

BEFORE THE  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
May 22, 1963

EXAMINER HEARING

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IN THE MATTER OF:

Application of Sinclair Oil & Gas Company for  
a dual completion, Lea County, New Mexico.  
Applicant, in the above-styled cause, seeks  
approval of the dual completion (conventional)  
of its State Lea 403 Well No. 4 located in  
Unit D of Section 17, Township 18 South, Range  
35 East, Lea County, New Mexico, to produce  
oil from the Bone Springs and Devonian forma-  
tions through parallel strings of tubing.

CASE 2825

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BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: We will call Case 2825.

MR. DURRETT: Application of Sinclair Oil & Gas Company  
for a dual completion, Lea County, New Mexico.

MR. WHITE: If the Examiner please, Charles White,  
Gilbert, White, and Gilbert, Santa Fe, New Mexico, appearing on  
behalf of the Applicant. We have one witness to be sworn at this  
time.

(Witness sworn.)

R. M. ANDERSON

called as a witness, having been first duly sworn on oath, testi-  
fied as follows:

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## DIRECT EXAMINATION

BY MR. WHITE:

Q Will you state your full name, please, for the record?

A R. M. Anderson.

Q By whom are you employed and in what capacity?

A Sinclair Oil and Gas Company, as a Senior Engineer in the Midland, Texas, Division Office.

Q Have your qualifications as a Petroleum Engineer been previously accepted by the Commission?

A They have.

Q Are you familiar with the subject application?

A I am.

Q Will you briefly state what the Applicant is seeking?

A We are seeking permission to dually complete our State 403 Well No. 4 in an undesignated pool in Lea County, New Mexico. We wish permission to dual this well between the Devonian and Bone Springs formations, and this is the first dual in this area under the rules, and a hearing is required. I have prepared an area map which I would like to introduce as Exhibit 1.

(Whereupon, Applicant's Exhibits Nos. 1, 2, and 3 marked for identification.)

The subject well is circled in red on the area map and is in a northwest corner of Section 17. To the north, the wells in that development are classified as being in the Vacuum Pool and it's a multi-pay area. The Devonian wells are not on this

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map, they are on to the north and west of the area of this map. There are no Devonian wells in the Vacuum Pool on my map. The South Vacuum-Devonian Pool wells are shown down in the southeast portion of the map.

Q What's the status of the well at the present time, Mr. Anderson?

A It is dually completed with the Devonian zone producing and the Bone Springs zone shut-in pending approval of this application.

Q What are the crude characteristics?

A The Devonian gravity is 52 gravity; the Bone Springs gravity is 42. The gas-oil ratio of the Devonian is 262 to 1; the Bone Springs was 542 to 1. There is a sour odor about the Devonian gas. It has a small amount of hydrogen sulfite in it but can be readily detected with the -- the odor is very readily detectible. Both crudes are classified as sweet crudes by the pipeline. I believe that's all the data I have.

Q Do you anticipate any paraffin or corrosion problems?

A No, sir, we do not anticipate any.

Q Would you explain to the Examiner the down-hole equipment and in so doing, refer to what has been marked as Exhibit 2?

A Exhibit 2 is a revised or corrected diagrammatic sketch of the well. The sketch that was submitted with the application was submitted before the Bone Springs was perforated, so it was necessary to change the Bone Springs perforations and the exact



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setting of the permanent type packer that is in the well.

The well is equipped with seven-inch casing set at 11,896, with top of the cement at 6400 feet behind the seven-inch. There are parallel strings of tubing in the well, one of which has a seal assembly and is set through the Model "D" Packer and produces the Devonian zone. The upper string is just hanging in the annulus and is set at 8811 feet.

Q The perforation points are shown on the exhibit?

A Yes, perforations are shown on the exhibit, and the top and bottom of the formations that the wells are completed in are also shown.

Q Is it possible to artificially lift this crude, if necessary, under this installation?

A Yes, it is. Both strings are conventional two-inch I.D. tubing.

Q Is there any further testimony that you have to offer at this time?

A I have one other exhibit that I would like to present. We did not have available a log on the well when we filed our application, and I have one that I have marked showing the tops and bottoms of the formations and the perforations.

Q Can you give us any economics as to what savings there might be by this dual completion?

A No, sir, I do not have the economic data readily available.



Q Were these exhibits prepared by you or under your direction?

A Yes, they were.

MR. WHITE: At this time we offer the exhibits.

MR. NUTTER: Sinclair's Exhibits 1 through 3 will be admitted in evidence.

(Whereupon, Applicant's Exhibits Nos. 1, 2, and 3 received in evidence.)

MR. WHITE: That concludes our direct.

CROSS EXAMINATION

BY MR. NUTTER:

Q You didn't mention anything about the bottom hole pressures; do you have any information on that?

A No, sir, the pressures have not been measured on the zones. There's no reason to believe that they're abnormal. We have some drillstem test pressures but we have not run bottom hole pressure instruments.

Q Are both zones capable of flowing?

A Yes, sir.

Q I note that the well was drilled considerably deeper than the perforated interval. Did the well drill into water in the Devonian, do you know?

A Yes, the well did test water and I have indicated the drillstem, the bottom drillstem tests on the bottom of the standard scale on the log.



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Q Is this water-free production at the present time?

A Yes. Both zones are water-free production. The Devonian is water-free. There was a small amount of load water produced with the potential test on the Bone Springs, but it was positively identified as load water. We tested no water on drillstem test in the Bone Springs. We do not expect to produce any water from Bone Springs from this well, initially, at least.

Q Are both zones capable of making top allowable for their depths?

A Yes.

MR. NUTTER: Are there any other questions of Mr. Anderson? He may be excused.

(Witness excused.)

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

MR. WHITE: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2825? We'll take the case under advisement.

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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 2nd day of June, 1963.

*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. 2825 heard by me on 5/22, 1963.

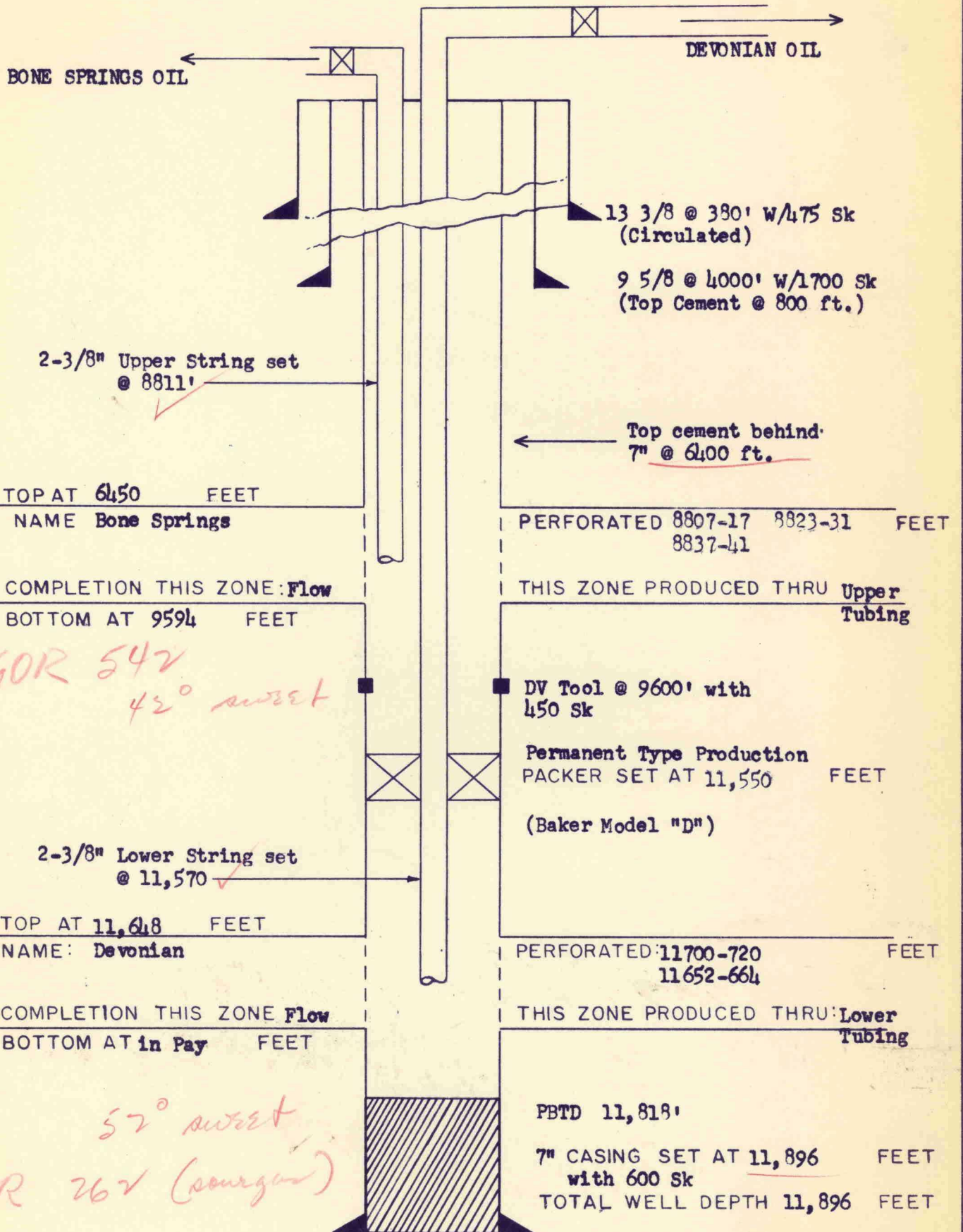
*[Signature]*, Examiner  
New Mexico Oil Conservation Commission



LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE



# DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION INSTALLATION



Sinclair Oil & Gas Co.  
Case 2825  
Exhibit No. 2

COMPANY Sinclair Oil & Gas Company  
LEASE State Lea 403 WELL No. 4 (CORRECTED)  
FIELD Vacuum Pool Area  
DATE April 30, 1963

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE