

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
April 25, 1962

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IN THE MATTER OF:

Application of J. Glenn Turner for a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Ballard Well No. 11-15 located in Unit D of Section 15, Township 26 North, Range 9 West, San Juan County, New Mexico, as a dual completion (Conventional) in the Basin-Dakota Gas Pool and an undesignated Gallup oil pool with the production of gas from the Dakota formation and the production of oil from the Gallup formation to be through parallel strings of 2 1/16 inch tubing.

CASE  
2541

-----  
BEFORE:

Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: The hearing will come to order. Case 2541.

MR. MORRIS: Application of J. Glenn Turner for a dual completion, San Juan County, New Mexico.

MR. FEDERICI: Bill Federici and Oliver Seth for the applicant. We have one well-known witness.

MR. UTZ: Are there any other appearances in this case? Would you like to stand and be sworn, please.

(Witness sworn)

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MR. FEDERICI: Mr. Utz, this is an application for a dual completion of the Ballard Well Number 11-15, Section 15, 26 North, 9 West, this is a gas oil dual completion. FRANK BARNES, called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. FEDERICI:

Q Mr. Barnes, would you give us the details on this data on this well?

A This is a relative simple case which has one unique aspect to it, the operator, J. Glenn Turner, is seeking approval of what is a normal dual completion which would come under Order R-1410C. The well is located inside the boundaries of the Basin-Dakota Gas Pool. However, the operator encountered commercial production in the Gallup sandstone on the way down and the well was completed in this zone also at 5728 to 5840 feet. The well is not in any designated Gallup Oil Pool, being one and a half miles <sup>A</sup>E<sub>st</sub> of the Angels Peak Gallup Oil Pool.

Q Excuse me, do you have an exhibit showing the location of the well?

(Whereupon, Applicant's Exhibit Number 1 marked for identification.)

Q I hand you what has been marked Exhibit Number 1,



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and ask you if that's a plat of the well location?

A Exhibit 1 or Exhibit A --

Q It's been marked Exhibit 1.

A Exhibit 1, let me change this then. That is correct. That shows the location of the well in Township 26 North, Range 9 West.

Q Proceed with your discussion.

A It's presumed by the operator that this well represents actually an extension of the Angels Peak Gallup Oil Pool, but it isn't a designated pool at the present time. The operator wants to dually complete the well in accordance with what is standard and normal practice in the area, the Gallup oil to be produced through 2 and 1/16 inch tubing set at 5749 feet, and a Dakota sandstone gas to be produced through 2 and 1/16 inch tubing through a Baker packer set at 6,356 feet.

Q Do you have a diagrammatic sketch of the completion?

A Yes, I have a diagrammatic sketch.

(Whereupon, Applicant's Exhibit 2 marked for identification)

Q This has been marked Turner Exhibit Number 2. Is that the sketch that you are referring to?

A That's correct. That shows the essential completion that was used on this well.

Q Go ahead.



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A The well was spudded on October the 6th, 1961 and it was actually completed on December 1st, 1961. The well was completed for an initial production of 2,270,000 cubic feet of gas per day from the Dakota sandstone, and 25 barrels of oil a day from the Gallup sandstone. The well was drilled to a total depth of 6,800 feet and has a plugged back total depth of 6,753 feet. 8 and 5/8 inch surface casing was set at 331 feet with 200 sacks of cement which was circulated back up to the surface and a five and a half inch production string was cemented with 350 sacks of cement at 6,793 feet. Temperature logs surveys determined at the top of the cement is at 4,800 feet. There are four potential producing horizons in the area: the Pictured Cliff sandstone, the top of which was at 1,970 feet; the Mesaverde, the top of which is at 6,410 feet; the Dakota sandstone, the top of which was at 6,793 feet; and the Gallup sandstone, the top of which was encountered at 5,725 feet. At the present time the well has been completed and is shut in awaiting a pipeline connection and permission from the State Oil Commission to go ahead and produce their oil and gas.

Q Did you give us the producing zones?

A The producing zones in the well as previously stated, are the Gallup sandstone, which interval was encountered between 5,728 and 5,840 feet, which was perforated at 4 shots per foot, the Dakota sandstone, which was perforated between 6,412 and 6,538 feet and also perforated with four shots per



foot.

Q In your opinion, will this completion here preserve any comingling of the hydrocarbon between the two zones, Mr. Barnes?

A Yes, it's a completion that has been used in the area previously in their wells and there's no reason why there should be any damage to either formation, one from the other, or any comingling of the gas and oil, one from the other.

Q Is the packer proposed to be used of a standard type?

A Yes, sir, it is.

Q Has the experience in this area been good with this type of completion, as far as mechanical aspects are concerned?

A Yes, sir, as far as mechanical aspects are concerned, it's been a very successful type of completion in the area.

Q Can the Gallup zone be pumped in the event it becomes necessary to do so?

A Since the 2 and 1/16 inch tubing has been hung above the packer, it would be possible to pump through the tubing, or swab through the tubing, if additional stimulation or change in production method was required.

Q As far as we know now, the Gallup is flowing, is that correct?

A Yes, both zones are flowing at the present time.

Q Is there anything further you would like to mention

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connection with this case?

A No, I believe that's all. I might say that actually if it wasn't for the fact that they extended the Gallup oil pool in there, there wouldn't really be any problem in here, it would be just a perfectly normal completion inside the pool. That's what makes it a rather unique well at the moment.

Q Do Exhibit 1 and 2 fairly represent what they purport to show?

A Yes, they do.

MR. FEDERICI: We would like to offer the exhibits, Mr. Utz.

MR. UTZ: Without objection the exhibits 1 and 2 will be entered into the record of this case.

(Whereupon, Applicant's Exhibits 1 and 2 admitted to the record)

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

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Barnes, I believe you said the top of the Pictured Cliff was 1,917?

A That's correct.

Q Are there any other producing zones between the bottom of the surface casing at 331 and the top of the cement at 4,800?

A As far as we know, the cement placement in the well

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was such as to protect any and prevent comingling of fluids from any other potential producing formations in the area. The annulus outside the casing between the production string and the wall of the hole was left filled with heavy drilling mud to prevent any movement of fluid one way or the other.

Q Do you know whether or not there is any Chacra developed in the Lewis shale in this area?

A The Chacra sandstone is present throughout this area, but in this particular well, as far as I know, there's no commercial development of this sand.

Q Do you feel that the mud behind the five and a half inch casing above the 4,800 foot level is sufficient to prevent any possible communication vertically?

A Yes, I do.

MR. UTZ: Any other questions of the witness? The witness may be excused.

(Witness excused)

MR. UTZ: Any statements in this case? The case will be taken under advisement.

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STATE OF NEW MEXICO    )  
                                  )  
COUNTY OF BERNALILLO    )    ss

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 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.

DATED this 25th day of April, 1962, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

*Ada Dearnley*  
NOTARY PUBLIC

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. 2541 heard by me on April 25, 1962

*Frank G. [Signature]* Examiner  
New Mexico Oil Conservation Commission

