

CASE 5284: Appli. of CHAMPLIN
PETROLEUM FOR A DUAL COMPLETION,
EDDY COUNTY, NEW MEXICO.

CASE No.

5284

Application,
Transcripts,
Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 24, 1974

EXAMINER HEARING

IN THE MATTER OF:

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

Case No.
5284

BEFORE: Richard L. Stamets, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

Thomas Derryberry, Esq.
Legal Counsel for the
Commission
State Land Office Bldg.
Santa Fe, New Mexico

For the Applicant:

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

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I N D E X

PAGE

EMMET H. BALCH, JR.

Direct Examination by Mr. Kellahin

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Cross Examination by Mr. Stamets

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E X H I B I T S

Marked

Admitted

Applicant's Exhibits Nos. 1, 1-A,
2, 3 and 4

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BALCH-DIRECT

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MR. STAMETS: Call the next case. Case 5284.

MR. DERRYBERRY: Case 5284. Application of Champlin Petroleum Company for a dual completion, Eddy County, New Mexico.

MR. KELLAHIN: Tom Kellahin of Kellahin & 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? The Witness will stand and be sworn, please.

(Witness sworn.)

(Whereupon, a discussion was held off the record.)

EMMET H. BALCH, JR.

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

DIRECT EXAMINATION

BY MR. 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 a Petroleum Engineer employed by Champlin Petroleum Company in the position of Superintendent of Proration and Unit Operations in their

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headquarter's office in Fort Worth, Texas.

Q Mr. Balch, have you previously testified before this Commission?

A Yes, sir.

Q And had your qualifications accepted?

A Yes, sir.

Q Have you made a study of the facts surrounding this particular Application by Champlin?

A I have.

MR. KELLAHIN: If the Examiner please, are the Witness' qualifications acceptable?

MR. STAMETS: They are.

BY MR. KELLAHIN:

Q Mr. Balch, will you refer to what has been marked as Champlin Exhibit No. 1 and identify it?

A Yes, sir. Exhibit 1 is a plat showing the location of the Nix-Yates No. 1 Well which is located in the Southwest Northeast of Section 2, Township 22 South, Range 27 East, and also shows the surrounding operators and lists the names and addresses of the off-set operators to this tract who have been directly advised of our Application by letter.

Q What is Champlin seeking by this Application?

THE NYE REPORTING SERVICE
STATE-WIDE DEPOSITION NOTARIES
225 JOHNSON STREET
SANTA FE, NEW MEXICO 87501
TEL. (505) 992-0386

A Champlin is requesting that the subject well be completed as a multiple completion with the upper-completion, the Wolfcamp gas, producing through the casing tubing annulus, and the lower completion, the Morrow gas, through the tubing.

Q Would you refer to what has been marked as Exhibit 1-A and identify it?

A Exhibit 1-A is the Commission's application for multiple completion and sets out some of the facts pertaining to this completion; that it is a Wolfcamp completion with the top and bottom pay section between 9714 feet and 9740 feet; the Morrow completion occurs between 11,490 feet and 11,756 feet.

Q Please refer to Exhibit 2 and identify it?

A Exhibit 2 is a diagram of the wellbore of this well and shows the physical arrangement of equipment, the perforations, and is color coded to show in blue the Wolfcamp production through the annulus and in green the Morrow production through the tubing. Starting at the bottom of the hole, 7-inch casing has been run, the Morrow perforated in two sections -- now on the Exhibit it shows middle and lower Morrow; that's strictly a convenience reference of Champlin's; we're not suggesting separate zones, they're just Morrow, Morrow sections -- between the

perforated intervals in the Morrow there is a packer, that is a permanent packer. It is not there for production purposes; it was put there during completion and will remain there. It does provide us a mechanism to put in a seal or put in a plug to shut off the lower zone should we wish, but is not effective in the completion. The next packer we see is set at 11,300 feet and does separate the lower Morrow from other production.

Q Do you have any Strawn potential ?

A That's coming next. We have perforated and we have tested the Strawn. It is not commercial; it only produced in the order of 150 to 200 MCF a day at 60 pounds pressure. We elected not to squeeze off those perforations in the event that later in the life of the well compression might be available where that gas could be possibly commingled with others and produced, but we have no plans to produce it, and the way the well is completed you can't produce it; it's blanked off behind packers and tubing.

The next packer which does separate the Strawn completely is shown at 10,288 feet. Then we come to the Wolfcamp gas completion which will flow up the annulus.

Our principal completion here is the Morrow. The

Wolfcamp, although completed in such a manner that it can be produced and it will produce, will be produced, will only produce in the order of 200 MCF at line pressures. We do anticipate producing this well only at this completion only intermittently as pressure in the well will permit. We don't really plan continuous production. The Wolfcamp does contain some amount of condensate, which we are not sure of now, but the Wolfcamp generally contains condensate in this area. We do have a provision with the sliding sleeve door set at 9852 feet to unload that liquid should it accumulate in the annulus of the well. The Morrow completion should be capable of producing in the order of 3 to 4 million a day in that gas is dry.

Q Have you run any pressure tests on this well?

A No, the well is still in the process of being tested. We have pressures from drill-stem tests in surrounding wells. We estimate the Wolfcamp bottom shut-in pressure to be in the order of 5700 pounds, the lower Morrow approximately 5200 pounds. The surface pressure on the Morrow is 3650 pounds and the Wolfcamp we really don't have good shut-in pressures on it yet.

MR. STAMETS: Did you say 3200 on the Morrow?

MR. BALCH: The Morrow surface pressure is 3650

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and its bottomhole is 5200.

BY MR. KELLAHIN:

Q What if any pressure tests do you contemplate running on completion of the well?

A Well, we have had trouble with sand in the bottom of this well which we just today corrected. When the well is completely cleaned up there will be a packer leakage test will be run, the standard open-flow test, etc., as required by the Commission.

Q Once those tests are run will you furnish them to the Commission?

A They will be submitted.

Q In your opinion, Mr. Balch, does this method of completion conform to good engineering practices so that there will be no communication between these two zones?

A Yes, sir, it does.

Q From your present knowledge of the well, does this matter of completion, will it be able to handle the pressure differentials between the two zones?

A Yes, sir.

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

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CROSS

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A That is my opinion.

Q Would you please identify and refer to what has been marked as Exhibits 3 and 4?

A Exhibits 3 and 4 are electrical logs run on the well to complete the Commissions file. I don't have any testimony to direct from them. Those have not been previously submitted.

Q Were Exhibits 1 through 2 prepared by you or under your direction or supervision?

A Yes, sir, they were.

MR. KELLAHIN: We move the introduction of Exhibits 1, 2, 3 and 4.

MR. STAMETS: Exhibits 1 -- does that include 1-A?

MR. KELLAHIN: Yes, sir.

MR. STAMETS: 1, 1-A, 2, 3, and 4 will be admitted.

(Whereupon, Applicant's Exhibits

1, 1-A, 2, 3, and 4 were admitted into evidence.)

MR. KELLAHIN: That concludes our direct examination.

CROSS EXAMINATION

BY MR. STAMETS:

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

Q Mr. Balch, how often do you anticipate you will be producing the Wolfcamp zone in this well?

A As often as the well will produce. At 150 to 200 mcf capacity at line pressure, we assume the well will probably pull down and have to be shut-in to be built back up. I can't give you a definitive answer because the testing on the zone is inconclusive, although we do know that that rate limitation does exist. We will produce as much as the well will produce.

Q At 5700 pounds bottomhole pressure I assume you don't have much in the way of permeability there and the pressure declines very rapidly?

A That's right. It is rather tight.

Q Do you have any indication that the pressure builds up so that you can keep the well unloaded by flowing it on an interim basis?

A I don't know whether we would be able to do it very efficiently against the line pressure. We can do it during testing before the well is hooked up. How the well will perform under line pressure conditions, I would assume it would tend to load up and that we will have to periodically open that side door and rock the fluid through it. The completion is marginal --

Q (Interrupting) Excuse me, if you open the side door essentially what you have then is downhole commingling of the Wolfcamp?

A No, sir. We have X nipples in the packer set at 11,300 feet. Those nipples are there so that we can set planking plugs in which isolates all the lower production from the upper and we can turn the Wolfcamp only into the tube.

Q Have you ever seen a sliding sleeve side door assembly fail?

A I've seen most everything we run in wells fail under some conditions to my chagrin.

Q Should you open this and it fails then you would be in the position of what, having to pull the tubing and run a new assembly in there?

A Yes, sir.

Q This would probably be more expensive than the value of the Wolfcamp gas.

A That's the reason why we don't feel we can afford to run a second string of tubing if we had it. It probably won't pay out the cost of running a string.

Q Basically what you are asking for is sort of a salvage operation on the Wolfcamp to attempt to try and

get something out?

A Yes, sir.

Q To insure that there was no communication between the Wolfcamp and Morrow, would a test following the opening and closing of the sliding sleeve show that there was no communication?

A Yes, you would, as an example, close the sleeve and the plug is still in place, well now you have shut-off tubing; nothing can enter the tubing. If the tubing goes down you have a seal through that sliding side door and that's normal what you would do. You check whether or not you physically have closed it, whether the seals are working or whether you have the sleeve partially open; you would test it that way.

Q So the Commission could be in the position of having to witness a test every time this sleeve was disturbed in order to determine the zone that there was no leak.

A If it wished. I don't know if we will be doing this very often. We would just have to produce the well to see how it performed.

Q There is no test available, Form C-122, an all point test, on the Morrow and the Wolfcamp at this time?

A No, sir, not at this time. The lower Morrow section, we had in the very bottom this N nipple, shown at 11,646 feet, we had a blanking plug that had debris on it, slips and sand, and we just this morning shot off the end of that tubing so actually that N nipple isn't there anymore. Actually yesterday we did that. The well is now cleaning up so we're not ready to run the four point as yet. We did have good stabilized single-point producing rigs during the process of completion, and that is the basis for my estimate that it will produce at the 600 pound line pressures at 3 to 4 million a day.

Q These tests will be submitted as they are run?

A Yes, sir. We had attempted to run them before the Hearing but because of this debris in the hole we were unable to get it ready.

Q You have an added potential here for communication with the Strawn zone being perforated and isolated between two packers. Will the standard packer leakage test be adequate to determine whether or not there is any leakage between the Morrow and the Strawn and the Wolfcamp and the Strawn?

A It is my estimate that it would be. I would have to consider the actual test itself, let alone more extent,

to answer positively, but I would think it would. I realize this is a complication, it is a third element in a two-element test.

Q Would a periodic analysis of the producing characteristics of the zone tend to show this as well?

A The Strawn and Morrow are similar. The zone is such a limited volume that I would think it would get lost in traffic as far as its effect upon Morrow gas. I don't think we can detect it.

Q What is the pressure in the Strawn formation?

A It's in the order of 54 to 55 hundred pounds. It is more than the Morrow. We have an inverted pressure system here.

Q I would appreciate your analysis of the test procedure and anything that you might think of that would make it more effective so far as this well is concerned. You could send that in following the Hearing, we would appreciate it.

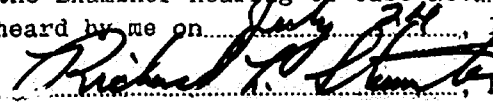
A I will do that.

MR. STAMETS: Are there any other questions of this Witness? He may be excused. Anything further in this Case? 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.


RICHARD L. NYE, Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5284 heard by me on July 24, 1974.

Richard L. Nye, Examiner
New Mexico Oil Conservation Commission

Champlin 

*Case 5284
BLS*

6 August 1974

*AUG 12 1974
SE COM*

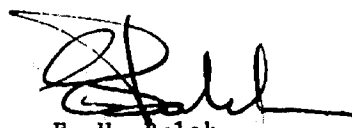
Mr. R. L. Stamets
New Mexico Oil Conservation Committee
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Case No. 5284
Application of Champlin
to Multiple Complete
its #1 Nix-Yates Well,
Eddy County, New Mexico

Dear Mr. Stamets:

Further to the testimony I presented at the hearing before you on 24 July 1974, we have now completed the AOF testing of the two zones. The AOF of the Wolfcamp (casing) is 1,326 MCF/D and the Morrow (tubing) is 1,982 MCF/D. Enclosed are copies of form C-122 and attached P² vs Q plots for each zone for your files. These tests will also be filed with Commission's District Office in the usual manner.

Yours very truly,



E. H. Balch
Superintendent - Proration
and Unit Operations

EHB/cas

Attachments

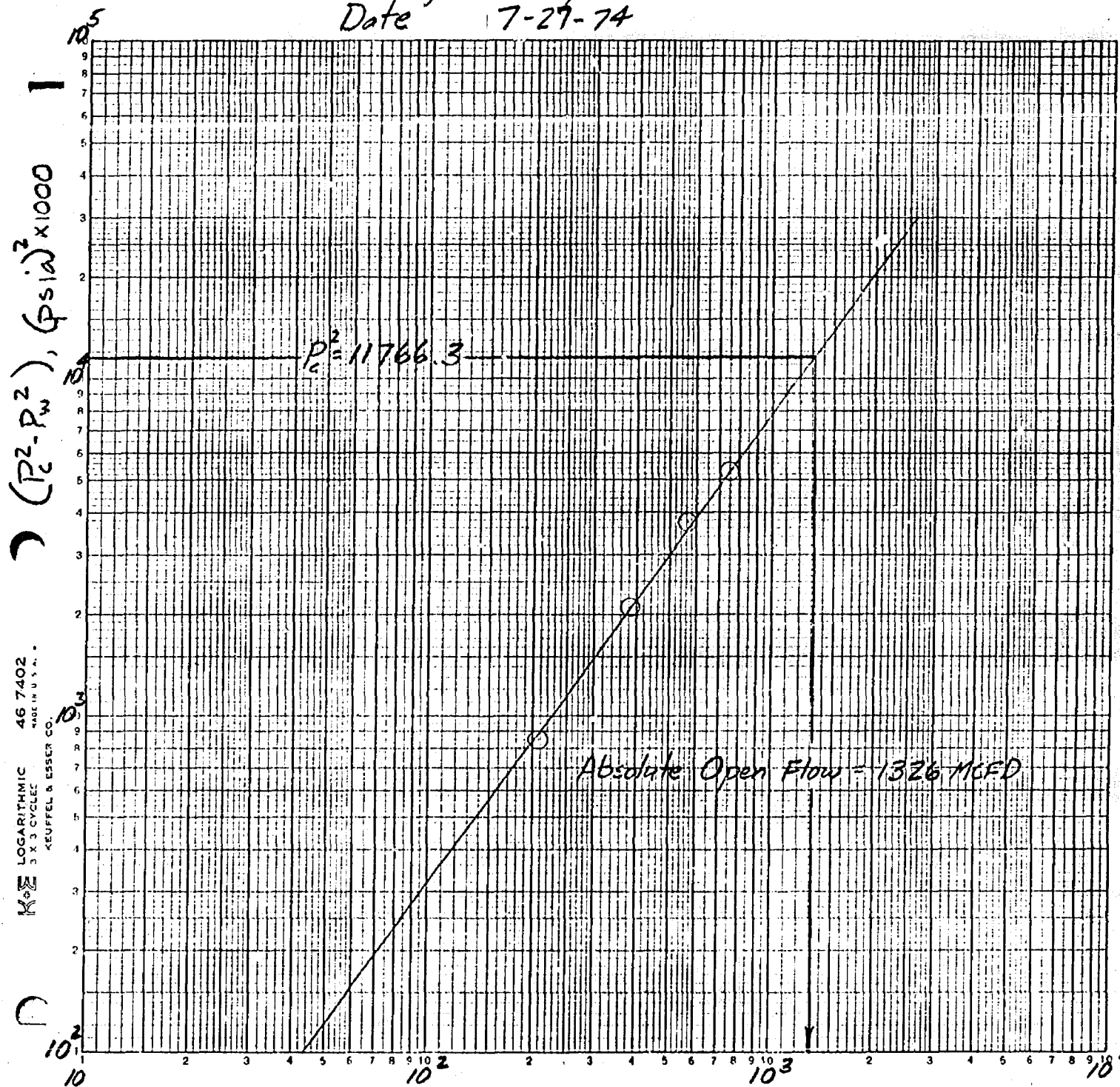
cc: Mr. Tom Kellahin
P. O. Box 1769
Santa Fe, New Mexico 87501

Champlin Petroleum Company
P.O. Box 9365
Fort Worth, Texas 76107
317 / 738-7391

WELL IDENTIFICATION AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type 1431		<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 7-27-74		
Company Champlin Petroleum			Connection El Paso Natural Gas Co.			
Pool E. Carlsbad			Formation Wolfcamp			
Completion Date		Total Depth 11970		Plug Back TD 11823		
Csq. Size 11"		WI. 26.0		Elevation 3099 GL		
Thg. Size 2 7/8"		WI. 6.5		Form or Lease Name Nix - Yates		
Perforations: From To		Perforations: From To		Well No. No. 1		
Type Well - Single - Drdndhead - G.G. or G.O. Multiple		Packer Set At 11300		County Eddy		
Producing Thru CSG U		Reservoir Temp. °F 165 9728		Mean Annual Temp. °F 60 (E)		
Baro. Press. - P _g 13.2		State New Mexico		Unit 2-22S-27E		
Prover 9728		Meter Run 4"		Taps Flange		
FLOW DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	
1.	4"	X	1.125"	390	2	
2.	4"	X	1.125"	450	6	
3.	4"	X	1.125"	570	10	
4.	4"	X	1.125"	590	17	
5.						
TUBING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Temp. °F	
1.	4"	X	1.125"	390	100	
2.	4"	X	1.125"	450	100	
3.	4"	X	1.125"	570	100	
4.	4"	X	1.125"	590	100	
5.						
CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Temp. °F	
1.	4"	X	1.125"	390	100	
2.	4"	X	1.125"	450	100	
3.	4"	X	1.125"	570	100	
4.	4"	X	1.125"	590	100	
5.						
RATE OF FLOW CALCULATIONS						
NO.	Coefficient (15.025 P _{sc}) MCED/Steps	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Super. Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1.	6.031	28.40	403.2	0.9636	1.209	207
2.	6.031	52.72	463.2	0.9636	1.209	385
3.	6.031	76.37	583.2	0.9636	1.209	564
4.	6.031	101.26	603.2	0.9636	1.209	751
5.						
Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.						
A.P.I. Gravity of Liquid Hydrocarbons Deg.						
Specific Gravity Separator Gas 0.684						XXXXXX
Specific Gravity Flowing Fluid XXXXX						0.684
Critical Pressure 669 P.S.I.A.						669 P.S.I.A.
Critical Temperature 386 R						386 R
P _{sc} 3430.2 P _{sc} 11766.3						
NO.	P ₁ ²	P _w U	P ₂ ²	P ₂ ² - P _w ²	(1) $\frac{P_1^2}{P_2^2 - P_w^2} = 2.221$	(2) $\left[\frac{P_1^2}{P_2^2 - P_w^2} \right]^n = 1.766$
1.	3303.6	10913.8	852.5			
2.	3108.6	9663.4	2102.9			
3.	2830.5	8011.7	3754.6			
4.	2543.4	6633.9	5297.4			
5.						
Absolute Open Flow 1326 Mcfd @ 15.025						Slope, n 0.713
Remarks: U Pw calculated by time-share program using stepwise procedure.						
Approved By Commission:		Conducted By:		Calculated By: J. K. Adair		Checked By:

Field Carlisbad, E. (Wolfcamp)
 Company Champlin Petroleum
 Well Nix Yates No. 1
 Location 2-225-27E
 County Eddy
 Date 7-27-74



$Q, \text{MCFD} @ 15.025 \text{ psia}$

$Q_1 = 227 \text{ MCFD} \quad \log_{10} Q_1 = 2.35603$

$Q_2 = 44 \text{ MCFD} \quad \log_{10} Q_2 = 1.64345$

$n = 0.71258 = 0.713$

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

Form C-122
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 7-26-74	
Company Champlin Petroleum Co.		Connection El Paso Natural Gas Co.	
Pool F. Clark-6-1		Formation M. 2-1-2-2	
Completion Date		Total Depth 11970	Plug Back TD 11823
		Elevation 3099 GL	
Csg. Size 7"	Wt. 26.0	d 6.276	Set At 11963
Tbg. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 11348
Perforations: From 11490 To 11756		Well No. 1	
Perforations: From To		Unit Sec. Twp. Rge. 2-22S-27E	
Type Well - Single - Bradenhead - G.C. or G.C. Multiple Dual		Packer Set At 11300	County Eddy
Producing Thru TBG	Reservoir Temp. °F 187	Mean Annual Temp. °F 60(E)	State New Mexico
L 11626	H 11626	Gg 0.596	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps 4" Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI											
1.	4"	X	1.5	210	6	98	3347	60			24
2.	4"	X	1.5	215	22	90	3120	75			1
3.	4"	X	1.5	230	42	90	2836	75			1
4.	4"	X	1.5	400	40	80	2235	75			1
5.							1227	75			1

RATE OF FLOW CALCULATIONS							
NO.	Coefficient C 15.025 p.s.i. (24 Hour) MCED/Inch	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd C 15.025 p.s.i.
1.	10.84	36.60	223.2	0.9653	1.295	1.015	503
2.	10.84	70.86	228.2	0.9813	1.295	1.017	993
3.	10.84	101.07	243.2	0.9813	1.295	1.019	1419
4.	10.84	128.56	413.2	0.9813	1.295	1.032	1828
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
					118.5	
1.					A.P.I. Gravity of Liquid Hydrocarbons 55	Deg.
2.					Specific Gravity Separator Gas 0.596	XXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX	0.621
4.					Critical Pressure 671 P.S.I.A.	671 P.S.I.A.
5.					Critical Temperature 357 R	365 R

NO.	P _i ²	P _w ²	P _w ² / P _i ²	P _i ² - P _w ²
1.	3139.0	2822.0	0.900	317.0
2.	2851.5	8122.3	0.285	2039.2
3.	2253.4	5077.8	0.225	2628.1
4.	1255.9	1577.3	0.125	1183.6
5.				

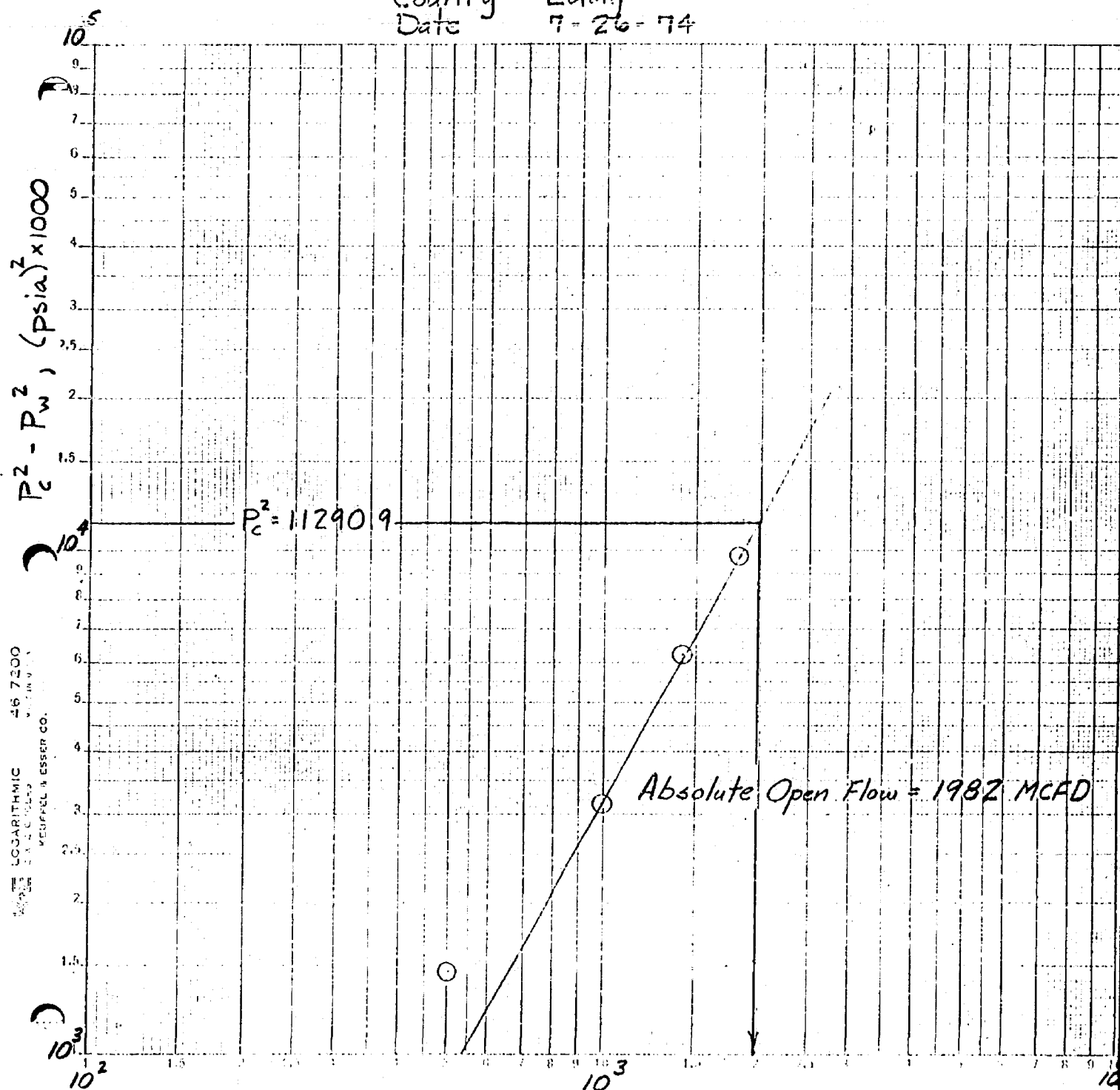
(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.162$

AOI = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1982$

(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.084$

Absolute Open Flow	1982	Mcf @ 15.025	Angle of Slope @	Slope, n 0.535
Remarks: 11 PW calculated by time-share program using stepwise procedure.				
Approved By Commission:	Conducted By:	Calculated By: J.K. Adair	Checked By:	

Field Carlsbad, E. (Morrow)
 Company Champlin Petroleum
 Well Nix-Yates No. 1
 Location 2-225-27E
 County Eddy
 Date 7-26-74



$Q_1 = 1850 \text{ MCFD} \quad \log_{10} Q_1 = 3.26717$
 $Q_2 = 540 \text{ MCFD} \quad \log_{10} Q_2 = 2.73239$
 $n = 0.52172 = 0.525$



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

August 13, 1974

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

Re: CASE NO. 5284
ORDER NO. R-4843

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.
Secretary-Director

ALP/ir

Copy of order also sent to:

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

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. 5284
Order No. R-4843

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 9:00 a.m. on July 24, 1974, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 13th day of August, 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 Nix-Yates Well No. 1, located in Unit G of Section 2, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Morrow formation through tubing and from the Wolfcamp formation through the casing-tubing annulus with a perforated Strawn zone to be isolated from the producing zones by means of packers set at 10,288 feet and 11,300 feet and the Wolfcamp formation sealed off from the tubing by means of a sliding sleeve side door assembly.

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

(4) That the operator should take all steps reasonably necessary to ensure that the perforated Wolfcamp zone shall not communicate with the other zones by reason of a malfunction of the sliding sleeve side door assembly.

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

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CASE NO. 5284
Order No. R-4843

IT IS THEREFORE ORDERED:

(1) That the applicant, Champlin Petroleum Company, is hereby authorized to complete its Nix-Yates Well No. 1, located in Unit G of Section 2, Township 22 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Morrow formation through tubing and from the Wolfcamp formation through the casing-tubing annulus with a perforated Strawn zone isolated from the producing zones by means of packers set at 10,288 feet and 11,300 feet and the Wolfcamp formation sealed off from the tubing by means of a sliding sleeve side door assembly.

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;

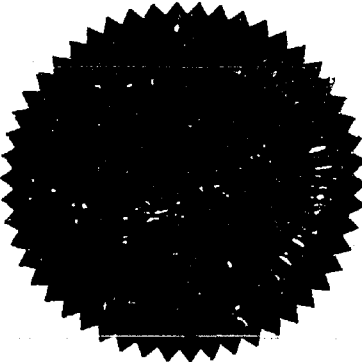
PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Shut-in Pressure Test Period for gas wells in South-east New Mexico.

PROVIDED FURTHER, that the operator shall notify the supervisor of the Commission's Artesia District Office any time the sliding sleeve side door assembly is to be disturbed.

PROVIDED FURTHER, that the District Supervisor shall require tests to determine separation of the zones any time said side door assembly is disturbed.

(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

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

Alex J. Armiijo
ALEX J. ARMIJO, Member

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

S E A L

jr/

(Case 5280 continued from Page 1)

McGuffin Well No. 3 to be drilled 660 feet from the North line and 1980 feet from the West line of Section 29, Township 9 South, Range 33 East, Flying "M" San Andres Pool, Lea County, New Mexico, the N/2 NW/4 of said Section 29 to be dedicated to the well. Applicant further seeks the amendment of Order No. R-4715 which dedicated the W/2 NW/4 of Section 29 to its McGuffin Well No. 2 located 1980 feet from the North line and 660 feet from the West line of said Section 29. Applicant proposes that the N/2 NW/4 of said Section 29 be dedicated jointly to said McGuffin Well No. 2 and to its McGuffin Well No. 1 located in Unit F of said Section 29.

CASE 5281: Application of Morris R. Antweil for an extension of time, Order No. R-4772, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a 90-day extension of the July 15 deadline for the commencement of drilling operations in the S/2 of Section 17, Township 22 South, Range 27 East, South Carlsbad Field, Eddy County, New Mexico, which lands were pooled to form a standard 320-acre gas spacing and proration unit by Order No. R-4772.

CASE 5282: Application of Union Texas Petroleum Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie-Mattix production in certain of its wells in the Langlie-Jal Unit Area, currently being waterflooded under authority of Commission Order No. R-4051.

CASE 4969: (Reopened)

In the matter of Case No. 4969 being reopened pursuant to the provisions of Order No. R-4557-A, which order continued the special depth bracket allowable for the Tocito Dome-Pennsylvanian "D" Pool, San Juan County, New Mexico, for an additional six months. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5283: Application of Belco Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in formations of Pennsylvanian age or older underlying the W/2 of Section 5, Township 22 South, Range 27 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location for said unit in Unit F of said Section 5. 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.

Docket No. 21-74

Dockets Nos. 22-74 and 24-74 are tentatively set for hearing on August 7 and August 21. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 24, 1974

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 4954: (Reopened)

In the matter of Case 4954 being reopened pursuant to the provisions of Order No. R-4555, which order established temporary special pool rules for the South Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, including a provision for 160-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing.

CASE 5277: Application of Pierce & Dehlinger for the amendment of Order No. R-4560, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an extension of time in which to commence the drilling of the third well covered by Order No. R-4560, to be drilled in the NE/4 of Section 24, Township 9 South, Range 33 East, Vada-Pennsylvanian Pool, Lea County, New Mexico. Applicant further seeks the establishment of an administrative procedure for additional extension of time in which to comply with the drilling schedule as set forth in the subject order. Applicant further seeks the amendment of Orders Nos. 4 and 5 of Order No. R-4560 to provide certain changes in the time schedules outlined therein for the furnishing of estimated well costs and the payment of proportionate shares of well costs by all parties.

CASE 5278: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry, Drinkard, and Tubb production in the wellbores of its A. H. Blinebry Federal Wells Nos. 23 and 26, located in Units C and B, respectively, of Section 29, and its C. H. Lockhart Federal Well No. 5, located in Unit C of Section 18, all in Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 5279: Application of Tom L. Ingram for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware Sand in the perforated interval from 5012 feet to 5033 feet in his State "O" Well No. 2 located in Unit E of Section 7, Township 24 South, Range 33 East, Triple X-Delaware Pool, Lea County, New Mexico.

CASE 5280: Application of Coastal States Gas Producing Company for an unorthodox location and the amendment of Order No. R-4715, Lea County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Order No. R-2746, approval for the unorthodox oil well location for its

CASE 5284: 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 Nix-Yates Well No. 1 located in Unit G of Section 2, Township 22 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce gas from the Morrow formation through tubing and from the Wolfcamp formation through the casing-tubing annulus.

CASE 5152: (Reopened)

In the matter of Case No. 5152 being reopened pursuant to the provisions of Order No. R-4713, which order established a special depth bracket allowable for the Media-Entrada Oil Pool, Sandoval County, New Mexico. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5285: Application of Texas Pacific Oil Co. for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of its Phantom Draw Unit Well No. 1 to be located at a point 800 feet from the South line and 1000 feet from the West line of Section 20, Township 26 South, Range 31 East, Eddy County, New Mexico, the W/2 of said Section 20 to be dedicated to the well.

CASE 5286: Application of Texaco Inc. for a Special Allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for an injection response allowable increase for its Vacuum Grayburg-San Andres Unit Pressure Maintenance Project, Lea County, New Mexico. Applicant seeks an additional 2320 barrels of oil per day to be added incrementally to the current 4640 barrel per day allowable as injection response occurs. Applicant further seeks the establishment of an allowable of up to 240 barrels per day for lease line wells which have demonstrated a substantial response to water injection.

Case 5284

OK standard Dual Completion Order
with these additions.

That the perforated Strawn interval
is to be isolated by packers set
at approximately 10288 ft and 11300'

That the operator should notify the
supervisor of the Artesia district
office any time the sliding sleeve
side door assembly set ~~at~~ opposite
the Wolfcamp perfs is to be disturbed.

~~and~~
That the district supervisor ~~may~~ ^{should}
require tests to determine separation
of the zones in the well any time
said side door assembly is disturbed.

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

Form C-107
5-1-61

Operator Champlin Petroleum Company		County Eddy		Date July 19, 1974
Address 701 Wilco Building, Midland, Texas 79701		Lease Nix-Yates		Well No. 1
Location of Well	Unit G	Section 2	Township 22-S	Range 27-E

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	Wolfcamp		Morrow
b. Top and Bottom of Pay Section (Perforations)	9,714 9,740		11,490 11,756
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

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.

Gulf Oil Corporation, P. O. Drawer 1150, Midland, Texas 79701

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

Pennzoil Company, Drawer 1828, Midland, Texas 79701

CHAMPLIN PETROLEUM COMPANY

EXHIBIT No. 1A

DOCKET No. 5284

DATE July 24, 74

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 July 19, 1974.

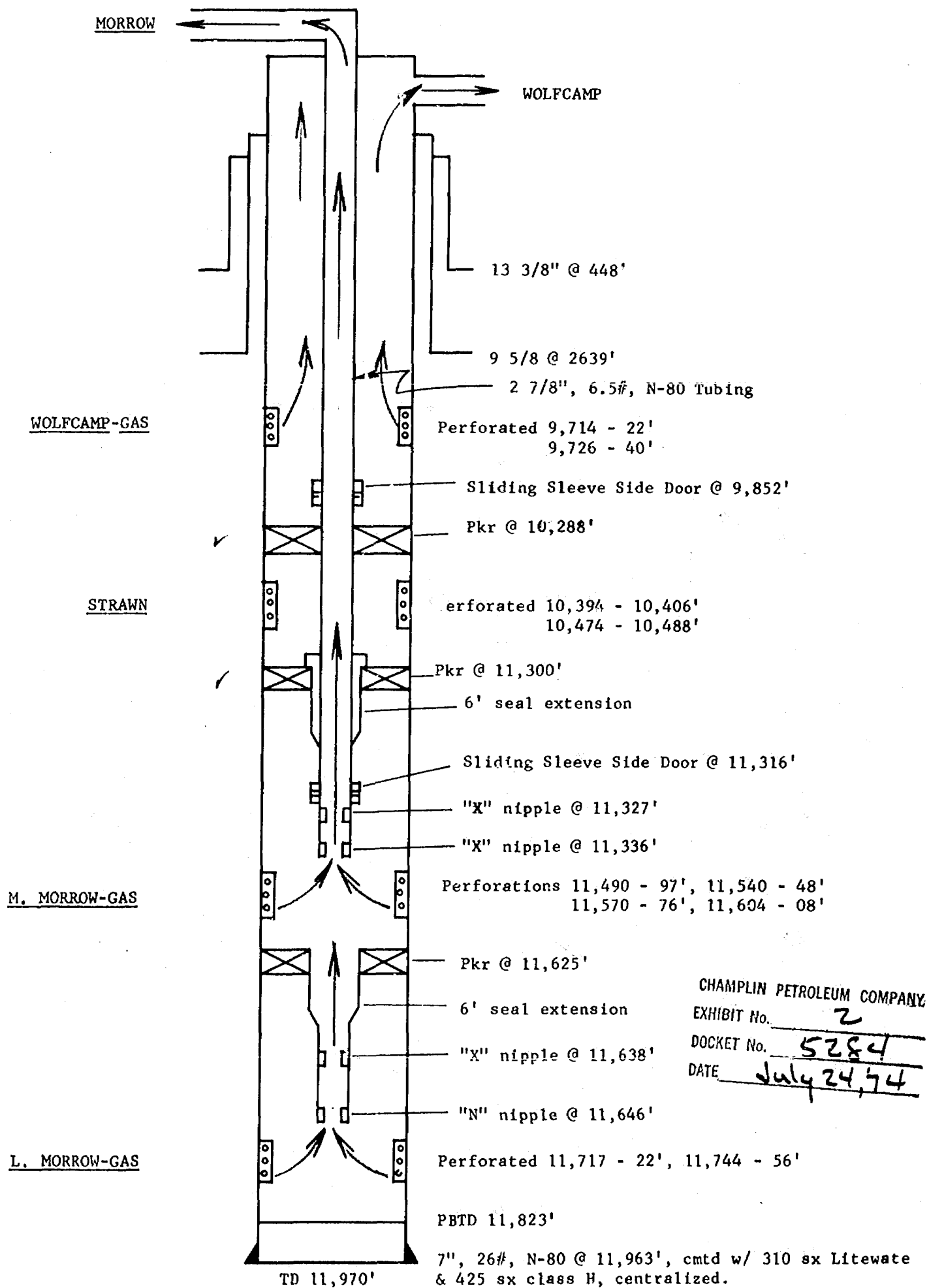
CERTIFICATE: I, the undersigned, state that I am the District Clerk of the Champlin Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Walter M. Randall
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 perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

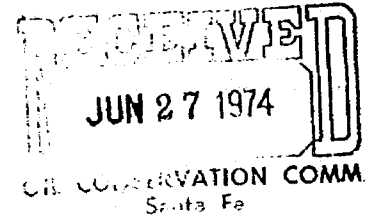
WELLBORE DIAGRAM
CHAMPLIN PETROLEUM COMPANY
NIX-YATES NO. 1
SW NE Sec. 2, T22S, R27E
EDDY COUNTY, NEW MEXICO



CHAMPLIN PETROLEUM COMPANY
EXHIBIT No. 2
DOCKET No. 5284
DATE July 24, 74

champlin 

21 June 1974



Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, Mexico 87051

Case 5287

Re: Champlin No. 1 Nix-Yates
1980' FNL and 1980' FEL
of Sec. 2, T22S-R27E,
Eddy County, New Mexico

Dear Sir:

Champlin Petroleum Company respectfully requests our application for dual completion (conventional) of the above Champlin No. 1 Nix-Yates well be set for hearing on 24 July 1974. We propose to complete this well in such a manner as to produce the undesignated Morrow zone through the tubing and the undesignated Wolfcamp zone through the annulus.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY



E. H. Birch
Superintendent-Proration and
Unit Operations

EHB/cas

cc: Mr. Jason W Kellahin
P. O. Box 1767
Santa Fe, New Mexico 87501

DOCKET MAILED

Date 7-12-74

Champlin Petroleum Company
P.O. Box 9365
Fort Worth, Texas 76107
817 / 738-7391

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

Form C-107
5-1-61

Operator Champlin Petroleum Company		County Eddy		Date July 19, 1974
Address 701 Wilco Building, Midland, Texas 79701		Lease Nix-Yates		Well No. 1
Location of Well	Unit G	Section 2	Township 22-S	Range 27-E

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	Wolfcamp		Morrow
b. Top and Bottom of Pay Section (Perforations)	9,714 9,740		11,490 11,756
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

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.

Gulf Oil Corporation, P. O. Drawer 1150, Midland, Texas 79701

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

Pennzoil Company, Drawer 1828, Midland, Texas 79701

CHAMPLIN PETROLEUM COMPANY

EXHIBIT No. 1A

DOCKET No. 5284

DATE July 24, 74

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 July 19, 1974.

CERTIFICATE: I, the undersigned, state that I am the District Clerk of the Champlin 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.

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 perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DRAFT

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. 5284

Order No. R- 4843

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 o'clock a.m. on
July 24, 1974, at Santa Fe, New Mexico, before
Examiner Richard L. Stamets.

NOW, on this day of August, 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, ^{Petroleum} Champlin Oil Company,
seeks authority to complete its Nix-Yates
Well No. 1, located in Unit G of Section 2, Township
22 South Range 27 East NMPM, Eddy County, New
Mexico, as a dual completion (conventional) ~~xxxx~~
(combination) to produce gas
from the Morrow formation through tubing and from the Wolfcamp
formation through the casing-tubing annulus with a perforated
Strawn zone to be isolated from the producing zones by means of
packers set at 10,288 feet and 11,300 feet and the Wolfcamp forma-
tion sealed off from the tubing by means of a sliding sleeve side
door assembly.
(3) That the mechanics of the proposed dual completion
are feasible and in accord with good conservation practices.

(4) That the operator should take all ^{Wolfcamp} steps reasonably necessary to ensure that the perforated ~~Strawn~~ zone shall not communicate with the other zones by reason of a malfunction of the sliding sleeve side door assembly.

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 Nix-Yates Well No. 1, located in Unit G of Section 2, Township 22 South ~~XXXX~~ Range 27 East ~~XXXX~~ NMPM, Eddy County, New Mexico, as a dual completion ^(conventional) ~~XXXX~~ to produce gas ~~XXXX~~ from the Morrow formation through tubing and from the Wolfcamp formation through the casing-tubing annulus with a perforated Strawn zone isolated by means of packers set at 10,288 feet and 11,300 feet and the Wolfcamp formation sealed off from the tubing by means of a sliding sleeve side door assembly.

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 ~~XXXX~~ Test Period for ~~the gas wells~~ in Southeast New Mexico. ~~XXXX~~

(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.

PROVIDED FURTHER, that the operator shall notify the supervisor of the Commission's Artesia District Office any time the sliding sleeve side door assembly is to be disturbed.

PROVIDED FURTHER; that the District Supervisor shall require tests to determine separation of the zones any time said side door assembly is disturbed.

DRAFT

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. 5284

Order No. R- _____

APPLICATION OF Champion 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
July 24, 1924, at Santa Fe, New Mexico, before
Examiner PLS.

NOW, on this _____ day of _____, 19____, 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, Champion Oil Company,
seeks authority to complete its Mid-Yates
Well No. 1, located in Unit G of Section 2, Township

South Range 27 East NMPM, Eddy County, New

Mexico, as a dual completion ^(conventional) ~~(combination)~~ to produce gas ^{oil}
~~(tubingless)~~

from the Morrow formation through tubing and from
The Wolfcamp formation through the casing-
tubing annulus with a perforated screen zone
to be isolated from the producing zones by means
of packers set at 10,288 feet and 11,300 feet and

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

The Wolfcamp
formation is sealed off from the tubing by means of a
sliding sleeve side door assembly.

4) That the applicant should take all steps necessary to ensure that the proposed formation zone shall not communicate with the other zones by means of a Malfunction of the sliding sleeve side door assembly.

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Champion Petroleum Company is hereby authorized to complete its Min-Yates Well No. 1, located in Unit C of Section 2, Township 22 South North' Range 27 East West' NMPM, Fred County, New

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

from the Morrow formation through tubing and from the halfcamp formation through the casing - tubing annulus with a perforated screen zone isolated by means of packers set at 10,248 feet and 11,800 feet and the halfcamp formation isolated from the tubing by means of a sliding sleeve side door assembly.

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~~ Test Period for gas wells in southeast New Mexico. ~~Test Period~~ Test Period

(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.

Provided further, that the operator shall notify the supervisor of the Commission's Archaia District Office any time the sliding sleeve side door assembly is to be disturbed.

Provided further, that the District Supervisor shall require tests to determine separation of the zones any time said side door assembly is disturbed.