

CASE 5247: Appli. of CHAMPLIN  
PETROLEUM FOR A DUAL COMPLETION,  
EDDY COUNTY, NEW MEXICO.

CASE No.

5247

---

Application,

Transcripts,

Small Exhibits

ETC.

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.

Richard E. Hall  
COURT REPORTER

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 5247,  
heard by me on 5/22, 1974.  
Richard L. Stamm, Examiner  
New Mexico Oil Conservation Commission

**THE NYE REPORTING SERVICE**  
STATE-WIDE DEPOSITION NOTARIES  
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BALCH-CROSS

Page.....10.....

You may be excused.

(Witness dismissed.)

MR. STAMETS: Is there anything further in  
this case?

We will take the case under advisement.

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correct?

A Yes.

Q And that would be an exception to the Commission's Rule 107 which requires that tubing be set within 250 feet of the perforation?

A That is correct.

MR. TOM KELLAHIN: Mr. Examiner, we would like an exception to that Order, if you please.

BY MR. STAMETS:

Q The situation you have there is essentially no different than having the Morrow gas flow from this crossover assembly all the way to the surface in the annulus?

A That's right.

Q This is not a waste-producing situation?

A No, sir. The same situation all the way up.

Q And you would anticipate a typical dual completion order with the packer leakage test requirements and so on?

A Yes, sir. The packer leakage test we have supplied here might supply us with --

Q (Interrupting) As an initial test?

A Yes, sir.

MR. STAMETS: Are there any other questions of this witness?

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shut-in pressure as 5135 PSIG and the Strawn at 4977. That is a difference of 158 pounds.

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

A Yes, sir.

Q Were Exhibits 1 through 6 prepared under your supervision and direction?

A Yes, sir.

MR. TOM KELLAHIN: We move the introduction of Exhibits 1 through 6.

MR. STAMETS: Exhibits 1 through 6 will be admitted into evidence.

(Whereupon, Applicant's Exhibits Nos. 1 through 6 were marked for identification, offered and admitted into evidence.)

MR. TOM KELLAHIN: That concludes our direct examination.

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Balch, I note on Exhibit No. 3 that the bottom of the tubing string appears to be 11,204 feet and the Morrow perforations are 11,757 feet. Is this

BALCH-DIRECT

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(Reporter's note: Page 7 inadvertently  
skipped in transcription; text of  
deposition is intact.)

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10,608. The two sands are separated by a packer which is set in a receptacle in the liner at 11,193, the top packer which is set at 10,415 feet. The zones will be produced through a cross-over tool in the upper packer which will permit production of the Lower Morrow through the annulus and the Strawn through the tubing. The reason for that is that the Strawn does have some liquid content in the gas, approximately 45 barrels per million. The Morrow is dry gas.

Q Please refer to Exhibit 4?

A Exhibit 4 is the State Form C-122 which is the open flow potential form and attached graph which shows the Morrow open flow potential to be 8918 MCF per day.

Q Please refer to Exhibit 5 and identify that?

A Exhibit 5 is the same Form showing the Strawn open flow potential to be 2490 MCF a day.

Q Please refer to Exhibit 6?

A Exhibit 6 is the packer leakage test that we ran on these two zones which does show positive separation of the two wellbore fluids. I might point out that the surface pressure difference between the two is about 200 pounds. The reservoir shut-in difference is about 160 pounds. Respectively, we are estimating the Morrow



BALCH-DIRECT

Page..... 5.....

BY MR. TOM KELLAHIN:

Q Would you please look at Exhibit 1, which is your Application there?

A Yes, sir.

Q Would you please identify it and state briefly what Champlin is seeking?

A Exhibit 1 is State Form C-107 which is Champlin's Application to dually complete our Pecos Federal No. 1 as a Morrow-Strawn gas dual completion. The subject well is located in the northeast northwest of Section 1, Township 22 South, 27 East.

Q Please refer to what has been marked as Exhibit 2 and identify it?

A Exhibit 2 is a land plat showing the well location in the south portion of the plat. It also shows one additional offset well to the west which is Champlin's Nix-Yates Well. These are the only wells in the immediate area. The Nix-Yates Well has not been completed as yet.

Q Please refer to and identify Exhibit No. 3.

A Exhibit 3 is a diagram of the wellbore of the subject well showing the equipment and completion of the well. The Morrow is perforated from 11,757 feet to 11,772 feet. The Strawn perforation is from 10,580 to

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this Commission?

A No, sir, I have not.

Q For the benefit of the Examiner, will you state your educational background and your employment experience?

A I was graduated from the University of Tulsa in 1955 with a Bachelor of Science in Petroleum Engineering. I have worked since that time as a Petroleum Engineer, since 1956 with Champlin Petroleum Company in various engineering capacities of District and Division Engineers and Senior Area Engineer, and since 1971, in my present position.

Q Are you familiar with Morrow and Strawn production in Eddy County, New Mexico?

A Yes, sir, I am.

Q Are you familiar with the type of dual completions proposed in this Application?

A Yes, sir.

Q Are you familiar with the facts surrounding this particular application?

A I am.

MR. TOM KELLAHIN: Are the witness' qualifications as an expert accepted?

MR. STAMETS: They are.

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MR. STAMETS: Case 5247.

MR. CARR: Case 5247. Application of Champlin Petroleum Company for a dual completion, Eddy County, New Mexico.

MR. TOM KELLAHIN: Tom Kellahin, Kellahin and Fox, Santa Fe, New Mexico, appearing on behalf of the Applicant, Champlin Petroleum Company, and I have one witness to be sworn.

MR. STAMETS: Are there any other appearances in this case?

Will the witness stand and be sworn?

EMMET H. BALCH, JR.

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 Emmet Balch. I am employed by Champlin Petroleum Company as Superintendent of Proration and Unit Operations in the headquarters office in Fort Worth, Texas.

Q Mr. Balch, have you previously testified before

I N D E X

EMMET H. BALCH, JR.  
Direct Examination by Mr. Tom Kellahin  
Cross Examination by Mr. Stamets

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E X H I B I T S

Applicant's Exhibits Nos. 1 through 6

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

May 22, 1974

EXAMINER HEARING

IN THE MATTER OF:

Application of Champlin  
Petroleum Company for a dual  
completion, Eddy County,  
New Mexico.

Case No. 5247

BEFORE: Richard L. Stamets, Examiner

For 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

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# 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**

**June 4, 1974**

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

Re: CASE NO. 5247  
ORDER NO. R-4806  
Applicant:  
Champlin Petroleum Company

Dear Sir:

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

Very truly yours,

A. L. Porter, Jr.  
A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC	<u>X</u>
Artesia OCC	<u>X</u>
Aztec OCC	<u></u>

Other \_\_\_\_\_

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE NO. 5247  
Order No. R-4806

APPLICATION OF CHAMPLIN 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 May 22, 1974,  
at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

NOW, on this 4th day of June, 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, Champlin Petroleum Company, seeks  
authority to complete its Pecos Federal Well No. 1, located  
in Unit C of Section 1, Township 22 South, Range 27 East,  
Eddy County, New Mexico, in such a manner as to produce gas  
from an undesignated Strawn gas pool and gas from an undesignated  
Morrow gas pool through 2 7/8-inch tubing and the casing-tubing  
annulus, respectively, by means of a crossover assembly.
- (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, Champlin Petroleum Company, is  
hereby authorized to complete its Pecos Federal Well No. 1,  
located in Unit C of Section 1, Township 22 South, Range 27  
East, Eddy County, New Mexico, as a dual completion to produce  
gas from an undesignated Strawn gas pool and from an undesignated  
Morrow gas pool.

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Case No. 5247  
Order No. R-4806

(2) That production from the Morrow formation shall be through 2 7/8-inch tubing set in a seal assembly located at approximately 11,193 feet, above the Morrow perforations, and thence, by means of a crossover assembly, through the casing-tubing annulus to the surface. Production from the Strawn formation shall be through the casing-tubing annulus and thence, by means of a crossover assembly, through the 2 7/8-inch tubing to the surface. The crossover assembly shall be set in a packer located above the Strawn perforations at approximately 10,415 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 the provisions of 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 gas pools in Southeast New Mexico.

(3) 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



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

ALEX J. ARMIJO, Member

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

S F A L

dr/



5247 Dual OK  
und Strawn und Morrow

Conventional - Cross over assembly

Case 5247

(Form C-121)  
(Revised 7/1/52)

REQUEST FOR THE EXTENSION OF AN EXISTING POOL

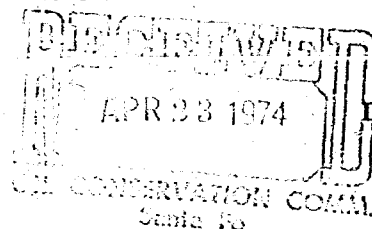
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OR

THE CREATION OF A NEW POOL

APR 22 1974

TO: The Oil Conservation Commission  
State of New Mexico



O. C. C.  
ARTESIA, OFFICE

Date April 10, 1974

The Champlin Petroleum Company  
Name of Operator

Pecos Federal  
Name of Lease

1 Located 1980 feet from the West line and 660 feet  
Well No.  
from the North line of 1 Section 22S 27E  
Range

is outside the boundaries of any pool producing from the same formation. On the basis of the information submitted here-  
with on form C-105, we hereby request that the

pool be extended to include the following described area

or that a new pool be created to include the following described area Section 1 & 2 T-22-S, R-27-E &

Sections 35 & 36, T-21-S, R-27-E

Suggested name: East Carlsbad (Morrow)

Champlin Petroleum Company  
Operator

Name of Producing Formation: Morrow

Walter M. Randolph  
Representative District Clerk

Case 5247

(Form C-12)  
(Revised 7/1/52)

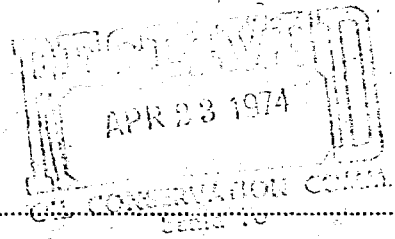
REQUEST FOR THE EXTENSION OF AN EXISTING POOL  
OR  
THE CREATION OF A NEW POOL

APR 24 1974

D. C. C.  
ARTESIA, OFFICE

TO: The Oil Conservation Commission  
State of New Mexico

Date April 10, 1974



The Champlin Petroleum Company  
Name of Operator

Pecos Federal  
Name of Lease

1 Located 1980 feet from the West line and 660 feet  
Well No.  
from the North line of 1 Section 22S Township 27E Range

is outside the boundaries of any pool producing from the same formation. On the basis of the information submitted here-  
with on form C-105, we hereby request that the  
pool be extended to include the following described area.

or that a new pool be created to include the following described area. Section 1 & 2 T-22-S, R-27-E &  
Sections 35 & 36, T-21-S, R-27-E

Suggested name: East Carlsbad (Strawn)

Champlin Petroleum Company  
Operator

Name of Producing Formation: Strawn

Walter M. Randolph  
Representative District Clerk

Dockets Nos. 15-74 and 16-74 are tentatively set for hearing on June 5 and June 19. Application for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 22, 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 25, 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 5240: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Burwinkle and Scanlon and Husky Energy, Inc. and The Employers' Fire Insurance Company and all other interested parties to appear and show cause why the following wells located in Section 28, Township 20 North, Range 9 West, McKinley County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

Ohwell Wells Nos. 1, 2, 3, 5, 8, and 39 in Unit C; Ohwell Wells Nos. 9, 10, 11, 12, and 13 in Unit A; and Jaco State Well No. 104 in Unit G.

CASE 5241: Application of Depco, Inc. for an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Order No. R-1670-H, approval for the unorthodox location of a well to be drilled 1325 feet from the North and East lines of Section 3, Township 15 South, Range 27 East, Buffalo-Pennsylvanian Gas Pool, Chaves County, New Mexico.

CASE 5242: Application of Penroc Oil Corporation for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Allied-Com Well No. 1 located in Unit B of Section 27, Township 20 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce undesignated Wolfcamp gas through the tubing and undesignated Morrow gas through the annulus by means of a cross-over assembly.

CASE 5243: Application of Continental Oil Company for special gas-oil ratio, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a special gas-oil ratio limitation of 10,000 cubic feet of gas per barrel of oil for the Weir-Drinkard Oil Pool, Lea County, New Mexico.

- CASE 5248: Application of Cities Service Oil Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Tracy "A" Com Well No. 1 located in Unit C of Section 33, Township 21 South, Range 27 East, in such a manner as to produce undesignated Strawn gas through the tubing and undesignated Morrow gas through the annulus by means of a cross-over assembly.
- CASE 5244: Application of El Paso Natural Gas Company for a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the tubingless dual completion of its Hubbell Well No. 14 located in Unit G of Section 18, Township 29 North, Range 10 West, San Juan County, New Mexico, in such a manner as to produce Aztec-Fruitland and undesignated Chacta gas through parallel strings of 2 7/8-inch casing cemented in a common wellbore.
- CASE 5245: Application of Texaco Inc. for a tubingless quadruple completion and downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the quadruple completion of its C. H. Weir "A" Well No. 8 located in Unit F of Section 12, Township 20 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce Skaggs-Glorieta, East Weir-Blinebry, East Weir-Tubb, and Skaggs-Drinkard production through three parallel strings of 2 7/8-inch casing cemented in a common wellbore with the East Weir-Blinebry and the Skaggs-Drinkard production commingled and produced through a single string of casing.
- CASE 5246: Application of Tenneco Oil Company for pressure maintenance expansion and dual completions, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks approval for the expansion of its South Hospah Lower Sand Pressure Maintenance Project, South Hospah Field, McKinley County, New Mexico, by the dual completion of its Hospah Well No. 41 located five feet from the North line and 1650 feet from the East line and its Hospah Well No. 56, located 1100 feet from the North line and 1275 feet from the East line, both in Section 12, Township 17 North, Range 9 West, to permit injection of water into the Lower Sand as well as the Upper Sand as presently authorized.
- CASE 5247: Application of Champlin 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 Pecos Federal Well No. 1 located in Unit C of Section 1, Township 22 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce undesignated Strawn gas through the tubing and undesignated Morrow gas through the annulus by means of a cross-over assembly.

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

Form C-107  
5-1-61

*Case 5247*

Operator <b>Champlin Petroleum Company</b>		County <b>Eddy</b>	Date <b>April 18, 1974</b>
Address <b>701 Wilco Bldg. Midland, Texas 79701</b>		Lease <b>Pecos Federal</b>	Well No. <b>1</b>
Location of Well <b>C</b>	Unit <b>1</b>	Township <b>22 South</b>	Range <b>27 East</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>Strawn</b>		<b>Morrow</b>
b. Top and Bottom of Pay Section (Perforations)	<b>10,580</b>		<b>11,757</b>
	<b>10,608</b>		<b>11,772</b>
c. Type of production (Oil or Gas)	<b>Gas</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 checked="" 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.

**Richardson & Bass, Box 1178, Monahas, Texas 79756**

**Perry R. Bass, Box 1178, Monahans, Texas 79756**

RECEIVED

BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION <i>Champlin</i> EXHIBIT NO. <u>1</u> CASE NO. <u>5247</u> Submitted by _____ Hearing Date <u>22 May 74</u>
---

APR 22 1974

O. C. C.  
ARTESIA, OFFICE

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 **April 18, 1974**

CERTIFICATE: I, the undersigned, state that I am the **District Clerk** of the **Champlin Petroleum Co.** (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.

*Walter M. Randolph*  
Walter M. Randolph Signature

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

NOTE: If the proposed 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.



# Champlin Petroleum Company

PECOS FEDERAL No. 1  
Sec. 1 - T. 22 S - R. 27 E  
Eddy County, New Mexico

9 5/8", 36# Csg @ 2615'  
Cem. W/1400 sx. Lt. Wgt. & Class "C"  
Cement Circulated

13 3/8", 48# Csg @ 452'  
Cem. W/450 sx Class "C"  
Cem. Circulated

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

*Champlin* EXHIBIT NO. 3

CASE NO. 5247

Submitted by \_\_\_\_\_

Hearing Date 22 May 74

Top of Cem. by Bond Log @ 8597'

BAKER AR Packer W/Wireline  
Crossover Tool 10,415-423'

Strawn Perforations 10,492-  
10,503' Squeezed off W/200 sx  
Class "H" to 5200 #

7", 26# & 29# Csg. @ 11,397'  
Cem. W/550 Sx. Class "H"  
Centralized from 9160 to 11,380'

27/8", 6.5#, Seallock Tubing

3 11/16" Blast Joint in Tubing  
String from 10,573-10,614'

Strawn Perforations  
10,580-10,608'  
1 JSPF

*Brown Oil Tool Polished  
Bore reception and seal  
assembly - 15 ft long*

Polished Bore Receptacle on  
Top of Liner @ 11,193'

Bottom of Tbg. String @ 11,204'

OTIS WB Wireline Pkr. @ 11,550'  
W/Seating Nipples @ 11,562' & 11,573'  
Used for plugging off only

Morrow Perforations  
11,757-11,772'  
1 JSPF

5", 23# Liner @ 11,193-12,098'  
Cem. W/105 Sx. Class "H"

TD 12,100'

PBTD 11,910'



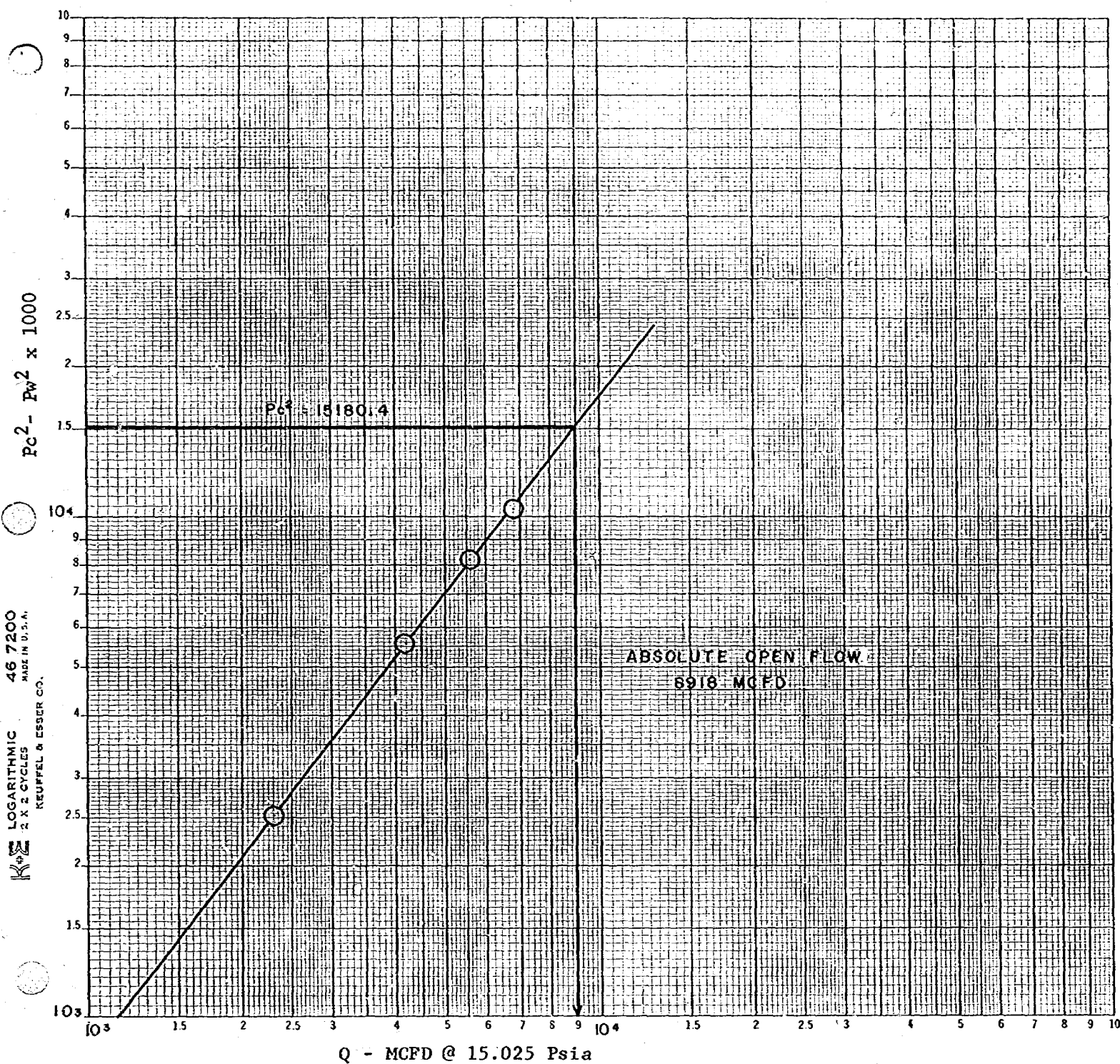
NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 3-26-74		APR 22 1974	
Company Champlin Petroleum Company			Connection None		
Pool Undesignated			Formation Morrow		
Completion Date 3-22-74		Total Depth 12,100		Plug Back TD 11,910	
		Elevation 3095 G. L.		Form or Lease Name Pecos-Federal	
Csg. Size 5" 5/8" Liner*	Wt. 23.0	d 6.184	Set At 11,397	Perforations: From 11,757 To 11,772	
Tbg. Size 2-7/8"	Wt. 6.50	d 2.441	Set At 11,204	Perforations: From                      To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas				Packer Set At 10,415 PBR @ 11,193	
Producing Thru Tbg-Csg Annulus		Reservoir Temp. °F 185 @ 11,765		Mean Annual Temp. °F 60 (E)	
				Baro. Press. - P <sub>a</sub> 13.2	
L 11,765		H 11,765		Prover Meter Run 4"	
		G <sub>g</sub> 0.596		Taps Flange	
FLOW DATA      TUBING DATA      CASING DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>
SI					
1.	4" x 2.25"			892	5.0"
2.	4" x 2.25"			904	16.0
3.	4" x 2.25"			905	28.0
4.	4" x 2.25"			910	41.0
5.					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>
1.	25.64	67.28	905.2	0.9697	1.295
2.	25.64	121.14	917.2	0.9777	1.295
3.	25.64	160.34	918.2	0.9822	1.295
4.	25.64	194.55	923.2	0.9822	1.295
5.					
NO.	R <sub>t</sub>	Temp. °R	T <sub>f</sub>	Z	Gas Liquid Hydrocarbon Ratio
1.					Dry Gas
2.					A.P.I. Gravity of Liquid Hydrocarbons
3.					Dry
4.					Specific Gravity Separator Gas
5.					0.596
					Specific Gravity Flowing Fluid
					X X X X X
					Dry Gas
					Critical Pressure
					671
					P.S.I.A.
					Critical Temperature
					357
					R
					R
$P_c = 3896.2$ $P_c^2 = 15180.4$					
NO.	P <sub>t</sub> <sup>2</sup>	** P <sub>w</sub> 31	R <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.846$
1.		3554.9	12637.3	2543.1	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.594$
2.		3096.2	9586.5	5593.9	
3.		2637.8	6958.0	8222.4	
4.		2184.3	4771.2	10409.2	
5.					
Absolute Open Flow 8918    Mcfd @ 15.025    Angle of Slope θ    Slope, n 0.761					
Remarks: *Combination flow string 7" 29# csg. x 2-7/8" 6.5# tbg. annulus 0-10415 2-7/8" 6.5# tbg. 10415-11204, 5" 23# csg. 11204-11765					
**P <sub>w</sub> calculated by time-share program using stepwise procedure.					
Approved By Commission:		Conducted By:		Checked By:	
		T. J. Ragan		J. K. Adair, Jr.	
				W. B. Johnston	

Champlin Petroleum Company  
Pecos Federal No. 1  
Unit C, Sec. 1-T22S-R27E  
Eddy County, New Mexico  
Morrow Perforations 11,757-11,772  
Date of Test: 3-26-74



$Q_1 = 8950 \text{ MCFD} \quad \text{Log} Q_1 \approx 3.95182$   
 $Q_2 = 1550 \text{ MCFD} \quad \text{Log} Q_2 \approx 3.19033$   
 $n = 0.761$

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

*Case 5247*

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 3-27-74		RECEIVED	
Company Champlin Petroleum Company		Connection None		APR 22 1974	
Pool Undesignated		Formation Strawn		Unit O. C. C.	
Completion Date 3-22-74		Total Depth 12,100	Plug Back TD 11,910	Elevation 3095 G. L.	Farm Name Pecos-Federal
Csg. Size 5" 7"	Wt. 23# 29#	d 4.044 6.184	Set At 12,098 11,297	Perforations: From 10,580 To 10,608	Well No. 1
Tbg. Size 2-7/8"	Wt. 6.5	d 2.441	Set At 11,204	Perforations: From To	Unit Sec. Twp. Rge. C 1 - 22S - 27E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas				Packer Set At 10,415 PBR @ 11,193	County Eddy
Producing Thru Tbg.	Reservoir Temp. °F 182	Mean Annual Temp. °F 60 (E)	Baro. Press. - P <sub>a</sub> 13.2	State New Mexico	
L 10,594	H 10,594	G <sub>g</sub> .669	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S
			Prover	Meter Run 4"	Taps Flange

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							4977	60	91 hr.
1.	4" x 1.250"			375	7.0"	89	4629	73	1
2.	4" x 1.250"			382	26.0	96	4142	75	1
3.	4" x 1.250"			600	30.0	99	3892	76	1
4.	4" x 1.250"			600	56.0	93	3077	80	1
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>sp</sub>	Rate of Flow Q, Mcfd
1.	7.469	52.13	388.2	0.9732	1.223	1.036	480
2.	7.469	101.37	395.2	0.9671	1.223	1.035	927
3.	7.469	135.63	613.2	0.9645	1.223	1.053	1258
4.	7.469	185.31	613.2	0.9697	1.223	1.056	1733
5.							

NO.	P <sub>t</sub>	Temp. °R	T <sub>t</sub>	Z	Gas Liquid Hydrocarbon Ratio	22	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	54.7	Deq.
2.					Specific Gravity Separator Gas	0.669	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX	0.800
4.					Critical Pressure	669	P.S.I.A. 665
5.					Critical Temperature	381	R 424

P <sub>c</sub> **3610.7 P <sub>c</sub> <sup>2</sup> 13037.2				
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub> **	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>
1		3330.1	11089.6	1947.6
2		2922.8	8542.8	4494.4
3		2719.1	7393.5	5643.7
4		2099.1	4406.2	8631.0
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.511$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.437$$

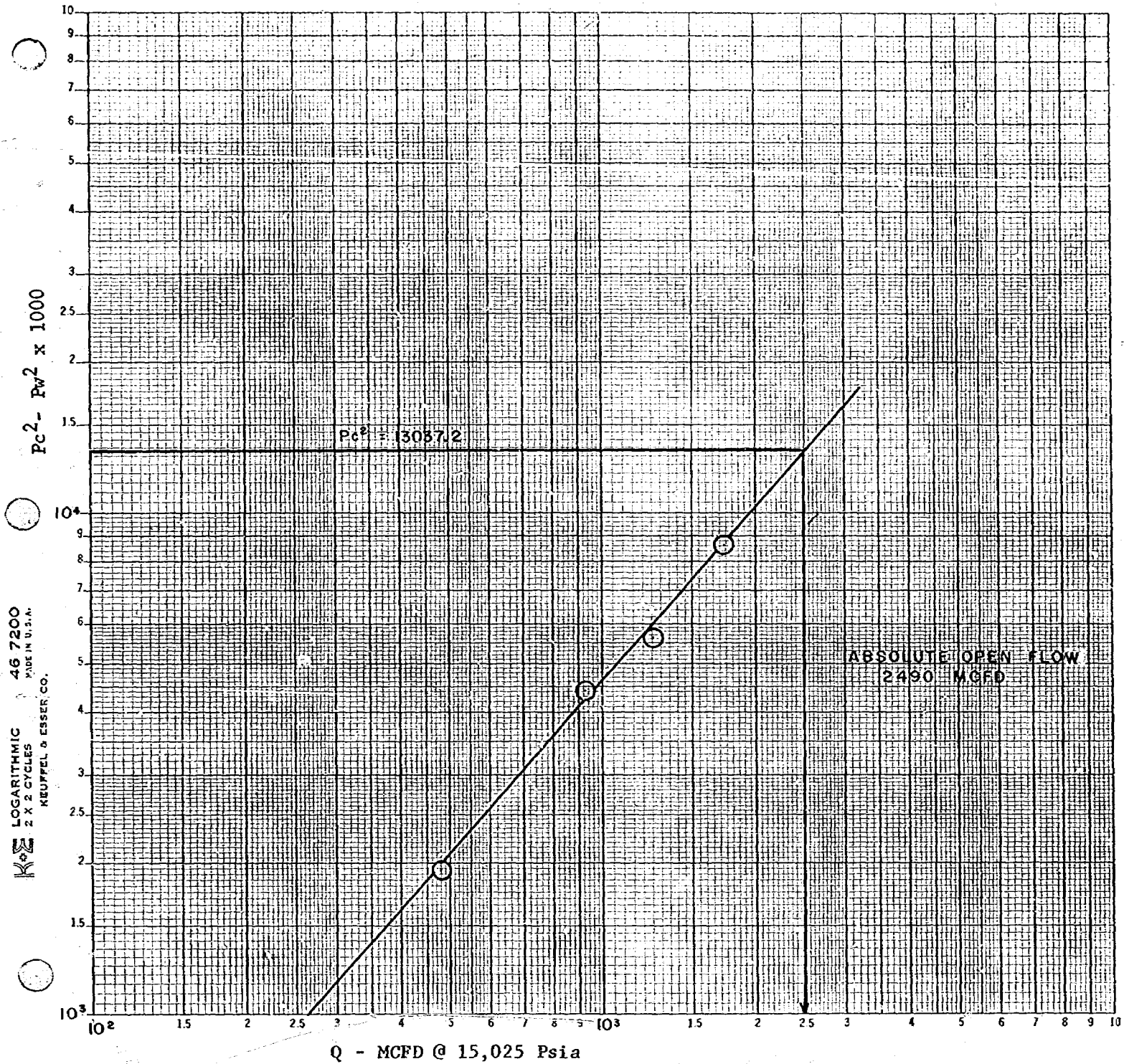
$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2490$$

Absolute Open Flow	2490	Mcf/d @ 15.025	Angle of Slope θ	Slope, n 0.878
--------------------	------	----------------	------------------	----------------

Remarks: \* Bottom-hole bomb readings.  
\*\* P<sub>o</sub> & P<sub>w</sub> calculated by time-share program using stepwise procedure.

Approved By Commission:	Conducted By: T. J. Ragan	Calculated By: J. K. Adair, Jr.	Checked By: W. B. Johnston
-------------------------	------------------------------	------------------------------------	-------------------------------

Champlin Petroleum Company  
Pecos Federal No. 1  
Unit C, Sec. 1-T22S-R27E  
Eddy County, New Mexico  
Strawn Perforations 10,580-10,608  
Date of Test: 3-27-74



$Q_1 = 1980 \text{ MCFD}$      $\log Q_1 = 3.29667$   
 $Q_2 = 262 \text{ MCFD}$      $\log Q_2 = 2.41830$   
 $n = 0.878$

Case 5247

RECEIVED

APR 22 1974

This form is not to be used for reporting packer leakage tests in Northwest New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION  
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

O. C. C.  
ARTESIA, OFFICE

Operator Champlin Petroleum Company			Lease Pecos Federal			Well No. 1	
Location of Well	Unit C	Sec 1	Twp 22 South	Rge 27 East	County Eddy		
	Name of Reservoir or Pool		Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size	
Upper Compl	Strawn		Gas	Flow	Tubing	6.9, 12, & 20/64"	
Lower Compl	Morrow		Gas	Flow	Annulus Tbg.-Csg.	10, 15, 19, & 24/64"	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): Strawn - 2:15 PM. 3-23-74; Morrow - 7:00 P M 3-22-74

Well opened at (hour, date): 10:00 AM 3-26-74      Upper Completion      Lower Completion

Indicate by ( X ) the zone producing..... X

Pressure at beginning of test..... 3670      3883

Stabilized? (Yes or No)..... Yes      Yes

Maximum pressure during test..... 3670      3883

Minimum pressure during test..... 3670      2165

Pressure at conclusion of test..... 3670      2165

Pressure change during test (Maximum minus Minimum)..... 0      1718

Was pressure change an increase or a decrease?..... -      Decrease

Well closed at (hour, date): 2:00 PM 3-26-74      Total Time On Production 4 hours

Oil Production      Gas Production

During Test:        bbls; Grav.       ; During Test        MCF; GOR       

Remarks Preliminary test. See attached press. chart. Recorder installed while running 4-pt. test.

FLOW TEST NO. 2

Well opened at (hour, date): 10:30 AM 3-27-74      Upper Completion      Lower Completion

Indicate by ( X ) the zone producing..... X

Pressure at beginning of test..... 3615      3819

Stabilized? (Yes or No)..... Yes      Yes

Maximum pressure during test..... 3615      3881

Minimum pressure during test..... 1066      3819

Pressure at conclusion of test..... 1066      3870

Pressure change during test (Maximum minus Minimum)..... 2549      62

Was pressure change an increase or a decrease?..... Decrease      Increase

Well closed at (hour, date): 3:15 PM 3-27-74      Total time on Production 4-3/4 hrs.

Oil Production      Gas Production

During Test:        bbls; Grav.       ; During Test        MCF; GOR       

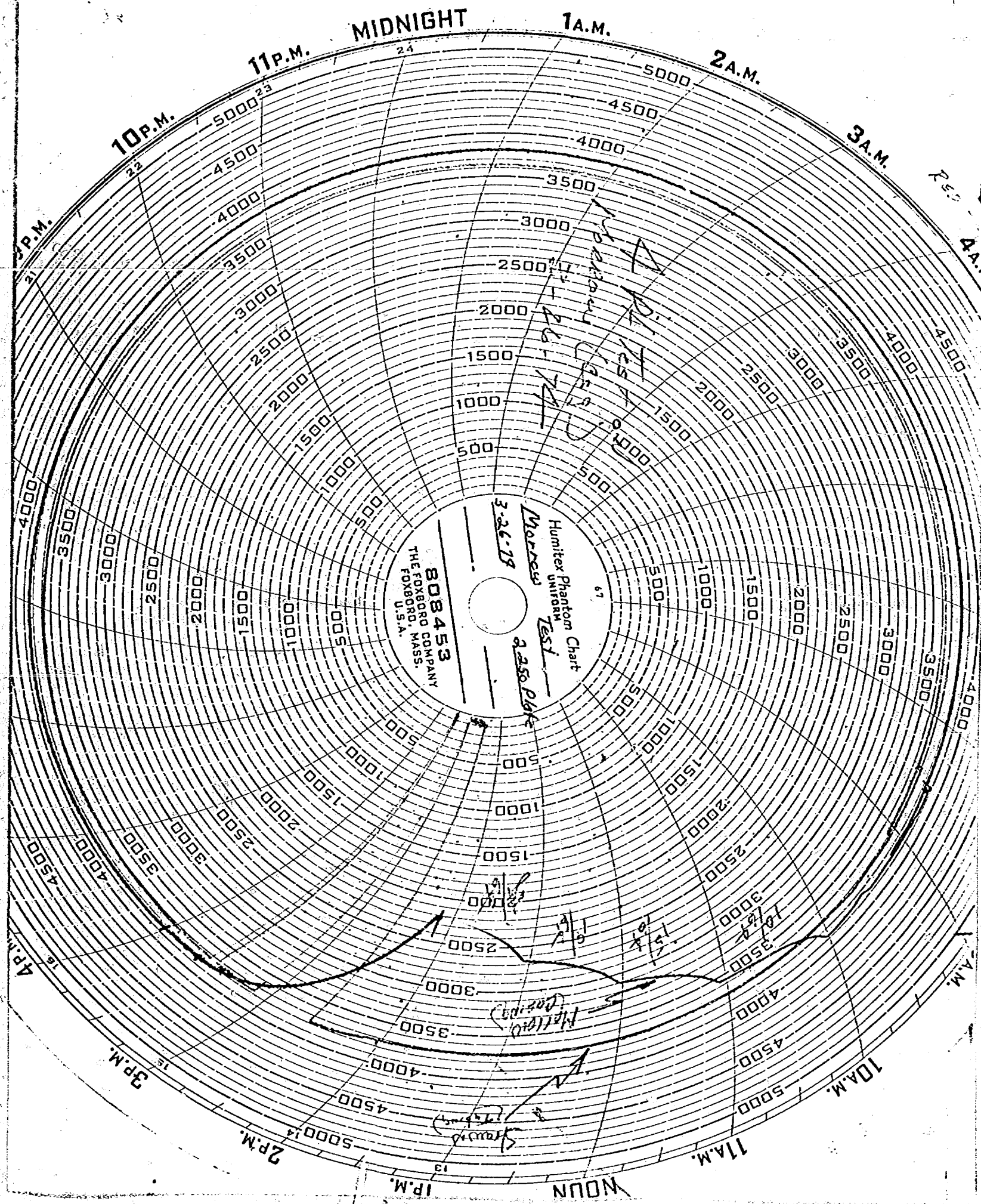
Remarks Preliminary test. See attached pressure chart. Pressure recorder installed while running 4-pt. test.

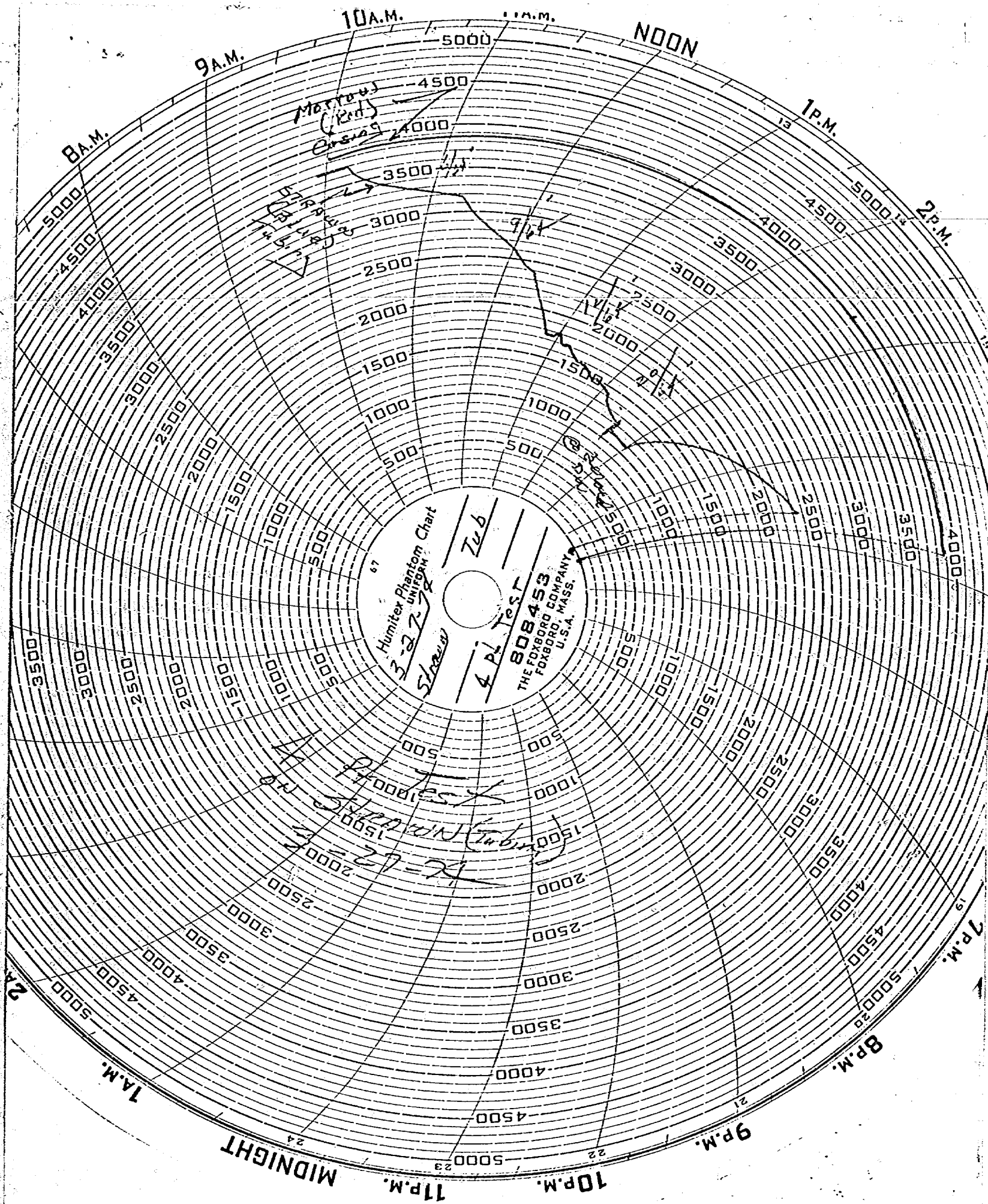
I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved 19      Operator Champlin Petroleum Company  
New Mexico Oil Conservation Commission      By Walter M. B. Giff

By             Title District Clerk  
Title             Date April 18, 1974







# Memo

From

W.A. GRESSETT SUPER.  
& OIL & GAS INSP.

To Carl.

This is the other DC that we  
talked about.  
attached are copies of C-122 each zone  
C-107 est. • C-123 request for creation  
of new pools. ~~not to be taken~~

Ida

Bill

Put for  
file 5/22

OK



**champlin** 

April 18, 1974

*Case 5247*

RECEIVED

APR 22 1974

O. O. O.  
ARTESIA, OFFICE

New Mexico Oil Conservation Commission  
P. O. Drawer DD  
Artesia, New Mexico

Gentlemen:

Attached for your approval are Forms C-107 w/attachments, C-122  
(on each zone), and C-123, on Champlin Petroleum Company's No. 1 Pecos  
Federal, Eddy County, New Mexico.

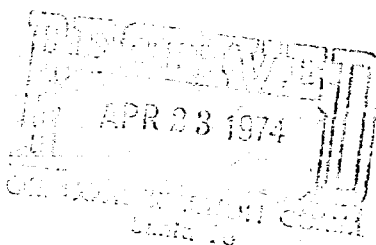
Yours very truly,

CHAMPLIN PETROLEUM COMPANY

*Walter M. Randolph*  
Walter M. Randolph  
District Clerk

WMR:ld

cc: Richardson & Bass  
Perry R. Bass



Champlin Petroleum Company  
701 Wilco Building  
Midland, Texas 79701  
915/682-3775

DOCKET MAILED

Date 5-9-74

Case 5247  
Order 4806

Adopted  
RECEIVED

NEW MEXICO OIL CONSERVATION COMMISSION

PACKER SETTING REPORT

JUL 22 1974

I, Don C. Condie, being of lawful age and having full **D. C. C. ARTSIA. OFFICE**  
Name of party making report

knowledge of the facts hereinbelow set out do state:

That I am employed by Champlin Petroleum Company in the capacity of  
District Engineer, that on March 10, 19 74

I personally supervised the setting of a Baker AR  
Make & type of packer  
in Champlin Petroleum Company, Pecos-Federal #1-C-1-22-27  
Operator of well Lease name

Well no. 1 located in the Undesignated (Morrow & Strawn) field,  
Eddy county, state of New Mexico, at a subsurface depth of  
10,415 feet, said depth measurement having been furnished me by  
Ard Drilling Company;

That the purpose of setting this packer was to effect a seal in the annular space between two strings of pipe where the packer was set so as to prevent the commingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer; that this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.

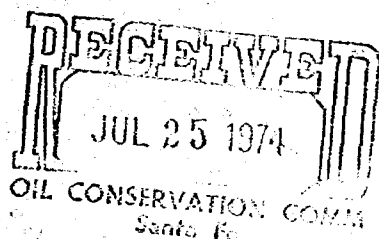
D. C. Condie  
(Signature)

District Engineer

(Title)

July 19, 1974

(Date)



NEW MEXICO OIL CONSERVATION COMMISSION  
PACKER SETTING REPORT

RECEIVED

JUL 22 1974

D. C. C.  
ARTESIA, OFFICE

I, Don C. Cordie, being of lawful age and having full  
Name of party making report

knowledge of the facts hereinbelow set out do state:

That I am employed by Champlin Petroleum Company in the capacity of  
District Engineer, that on March 6, 19 74

I personally supervised the setting of a Otis WB  
Make & type of packer  
in Champlin Petroleum Company, Pecos-Federal #1-C-1-22-27  
Operator of well Lease name  
Well no. 1 located in the Undesignated (Morrow & Strawn) field,  
Eddy county, state of New Mexico, at a subsurface depth of  
11,550 feet, said depth measurement having been furnished me by  
Mc Cullough Services;

That the purpose of setting this packer was to effect a seal in the annular space between two strings of pipe where the packer was set so as to prevent the commingling, in the bore of this well, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer; that this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.

D. C. Cordie  
(Signature)

District Engineer

(Title)

July 19, 1974

(Date)

RECEIVED  
JUL 25 1974  
OIL CONSERVATION

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:

APPLICATION OF ~~PENROC OIL~~  
~~CORPORATION~~ FOR A DUAL  
COMPLETION, EDDY COUNTY,  
NEW MEXICO.

CASE NO. ~~5151~~ 5247  
Order No. ~~R-4712~~ R-4806

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on ~~January 16~~ May 22, 1974, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this ~~24th~~ day of ~~January~~ 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, ~~Penroc Oil Corporation~~ ~~Champion Oil Company~~, seeks authority to complete its ~~Delta Federal A-Com~~ Well No. 1, located in Unit C of Section 12, Township 22 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce gas from the Winchester Wolfcamp gas pool and gas from an undesignated ~~Strawn~~ gas pool through tubing and the casing-tubing annulus, respectively, by means of a crossover assembly.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices, ~~provided that the Strawn zone does not experience substantial production of liquids.~~

(4) That the operator should file production data with the Commission subsequent to the connection of the Strawn zone to verify the efficiency of production from that zone.

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

Case No. 5151  
Order No. R-4712

IT IS THEREFORE ORDERED:

*Peeco Federal*  
(1) That the applicant, *Champion Petroleum Company*, ~~Penroe Oil Corporation~~, is hereby authorized to complete its ~~Peeco Federal A Com~~ Well No. 1, located in Unit ~~C~~ of Section ~~130~~, Township ~~22~~ South, Range ~~27~~ East, Eddy County, New Mexico, as a dual completion to produce gas from the ~~Winchester Wolfcamp~~ gas pool and from an undesignated ~~Strawn~~ gas pool.  
*for undesignated Strawn*  
*Marion*

*11,93 →*  
(2) That production from the ~~Strawn~~ formation shall be through 2 7/8-inch tubing set in a ~~packer~~ located at approximately ~~5555~~ feet, above the ~~Strawn~~ perforations, and thence, by means of a crossover assembly, through the casing-tubing annulus to the surface. Production from the ~~Wolfcamp~~ formation shall be through the casing-tubing annulus and thence, by means of a crossover assembly, through the 2 7/8-inch tubing to the surface. The crossover assembly shall be set in a packer located above the ~~Wolfcamp~~ perforations at approximately ~~8910~~ feet.  
*Marion*  
*Strawn*  
*10415*

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 the provisions of 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 ~~Winchester Wolfcamp~~ gas pool. *gas pools in Southeast New Mexico.*

(3) That the applicant shall report to the Commission the flowing tubing pressure, the daily gas flow rate and the daily liquid production rate from the ~~Strawn~~ zone at 30 day intervals for the first 90 days following the connection of the well to a gas transportation facility.

(4) That should the data supplied under Order (3) above indicate inefficient annular flow, a hearing will be scheduled to permit the operator to appear and show cause why Order (1) of this order should not be rescinded.

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