked and admitted into evidence.)  MR. KELLAHIN: The Applicant has nothing further
on Direct Examination.  CROSS-EXAMINATION
BY MR. NUTTER:  Q You make a little bit of liquids there in the Canyon?  Q

right?  A Right.  Do you anticipate you producing these liquid  Not on testing, it ind  be a very satisfactory  What was the actual conditions  It hink it was 22 bars  testing there on the satisfactory  And the quantity of grant actual quantity,  I don't know if this produced.	at all from the Morrow, is this will have any problem at all in s from the Canyon to the annulus? icates no problem. It should completion. ondensate production on your test?
A Not on test as of yet.  And there is no liquids right?  A Right.  Do you anticipate you producing these liquid here a very satisfactory.  What was the actual condition of the state of the guantity of grant testing there on the state of t	will have any problem at all in s from the Canyon to the annulus? icates no problem. It should completion.
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testing there on the  And the quantity of g  The actual quantity,  I don't know if this  produced.  I understand that Phi to take the gas from	rels during the four hours of
14 Q And the quantity of g  15 A The actual quantity,  16 I don't know if this produced.  17 Q I understand that Philotoptake the gas from	our one-hour flowings.
The actual quantity,  I don't know if this  produced.  I understand that Phi to take the gas from	as produced was what?
I don't know if this  produced.  I understand that Phi to take the gas from	it was at various rates, but
produced.  18 \Q I understand that Phi to take the gas from	form details the actual quantity
18 Ω I understand that Phi to take the gas from	
to take the gas from	allips is contracted with El Paso
2	this?
20 A Yes.	
yayo they actually b	our connected?
A No, connection date	gen comes
of the month.	should be sometime before the end
F 1	should be sometime before the end
witness?	should be sometime before the end

	2	MR. NUTTER: He may be excused.
ŎĴ.	3	(Witness excused.)
	4	MR. NUTTER: Do you have anything further,
	5	Mr. Kellahin?
	6	MR. KELLAHIN: No sir.
dearnley, meier & mc cormick	7	MR. NUTTER: Does anyone have anything to offer
COL	8	in Case Number 4817?
)E	9	(No response.)
ë. 8	10	MR. NUTTER: We will take the case under advisement
, me	11	and call Case Number 4818.
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(No response.)

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

PAGE

ADMITTED

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# dearnley, meier & mc cormick reasons and service

WITNESS:

 $\underline{\underline{E}} \ \underline{\underline{X}} \ \underline{\underline{H}} \ \underline{\underline{I}} \ \underline{\underline{B}} \ \underline{\underline{I}} \ \underline{\underline{T}} \ \underline{\underline{S}}$ APPLICANT'S: OFFERED Phillips Petroleum Company Exhibit Number 1 Exhibit Number 2 Exhibit Number 3 Exhibit Number 4 Exhibit Number 5 Exhibit Number 6 Exhibit Number 7 Exhibit Number 8 Exhibit Number 9 

W. J. MUELLE

Direct Examination by Mr. Kellahin

Cross-Examination by Mr. Nutter

MMS DECOG. • P.O. BOX 1092 • PRONE 243-6691• • AEBUQUERQUE. NEW MEXICO 67103 110 pirst national bank beoof. East\* Aebuquerque, new mexico 67108



### OIL CONSERVATION COMMISSION

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

September 19, 1972

GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

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

Re: Case No. 4817
Order No. R-4396
Applicant:

Phillips Petroleum Company

Dear Sir:

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

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC x

Artesia OCC x

Aztec OCC

### 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. 4817 Order No. R-4396

APPLICATION OF PHILLIPS PETROLEUM CORPORATION 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 September 13, 1972, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 18th day of September, 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, Phillips Petroleum Company, seeks authority to complete its Drag "B" Well No. 1, located in Unit K of Section 18, Township 23 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Canyon gas pool through the casing-tubing annulus and from the South Carlsbad-Morrow Gas Pool through 2 7/8-inch tubing with separation of zones by a packer set at approximately 11,380 feet.
- (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 Drag "B" Well No. 1, located in Unit K of Section 18, Township 23 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to

-2-CASE NO. 4817 Order No. R-4396

produce gas from an undesignated Canyon gas pool through the casing-tubing annulus and from the South Carlsbad-Morrow Gas Pool through 2 7/8-inch tubing with separation of zones by a packer set at approximately 11,380 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 tests upon completion and annually thereafter during the Annual Shut-in Test Period for the South Carlsbad-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 herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

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

SEAL

### 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.

### 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 011 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 well.

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

Examiner Hearing - Wednesday - September 13, 1972

(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, Justia 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 Petroleum 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

-5-

authority to drill a gas well at an off-pattern unorthodox location (Case 4827 continued from Page 4) 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

Application of Inexco Oil Company for a dual completion, Eddy County, Application of inexco of company for a qual completion, Edgy 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 Courth and West lines of Section 18 Toronthia 21 courth and West lines of Section 18 to the well. tne dual completion of 118 MCMINN State well No. 1 located 1900 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 CASE 4828: the Strawn formation and the Morrow formation adjacent to the Catclaw Draw-Morrow Gas Pool.

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

Form C-107 5-1-61

Phillips Petroleum Companddress  Room 711, Phillips Buildi		T	August 10, 1972
		<b>Eddy</b> ase	Well No.
		Drag-B	1
ocation Unit	tion Townshi		Range
of Well	18	2 <b>3</b> -S	27-E
Has the New Mexico Oil Conservation		<del></del>	oletion of a well in these same pools or in the
zones within one mile of the subject If answer is yes, identify one such in	well? YESNO	X	ease, and Well No.:
The following facts are submitted:	Upper	Intermed	diara
	Zone	Zon	220 1101
a. Name of Pool and Formation	Undesignated - Canyon		Carlsbad, So. Morrow-
b. Top and Bottom of	top 10,280'		top 11,468'
Pay Section	bottom 10,300'		bottom 11,721'
(Perforations)			
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production			
(Flowing or Artificial Lift)  The following are attached. (Please	Flowing		Flowing
tors have been furnis	shed copies of the application.	m each offset operator,	or in lieu thercof, evidence that said offset
tors have been furnis  d. Electrical log of the dicated thereon. (If s	o such multiple completion from shed copies of the application. well or other acceptable log well or other acceptable at the t	m each offset operator,  with tops and bottoms of time application is file	of producing zones and intervals of perforati d it shall be submitted as provided by Rule 1
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\*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 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

DRAG "B" NO. 1
UNIT K, SECTION 18, T-23-S, R-27-E
EDDY COUNTY, NEW MEXICO
CARLSBAD, SOUTH, FIELD

Completion Zone	Upper	_
Formation		Lower
Completion Interval	Canyon	Morrow
Shut-In Surface Pressure (psia)	10,280'-300'	11,4681-7211
Calculated Shut-In B.H.P. (psia)	4,887.2	4,264.2
Calculated A.O.F. (Mcf at 15.025)	6,076.4	5,339.0
	14,672	18,176
Gas-Liquid Ratio (Mcf/barrel)	31	Dry

Gas Analysis Data		
Trap	800 psi at 132° F.	410
Mol 8:	1 at 1)2 1.	640 psi at 150° F.
Methane Ethane Propane Butane Pentane G.P.M. of Propane Plus B.T.U./Cubic Ft. Specific Gravity	86.65 8.48 2.39 1.05 0.26 1.115 1,111	95.77 2.71 0.76 0.38 0.15 0.444 1,038

DASAND HARD PAINTS TO STUDY THE NO. 5

DASAND Phillips

Herming Date 13 5-372

138 CASING SET CMTD. W/425 SX. CLA /4# FLOCELE/SX. CIRC. 138 CASING CENT AT 291', 330', 360'	ALIZERS  TOC. 1900'  BEFORE EXAMINER NUTTER
85 CASING SET A CMTD. W/1300 SX. TH GILSONITE/SX. AND 2 TEMP. SURVEY-TOC	OIL CONSERVATION COMMISSION  EXHIBIT NO. 6  CASE NO. 4617  Submitted by Phillis  Hearing Date 13 Sep 72  5450' W. W/3# SO SX. CLASS H
85" CASING CEN 5380'; 5413'; 5 85" SCRATCHER 5430'-544	RALIZERS AT
5½ CASING SET CRITD, W/550 SX. C W/60 SX. TEMP 5½ CASING CET 10,760 (10,32 10,670 (11,74 11,892 (11,95	PACKER AT 11,380'  AT 12,041'  ASS H W/34% CFR-2  ORVEY TOC TOO'  TEALLIZERS AT  PACKER AT 11,380'  CANYON ZONE - SELECTIVE PERFORATION  2 JET SHOTS/FT. 10,280' - 10,300'  TEALLIZERS AT
52 SCRANTCHE 10 200-70 10 50-20 10 200-70 150-60 11, 130-40 , 12800-70 NO.	MORZOW ZONE - SELECTIVE PERFORATION  ZJET SHATS / FT. 11.468 - T8': 11.668'- T4';  11.950-65'  REVISION  BY DATE CHKD APP'D  AFE NO. FILE COD
FOR APPR FOR CONST  DESIGN  DRAWN CHECKED  APP'D	BARTLESVILLE, OXLAHOMA  BARTLESVILLE, OXLAHOMA  SCALE NC \ SECIE \ NC \ SECIE \ NC \ SECIE \ NC \ SECIE \ NC \ N

FORM 1779 12-71

PRINTED IN U.S.A.

Form 9-331 (May 1963)	DEPART	UNITED STAT MENT OF THE SEOLOGICAL SE	INTERIO	SUBMIT IN TRIPLICA' (Office Instructions on verse side)	re- 5. ι.ε		oved, reau No. 42-R1424, IN AND SERIAL NO.
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### INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any decessory special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific lustructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachmentes them 22 and 24: If this well is completed for separate production from more than one interval cone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data per inent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the locati

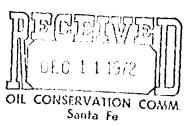
ivem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

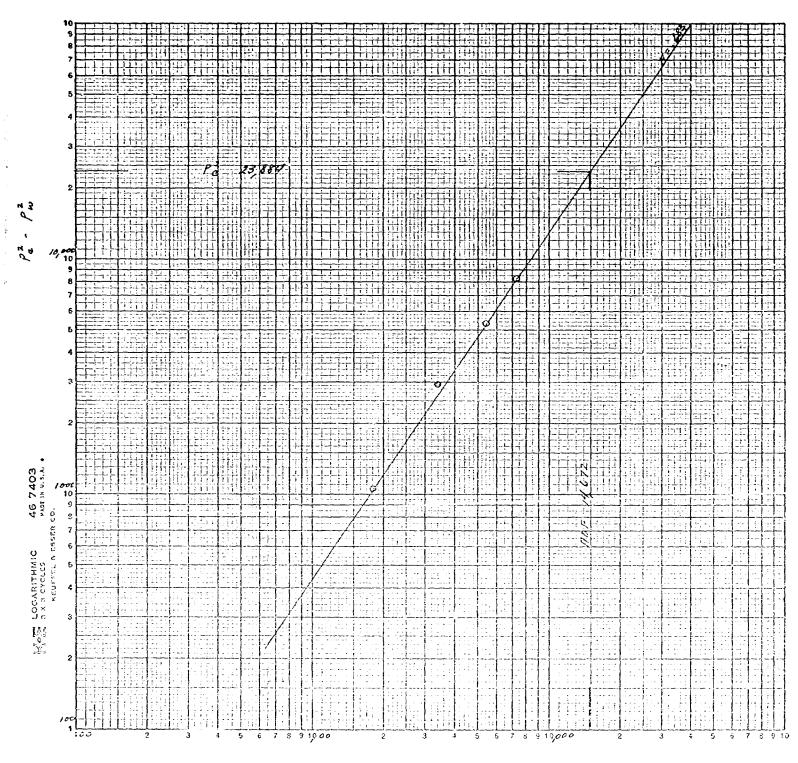
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Phillips Petroleum Company
Drag - B Well No. 1
Undesignated - Canyon
Sec. 18, T-23-S, R-27-E
Eddy County, New Mexico





KELLAHIN AND FO ATTORNEYS AT LAWOIL COMBUNING THE SOO DON GASPAR AVENUE POST OFFICE BOX 1769 Santa Fa

JASON W. KELLAHIN ROBERT E.FOX W.THOMAS KELLAHIN

SANTA FE, NEW MEXICO 87501 August 14, 1972

TELEPHONE 982-4315 AREA CODE 505

Par 4817

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

### Gentlemen:

Enclosed in triplicate is the application of Phillips Petroleum Company for approval of a multiple completion, Eddy County, New Mexico. It is our understanding that this application will be set for hearing September 13.

Yours very truly,

Jason W. Kellahin

JWK:brs

Enclosure: as stated

DEDERET ROLL

### BEFORE THE

### OIL CONSERVATION COMMISSION OF NEW MEXICO

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

Care 4817

### APPLICATION

Comes now Phillips Petroleum Company and applies to the Oil Conservation Commission of New Mexico for approval of the multiple completion of its Drag "B" Well No. 1, located in Unit K, Section 18, Township 23 South, Range 27 East, N.M.P.M., Eddy County, New Mexico, and in support thereof would show the Commission:

- 1. Applicant is the owner and operator of the above well, located as herein specified.
- 2. Applicant proposes to dually complete said well for the production of gas from the Carlsbad, South, Morrow Pool, from Morrow perforated intervals between 11,468 feet and 11,721 feet, and from an undesignated Canyon Pool from Canyon perforations, 10,280 feet to 10,300 feet.
- 3. The well will be completed for the production of the Morrow gas through tubing, from under a production packer to be set at approximately 11,380 feet. The Canyon Pool gas will be produced through the casing-tubing annulus.
- 4. The dual completion is in the interests of conservation, will result in the recovery of gas that would not otherwise be recovered, and the producing formations will not be damaged in making the completion proposed.

WHEREFORE applicant prays that this application be set

for hearing before the Commission or 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 Ason W. Kellahin & FOX
P. O. Box 1769
Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

expedite



GMH/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. 4817 Order No. R-4396 APPLICATION OF PHILLIPS PETROLEUM CORPORATION 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 September 13 , 1902 , at Santa Fe, New Mexico, before Examiner Daniel S. Nutter . NOW, on this <u>day of September</u>, 19672, 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 Drag "B" Well Well No. \_\_\_\_\_, located in Unit K of Section 18 , Township 23 South, Range 27 East, NMPM, Eddy County, New West (conventional) Mexico, as a dual completion (combination) to produce gas (cubingless)~ from the South Carlsbad-Morrow Gas Pool through tubing and an undesignated Canyon gas pool through the casing-tubing annulus from the South Carlobad - marrow Har Poul through 2 1/8 inch tuber with separating gover by a poche set at approximately 11,380 facts

- (3) That the mechanics of the proposed <u>dual</u> 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 itsDrag "B"
Well No. $\frac{1}{1}$ , located in Unit $\frac{K}{1}$ of Section $\frac{18}{1}$ , Township
23 South Range 27 East NMPM, Eddy County, New
(conventional) xxxx  Mexico, as a <u>dual</u> completion <del>(combination)</del> to produce gas <del>(tubingless)</del>
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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 Cas Oil Ratio Test Period for the Second Carlot - Manager Pool. Deliverability

sone segregation

(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.

