Case Number 1566

Application Trascripts

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 14, 1971

EXAMINER HEARING

IN THE MATTER OF:

Application of W & H Production- )
Drilling, Inc. for an unorthodox )
gas well location, Eddy County, )
New Mexico. )

Case No. 4566

BEFORE: DANIEL S. NUTTER, EXAMINER



TRANSCRIPT OF HEARING

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MR. NUTTER: Now we will just go ahead and proceed with Case Number 4566. MR. HATCH: Case 4566. Application of W & H Production-Drilling, Inc. for an unorthodox gas well location, Eddy County, New Mexico. MR. BERRY: I am John T. Berry with W & H Production-Drilling Company. MR. HATCH: John T. Berry? MR. BERRY: Yes, sir. This is an incorporation? MR. HATCH: MR. BERRY: Yes, sir. We are incorporated, and we are representing Black River Corporation, who is the operator of the well. MR. HATCH: You don't have an attorney or anything? MR. BERRY: No, sir, we do not. Mr. Berry, what is your position MR. HATCH: with W & H Production? MR. BERRY: I am vice-president of the engineering. Now, I should warn you before we MR. HATCH: take this that it is the Attorney General's opinion that corporations must be represented at these hearings by an

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attorney.

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MR. BERRY: Forgive me. I was

I was not aware of that.

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MR. NUTTER: They are representing another corporation, too. MR. HATCH: And you are representing another corporation in this. Who is the actual operator? 5 MR. BERRY: Black River Corporation, sir. б MR. HATCH: And they will be the operator? And 7 what is the interest of W & H Production Drilling, Inc.? MR. BERRY: We are consultants, sir. MR. HATCH: Consultant? 10 MR. BERRY: Yes, sir. 11 MR. HATCH: The Examiner has expressed the opinion 12 he would much rather have an attorney here. 13 MR. BERRY: Would it be possible for me to secure an attorney this morning and --14 15 MR. NUTTER: There are a couple of them running around in the hall. I am not recruiting for them, but --16 MR. HATCH: I think it would be best, because 17 we have here two corporations involved. 18 MR. BERRY: Yes, sir. 19 MR. NUTTER: One corporation representing another 20 That is really sticky. corporation. 21 MR. HATCH: So why don't we skip this while you 22 see if you can contact somebody. 23 MR. NUTTER: Let's take a fifteen minute recess. 24

(Whereupon, a recess was held.)

MR. NUTTER: The hearing will come to order, 2 please. We'll proceed now with Case Number 4566. 3 MR. HATCH: If the Examiner please, Mr. Clarence Hinkle has asked that he be entered as making an appearance 5 in this case in association with Mr. Jack Letts. 6 MR. NUTTER: Would you proceed, Mr. Letts? MR. LETTS: Do you wish to swear him? (Witness sworn) JOHN T. BERRY having been first duly sworn according to law, testified 10 upon his oath as follows: 11 DIRECT EXAMINATION 12 BY MR. LETTS: 13 Will you state your name, please? 14 John T. Berry. 15 And your association? 16 I am vice-president of the engineering with W & H 17 Production Drilling, Incorporated, Midland, Texas. 18 And this is what type firm? Q 19 We are basically a consulting engineering firm. A 20 And in this case you are consulting for what firm, 21 please? 22 The Black River Corporation. 23 And Black River Corporation, will you tell us a 24 little about that? 25

1	A	Black River Corporation is a recently formed
2		organization, and as such, they have no engineering
3		staff at all, and this is how we have been engaged
4		in doing work for them.
5	Ω	And Black River Corporation is involved in this
ó		application through what means? How do they happen
7	÷	to be involved in this?
8	A	Black River Corporation is the operator of the well
9	l e.	in question.
10	Q.	And they do not own the lease? How did they happen
11	and the second seco	to be drilling this well?
12	A.	Well, the lease on which the well was drilled was
13		obtained by Black River through a farmout agreement
14		with City Service Oil Company.
15	Q	And Black River drilled the well
16	A	Yes, sir.
17	Q	on a farmout? And now the well is owned how?
18	A	Well, the well is now owned fifty percent by City
19	8.4	Service Oil Co pany and fifty percent by Black River
20		Corporation.
21	Ŏ	I hand you an exhibit marked 1 which states the facts
22		involved and the reasons why Black River Corporation,
23		through W & H Production Drilling, are asking for an
24	\$	unorthodox gas well location.
75		Mr. Berry, would you like to state the facts?

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When the wall was originally contemplated Yes, sir. to be drilled in, 1980 location was considered to be the proper point to drill, and upon having the location surveyed in 1980 foot locations, spotted in a small alfalfa field, which, if you would look at this plat, you can see a road going northeastsouthwest through Section 34 of Township 25 South, Range 24 East.

And I am not exactly sure that this road is depicted exactly right, but this little valley through here, small tracts of land, five to ten acres in size, have been cleared of rock and are now being farmed by the people living in the area.

This 1980 location spotted in an alfalfa field, and in consideration of Mr. Ballard, the local farmer, the 1650 foot location was drilled, which would have been a normal oil well location, which was our original intent, to drill a Wildcat Devonian oil well.

In the course of drilling this well, we got to the Morrow formation, and either the weight of mud we had at the time -- well attempted to unload, but the weight was gradually increased to such a point that we had a balanced situation.

But a drill stem test was made in the Morrow in which we had a very positive test of some 20.6 million

rate flow.

And due to the historic fact that Morrow is most of the time permanently damaged by water, the decision was made to TD the well through the Morrow and attempt completion at that point, which we completed the well in the potential for forty-one and a half million cubic feet of gas per day.

- In other words, you would have drilled the normal oil location of 1980 except for the fact that it fell in an alfalfa field, and you moved it to avoid damage to the field.
- That is the only reason that it was moved to the 1650 location, yes, sir.
- And it was intended as a Devonian test. I think your 14 application stated a Devonian test, right? 15
  - Yes, sir. We originally intended to drill to the Devonian for an oil test.
  - Have there been any encouragements in the Morrow around this location?
    - Well, not really. City Service drilled a dry hole in the Section 28, which is a northwest from our Section 34.
    - That bottomed in what formation?
    - That bottomed in the Morrow.
- In the Morrow?

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•	A	No. I beg your pardon. That bottomed in the
2	المستحراص	Devonian.
3	Q	Devonian?
4	A	Yes, sir.
5	Q	And went through the Morrow, and they didn't try to
6	·	complete in the Morrow?
7	A	No, sir. They were low in the Morrow, and it so
8	đ	happened that the structure in our City's federal
9		well is some 214 feet higher in the Morrow than was
10		City Service Government in Section 28.
11	Q	I assume that since you were drilling with fairly
12		heavy mud that you had no intention of testing the
13		Morrow as you went down. Is that true?
14	A	Well, I'm sure that it would have been tested and
15		probably would have been planned to have been tested,
16	$V = V_{\alpha} \; .$	had they had any indication that it would have been
17	j.	productive, yes, sir.
18	Ω	But the first realization that you had that there was
19		that you had a potential gas reservoir was when the
20	. '	well attempted to blow out?
21	A	Yes, sir, that's right.
22		MR. LETTS: Do you have any questions?
23		MR. HATCH: I would like to I think probably
24	we n	eed to do some amending. Perhaps I misunderstood the
25	lett	er.

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We show this as the application of W & H Production Drilling, Inc., for unorthodox gas well location, and if I understand correctly, now, it is really the application of Black River Corporation. It is the operator.

THE WITNESS: Yes. Black River is the operator.

MR. HATCH: And probably any order issued of this really should, I think, be in the name of Black River Corporation.

MR. LETTS: I believe so. I wonder now if it shouldn't be in the name of Black River and City Service, since City Service now has a half interest in the well; is that right?

THE WITNESS: Well, they are a half interest owner.

MR. NUTTER: Well, normally, we only mention the operator.

MR. HATCH: The operator. And Black River is the operator?

THE WITNESS: Yes, sir. Black River is the operator.

MR. NUTTER: And the application was by W & H Production on behalf of Black River Corporation? THE WITNESS: Black River Corporation, yes.

MR. NUTTER: That will be fine. And the well was projected as an oil well? THE WITNESS: Yes. MR. NUTTER: And it inadvertently recovered gas? Now, this is a real good gas well, is it not? THE WITNESS: Yes, sir. MR. NUTTER: Has it been connected yet? THE WITNESS: No. It hasn't. They are in the process of negotiating a gas contract now. 10 MR. NUTTER: Are there any further questions of 11 Mr. Berry? He may be excused. (Witness excused) 12 13 MR. NUTTER: Do you have anything further, Mr. 14 Hatch? MR. HATCH: No, sir. 15 MR. NUTTER: Does anyone have anything they wish 16 17

to offer in Case Number 4566? We will take the case under advisement.

MR. HATCH: I believe the Examiner, I think, had a telephone call. For the record, City Service did call yesterday.

They said on account of the Western Union strike they were unable to send a telegram, but a letter was following, and they do concur in the application.

MR. NUTTER: Very good. Thank you. If there is

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## $\underline{\underline{I}}$ $\underline{\underline{N}}$ $\underline{\underline{D}}$ $\underline{\underline{E}}$ $\underline{\underline{X}}$ WITNESS PAGE JOHN T. BERRY Direct Examination by Mr. Letts EXHIBITS Applicant's Exhibit Number One

STATE OF NEW MEXICO )
COUNTY OF BERNALILLO )

I, LINDA MALONE, Court Reporter, 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.

Suda Malore

I do hereby cartify that the foregoing is a constant record of the proceedings in the banks of heaving of tase to VIII heard by so on 1/4 1.

Now Merico Oil Conservation Commission

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### **OIL CONSERVATION COMMISSION**

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

July 20, 1971

GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

Re:	Case No.	4566		
Mr. Clarence Hinkle	Order No.	R-4173		
Hinkle, Bondurant, Cox & Eaton	Applicant:			
Attorneys at Law Post Office Box 10 Roswell, New Mexico 88201	Black River	Corporation		

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr.

Secretary-Director

Other	Mr. J.	K. Letts,		Building,	555 17th	Street,
Aztec OCC	<del> </del>	ew in the				
Artesia OCC	<u> </u>					
Hobbs OCC	<u> </u>	en en en	.,			
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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. 4566 Order No. R-4173

APPLICATION OF BLACK RIVER CORPORATION FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, MEW NEXICO.

### ORDER OF THE COMMISSION

### BY THE CONNISSION:

This cause came on for hearing at 9 a.m. on July 14, 1971, at Santa Fe New Mexico, before Examiner Daniel S. Mutter.

NCW, on this 19th day of July, 1971, 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, Black River Corporation, seeks an exception to Rule 104 of the Commission Rules and Regulations for approval of an unorthodox gas well location for the Black River Corporation Cities-Federal Well Mo. 1, located 1650 feet from the Morth line and 1650 feet from the West line of Section 34, Township 25 South, Range 24 East, MMPM, undesignated Morrow gas pool, Eddy County, New Mexico.
- (3) That the subject well was projected as a wildcat oil well at a standard location to test the Devonian formation but was productive of gas from the Morrow formation.

-2-CASE NO. 4566 Order No. R-4173

(4) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject undesignated Morrow gas pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

### IT IS THEREFORE ORDERED:

- (1) That an unorthodox gas well location is hereby approved for the Black River Corporation's Cities-Federal Well Mo. 1 in an undesignated Morrow gas pool at a point 1650 feet from the Worth line and 1650 feet from the West line of Section 34, Township 25 South, Range 24 East, NMPM, Eddy County, New Mexico, as an exception to Rule 104 of the Commission Rules and Regulations.
- (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.

STATE OF NEW MEXICO
OIL\_CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO. Member

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

SEAL

dr/

AREA CODE 915 694-6608 563-1343



### W & H Production-Drilling, Inc.

**Drilling and Completion Consultants** 

ROUTE 2 5000 W. INDUSTRIAL MIDLAND, TEXAS 79701

June 22, 1971

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JUN 2 3 1971

D. C. C. ARTEBIA, OFFICE, 71. JUN 24 AH 8 30

State of New Mexico
Oil Conservation Commission
District II
Drawer DD
Artesia, New Mexico 88210

Re: Black River Corporation Cities-Federal Well No. 1 F-Sec. 34, T25S, R24E Eddy County, New Mexico

### Gentlemen:

In as much as the above referenced well is located 1650 feet from the north and west lines of Section 34, T25S, R24E, and has been completed as a Morrow gas well, it is respectfully requested that a hearing be held for the purpose of approving the subject well as an unorthodox gas well location.

Yours very truly,

W & H PRODUCTION-DRILLING, INC.

J. T. Berry

Vice President Engineering

JTB: 1v

DOCKET MANEO

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CITIES SERVICE OIL COMPANY

Box 4906
Midland, Texas 79701
Telephone: 915 684-7131

July 14, 1971

New Mexico Oil & Gas Commission P. O. Box 871 Santa Fe, New Mexico 87501

Attention: Mr. Daniel Nutter

### Gentlemen:

As per our conversation of July 13, 1971, we recommend approval of the W & H Production Drilling, Inc's., Cities Service Federal Well No. 1 unorthodox gas well location 650' FN & WL, Section 34, 25S, Range 24E.

Yours yery truly

E. F. Motter
Region Engineer
Southwestern Region
Production Division

EFM:dlp

#### EXAMINER HEARING - WEDNESDAY - JULY 14, 1971

9 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:

- ALLOWABLE: (1) Consideration of the allowable production of gas for August, 1971, from fifteen prorated pools in Lea. Eddy, Chaves and Roosevelt Counties, New Mexico.
  - (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, for August, 1971.

CASE 4565:

Application of Tom L. Ingram to directionally drill, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to directionally drill his State M Well No. 1, having a surface location 330 feet from the South line and 1650 feet from the East line of Section 18, Township 17 South, Range 36 East, Vacuum-Abo Reef Pool, Lea County, New Mexico. Applicant proposes to plug the well back to approximately 7200 feet and whipstock the well to a bottom-hole location northwest of the surface location and no nearer than 330 feet to the boundary of the dedicated proration unit.

CASE 4566:

Application of W & H Production-Drilling, Inc. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Rule 104 of the Commission Rules and Regulations, approval of an unorthodox gas well location for the Black River Corporation Cities-Federal Well No. 1, located 1650 feet from the North and West lines of Section 34, Township 25 South, Range 24 East, undesignated Morrow gas pool, Eddy County, New Mexico.

CASE 4568:

Application of W. W. West for a unit agreement, Otero County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Dog Canyon Unit Area comprising 37,782 acres, more or less, of Federal, State and fee lands in Townships 25 and 26 South, Ranges 19 and 20 East, Otero County, New Mexico.

- CASE 4569: Application of Barber Cil, Inc., for an unorthodox oil well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing oil well at an unorthodox location 1326 feet from the South line and 5 feet from the West line of Section 13, Township 20 South, Range 28 East, as an infill well in its waterflood project in the Russell (Yates) Pool, Eddy County, New Mexico.
- CASE 4567: Southeastern New Mexico nomenclature case calling for an order for the creation, extension and contraction of certain pools in Lea, Chaves, Eddy and Roosevelt Counties, New Mexico.
  - (a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Sand Dunes-Morrow Gas Pool. The discovery well is the Texas American Oil Corporation Todd 36 State No. 1 located in Unit F of Section 36, Township 23 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM SECTION 36: W/2

(b) Contract the Red Lake Pool in Eddy County, New Mexico, by the deletion of the following described area:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM SECTION 18: SW/4 NW/4

(c) Extend the Atoka-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM SECTION 18: SW/4 NW/4

(d) Extend the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 27 EAST, NMPM SECTION 12; E/2

### (Case 4567 continued)

(e) Extend the Eagle Creek-San Andres Pool in Eddy County, New Mexico, to include therein:

# TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM SECTION 14: SE/4 NW/4 SECTION 22: W/2 NE/4 SECTION 23: W/2 SW/4 SECTION 26: N/2 NW/4 SECTION 27: NE/4 NE/4

(f) Extend the Southwest Gladiola-Devonian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 37 EAST, NMPM SECTION 26: N/2

(g) Extend the Haystack-Cisco Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 6 SOUTH, RANGE 27 EAST, NMPM SECTION 28: All

(h) Extend the Vada-Pennsylvanian Pool in Lea and Roosevelt Counties, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 35 EAST, NMPM SECTION 32: SW/4

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM SECTION 3: SE/4

### CASE 4560: (Continued from the June 30, 1971, Examiner Hearing

Application of Rijan Oil Company, Inc. for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot pressure maintenance project in the Slick Rock-Dakota Pool by the injection of water into the Dakota formation through its Rijan Wells Nos. 10, 12, and 14 located, respectively, in Units F, L, and K of Section 31, Township 30 North, Range 16 West, San Juan County, New Mexico.

## STATE OF NEW MEXICO OIL CONSERVATION COMMISSION EXAMINER HEARING

Docket No. 14-71 Case 4566

July 14, 1971



### Case <u>4566</u>

Application of W & H Production-Drilling, Inc. for an unorthodox gas well location, Eddy County, New Mexico.

Applicant, in the above styled cause, seeks as an exception to Rule 104 of the Commission Rules and Regulations, approval of an unorthodox gas well location for the Black River Corporation Cities-Federal Well No. 1, located 1650 feet from the North and West lines of Section 34, Township 25 South, Range 24 East, undesignated Morrow gas pool, Eddy County, New Mexico.

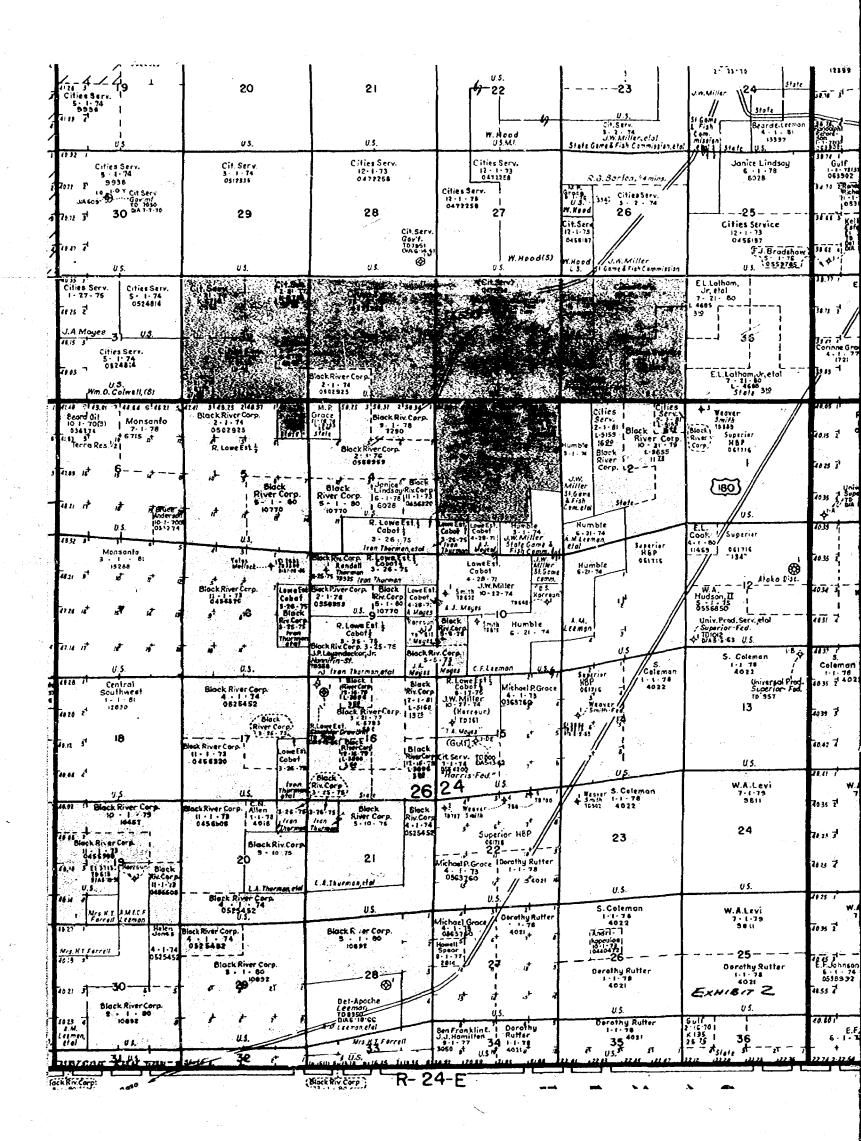


### STATEMENT OF FACTS

- Subject well originally intended to be staked 1980 feet from North and West Lines of Section.
- 2. The 1980 foot location was located in Alfalfa field and in consideration of Mr. Ballard's farming efforts, the 1650 foot location was drilled.
- 3. Numerous small fields 5 to 10 acres in size along valley have been cleared of rocks to plant crops and farm.
- 4. Well application filed as a Wildcat Devonian oil well test. Drill stem test in Morrow proved to be so positive, decision made to T. D. at that point and attempt completion.



EXHIBIT /



UNITED STATES

3. ADDRESS OF OPERATOR  5.20 CONTRICE COLL Bank Tower, Midland, Texas 79701  4. DOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At surface 1650 Feet FN & WL, Sec. 34, T258, R24E  At proposed prod. zone  Same  1. Distance in Miles and Disaction From Nearest town or fost office.  1. Distance in Miles and Disaction From Nearest town or fost office.  1. Distance in Miles and Disaction From Nearest town or fost office.  1. Distance from Proposed.  1. Distance fro	S CONTRIBE NAME  NAME  PARE  P
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Cities-Federal Black River Corporation  ADDRESS OF OFERATOR  ADDRESS OF OFERATOR  COUNTERCIAL Bank Tower, Midland, Texas 79701  LOCATION OF WELL (Report location dearly and in accordance with any State requirements.*)  At surface 1650 Feet FN & WL, Sec. 34, T25S, R24E  At proposed prod. rone  Same  Sec. 36, T25S, R2  LOCATION OF WELL (Report location dearly and in accordance with any State requirements.*)  At proposed prod. rone  Same  Sec. 36, T25S, R2  LOCATION OF MELLES AND DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF NAMES TOWN DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM NEAREST TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM REAL TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM REAL TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM REAL TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM REAL TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM REAL TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM REAL TOWN OF FOST OFFICE*  LOCATION OF ROLES AND DIRECTION FROM REAL TOWN OF FOST OFFICE*  LOCATION OF ROLE AND TOWN OF ROLE TOWN OF FOST OFFICE*  LOCATION OF ROLE AND TOWN OF ROLE TOWN OF RO	BLM.  R24E  16. STATE  NEW MEXIC
Black River Corporation  ADDRESS OF OFFRATOR  520 Commercial Bank Tower, Midland, Texas 79701  At surface 1650 Feet FN & WL, Sec. 34, T25S, R24E  At surface 1650 Feet FN & WL, Sec. 34, T25S, R24E  At proposed prod. fone  Same  Sec. 34, T25S, R24E  At proposed prod. fone  Same  10. Miles Southwest of White City  11. EEC, T. E. M., OR BELK. AND SURVEY OR AREA 15. Eddy  12. COUNTY OR PARISH 16. No. OF ACRES IN LEASE 17. No. OF ACRES ASSIGNED TO THIS WELL  10. DISTANCE FROM PROFUSED 1 1650  10. PROFUSED TO RARREST TOWN FROM NEAREST TOWN OF POST OFFICE*  11. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 1650  10. PROFUSED TO RARREST TOWN FROM NEAREST TOWN OF POST OFFICE*  11. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 16. NO. OF ACRES IN LEASE 1 16. NO. OF ACRES IN LEASE 1 16. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES ASSIGNED TO THIS WELL  40. DISTANCE FROM PROFUSED 1 15. NO. OF ACRES IN LEASE 1 17. NO. OF ACRES IN LEASE 1 16. NO. OF ACRES IN	BLM.  R24E  16. STATE  NEW MEXIC
520 Commercial Bank Tower, Midland, Texas 79701  Location of Well (Report location clearly and in assordance with any State requirements.*)  At surface 1650 Feet FN & WL, Sec. 34, T25S, R24E  At proposed prod. rone  Same  Sec. 34, T25S, R24E  At proposed prod. rone  Same  DO Miles Southwest of White City  DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR FOST OFFICE*  10. Miles Southwest of White City  DISTANCE FROM REPORTSES*  PROPERTY OR LEASE LINE, FT.  (Also to marrest deg. until line, if any)  Septimental From Rolline, Completely, 3250  ROLLING TO STAILINE, COUNTY OR PARISH  AT PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASING  PROPOSED CASING AND CEMENTING PROGRAM  PROPOSED CASING AND CEMENTING PROGRAM  After setting the 11-3/4 inch casing and circulating cement to surface, W.O.C. 24  Then drill thru possible lost circulation zone to 1000 feet (after which no lost contained). Set 8-5/8 casing at 1000 feet and if necessary stage cement to SW.O.C. 24 hours. 1000 foot depth should be 400 feet into Delaware. Drill to T.D.	R24E  16. STATE  New Mexic
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At proposed prod. rone  Same  Distance in Miles and direction from Nearest town or fost office*  Distance from Profuser*  Do Miles Southwest of White City  Distance from Profuser*  Distance from P	R24E 16. STATE New Mexic
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16. No. OF ACRES IN LEASE  LOCATION TO NUMBERST PROPERTY OR LEASE LINE, FT. (Also to learest drig, until libe, if any)  N. DISTANCE FROM PROPOSED LOCATION* TO NUMBERST WELL, DRILLING, COMPLETED, OS AFFILED FOR, ON THIS LEASE, FT.  LELEVATIONS (Show whether DF, RT, GR, etc.)  3715 **Estimated ground - To be corrected  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF ROLE  SIZE OF ROLE  SIZE OF CASINS  WEIGHT PER FOOT  SETTING DEPTH  QUANTITY OF CEMENT  15	**
PROPERTY OF LEASE LINE, FT.  (Also to nearest drig, unit thee, if any)  S. DISTANCE VROM PROPOSED LOCATION*  TO NEAREST WELL, BRILLING, COMPLETED, OS APPLIED FOR, ON THIS LESSE, FT.  3250  19. PROPOSED DEPTH 8000 DEVONIAN  ROTARY  20. ROYARY OR CABLE YOLDS  ROTARY  3715   Estimated ground - To be corrected  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE SIZE OF CASINA WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT  15	**
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8000 for Devonian Test. Production casing string to be determined at time T.D. is	. is reach
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SIGNED Agent State office use)  PERMITE NO.  Approval is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Given terms are program, if any.  Agent DAYK 4/6/71  Approval DATE	is. Give blowout
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(35ev. 5-88)	·	UNUTER	STATES	SUBMIT D	DUPLICATE.	1 Form	approved. t Bureau No. 42-11355.5
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•			AL SURVEY		. reverse sid		
WELL CO	MPLETIÓN	OR RECO	MPLETION	REPORT AN	D LOG*	6. IF INDIAN ALI	OTTEE OR VRISH NAM
In TYPE OF WE	LL: OH WEI	L GAS WELL	X pry	Other		7. UNIT AGREEME	NT NAME
5. Type of con	2				•		
WELL X	OVER DEE	P- PLUG BACK	D PIFF.	Other	•	8. FARM OR LEAS	E NAME
2. NAME OF OPERA		7	(~;·.			Cities-Fee	deral
Black Riv	ver Corpora	tion		1		9. WELL NO.	
	•	Torros Mi	dland Town	s 70701		10, FIELD AND PO	OL, OR WILDCAT
620 Commo	LL (Report location	on clearly and in	accordance with a	y State requiremen	1(8)*	Wildcat	
At surface	1650' FN &	WL			•		OR BLOCK AND SURVE
At top prod. in	terval reported be	ow 1650'	FN & WL		,		
At total depth	•	1650	FN & WL			34 - 25 ·	- 24
			14. PERMIT NO	DATE	ISSUED	12. COUNTY OR PARISH	13. STATE
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15. DATE SPUDDED	16. DATE T.D. R	EACHED 17. DAT	rn compl. (Ready l			B, RT, GR, ETC.) • 19.	The second secon
5/7/1971 20. TOTAL PRIPER, MR	! 6/1/19	71 6	6/1971	TIPLE COMPL., 5	741 RKB	S ROTARY TOOLS	3725 CABLE TOOLS
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4-1/2	10.5	7043	7		5X C		
	ĺ	LINER RECORD		To	p Cement 5		
size	TOP (Mp)	BOTTOM (MD)	SACKS CEMENTS	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKUR SET (MP)
			Takeng CES, Day	7.20	2-7/8	6750	6750
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DI. PERFORATION RE	cond (Interval, siz	e and number)	()	32. AC	id, shot, fra	CTURE, CEMENT SQU	JEEZE, HTC.
	- 0.41" -		·	DEPTH INTERVA	L (MD)	AMOUNY AND KIND OF	MATERIAŬ USED -
6814-6844	- 0.41" -	60 holes		None		<u> </u>	· · · · · · · · · · · · · · · · · · ·
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33.* · ·		<del></del>	rko	OUCTION			
DATE FIRST PRODUCT	NON PAODO	CTION METHOD (	Flowing, ges lift, 2	umping—size and t	Ipe of pump)	weth state	is (Producing or
5/4/71		Flow				Shut	
DATE OF TEST	3:45 Total	1 CHOKE SIZE 35/64	PROD'N, FOR TEST PERIOD		GAS-MCF.	WATER-BEL.	GAS-OIL LATIO
6/8/71 FLOW, TURING PASSS.	3:45 Total	is rate	OIL—BBL.	None GAS—MCF.	1 557.544	R-BBL. OIL C	BAVITY-API (COUR.)
2050.2	Pkr	24-HOUR RAY		10,7			
34. Disposition of G		fuel, vented, etc.)	<del>)</del>			TEST WITNESSED :	
Yented &	Flared Dur	ing Test				Mr. Charl	es Saunders
35. LIST OF ATTACH							
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DOL I Dereily Certify	That the torough	s and attached i	mormation is comp		34 ř	m all available records	
SIGNED	J. I. Berry	crity.	eltit	Agen	t :	DATE	6/10/1971
	J. I. Rerry						

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Control This form is desired for all the complete of conservation and he consisted and he constitute and he constitute and he constitute and he constituted and the constitute and the c

DEPTH INTERVAL TESTER, CUEHIC	N USES, THE TOOL OPEN, FLOWING	CORED INTERVALS   AND ALL PRINTERS OF	STS, INCLUDING 39	s. Groroai	C MARKERS
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732x 9-330

### 37. Summary of Porous Zones:

<u> Pourection</u>	COT	Bottom	Description, Contents, Etc.
Delaware Sand	1456	1546	DST #1 15 min pre flow. 1-1/2 hr. flow GTS - 17 mins. psi 1/4" chk. 0-5 min. Slight blow throughout test. Rec. 120' GCDM, 210' gas & sulphur water cut d.m. 1 hr. ISIP: 543, IFP: 94, FFP: 188, FSIP: 564, I Hyd: 689, F. Hyd: 668.
Bone Spring	3566	3633	DST #2  10 min. pre flow, weak blow throughout.  1 hr. main flow - weak blow - dead 8 mins.  No GTS, Rec: 180' Drilling fluid.  1 hr. ISIP: 126, IFP: 63, FFP: 84, 90 min.  FSIP: 105, I. Hyd: 1570, F. Hyd. 1560.
Penn Lime	5700	5811	DST #3 TO 2:10 p.m. w/good blow. GTS 2:20 p.m. (10 min) Flowed 1-1/2 hrs. 250 psi, 3/4" choke 3.75 MMCF IFP: 1123 psi, FFP: 1629 psi, ISIP: 2482 psi 190 min., FSIP: 2136 psi/120 min, Hyd: 2540- 2528 psi. Rev. out 3 bbls. water. Rec. 90' water.
Morrow Sand	6791	6860	DST #4  1. Hyd. 3187, F. Hyd. 3176. 10 min IFP:1995, FFP: 2354, 2 hr. Main Flow IFP: 2312, FFP: 2556. 1 hr. 50 min ISIP: 2995, 3 hr. FSIP: 3006

Flowed 20600 MCFD, 1425 psi - 3/4" choke.

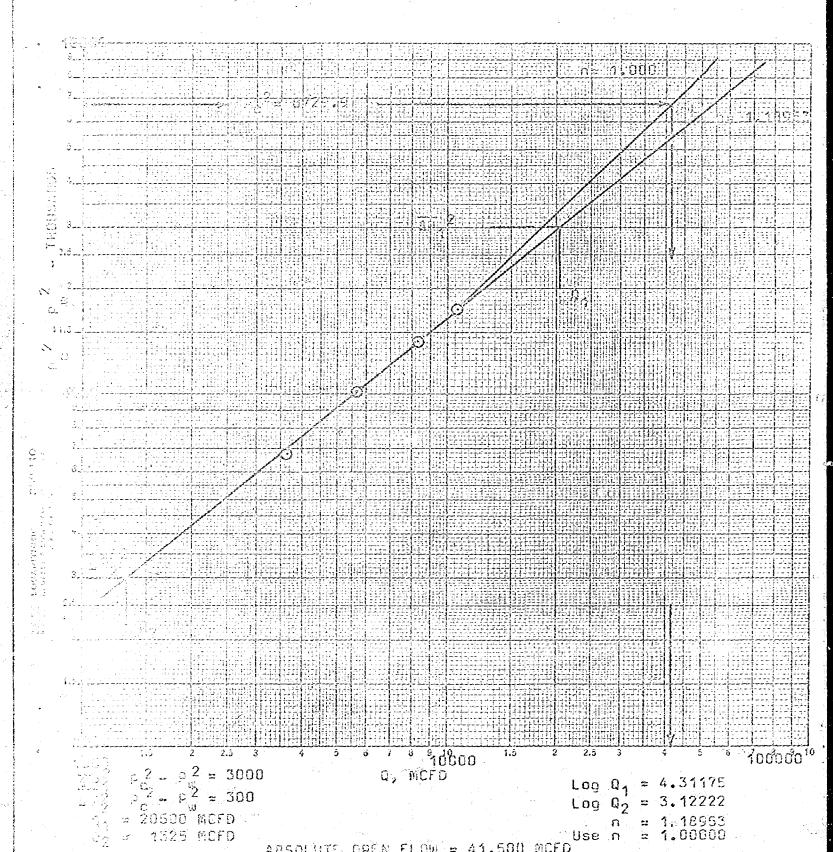
### MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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Acceptance													
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Approved By Con	amio Signi	Contract	المركز (١	بهبر	2	Colorieros		Line	, C	hocked S	γ:		
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WELL LOCATION County DATE

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ABSOLUTE OPEN FLOW = 41,500 MCFD

Cities Serv. approver :

W&H Prod Drlg Juc

Citics Serv Fed Well no!

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650 FERL FWC

34 255 24E

E. F. Motter midland

called - Wastern Union

wiel muiel written confirmation

DRAFT

GMH/dr

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. 4566

Black liver Corp.

Order No. R-4/73

APPLICATION OF W-&-H-PRODUCTION-DRILLING, INC. FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO.

7-13-7

ORDER OF THE COMMISSION

### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 14, 1971, at Santa Fe, New Mexico, before Examiner DANTEL S. Nutter

NOW, on this <u>day of July</u>, 1971, 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.

  Black Rine Copposition
- (2) That the applicant, W. G. H. Production-Drilling, Inc., seek an exception to Rule 104 of the Commission Rules and Regulations for approval of an unorthodox gas well location for the Black River Corporation Cities-Federal Well No. 1, located 1650 feet from the North line and 1650 feet from the West line of Section 34, Township 25 South, Range 24 East, NMPM, undesignated Morrow gas pool, Eddy County, New Mexico.

-2-CASE NO. 4566 Order No. R-

- (3) That the subject well was projected as a Wildcat oil well at a standard location to test the Devonian formation but was productive of gas from the Morrow formation.
- (4) That approval of the subject application will afford the applicant the opportunity to produce his just and equitable share of the gas in the subject undesignated Morrow gas pool, will prevent the economic loss caused by the drilling of unnecesary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

### IT IS THEREFORE ORDERED:

- (1) That an unorthodox gas well location is hereby approved for the Black River Corporation's Cities-Federal Well No. 1 in an undesignated Morrow gas pool at a point 1650 feet from the North line and 1650 feet from the West line of Section 34, Township 25 South, Range 24 East, NMPM, Eddy County, New Mexico, as an exception to Rule 104 of the Commission Rules and Regulations.
- (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. CASE 4569: Application of BARBER OIL FOR AN UNORTHODOX OIL WELL LOCATION, EDDY COUNTY, N. MEX.