

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

September 27, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Carper Drilling Com-
pany for a tubingless completion,
Chaves County, New Mexico. Applicant,
in the above-styled cause, seeks
authority to complete its Baetz Well
No. 1, located in the SE/4 SW/4 of
Section 35, Township 14 South, Range
27 East, Chaves County, New Mexico, as
a tubingless gas well completion pro-
ducing through perforations from 8182-
8270' in 2 7/8 inch casing.

Case No. 2647

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: The Hearing will come to order, please.

The first case will be 2647.

MR. DURRETT: Application of Carper Drilling Company
for a tubingless completion, Chaves County, New Mexico.

May the Examiner please, the Commission has in its files
and will introduce a letter from ~~Lossee~~ and Stewart received
September 20th, which requests that this case be continued until
October 10, 1962. That is an Examiner Hearing date. If the Ex-
aminer please, I ~~respectfully~~ move this case be continued.

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EXAMINER UTZ: It's their desire to **request** to a continuance of Case 2647?

MR. PORTER: To October 10.

MR. DURRETT: October 10.

EXAMINER UTZ: The case will be continued to 10/10/62.

* * *

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STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

I, MICHAEL RICE, NOTARY PUBLIC in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached transcript of proceedings was reported by me in stenotype and that the same was reduced to typewritten transcript under my personal supervision and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

Michael Rice
NOTARY PUBLIC

My Commission Expires:

May 11, 1968

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2647, heard by me on Sept. 27, 1962.

....., Examiner
New Mexico Oil Conservation Commission

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BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
October 10, 1962

EXAMINER HEARING

IN THE MATTER OF: (Continued)

Application of Carper Drilling Company for a
tubingless completion, Chaves County, New
Mexico. Applicant, in the above-styled
cause, seeks authority to complete its Baetz
Well No. 1, located in the SE/4 SW/4 of
Section 35, Township 14 South, Range 27 East,
Chaves County, New Mexico, as a tubingless gas
well completion producing through perforations
from 8182-8270' in 2 7/8 inch casing.

) Case 2647

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: The hearing will come to order, please.

The first case this morning will be Case 2647.

MR. DURRETT: Application of Carper Drilling Company
for a tubingless completion, Chaves County, New Mexico.

MR. LOSEE: A. J. Losee, Losee and Stewart, Artesia,
New Mexico, representing the Applicant Carper Drilling Company.
I have one witness, Mr. Clark Storm.

(Witness sworn.)

(Whereupon, Carper's Ex-
hibits Nos. 1 and 2 were
marked for identifica-
tion.)

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DIRECT EXAMINATIONBY MR. LOSEE:

Q Would you state your name, please?

A Clark E. Storm.

Q Where do you live, Mr. Storm?

A 1513 Ray, Artesia, New Mexico.

Q What is your occupation?

A Production Superintendent, Carper Drilling Company.

Q Where did you have your public education?

A In Windsor, Illinois.

Q Did you graduate from high school?

A Yes, sir.

Q Your higher education?

A University of Illinois and University of Missouri.

Q Did you obtain any degrees?

A B.S. from the University of Illinois and M.S., University of Missouri.

Q What were the degrees in?

A They were education degrees with minors in science and mathematics.

Q Have you been engaged in the oil and gas industry for the last several years?

A Nineteen years.

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Q Who have you been employed by during this period?

A Loco Hills Pressure Maintenance and Carper Drilling, Inc.

Q How long were you with Loco Hills Pressure Maintenance?

A Three years.

Q And with Carper Drilling Company?

A Sixteen.

Q What is your capacity with Carper Drilling Company?

A Production Superintendent, currently.

Q Have you attended any seminars or schools since your graduation from college?

A Yes, at the University of Oklahoma, gas measurement, and reservoir engineering, New Mexico School of Mines and symposiums on water flood, corrosion and things of that nature.

MR. LOSEE: Are Mr. Storm's qualifications acceptable?

MR. NUTTER: Yes, sir, please proceed.

Q (By Mr. Losee) I'll hand you what has been marked Exhibit 1 and ask you to state what that portrays.

A This shows the location of this particular well in the Southeast of the Southwest of Section 35 marked in red and the yellow represents the Carper Drilling Company acreage in that area.

Q This well you refer to, this is the Baetz No. 1?



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A That is right.

Q Did this also show the location of the lessees and the wells that have been drilled within a mile of Section 35 in Township 14 South, Range 27 East?

A Yes, sir.

Q When Carper Drilling Company completed this Baetz No. 1, had the well already been drilled initially?

A Yes, it was drilled initially. Do you want the date?

Q Yes, and by whom.

A It was drilled originally by Richfield on what was called the Trigg lease, then operations began on September 6, 1947 and continued to January 15, 1948. The well was totaled to the depth of 9983.

Q Subsequent to the time Richfield drilled this well, was the hole re-entered by someone other than Carper Drilling Company?

A Yes. An operator by the name Herschell L. Copeland from California went into that well and tried to make the San Andres out of it. They ran 5½" in there to 2200 feet and cemented it and perforated from 2,030 to 2,153, and acidized it and sand fracked it and pumped it a while and then abandoned it.

Q I'll hand you what has been marked Exhibit 2 and ask if you will state what that portrays.



A This represents the casing that is in it now and the cement of this well as it currently exists.

Q What was the condition of the casing and the cement in the hole at the time Carper entered it?

A Well, this $5\frac{1}{2}$ casing in the cement was in there from about 1500 feet to 2200 feet and then this $10\frac{3}{4}$ was in there from 1555 back to the surface and then there was a 16" conductor string 40 feet. The hole, there was a plug at the end of this $5\frac{1}{2}$ at the bottom end and the rest of it was full of heavy mud.

Q You said $5\frac{1}{2}$, what size collars were on that $5\frac{1}{2}$ " casing?

A Regular $5\frac{1}{2}$ collars.

Q Will you explain to the Commission how Carper completed the well?

A Well, what we wanted to do was to clean it out and leave the drill pipe in there and just cement the bit down there. In order to have any passageway from the inside of this $5\frac{1}{2}$, which the largest it could be was 5.01, the largest we could use was $2\frac{1}{2}$, because those $2\frac{1}{2}$ collars and 3.663" collars and 4.5, and if we had gone any larger we wouldn't have any passageway between the $5\frac{1}{2}$ and the drill pipe. That's the reason we went at it this way and we had a little trouble all right even so.

Q You went in with the bit on the bottom of this 2-7/8?

A Yes, we had to change over the sub from the $2\frac{1}{2}$ to the

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bit and took it down all the way.

Q On this Exhibit 2 you show the top of the cement on the 2-7/8 as 7450. How did you arrive at that?

A Ran a temperature survey.

Q Are there any productive oil or gas zones from the bottom of this 5½ at 2200 feet down to the top of the cement at 7450?

A No, not that we know of. They tested some other sections.

Q Why do you make the statement that there are no productive zones?

A They cored the well from 8471 to 8491 and from 9664 to 9661 and ran drill stem tests from 8987 to 9091, which resulted in water from 9253 to 9327; they recovered 3276 feet of sulphur water and at 9657 to 9638 they recovered 7957 feet of sulphur water plus a thousand feet of water blanket.

Q That was Richfield?

A That was Richfield that did that.

Q What formations did they try to complete the well Copeland?

A They tested inside the 5½. They perforated from 2030 to 2153. I don't believe that was solid perforations, but some selected zones in there.



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Q What is behind your 2-7/8" from 2200 down to the top of the cement?

A Heavy mud.

Q To your knowledge is there any corrosion problem present in this well?

A Not to my knowledge.

Q What about pressure?

A Not to my knowledge.

Q Would it be possible to complete this well with tubing inside of this 2-7/8"?

A Yes, it would be possible. It would cost us about \$12,000 to do it.

Q What size tubing would that be?

A Inch and a half hydril or something similar to that, if we could get it in there.

Q Is there anything else you would like to state to this Examiner in support of this application, Mr. Storm?

A There's only one other thing we might give them, the date which we re-entered it, I don't know if that's significant. We started on January 26, 1962 and finished on February 2nd, '62.

MR. LOSEE: The applicant will move for the introduction of Exhibits 1 and 2.

MR. NUTTER: Applicant's Exhibits 1 and 2 will be



admitted in evidence.

(Whereupon, Carper's Exhibits
Nos. 1 and 2 were admitted
in evidence.)

MR. LOSEE: That's the applicant's case.

MR. NUTTER: Does anyone have any questions of Mr. Storm?

MR. PORTER: Just one.

CROSS EXAMINATION

BY MR. PORTER:

Q What formation is this well to be completed in?

A If you want to be real technical, we would have to call
on our geologist, but it's the Pennsylvanian section.

MR. PORTER: That's close enough. Thank you.

BY MR. NUTTER:

Q Did Richfield run any pipe in the well other than the
10-3/4 and the conductor string?

A No, sir.

Q Were they aware of the gas in the Pennsylvanian section
at the time they drilled the well?

A I suppose they weren't because they tested some other
sections down there and did not test this one.

Q All of their testing was done in the 9,000 foot range,
wasn't it, as I recall from your direct testimony?

A Now they had some cores at 8471 and the drill stem



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tests were all within the 9,000 foot range, that's right.

Q Did they plug and abandon the well before Copeland re-entered it?

A I'm not real certain of that. The records are sort of indefinite it seems.

Q But Copeland re-entered and ran 5½" pipe to 2200 feet, perforated it and then pumped the San Andres for a while?

A That's right.

Q It did make some oil in the San Andres?

A Well, it's reported that it was making three barrels a day when it was completed, but if you want to report some other things, they got in a hurry and thought they had a well when it was load oil. I don't know if that's right or wrong, that's what we hear. That led them to drill some more, they tested one and they didn't get into the pay section before they abandoned it.

Q The well that's directly east of this well on your Exhibit 1 would be one of the San Andres that they attempted to complete?

A That's right.

Q And also the one southeast?

A That's right.

Q Then subsequently Copeland cut off the 5½" pipe and plugged and abandoned the well, is that right?



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A Well, the fact of the matter is that there was a lien on the well somewhere or another.

Q Someone cut the pipe off and plugged and abandoned?

A That's right. Mr. Copeland didn't, I don't believe.

Q What is the interval from the bottom of the cemented section below the shoe of your 2-7/8? I guess it would be a bit, what's in the interval from there on down to total depth?

A Heavy mud only, as far as we can tell.

Q Your drill pipe there is set at 8511, is that correct?

A Correct.

Q So there is a minimum of a couple hundred or two hundred thirty or forty feet of cement from the lowermost perforation to the bottom of the cement or the top of the heavy mud separating the Pennsylvanian perforations from the salt water producing zones in the bottom of the well?

A Yes, something of that nature.

Q Has an analysis been made of this gas?

A No, sir.

Q Do you know off-hand whether it's a sour gas or a sweet gas?

A It's a sweet gas. That analysis has been made. I thought you meant the actual chemical composition.

Q It potentialized from 3.61 million cubic feet?



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A Yes, sir.

Q Do you have a bottom hole pressure?

A Yes, sir. It's 3187.

Q That's bottom hole?

A That is right, bottom hole pressure.

MR. NUTTER: Any further questions of Mr. Storm?

MR. PORTER: Just one, Mr. Nutter.

BY MR. PORTER:

Q Are there any other Pennsylvanian wells in this area close by or what's the nearest Pennsylvanian well in this area?

A The closest one is the Duckfield, the exact distance I couldn't tell you.

Q Several miles, would you say?

A It's approximately ten miles.

MR. PORTER: Thank you.

MR. NUTTER: Any further questions of Mr. Storm? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further, Mr. Losee?

MR. LOSEE: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2647? We will take the case under advisement.



STATE OF NEW MEXICO)
) ss
 COUNTY OF BERNALILLO)

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

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 2nd day of November, 1962.

Ada Dearnley
 Notary Public-Court Reporter

My commission expires:

June 19, 1963.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2647, heard by me on 10/10, 1962.

As..., Examiner
 New Mexico Oil Conservation Commission

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 PHONE 243-6691



NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARINGSANTA FE, NEW MEXICOREGISTERHEARING DATE OCTOBER 10, 1962 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
A. J. Losce	Losce & Stewart	Artesia N M
Richard S. Morris	Leth Montgomery Edm. & Anderson	Santa Fe
Francis S. Irvine	Kerr, Conn & Davis	Abilene City, Abilene
Fray P. Clark	Casper Bldg. Co., Inc.	Artesia, N. Mex.
Marshall Rowley	—	—
Clark E. Brown	O. C. C.	Santa Fe
A. L. Porter	Pan American Ref. Corp.	Lubbock, Texas
Robert E. Smith		
Charles D. Malone	Atwood & Malone	Roswell
Frank E. Ivy	State Engr. Office	Santa Fe
Jack Bender	Western Devel. Co.	Artesia
M. T. Johnson	Odessa Nat. Gas Co.	Odessa, Texas
J. P. Bratten	—	Roswell
M. E. Dittler	Western Development Co.	Durham, Colo.
P. M. Mendenhall	Western Development Co.	Artesia, New Mex.
Jack Norenport	Western Development Co.	Artesia N Mex

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICOREGISTERHEARING DATE OCTOBER 10, 1962 TIME: 9 A.M.

NAME:

REPRESENTING:

LOCATION:

D. Peates
Morty Yates IIISelf
SelfArtesia
Artesia, N.M.

J. McIlhenny

Hun-McIlhenny

Amarillo, Tex

Jason K. McIlhenny

Kellakin Fox

Santa Fe, N.M.

W.M. Long

Coburn & Co

Pangua, Texas
Roswell, NM

J. McIlhenny IV

Great Western

Midland

John Thompson

Great Western