CASE 2977: Application of Cities

Service for the dual completion
of its Brunson C Well No. 4.



APPlication, Transcripts, SMAIL Exhibits Etc. DRAFT

JMD/esr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 2977

Order No. R

APPLICATION OF CITIES SERVICE OIL CCMPANY FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

XX

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 5 , 1964 , at Santa Fe, New Mexico, before Daniel S Braminer -duly -appointed-by-the-Gil-Conservation-Commission-of-New Mexico, -hereinafter-referred-te-as-the-"Commission; "-in-accordance -with-Rule-1214-of-the-Commission-Rules-and-Regulations--

NOW, on this day of February, 1964, the Commission, a quorum being present, having considered the application of the Examiner, the record, and the recommendations of the Examiner,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Cities Service Oil Company, seeks authority to complete its Brunson C Well No. 4, located in Unit J of Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Blinebry and Drinkard Oil Pools through parallel strings of 1 1/2-inch and 2 1/16-inch tubing, respectively, with separation of zones by a packer set at approximately 620/ feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Cities Service Oil Company, is hereby authorized to complete its Brunson C Well No. 4, located in Unit J of Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Blinebry and Drinkard Oil Pools through parallel strings of 1 1/2-inch and 2 1/16-inch tubing, respectively, with separation of zones by a packer set at approximately 630/ feet;

PROVIDED HOWEVER, That the applicant shall complete, operate, and roduce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, That the applicant shall take packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 5, 1964

9:00 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

- CASE 2976: Application of Midland Production Corporation for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Hill & Meeker Phillips Cryer Well No. 34-2 located 2310 feet from the South and West lines of Section 34, Township 10 South, Range 36 East, to bottom in the Devonian formation 1980 feet from the North and West lines of said Section 34, Lea County, New Mexico.
- CASE 2977: Application of Cities Service Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its Brunson C Well No. 4, located in Unit J of Section 3, Township 22 South, Range 37 East, Lea County, New Mexico, to produce oil from the Blinebry and Drinkard Oil Pools through parallel strings of 1 1/2 inch and 2 1/16 inch tubing, respectively.
- CASE 2978: Application of Union Oil Company of California for a water-flood expansion, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its South Caprock Queen Unit Waterflood Project, Caprock Queen Pool, Chaves County, New Mexico, by the conversion of nine additional wells located in Sections 28, 29, and 33, Township 14 South, Range 31 East, and Sections 3 and 4, Township 15 South, Range 31 East, to water injection.
- CASE 2979: Application of Pan American Petroleum Corporation for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Abo formation through its U. S. A. Malco Refineries 'G' Well No. 13, located 2302 feet from the South line and 1650 feet from the West line of Section 10, Township 18 South, Range 27 East, Empire Abo Pool, Eddy County, New Mexico.
- CASE 2980: Application of Pieneer Production Corporation for force-pooling and an unorthodox location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Basin-Dakota Pool underlying the W/2 of Section 15, Township 29

-2- Case 2980 continued from page 1

North, Range 13 West, and authorizing the drilling of a well for said unit at an unorthodox location 1625 feet from the South line and 1250 feet from the West line of said Section 15, Town of Farmington, San Juan County, New Mexico.

- CASE 2981: Application of Gulf Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northwest Eumont Unit Area comprising 2,760 acres, more or less, of State and fee lands in Township 19 South, Range 36 East, Lea County, New Mexico.
- CASE 2982: Application of Gulf Oil Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Eumont Gas Pool by the injection of water into the Queen formation through 15 wells in Sections 11, 14, 15, 22 and 23, Township 19 South, Range 36 East, Lea County, New Mexico.
- CASE 2983: Application of The Pure Oil Company for a unit agreement,
 Lea County, New Mexico. Applicant, in the above-styled
 cause, seeks approval of the Brinninstool Unit Area comprising
 17,237 acres, more or less, of Federal and State lands in
 Townships 23 and 24 South, Ranges 32 and 33 East, Lea County,
 New Mexico.
- CASE 2984: Application of The Pure Oil Company and Continental Carbon Company to utilize natural gas in a carbon black plant, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to utilize approximately 7 MCF of Devonian gas per day in the Continental Carbon Company carbon black plant near Eunice, New Mexico, said gas to be produced from The Pure Oil Company Wilson Deep Unit Well No. 1, located in the SE/4 NW/4 of Section 13, Township 21 South, Range 34 East, Lea County, New Mexico.
- CASE 2985: Application of Shell Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Bootleg Ridge Unit Area comprising 10,818 acres, more or less, of State and Federal lands in Townships 22 and 23 South, Ranges 32 and 33 East, Lea County, New Mexico.

- CASE 2986: Application of Shell Oil Company to establish a GOR limit,
 Lea County, New Mexico. Applicant, in the above-styled
 cause, seeks the establishment of a special gas-oil ratio
 limitation of 5,000 cubic feet of gas for each barrel of oil
 produced in the Mesa-Queen Pool, Lea County, New Mexico.
- CASE 2987: Application of Shell Oil Company for a waterflood project, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot waterflood project in the South Bitter Lake-San Andres Pool, by the injection of water into the San Andres formation through three wells at unorthodox locations in Sections 27 and 34, Township 10 South, Range 25 East, Chaves County, New Mexico.

CASE 2480 (Reopened):

In the matter of Case No. 2480 being reopened pursuant to the provisions of Order No. R-2182-A which continued for a period of one year the temperary 80-acre proration units established by Order No. R-2182, Henshaw-Wolfcamp Pool, Eddy County, New Mexico. All interested parties may appear and show cause why said pool should not be developed on 40-acre proration units.

CASE 2988: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit George E. Willett and all other interested parties to appear and show cause why the SDD Hare Well No. 7,located 600 feet from the South line and 1360 feet from the East line of Section 14, Township 29 North, Range 11 West, San Juan County, New Mexico, should not be plugged in accordance with a Commission-approved plugging program.

DOVERNOR JACK M. CAMPBELL CHAIRMAN

State of New Mexico

Bil Conserbation Commission

LAND COMMISSIO E. B. JOHNNY WALKER



BANTA FE

February 12, 1964

STATE SECLOSIST A L PORTER JR. MORETARY . DIRECTOR

Mr. Jason Kellahin	Kel Fo	.1	ahin
Attorneys	at	I	.ew
Box 1769	He'	w	Mexico

a :	Case No	2977
••	order Mo	
	Applicants	ï

Cities Service

Dear Sire

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

A. L. PORTER, Jr. Secretary-Director

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Bobbs occ		•		
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BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 2977 Order No. R-2649

APPLICATION OF CITIES SERVICE OIL COMPANY FOR A DUAL COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 5, 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of February, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Cities Service Oil Company, seeks authority to complete its Brunson C Well No. 4, located in Unit J of Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Blinebry and Drinkard Oil Pools through parallel strings of 1 1/2-inch and 2 1/16-inch tubing, respectively, with separation of zones by a packer set at approximately 6201 feet.
- (3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Cities Service Oil Company, is hereby authorized to complete its Brunson C Well No. 4, located

-2-CASE No. 2977 Order No. R-2649

in Unit J of Section 3, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Blinebry and Drinkard Oil Pools through parallel strings of 1 1/2-inch and 2 1/16-inch tubing, respectively, with separation of zones by a packer set at approximately 6201 feet;

PROVIDED NOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, That the applicant shall take packerleakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Drinkard Oil Pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

TACK M. CAMPBELL Chairman

E. S. WALKER, Member

4. Karter, p.

A. L. PORTER, Jr., Member & Secretary

OIL CONSERVATION COMMISSION Case 2971

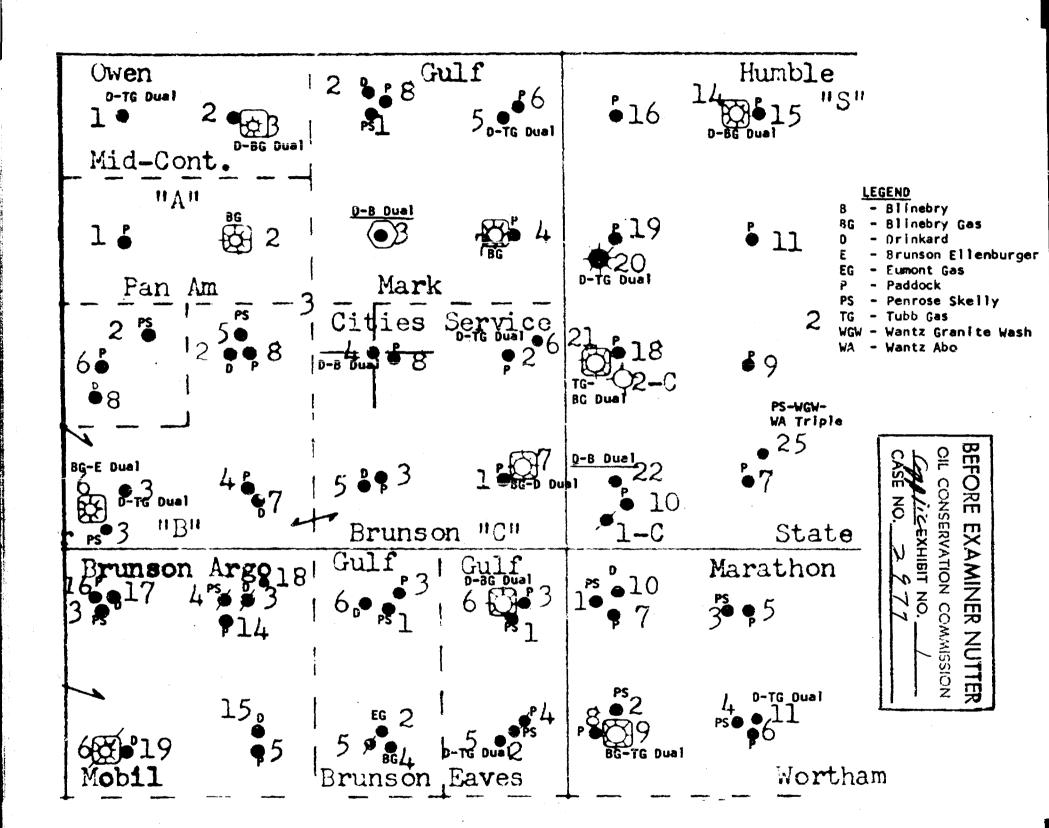
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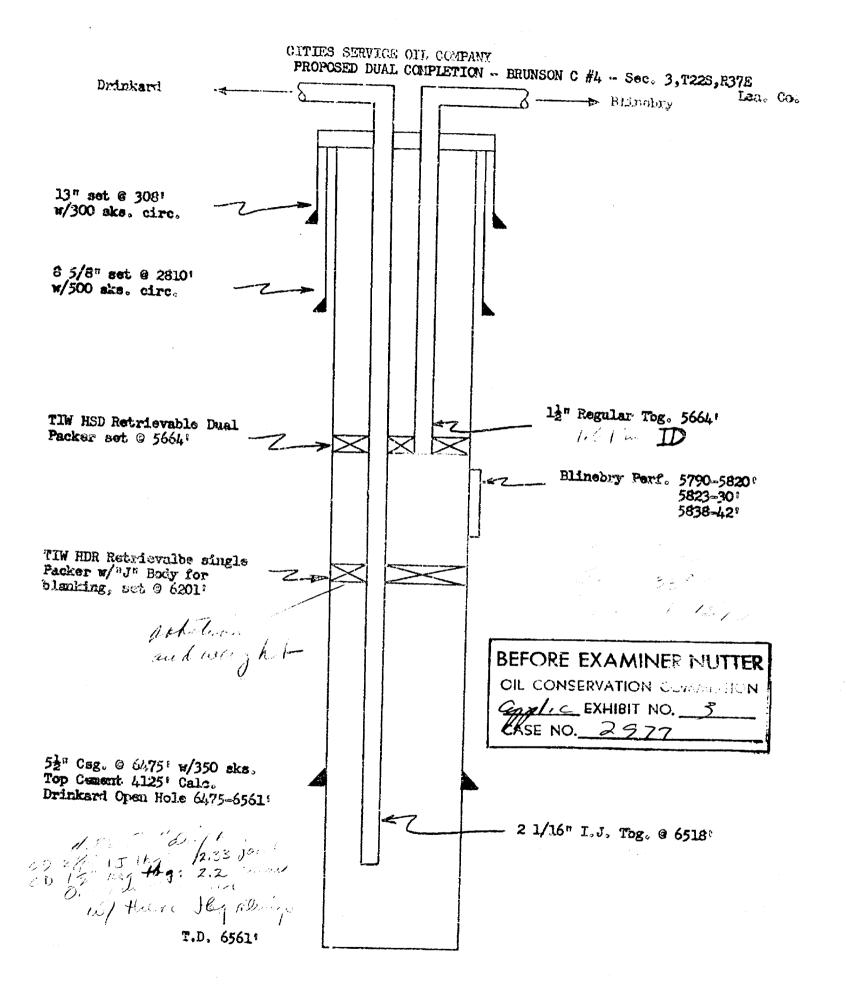
HOBBS, NEW MEXICO

January 9, 1964 Date Oil Conservation Commission 80x 871 a Santa Fei New Mexico === Re: Proposed MC Application Gentlemen: I have examined the application dated_____ for the Cities Service Gil Co. Brunson "C" #4-J 3-22-37 Operator Lease & Well No. and my recommendations are as follows: Blinebry acreage dedicated to #7-P 3-22-37---E.F.E. O.K .--- J.W.R.

Yours very truly,

DIL CONSERVATION COMMISSION





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Charles Sandath the teen him

Box 69

HOBBS, NEW MEXICO HORBE CAPTURE O. C. C.

JAN 8 3 40 74 144

January 7, 1964

Mr. A. L. Porcer, Jr. Secretary-Director New Mexico Oil Conservation Commission Post Office Box 871 Santa Fe, New Mexico

> Re: Erunson C #4 J-S3-T22S-R37E Blinebry & Drinkard Lee County, New Mexico

Dear Sir:

Attached are two copies of Cities Service Cil Company's application to dually complete Brunson C #4 in the Blinebry (Oil) and Drinkard (Oil) Pools. Equipment will be installed as shown on the attached diagrammatic sketch.

The offset operators have been furnished with copies of this proposal.

Tours very truly,

CITTES SERVICE OIL COMPANY

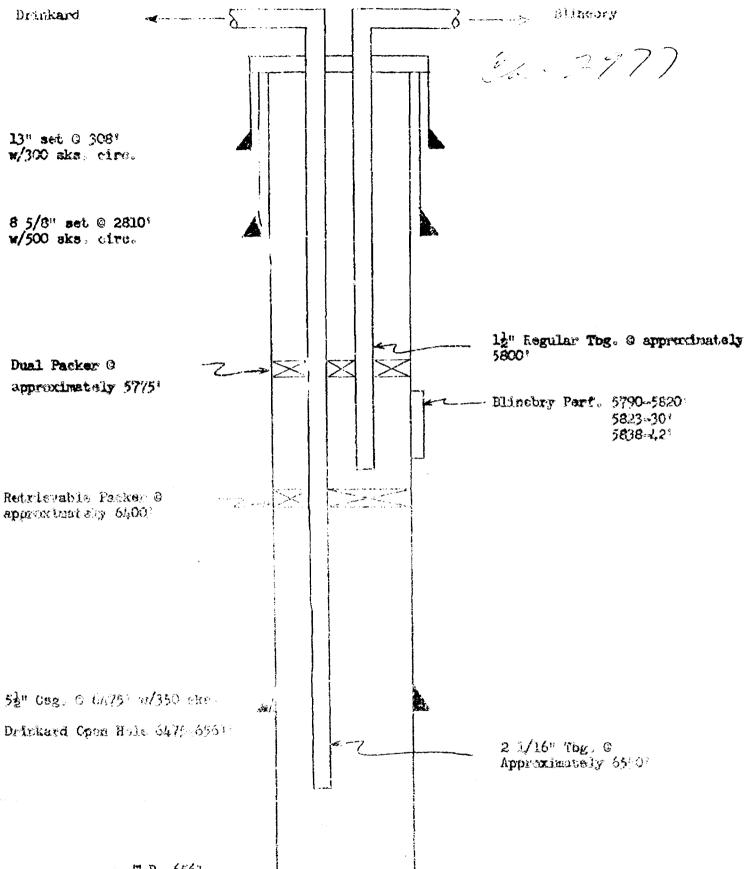
B. H. Furvey, Je // District Engineer

EHF/CTA/Lar

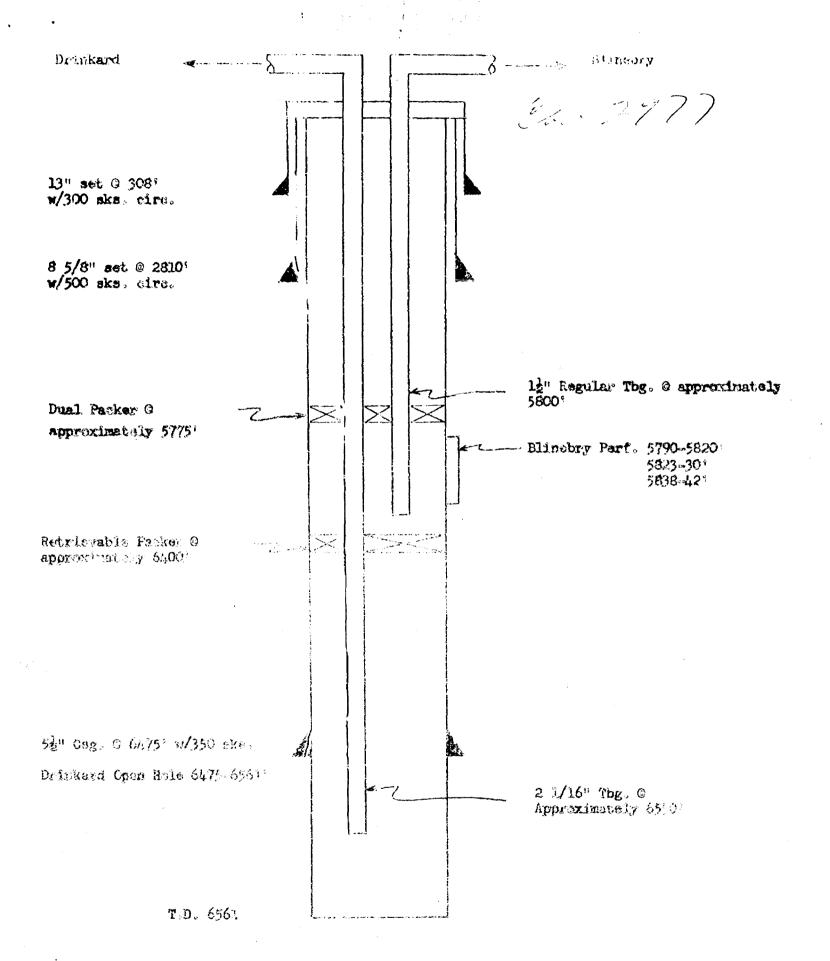
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State Land Commissioner

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T.D. 6561



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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico February 5, 1964 HEARING EXAMINER DEARNLEY-MEIER REPORTING SERVICE, Inc. IN THE MATTER OF: Application of Cities Service Oil Co. for a dual completion, Lea County, New Mexico. Case No. 2977 BEFORE: DANIEL S. NUTTER, EXAMINER TRANSCRIPT OF HEARING



BEFORE THE

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico February 5, 1964

EXAMINER HEARING

IN THE MATTER OF:

Application of Cities Service Oil Company for a dual completion, Lea County, New Mexico.

CASE NO. 2977

BEFORE: DANIEL S. NUTTER, EXAMINER

TRANSCRIPT OF HEARING

MR. NUTTER: Call next Case No. 2977.

MR. DURRETT: Application of Cities Service Oil Company

for a dual completion, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin appearing for the applicant.

We have one witness.

(Witness sworn)

E. F. MOTTER,

called as a witness herein, having been first duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:



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New Mexico

- Would you state your name, please? Q
- Α E. F. Motter.
- By whom are you employed and in what position? Q
- Cities Service Oil Company, Division Engineer. Α
- Have you testified before the Oil Commission and had your ହ ualifications made a part of the record?
 - Yes, sir, I have. Α
 - All right.

MR. KELLAHIN: The witness' qualifications acceptable? MR. NUTTER: Yes, sir.

- (By Mr. Kellahin:)Mr. Motter, are you familiar with the Q application of Cities Service Oil Company in Case 2977?
 - Yes, sir.
 - What is proposed by Cities Service in this case?
- We propose to dual complete the Brunson C No. 4 as a Drinkard and Blinebry oil dual.
- Now, referring to what has been marked as Exhibit Number One, would you identify that exhibit and discuss the information shown on it?
- Yes. This is a plat of the area, indicating the Brunson, Cities Service Brunson "C" lease colored in yellow with the subject well, the Brunson "C" No. 4 indicated by red hashes. This well is located 1980 from the South line and 1980 from the East line, Section 3, Township 22 South, Range 37 East, Lea County. The well was originally a Drinkard single completion, and has been



producing from seven to ten barrels of oil a day and about 90 MCF of gas per day, penalized. Within the past year, there have been a couple of other duals offseting this well in the Drinkard and Blinebry. They are the Humble "S" No. 22, Unit "M", Section 2, 22, 37. That has been outlined in red pencil. This well currently is producing through parallel strings of 2 3/8 tubing, producing about eight barrels a day from the Blinebry and four barrels a day from the Drinkard, and both zones are penalized by high ratio.

Immediately north of the proposed dual, is a dual completion in the Drinkard and Blinebry, which is the Gulf No. 3 Mark, and this well is located in Unit "G", Section 3, 22, 37. It is completed in 7 inch casing, with two strings of 2 3/8 inch tubing. Its current production is 17 barrels of oil from the Blinebry and three barrels from the Drinkard. I don't believe the Drinkard would be penalized, but the Blinebry is penalized because of ratio. The Drinkard does have a high ratio, but capacity is somewhat limited. To protect ourselves, we decided we had better go into it and test the Blinebry in the Cities Service Brunson "C"-4, which is completed in the Drinkard and ran a log through the Blinebry formation, which, I believe is Exhibit Two. We perforated the Blinebry from 5790 to 5820, 5823 to 30, 5838 to 42. Acidized with a thousand gallons, followed this with 15,000 gallons lease crude and 15,000 pounds of sand frac. The potential from this zone was 60 barrels of oil per day on 16/64ths choke with a GOR of 5965.

The gravity of the Blinebry is 33 degrees. We have not



run a bottom hole pressure, but we have checked some of the offsets, and we understand that the pressure is in the neighborhood of 1590 pounds.

Q Do you have any information on the gravities of other zones?

A We plan to dual the Drinkard, which has 37 degrees gravity and bottom hole pressure in the neighborhood of 800 pounds.

Q Now, referring to what has been marked as Exhibit No. 3, would you discuss that exhibit?

A Yes. This is a schematic of the dual completion as we propose it. We will set a Texas Iron Works Petrievable single packer at 6201, and a Texas Iron Works Retrievable dual packer at 5664. The long string to the Drinkard will be composed of 6518 feet of 2 1/16th Interval Joint J-55 tubing and the Blinebry tubing string will bel½ inch regular tubing, set at 5664. This well has 5½ inch casing, 15½ pound. The drift is 4.825. The OD of the 2 1/16th inch I.J. tubing is 2.33, and the inch and a half regular joint is 2.2, about 30 hundredths of an inch clearance. We have a large surplus of inch and a half tubing on hand, and one of the reasons for running this, it saved a cash outlay of approximately \$3,300.00 for additional string of 2 1/16th, which would comply with the present administrative procedure for multiple completions.

We have run some friction loss calculations on the inch and a half tubing, and at the present allowable of 52 barrels a day with an approximate 6,000 to one ratio, the friction loss is



9 Albuquerque, New Mexico

243-669

Mexico General Court Reporting Service Building Simms

Suite 1120

practically negligible when compared to 2 1/16th tubing. way, I think the present rules permit an ID of 1.67 by administrative procedure, internal diameter of inch and a half regular tubing, 1.61.

- We are talking about six one hundredths of an inch? Q
- That is about right.
- Other than that one factor, would this application be elligible for administrative approval?
 - That's correct.
- Q Is this the type of dual completion that has been approved by the Commission , other than the tubing size?
 - Yes, many times. Α
 - Will all the zones be fully protected?
- Yes, they will. Of course, we will run packer leakage tests on approval of this application, and segregation tests as necessary.
- Were Exhibits One, Two and Three prepared by you or under your supervision?
 - Α Yes, sir, they were.

MR. KELLAHIN: Like to offer in evidence Exhibits One, Two and Three.

MR. NUTTER: Cities Service's Exhibits One through Three will be admitted in evidence.

MR. KELLAHIN: That is all I have on direct examination.

Seneral Court Reporting Service

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MR. NUTTER: Are there any questions of Mr. Motter?

CROSS EXAMINATION

BY MR. NUTTER:

- Q Mr. Motter, is it expected that the Blinebry will flow on completion?
 - A Yes, it is.
 - Q So, you won't have any artificial lift problem?
 - A No.
 - Q What did you say the OD was of the 2 1/16th IJ tubing?
 - A The Interval Joint, the joint portion is 2.33 inches.
 - Q What about the smaller tubing string?
 - A The colars are 2.2.
- Q Mr. Motter, this Texas Iron Works HDR Retrievable packer is set by what means?
- A Mechanically set packer, they are both, dual and single, are set on the 2 1/16th tubing string.
 - Q Are they set by rotation or weight?
 - A Set by weight, combination of rotation and weight.
 - Q Are there any other questions of Mr. Motter?
- MR. NUTTER: He may be excused. Do you have anything further, Mr. Kellahin?
 - MR. KELLAHIN: That is all I have, Mr. Nutter. Thank you
 - MR. NUTTER: Does anyone have anything they wish to offer
- in Case 2977? Take the Case Under advisement.



STATE OF NEW MEXICO

COUNTY OF BERNALILLO

I, ROY D. WILKINS, 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 of Office, this loth day of February, 1964.

My Commission Expires: September 6, 1967.

> I do hereby certify that the foregoing is a complete record of the proceedings in

the Examiner hearing of Case No. 2977 heard by we on.

_. Examiner Juny New Mexico Oil Conservation Commission



New Mexico Albuquerque,

Suite 1120 Simms Building