

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 10, 1963

EXAMINER HEARING

IN THE MATTER OF:)
)
)

Application of Pan American Petroleum Corpora-)
tion for a dual completion, Lea County, New)
Mexico. Applicant, in the above-styled cause,)
seeks approval of the dual completion (con-)
ventional) of its SMU Well No. 1 located in)
Unit J of Section 15, Township 24 South,)
Range 37 East, Lea County, New Mexico, to pro-)
duce oil from the Fowler-Blinbry and Fowler-)
Ellenburger Pools through parallel strings of)
tubing.)

CASE 2855

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: The hearing will come to order. Case 2855.

MR. DURRETT: Application of Pan American Petroleum Corporation for a dual completion, Lea County, New Mexico.

MR. BUELL: For Pan American Petroleum Corporation, Guy Buell. We have one witness, Mr. Rogers.

MR. DURRETT: Let the record show that Mr. Rogers was sworn in the previous case and he's still under oath.

MR. UTZ: Any other appearances in this case? You may proceed, Mr. Buell.

MR. BUELL: Can we also consider that his qualifications are in the record, too?

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MR. UTZ: Yes.

MR. BUELL: Again, as we did in our previous case, we have collected all our exhibits in brochure form and they are marked as Pan American's Exhibit 1.

(Whereupon, Pan American's Exhibit No. 1 marked for identification.)

JAMES T. ROGERS

called as a witness, having been previously sworn, testified as follows:

DIRECT EXAMINATION

BY MR. BUELL:

Q State for the record the location of Pan American's SMU Well No. 1.

A It is located in the Northwest Quarter of the Southeast Quarter, Section 15, 24 South, 37 East. This well was at a standard location in both of these pools.

Q Is that well currently a completed and producing well, Mr. Rogers?

A Yes, sir. It's presently producing from the Ellenburger formation. This well was a discovery well for the Fowler- Ellenburger Pool and is still flowing top allowable.

Q The plat that's attached to Exhibit No. 1 shows the Ellenburger completions and the Blinebry completions?

A Yes, sir. The Ellenburger completions are red and the Blinebry completions are shown in green.



Q And there are two Blinebry completions at this time in the Fowler-Blinebry Pool?

A Yes, the South Mattix Unit 14 located as a west offset to No. 1 in Section 15, and Gulf Plains Knight No. 2 located down in Section 23. We are presently attempting Blinebry completions also in our South Mattix Unit No. 3 located in Section 22.

Q Mr. Rogers, would you turn now to your diagrammatic sketch which is attached to Exhibit 1, and briefly comment on that, please?

A This sketch is our proposed equipment arrangement or procedure for dually completing this well. Currently, the Ellenburger is completed in an open hole 9705 total depth. We propose to perforate the Blinebry in an interval ranging from 5363 to 5653 feet. The zones will be separated by an Otis type WA Packer set at 6200 feet. Each zone will be produced through separate tubing strings. The surface casing in this well is set at 284 feet, 13-3/8 inch casing cemented with 275 sacks of cement and the cement circulated.

The intermediate, 9-5/8ths set at 3803 feet, cemented with 2,000 sacks of cement. The top of the cement by temperature survey is 1375 feet.

Q In your opinion, Mr. Rogers, will the mechanical installation which you have just discussed effect complete separation between the Ellenburger and the Blinebry reservoirs in this



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well?

A Yes, sir, it will.

Q Do you have also attached to Exhibit 1 a log of Well No. 1?

A Yes, our third attachment is a gamma ray neutron log on the South Mattix No. 1 well.

Q Have you made any notation on this log?

A Yes, sir. We have the proposed completion interval for the Blinebry shown in red at 5360 feet, and the top of the Blinebry is marked. We have the present open hole completion interval in the top of the Ellenburger shown down at 9486 feet. These are also shown in red on the log.

Q How much vertical separation exists between these two formations in this area?

A There's approximately 4,000 feet of vertical separation.

Q What in your opinion, Mr. Rogers, would it cost to drill a single Blinebry well?

A A single Blinebry would cost approximately \$70,000.

Q How much do you think it will cost for Pan American to effect a dual completion of its No. 1 well in the Blinebry?

A The cost estimate for our dual is 22,000, which results in a savings of \$48,000 over drilling a single Blinebry.

Q In your opinion, Mr. Rogers, will the approval of this request by the Commission prevent economic waste as well as protect the correlative rights of all the interest owners in both



pools?

A Yes, it would.

Q Do you have anything you would care to add at this time?

A No.

MR. BUELL: That's all we have by way of direct, and I would like to formally offer our Exhibit No. 1.

MR. UTZ: Without objection Exhibit No. 1 will be entered into the record of this case.

(Whereupon, Pan American's Exhibit No. 1 received in evidence.)

CROSS EXAMINATION

BY MR. UTZ:

Q In regard to your cement program, Mr. Rogers, your 13-3/8ths is circulated, right?

A Yes, sir.

Q The 9-5/8ths has the top of 1375?

A Yes.

Q That leaves from 284 down open behind the 9-5/8ths. What zones are in this area?

A That's from what depth?

Q 1375 up to 284.

A I'm sorry, I don't know what zones are in there.

Q You don't know--

A No, sir.

Q -- whether there's a possibility of oil, gas, or water



zones in there that might be in communication with other zones?

A No, sir, I feel certain that there's not, but I have no information available to state what is there.

Q Now your 7-inch, the top of the cement is 4350, which leaves the same condition from 3803 to 4350. Do you know what's in there?

A That would be zones above the Paddock formation. I believe the Paddock in that area would be located somewhere in the vicinity of 4000 to 4800 feet, so that the top of the cement would be up to the Paddock formation, so anything shallower than the Paddock would be between there and 3803 feet, so there's not very much interval in there. Without having information on the tops of the formations at this well, I couldn't say for sure which zone was open there.

Q Is the Paddock productive in this area?

A Yes, sir, the Paddock is productive, the Fowler-Paddock Gas Pool.

Q What is the usual thickness of the Paddock?

A Well, I'll offer a guess. I had forgotten I had this. I might be able to answer your last question now. I can give you an exact answer. The top of the Paddock is located at 4810 feet so that would place it somewhat lower than I thought it was. Actually it's down 500 feet below the top of the cement on the intermediate. The thickness of the Paddock in that well, coming to your last question now, is roughly 550 feet.



Q Since the Paddock is below the cement, that question is a moot question now, and I redirect your attention to the area above 4350. What's in that area?

A I am back to where I started. My log goes to 4700 down, so I don't have that information down.

Q You don't know whether there's any producing zones in that open area behind the 7-inch casing?

A No, sir, I don't. I can state that we don't have any wells completed in anything in that interval, and in the vicinity of this well I don't know of any that are completed shallower than the Paddock.

Q Would you furnish the Commission with information on both of these areas, please?

A Yes, I will.

Q As soon as possible. What is the gravity of your Blinebry and Ellenburger?

A Just one second.

Q The average pressures and GOR, if you have that information.

A The gas-oil ratio on the Blinebry in the South Mattix Unit No. 14, which is the west offset to this No. 1, on potential was 1,060 to 1. That well is less than a year old and I'm sure that the GOR is still in that vicinity. In the Ellenburger, on the South Mattix Unit No. 1, our official GOR test was run the first part of this year; it was approximately 1950 to 1. So we



have a two to one ratio on the GOR. I don't have the gravities available on these crudes.

Q Do you have the approximate pressures?

A Yes, sir. The pressure in the Ellenburger is approximately 1950 psi; the pressure in the Blinbry is approximately 2250.

Q What type crudes are they?

A These are both sweet crudes.

MR. UTZ: Are there any other questions of the witness?
The witness may be excused.

(Witness excused.)

MR. UTZ: Are there any statements in this case?

MR. DURRETT: If the Examiner please, the Commission has received a communication in the form of a telegram from Mr. W. P. Tomlinson of Atlantic Refining, stating that they support Pan American in their request. I'll place it in the file if anyone would like to read it in its entirety.

MR. UTZ: The case will be taken under advisement.

* * * *



STATE OF NEW MEXICO)
) ss
 COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill, and ability.

WITNESS my Hand and Seal this 29th day of July, 1963.

Ada Dearnley
 NOTARY PUBLIC

My Commission Expires:

June 19, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2855, heard by me on July 10, 1963.

Thurston, Examiner
 New Mexico Oil Conservation Commission

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