

DEARNLEY-MEIER REPORTING SERVICE, Inc.

PHONE CH 3-6691

ALBUQUERQUE, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 8, 1961

EXAMINER HEARING

IN THE MATTER OF:

Application of J. C. Williamson for a
dual completion, Lea County, New Mexico.
Applicant, in the above-styled cause,
seeks permission to complete its Westates-
Federal Well No. 5, located in Unit E of
Section 1, Township 25 South, Range 37
East, Lea County, New Mexico, as a dual
completion (conventional) in undesignated
Blinebry and undesignated Drinkard pools,
with the production of oil from both
zones to be through parallel strings of
2 3/8 inch tubing.

CASE NO.
2427

Before: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

EXAMINER UTZ: We will call Case No. 2427.

MR. WHITFIELD: Application of J. C. Williamson for a
dual completion, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa
Fe, representing the applicant. We will have one witness and I
would like to have him sworn.

EXAMINER UTZ: Are there other appearances in this
case?

(Witness sworn.)

J. A. Coleman



called as a witness by and behalf of the applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please.

A J. A. Coleman.

Q What business are you engaged in, Mr. Coleman?

A Consulting petroleum engineering business, Hobbs, New Mexico.

Q What education have you had as a petroleum engineer?

A I graduated from the University of Oklahoma. In field experience I have worked with the British American, Sinclair Oil and Gas and various other independent operations in the southeastern New Mexico area.

Q Over what period of time, Mr. Coleman?

A For the past seven years.

Q Where do you maintain your offices at the present time?

A In Hobbs. I have been operating as a consulting petroleum engineer for the last six years.

Q Has that been in the Hobbs area?

A Yes, sir.

MR. KELLAHIN: Are the witness's qualifications acceptable?

EXAMINER UTZ: Yes, sir.

Q (By Mr. Kellahin) In your capacity as a petroleum

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engineer, Mr. Coleman, have you been retained by J. C. Williamson in connection with Case No. 2427?

A Yes, sir.

Q Would you state what is proposed by the applicant in this case?

A In general terms the applicant has drilled a well and has his allowable assigned to the lower zone in this well and now requests permission to dually complete the well.

EXAMINER UTZ: Have you already dually completed this well?

THE WITNESS: Yes, sir.

Q (By Mr. Kellahin) Mr. Coleman, referring to what has been marked as Exhibit 1 would you state what that is?

A This is an ownership plat giving the locations of this particular well.

Q What is the location of the well involved?

A The actual footage location of the well is 1730 feet from the North line and 330 feet from the West line, Section 1, Township 25 South, Range 37 East, Lea County, New Mexico.

Q Referring to what has been marked Exhibit 2, would you discuss that Exhibit?

A That is a gamma ray neutron log run with the top so designated to show separation between the two producing zones.

Q Did you make the perforations on the Exhibit?

A Yes, sir.

Q Refer to what has been marked Exhibit 3. Would you dis-



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cuss the information shown on that Exhibit?

A It is a schematic diagram of the complete casing cement and tubing perforations and packer in this particular well which is in place at this time.

Q What type of packer did you use?

A Brown type BP4H.

Q Is that a permanent type packer?

A Yes, sir.

Q For what reason did you use that particular type of packer?

A That packer is very flexible. It affords shutoff of the bottom zone and this is a completion type packer and will probably separate the two producing zones.

Q Will that type of completion enable you to make all the necessary tests or treatment of the two zones involved in this well?

A Yes, sir. This particular type completion is what is considered a standard type completion with two and three-eighths inch tubing which allows all operations the same as would be in one type completion.

Q Will that enable you to pump either zone?

A Yes, sir, either or both.

Q Either or both the zones?

A Yes.

Q Simultaneously, is that correct?



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A Yes, sir.

Q Does the particular completion you have in your opinion give complete separation?

A Yes, sir, on the completions, and as far as we can tell, the producing formations are completely separate.

Q Does the completion adequately protect all producing horizons or water zones encountered in the well bore?

A Yes, sir.

Q Have you run a packer leakage test?

A Yes, sir, a packer leakage test was conducted on this well.

Q Refer to Exhibit No. 5. Will you discuss the information shown on that Exhibit?

A This test was conducted by an independent agent and under the direction of a certified engineer of New Mexico and follows the procedure outlined by the southeast New Mexico packer leakage test requirements and it concludes that there isn't any leak.

Q There is no leakage in this completion?

A In the mechanical set up in the well.

Q Now, referring to Exhibit 4. Would you discuss the information shown on that Exhibit and likewise Exhibit No. 5?

A These are separate.

Q They were marked as separate Exhibits, yes, sir.

A All right. This is a bottom hole pressure record conducted by an independent agency of Midland, Texas, which is



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recorded at a depth of 5370. The bottom hole pressure was 2257 which is the Blinebry zone. The same type of report on the Drinkard zone was made at a depth of 5880. There is a bottom hole pressure of 1993 psig.

Q Has it shown the paraffin satisfactorily for the differential pressure shown by that?

A Yes. This is common practice.

Q Is it adequate to protect the zones where only one zone is being produced at a time?

A Yes, sir, it is.

Q Have you run any potential tests on the well?

A Yes, sir.

Q What was the result of that, Mr. Coleman?

A The Blinebry zone was potentialled and the data on form C-104 was 88 barrels of oil per day.

Q What was the gravity of that oil?

A Thirty-seven point one.

Q And what was the GOR?

A Twenty-one thousand six hundred.

Q Is that an accurate figure in your opinion?

A No, sir. This is taken from a packer leakage test with the well being shut in and then opened which gives an erroneous GOR.

Q Are you familiar with GORs in the Blinebry zone in this area?



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A Yes, sir.

Q What was the anticipated GOR to be on this zone in this well?

A It could run, oh, from 1000 to 2000 on up.

Q You wouldn't anticipate running as high as shown on the Exhibit?

A Not at this particular time. It might a little later on.

Q Now, would you give us the same information on the Drinkard zone, please.

A The Drinkard was potentialled at 244 barrels per day.

Q What was the gravity of the oil?

A Thirty-five point two.

Q What was the GOR?

A The GOR was 421 taken from the packer leakage test.

Q Mr. Coleman, is the dual completion installation in this well of a type which has heretofore been approved by the Commission?

A Yes.

Q In your opinion, does it adequately protect all the zones involved?

A Yes. It definitely does.

Q Is it in the interests of conservation and greater ultimate recovery of oil to complete it in this manner?

A Well, in this particular manner it is the simplest and



most practical completion for this type of setup.

Q In your opinion, would it result in a greater ultimate recovery of oil from the two zones?

A Yes.

Q At a lesser cost?

A Yes, sir.

Q Were Exhibits 1 through 6 prepared by you or under your supervision?

A No, sir, I checked them.

Q You checked them?

A Yes.

Q Do they accurately reflect the information shown thereon?

A Yes, sir.

MR. KELLAHIN: I offer Exhibits 1 through 6 inclusive.

EXAMINER UTZ: Without objection, Exhibits 1 through 6 will be entered into the record.

MR. KELLAHIN: That's all the questions I have.

EXAMINATION

BY EXAMINER UTZ:

Q What type of crude is the Blinbry producing?

A Do you mean sweet?

Q Yes.

A It's sweet.

Q How about the record?

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A Sweet.

Q Is it sour?

A It's not too sour. When I say sweet, there are degrees of sweet. The Drinkard crude is not real corrosive.

Q On your five-eighths casing have you determined the top of the cement?

A Yes, sir. It is approximately 150 feet.

Q How about your seven inch?

A Approximately the top of the cement, at 1010 feet.

Q It doesn't get up to the nine and five-eighths, does it?

A No, sir.

EXAMINER UTZ: Are there other questions of the witness?

The witness may be excused.

(Witness excused.)

EXAMINER UTZ: Are there any other statements in this case?

If not, the case will be taken under advisement.



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STATE OF NEW MEXICO)
) SS
COUNTY OF SAN JUAN :)

I, THOMAS F. HORNE, Court Reporter, in and for the County of San Juan, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

Thomas F. Horne

Notary Public

My Commission expires:

10-2-65

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. *2427*, heard by me on *Nov. 5*, 19*61*.

Thomas F. Horne, Examiner
New Mexico Oil Conservation Commission

