

McKee *Ellenburger*
Case No.

261

Application, Transcript,
Small Exhibits, Etc.

Case 261 - Cities Service to dually complete
State S #3, SENW 15-21-37 in Ellenburger
and McKee

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

The State of New Mexico by its Oil Conservation Commission hereby gives notice pursuant to law and the Rules and Regulations of said Commission promulgated thereunder, of the following public hearing to be held March 20, 1951, beginning at 10:00 o'clock a. m. on that day in the City of Santa Fe, New Mexico, in the Council Chamber of the City Hall.

STATE OF NEW MEXICO TO:

All named parties in the following
cases and notice to the public:

Case 260

In the matter of the application of Tide Water Associated Oil Company for authority to dually complete State S No. 4, located in the NE/4 NW/4 section 15, T. 21 S, R. 37 E, Lea County, New Mexico, for the Ellenburger and McKee formations; or in the alternative to authorize transfer of allowable of State S No. 4 to State S No. 3 for Ellenburger production.

Case 261

In the matter of the application of Cities Service Oil Company for authority to dually complete State S No. 3, located in the SE/4 NW/4 section 15, T. 21 S, R. 37 E, Lea County, New Mexico, in the Ellenburger and McKee formations.

Case 262

In the matter of the application of Byrd-Frost, Inc. for designation and spacing rules for a Mesa Verde gas pool to be known as Largo Mesa Verde gas pool, comprising:

T. 29 N, R. 8 W
Sections 1 to 36, inclusive

T. 28 N, R. 8 W
Sections 7 to 18, 20 to 28, and 34 to 36

T. 27 N, R. 8 W
Sections 1 to 4, and 9 to 12

T. 29 N, R. 7 W
Sections 17 to 20 and 28 to 34

T. 28 N, R. 7 W
Sections 7 to 10, 15 to 22, and 26 to 35

Case 263

In the matter of hearing to be held by the Oil Conservation Commission, upon its own motion, for the designation, extension, or deletion of the various pools listed and described, as follows:

Extend the House pool:
T. 20 S, R. 38 E
S/2 section 11
NE/4 and S/2 section 12
N/2 section 13
N/2 section 14

T. 20 S, R. 39 E
W/2 section 7
NW/4 section 18

continued -

Extend the Bough pool:

T. 9 S, R. 36 E

S/2 section 7

All section 18

Extend the Vacuum pool:

T. 18 S, R. 34 E

All section 5

Extend the Bagley Siluro-Devonian pool:

T. 11 S, R. 33 E

SE/4 section 33

SW/4 section 34

T. 12 S, R. 33 E

W/2 section 3

E/2 section 4

Create the following pools:

Twin Lakes pool

T. 8 S, R. 28 E

SE/4 section 35

S/2 section 36

T. 9 S, R. 28 E

All section 1

E/2 section 2

Fowler-Blinebry pool

T. 24 S, R. 37 E

W/2 section 15

All section 16

N/2 section 21

NW/4 section 22

Gladiola-Abo pool

T. 12 S, R. 37 E

All section 13

E/2 section 14

NE/4 section 23

N/2 section 24

Levick pool

T. 8 S, R. 27 E

SW/4 section 5

S/2 section 6

All section 7

W/2 section 8

Keohane pool

T. 9 S, R. 29 E

SE/4 section 1

E/2 section 12

T. 9 S, R. 30 E

S/2 section 6

All section 7

GIVEN under the seal of the Oil Conservation Commission of New Mexico, at
Santa Fe, New Mexico, on February 21, 1951.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

SEAL

R. R. SPURRIER
Secretary

"Once you open the door the gamblers from Kansas City, Chicago and New York will have their foot in it," he said.

In five years, he added, there "will be charitable and other organizations on every street corner." The full impact of the slots would be felt then, he said.

(The bill requires five years' existence in New Mexico for any organization to qualify.)

Replying to Smalley, Hallam pointed out 25 years' national existence also is necessary.

Rep. Gerald Boykin, Belen, denounced the bill as special legislation inasmuch as it applies only to "certain people."

While Rep. William Grijalva argued the slots would "give the money to the children instead of the gamblers," Rep. J. Benito Valdez asserted "the children will suffer." Valdez also saw in the "bandits" a home-breaker role.

Rep. John Bingham, Albuquerque, pinioned Rep. Floyd Darrow, fellow townsman, when the latter offered an amendment to give 100 per cent of the take to charity. Would Darrow vote for the bill if the amendment were accepted, Bingham asked. Darrow said "No". The amendment lost 25-29.

Also questioned by Bingham as to how he was going to vote, Boykin stated he was "against the bill on its merits."

Nazi Swastika Seen On Yacht

VICTORIA, B. C., Feb. 27. (UP)—Royal Canadian mounted police investigated reports today that a yacht had been seen flying a Nazi swastika ensign.

Six witnesses reported seeing the vessel flying the flag, police said. The ship was described as a converted U. S. minesweeper.

FAIR ENOUGH

NEWTON, Mass. (UP)—Appropriately enough, M. C. Jewell operates a jewelry business here.

LEGAL ADVERTISING

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION
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STATE OF NEW MEXICO TO:
All named parties in the following cases and notice to the public:
260

LEGAL AD

T. 11 S. R. 33 E
SE/4 section 33
SW/4 section 34
T. 12 S. R. 33 E
W/2 section 3
E/2 section 4
Create the following pools:

Twin Lakes pool
T. 8 S. R. 28 E
SE/4 section 35
S/2 section 36
T. 9 S. R. 28 E
All section 1
E/2 section 2
Fowler-Blinberry pool
T. 24 S. R. 37 E
W/2 section 15
All section 16
N/2 section 21
NW/4 section 22
Gladola-Abo pool
T. 12 S. R. 37 E
All section 13
E/2 section 14
NE/4 section 23
N/2 section 24
Levick pool
T. 8 S. R. 27 E
SW/4 section 5
S/2 section 6
All section 7
W/2 section 8
Keohane pool
T. 9 S. R. 29 E
SE/4 section 1
E/2 section 12
T. 9 S. R. 30 E
S/2 section 6
All section 7

GIVEN under the seal of the Oil Conservation Commission of New Mexico, at Santa Fe, New Mexico, on February 21, 1951.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION
(SEAL) R. R. SPURRIER,
Secretary.

Pub.: Feb. 27, 1951.

NOTICE OF PUBLICATION

(FOREIGN)
Pursuant to Section 54-1003 of New Mexico Statutes Annotated, Codification of 1941, notice is hereby given of the filing in the office of the State Corporation Commission of New Mexico of a certified copy of Certificate of Amendment of Texas Consolidated Theatres, Inc.
Amending the original Certificate of Incorporation by: Changing Articles 4, 10 and 11th, etc., and as more fully set forth in the Articles.
The principal place of business of the corporation is 50 Sena Plaza, Santa Fe, N. M., and the name of the statutory agent therein and in charge thereof, upon whom process against the corporation may be served is John C. Watson; John T. Watson at 50 Sena Plaza, Santa Fe, New Mexico.

Filed in the office of the State Corporation Commission on February 19, 1951. No. 27979 Cor. Rec'd. Vol. 7, Page 2, at 9:30 A.M.

STATE CORPORATION COMMISSION
OF NEW MEXICO
By DAN R. SEDILLO,
Acting Chairman.

Pub.: Feb. 27, 1951.

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

OIL AND GAS DOCKET NOS. 108,
120, 123, 124, 125, 126, 128,
129, 132, and 146

IN RE: CONSERVATION AND PREVENTION OF
WASTE OF CRUDE PETROLEUM AND
NATURAL GAS IN THE STATE OF
TEXAS

#20 - 18,604

Austin, Texas
June 27, 1950

Ex 3
Case 261

SPECIAL ORDER

AUTHORIZING AND PERMITTING DUAL COMPLETIONS OF OIL AND/OR
GAS WELLS IN THE VARIOUS FIELDS IN THE STATE OF TEXAS AND
PRESCRIBING THE PROCEDURE AND REQUIREMENTS TO BE FOLLOWED

WHEREAS, From time to time, the Railroad Commission of Texas has held numerous hearings on various oil fields in Texas and upon various wells located therein in order to determine the feasibility of permitting dual completion and production of said oil and/or gas wells; and

WHEREAS, Pursuant to many of said hearings and the record there made, reference to all of which is here made, the Commission found that there existed in many oil and/or gas fields in Texas separate and distinct non-communicable reservoirs and that wells drilled thereto, when properly completed, could be safely and non-wastefully produced as dually completed wells, all without adversely affecting greatest ultimate recovery; and

WHEREAS, The Railroad Commission of Texas, on May 16 and June 1, 1950, respectively, held a hearing upon certain named fields in the State of Texas, which said fields are set out in Hearing Notice No. 20-18,137 and also in "Notice to All Oil and/or Gas Operators in the State of Texas," dated May 24, 1950, in order to determine whether any or all of the fields and reservoirs therein named were susceptible of non-wasteful dual completion and production of wells drilled thereto; and

WHEREAS, The Commission finds, pursuant to all of said hearings and particularly the hearings of May 16 and June 1, 1950, that there exists separate and non-communicable reservoirs in many oil and/or gas fields in the State of Texas which are feasibly and reasonably susceptible of having dually completed and producing wells drilled thereto and therein, and that proper and reasonable administration of the conservation statutes of this State support an action by the Commission designating certain named fields and reservoirs therein which have been previously recognized by the Commission, after full notice and hearing, as being non-communicable reservoirs, as being feasible for dual completions, and that such a blanket order permitting dual completions in those zones and within the framework of the hereinafter prescribed procedure is both necessary and feasible.

THEREFORE, IT IS ORDERED By the Railroad Commission of Texas that all those fields and reservoirs specifically named hereinbelow will be recognized as being feasible for dual completions of wells drilled thereto without separate hearings upon each application, provided that the applicant for such permission will file for approval of the Engineering Department of the Commission the following data:

- (1) Diagrammatic sketch of dual completion installation.
- (2) An electrical log of the subject well or a type electric log showing clearly thereon the subsurface location of the separate reservoirs claimed.
- (3) An affidavit that the reservoirs sought to be dually produced have been theretofore designated by the Commission as separate reservoirs after due notice and hearing.
- (4) Affidavit of packer setting.
- (5) Packer leakage test upon form prescribed by the Commission.
- (6) Either waiver of offset operators or evidence that notice of the request has been given to the said operators.

June 27, 1950

Said fields, districts wherein located and the separate reservoirs made the subject of this order are hereinafter set out in Table No. I.

TABLE NO. I

DISTRICT	FIELD	RESERVOIRS
1	San Caja	Luling; Massive (Wilcox)
2	Blanconia	Vicksburg; Sinton
	Caesar, South	Luling; Slick
	Cosden, West	Slick; Mackhank
	Gottschalt	Luling; Mackhank
	Kay Creek	2200'; 2300'; 5100'; 5150' (all gas sands)
	La Rosa	6300'; 5900'; 5800'; 5600'; 5300'
	McFaddin	2900' "B"; Upper 3000' (both gas sands)
	Maubro	Marg. (5100'); Marg. (5200')
	Placedo, East	6000'; 6300'; 6800'
	Poebler	Slick; Massive
	Rudman	Mackhank; Luling
	West Ranch	5700'; Marginulina
3	Altair	Upper Wilcox No. 2; Upper Wilcox No. 3
	Beaumont, West	2900'; 4500'; 4600'; Discorbis "B" (5400'); Marg. (5800')
	Blue Lake	Masterson; Masterson "A"; Stevens
	Collins Lake	Nickell; Willy; Jamison
	Columbus	7300'; 7650'; 9260'; 9645'
	Daboval	Frio (1-2); Frio 2-A; Frio 4; Frio 5; Frio 7; Frio 8; Frio 10; Frio 12-A; Frio 13 Upper; Frio 15
	Delhi, North	7050'; 7250'
	Esperson Dome	Middle Yegua; Basal Yegua; Sarratt; Vicksburg
	Esperson Dome, South	Lower Crockett; Yegua
	Hull	CM-1; CM-2; CM-3; EY-1; EY-2; EY-3; EY-3a
	Lick Branch	Quinn; Kirby
	McCoy	Quinn; Kirby
	New Ulm	Schweke; Schiller; Bletzinger
	North Big Hill	Marginulina; Frio #1
	North Winnie	Hackberry; Discorbis; Upper Nodosaria #1; Upper Nodosaria #2
	Ramsey	8300'; 8950'
	South Liberty	Block 3: CM-1; CM-2; CM-3; CM-4; EY-1; EY-3; EY-3a; EY-4; EY-4a
	Stowell	Block 5: CM-2; EY-2; EY-3; EY-3a; EY-4; EY-4a
		Block 5A: EY-6; EY-7
		Block 6: EY-3a; EY-4; EY-4a
		Block 7: EY-3a; EY-4; EY-4a
		Englin; Crawford; Intermediate; Stewart; Sullivan
	Sugar Valley	Culburtson; Lawrence; Robertson; Truitt; Granbury; Hurlock
4	Alamo	5500' (Gas); 6000' (Gas)
	Alta Mesa	3800'; 4500'; 4560'; 4950'
	Benavides	Pharr; Teddlie
	Garcia	Frost "A"; Garcia Solis; Miller "C"; Miller "E"
	Jay Simmons	A. Sand, B. Sand, C-1 Sand, C-2 Sand, D. Sand, E. Sand, F. Sand, and G. Sand
	Kelsey Deep	Zones 17-B; 18; 18-B; 19; 19-A; 20-B
	Kelsey, South	5300'; 5600'; 5700'; 5900'; 6000'; 6200'
	Kennard	K; Parades; Coates; Taylor
	La Blanca	6700'; 7400'; 7500'; 7700'; 7800'; 8000'; 8100'

TABLE NO. I (Continued)

DISTRICT	FIELD	RESERVOIRS
4 (Cont'd)	La Reforma	"C" zone; "G-1" zone
	Longhorn, South	Hiawatha; Upper Cole
	Los Indios	"J" zone; "M" zone; "N" zone; "P" zone
	Magnolia City, North	Bennett; Evetts; Jones; Presnall
	Mercedes	6900; 7000; 7050; 7150
	Odem	3100; 3500; 4400; 5300; 5400 "B & C"; 5400 "D"; 5500
	Portillo	7400; 8100
	Riverside	4800' (gas); 6900' (gas)
	Saxet Deep	Lower 6500; Upper 6600; 6900; Weil (7400); Talbot; Willis; McAllen
	Seeligson	Zones 10; 12; 13-A; 14-B; 15; 16; 17; 18-B; 19-B; 19-C; 19-D; 20
	Sheridan	"L" zone; "P5Q" zone (Injection only)
	Southland	Teddlie; Pettus; Upper Cole; Lower Cole; Walstead
	South Weslaco	7400; 8100; 8300; 8600; 8900; 9000
	Tijerina-Canales-Blucher	Mary; Marie; Conrad; 3rd Tijerina; Margaret; Claude; Charles; Richard; Carl; 6200'; 6900'; 7900'
	White Point, East	Fickey; Cole; Brigham; Heep; 3900'
5 & 6	New Hope	Bacon; Hill; Pittsburg; Elledge
	North Lansing	Rodessa-Young; Travis Peak
	Tennessee Colony	Upper & Lower Rodessa Zones
	Waskom	Travis Peak; Rogers (Oil Zones)
8	Andector Fields	McKee; Waddell
	Bedford	Devonian & Ellenberger
	Dollarhide	Clearfork; Ellenberger
	Dollarhide, East	Clearfork; Ellenberger
	Embar Fields	Ellenberger; Permian
	Flanagan	Clearfork; Devonian; Ellenberger
	Robertson	Devonian; Ellenberger
	Shafter Lake	Devonian; Wolfcamp
	TXL	Devonian; Silurian; Ellenberger
	Weiner Colby	Yates & Weiner Colby
	Wheeler	Devonian; Silurian; Ellenberger
9	Walnut Bend	2600; Hudspeth; Cox; Walnut Bend; Bruhlmeier
	Fargo	Cisco (3200); Canyon (3900); Strawn (4400)

IT IS FURTHER ORDERED By the Commission that this order may, at any time, be amended by the Commission in such a manner as would delete and withdraw from the operation hereof any reservoir or reservoirs or field hereinabove named, and further that after due notice and hearing, any additional field or reservoirs therein located may be added hereto.

RAILROAD COMMISSION OF TEXAS

W. J. Murray, Jr., Chairman

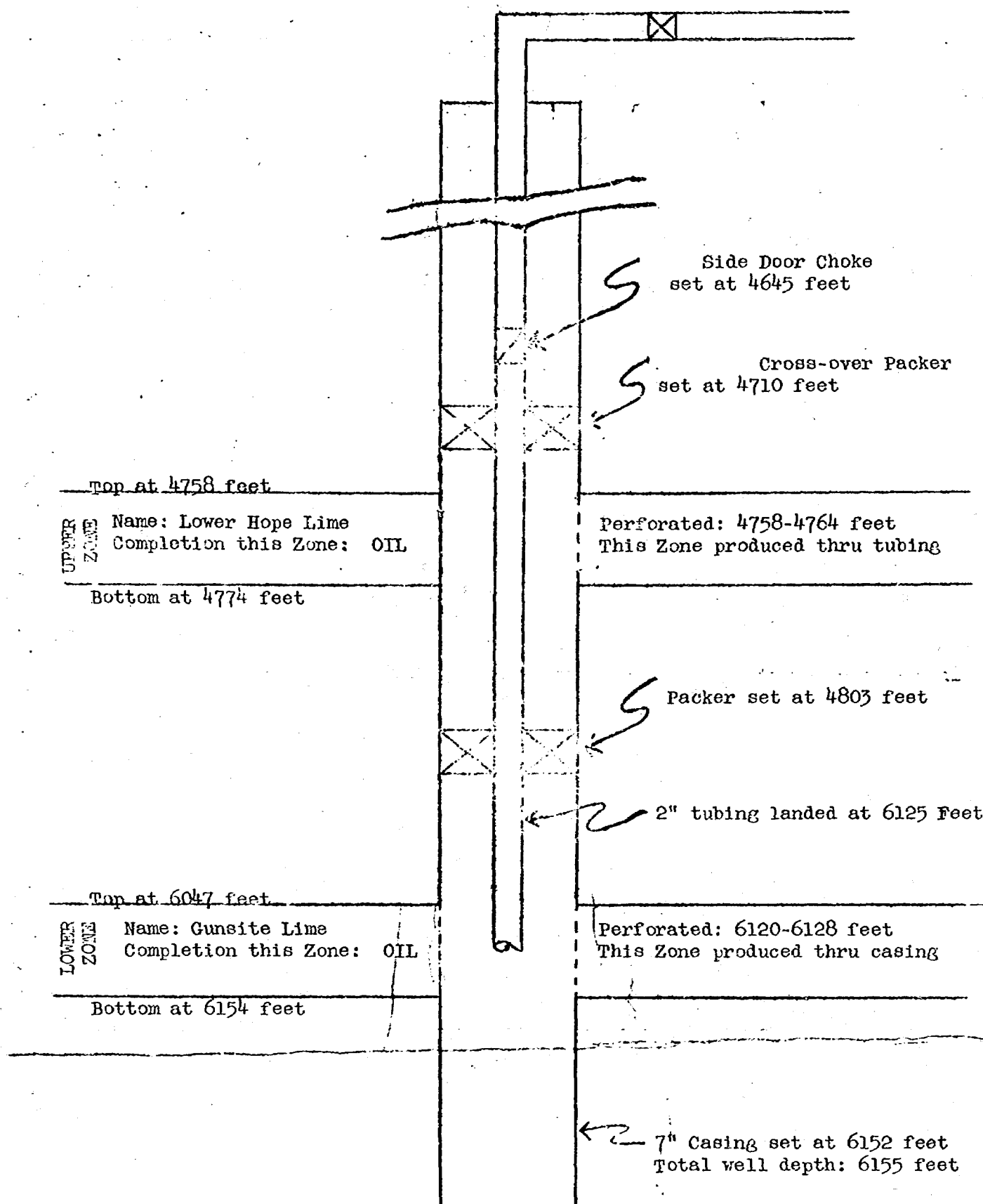
Ernest O. Thompson, Commissioner

(S E A L)

ATTEST:

O. D. Hyndman, Secretary

DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION INSTALLATION



COMPANY: _____

LEASE : _____

WELL No. _____

FIELD : _____

DATE : _____

APPLICATION FOR DUAL COMPLETION
IN ZONES HERETOFORE DETERMINED TO BE FEASIBLE FOR
SUCH PURPOSES IN THE _____ FIELD

(To be filed with Railroad Commission, Oil & Gas Division,
Tribune Building, Austin, Texas)

Date: _____

Field name _____ County _____ RRC Dist _____

Operator _____ Lease _____ Well No. _____

1. Are the reservoirs herein requested to be used for dual completion presently recognized by the Commission as separate reservoirs as the result of prior hearing or hearings for permission to complete dually? _____

2. The following facts are submitted:

Upper Zone

Lower Zone

- a. Name of reservoir _____
- b. Top of Pay Section _____
- c. Bottom of Pay Section _____
- d. Perforations _____
- e. Type of Production (Oil or Gas) _____

3. Identify one instance (operator, lease, well number) wherein the Commission granted dual completion involving these same two zones in this field. _____

4. The following are attached. (Please mark YES or NO)

- a. Electrical log with tops and bottoms of producing zones and perforated intervals shown and marked _____.
- b. Affidavit of Packer Setting _____.
- c. Diagrammatic Sketch of Dual Completion Installation _____.
- d. Packer Leakage Test _____.

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

6. Have each of these operators listed in Item 5 above been furnished a copy of this application? _____. Give date furnished _____.

7. Are letters waiving notice of hearing from each of the above offset operators attached? _____.

8. In lieu of waivers, are copies of letters requesting such waiver from each of these offset operators attached? _____.

9. Is this a regular location with respect to both zones? _____.

10. If the answer to Item 9 is "No," has Rule 37 hearing been held on zones affected by such rule? _____. State Rule 37 case number _____.

REMARKS:

Operator

By

THE STATE OF TEXAS

COUNTY OF

BEFORE ME, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN To before me, this the _____ day of _____

19____

Notary Public in and for _____
County, Texas

INSTRUCTIONS

Item 1. The recognized reservoirs are listed in Table I, Commission Order No. 20-18,604, dated June 27, 1950, and in certain field rules applicable to specific fields.

Item 2. a. The name of reservoir should correspond to reservoir nomenclature as outlined in above order and field rules.

Item 4. b, c, & d. These forms may be secured at nearest Commission District Office or the Commission's Austin Office.

Item 7. Request for waiver must contain the following:

a. Operator, lease, and well number involved.

b. Copy of application for dual completion.

c. Date application will be mailed to the Commission's Austin Office.

Should all necessary waivers not accompany application, the Engineering Department of the Commission shall hold such application for a period of ten (10) days from date of receipt in the Austin Office. If, after said ten (10) day period, no protest or request for hearing is received in the Austin Office, the application will then be processed.

PACKER SETTING AFFIDAVIT

I, _____, being of lawful age
Name of Party Making Affidavit
and having full knowledge of the facts hereinbelow set out do state:

That I am employed by _____ in the
capacity of _____, that on _____, 194____,
Date
I personally supervised the setting of a _____
Make and Type of Packer
in _____,
Operator of Well Lease Name
Well No. _____ located in the _____,
Field
County, Texas, at a subsurface depth of _____ feet, said depth

measurement having been furnished me by _____;
that the purpose of setting this packer was to effect a seal in the annular
space between the two strings of pipe where the packer was set so as to pre-
vent the commingling, in the bore of this well, of fluids produced from
a stratum below the packer with fluids produced from a stratum above the
packer; that this packer was properly set and that it did, when set, effec-
tively and absolutely seal off the annular space between the two strings of
pipe where it was set in such manner as that it prevented any movement of
fluids across the packer.

STATE OF TEXAS
COUNTY OF _____

Before me, the undersigned authority, on this day personally appeared
_____, known to me to be the person whose
name is subscribed to this instrument, who after being by me duly sworn on
oath, states that he has knowledge of all the facts stated above and that the
same is a true and correct statement of the facts therein recited.

Subscribed and sworn to before me on this the _____ day
of _____, 194____.

Notary Public in and for
County, Texas

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Packer Leakage Test

Field Name: _____

Operator: _____ Lease: _____ Well No. _____

Address: _____ County: _____

P. O. Box No.: _____ District No.: _____

Test No. 1

Date Shut-in: _____ Length of time shut-in prior to test _____ hours

DATA ON PRODUCING COMPLETION:

Completion producing _____ Reservoir _____ Choke Size _____ inches

Twenty-four hour shut-in pressure prior to test: _____ p.s.i.

Stabilized flowing pressure during test: _____ p.s.i.

Length of time for stabilized flowing pressure _____ hours.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time in obtaining this shut-in pressure _____ hours.

DATA ON SHUT IN COMPLETION:

Completion shut-in _____ Reservoir _____

Twenty-four hour shut-in pressure prior to test _____ p.s.i.

Minimum shut-in pressure during test: _____ p.s.i. Maximum _____ p.s.i.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time required for pressure at the end of the test: _____ hours.

Maximum pressure change of shut-in completion during test _____ p.s.i. (increase
(decrease)

Test No. 2

Same well bore as in Test No. 1, but with _____ completion
producing and _____ completion shut-in.

Date Shut-in: _____ Length of time shut-in prior to test: _____ hours.

DATA ON PRODUCING COMPLETION:

Completion producing _____ Reservoir _____ Choke Size _____ inches.

Twenty-four hour shut-in pressure prior to test: _____ p.s.i.

Stabilized flowing pressure during test: _____ p.s.i.

Length of time for stabilized flowing pressure: _____ hours.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time in obtaining this shut-in pressure _____ hours.

DATA ON SHUT IN COMPLETION:

Completion Shut-in _____ Reservoir _____

Twenty-four hour shut-in pressure prior to test: _____ p.s.i.

Minimum shut-in pressure during test _____ p.s.i.; Maximum _____ p.s.i.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time required for pressure at the end of the test: _____ hours.

Maximum pressure change of shut-in completion during test _____ p.s.i. (increase
(decrease)

Classification of completion testing, whether oil well or gas well: Tubing

Casing _____

REMARKS:

INSTRUCTIONS

1. All wells shall be shut-in a minimum of 24 hours for stabilization prior to the conducting of the packer leakage test.
2. The minimum time that shall be allowed for stabilization of the flowing pressures will be 24 hours.
3. The minimum time allowed for stabilized pressures at the end of the first flowing time will be 24 hours.
4. All pressures shall be made preferably with a dead weight test gauge.
5. In the event of any increase or decrease in the pressures shown as being taken on the shut-in completion, the Test No. 2 should then be made in the same manner as Test No. 1. Test No. 2 shall be made with the completion producing that was shut-in during Test No. 1. Likewise, the completion that was producing during Test No. 1 shall be shut-in during Test No. 2.
6. All tests shall be witnessed by at least two offset operators. In the cases where offset operators do not exist, any two operators in the field in question must witness the test. When there are no other operators in the field, the Railroad Commission's District Office must be notified of said condition. In such cases, permission must be granted on the testing must be witnessed by a representative of the Railroad Commission District Office.
7. In cases where an increase or decrease has been detected, pressure recording gauges shall be used during the stabilization period, both flowing and shut-in times included. All charts for the duration of the testing period shall be submitted along with this form.

WITNESS ON SHUT-IN COMPLETION:

WITNESS ON FLOWING IN OPERATING FROM SHUT-IN COMPLETION:

WITNESS ON PRODUCTION AT THE END OF THE TEST:

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING:

We, the undersigned, witnessed this packer leakage test as being run in accordance with the Railroad Commission Rules & Regulations.

WITNESS ON PRODUCTION:

WITNESS ON PRODUCTION COMPLETION:

(Representative of company making test) of the _____

WITNESS ON FLOWING:

WITNESS ON FLOWING IN OPERATING FROM SHUT-IN COMPLETION:

(Representative of Offset Operator)

(Offset Operator)

(Representative of Offset Operator)

(Offset Operator)

(Representative of Offset Operator)

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RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

OIL AND GAS DOCKET NOS. 108,
120, 123, 124, 125, 126, 128,
129, 132, and 146

#20 - 18,604

IN RE: CONSERVATION AND PREVENTION OF
WASTE OF CRUDE PETROLEUM AND
NATURAL GAS IN THE STATE OF
TEXAS

Austin, Texas
June 27, 1950

SPECIAL ORDER

AUTHORIZING AND PERMITTING DUAL COMPLETIONS OF OIL AND/OR
GAS WELLS IN THE VARIOUS FIELDS IN THE STATE OF TEXAS AND
PRESCRIBING THE PROCEDURE AND REQUIREMENTS TO BE FOLLOWED

WHEREAS, From time to time, the Railroad Commission of Texas has held numerous hearings on various oil fields in Texas and upon various wells located therein in order to determine the feasibility of permitting dual completion and production of said oil and/or gas wells; and

WHEREAS, Pursuant to many of said hearings and the record there made, reference to all of which is here made, the Commission found that there existed in many oil and/or gas fields in Texas separate and distinct non-communicable reservoirs and that wells drilled thereto, when properly completed, could be safely and non-wastefully produced as dually completed wells, all without adversely affecting greatest ultimate recovery; and

WHEREAS, The Railroad Commission of Texas, on May 16 and June 1, 1950, respectively, held a hearing upon certain named fields in the State of Texas, which said fields are set out in Hearing Notice No. 20-18,137 and also in "Notice to All Oil and/or Gas Operators in the State of Texas," dated May 24, 1950, in order to determine whether any or all of the fields and reservoirs therein named were susceptible of non-wasteful dual completion and production of wells drilled thereto; and

WHEREAS, The Commission finds, pursuant to all of said hearings and particularly the hearings of May 16 and June 1, 1950, that there exists separate and non-communicable reservoirs in many oil and/or gas fields in the State of Texas which are feasibly and reasonably susceptible of having dually completed and producing wells drilled thereto and therein, and that proper and reasonable administration of the conservation statutes of this State support an action by the Commission designating certain named fields and reservoirs therein which have been previously recognized by the Commission, after full notice and hearing, as being non-communicable reservoirs, as being feasible for dual completions, and that such a blanket order permitting dual completions in those zones and within the framework of the hereinafter prescribed procedure is both necessary and feasible.

THEREFORE, IT IS ORDERED By the Railroad Commission of Texas that all those fields and reservoirs specifically named hereinbelow will be recognized as being feasible for dual completions of wells drilled thereto without separate hearings upon each application, provided that the applicant for such permission will file for approval of the Engineering Department of the Commission the following data:

- (1) Diagrammatic sketch of dual completion installation.
- (2) An electrical log of the subject well or a type electric log showing clearly thereon the subsurface location of the separate reservoirs claimed.
- (3) An affidavit that the reservoirs sought to be dually produced have been theretofore designated by the Commission as separate reservoirs after due notice and hearing.
- (4) Affidavit of packer setting.
- (5) Packer leakage test upon form prescribed by the Commission.
- (6) Either waiver of offset operators or evidence that notice of the request has been given to the said operators.

June 27, 1950

Said fields, districts wherein located and the separate reservoirs made the subject of this order are hereinafter set out in Table No. I.

TABLE NO. I

DISTRICT	FIELD	RESERVOIRS
1	San Caja	Luling; Massive (Wilcox)
2	Blanconia	Vicksburg; Sinton
	Caesar, South	Luling; Slick
	Cosden, West	Slick; Mackhank
	Gottschalt	Luling; Mackhank
	Kay Creek	2200'; 2300'; 5100'; 5150' (all gas sands)
	La Rosa	6300'; 5900'; 5800'; 5600'; 5300'
	McFaddin	2900' "B"; Upper 3000' (both gas sands)
	Maubro	Marg. (5100'); Marg. (5200')
	Placedo, East	6000'; 6300'; 6800'
	Poehler	Slick; Massive
	Rudman	Mackhank; Luling
	West Ranch	5700'; Marginulina
3	Altair	Upper Wilcox No. 2; Upper Wilcox No. 3
	Beaumont, West	2900'; 4500'; 4600'; Discorbis "B" (5400'); Marg. (5800')
	Blue Lake	Masterson; Masterson "A"; Stevens
	Collins Lake	Nickell; Willy; Jamison
	Columbus	7300; 7650; 9260; 9645
	Daboval	Frio (1-2); Frio 2-A; Frio 4; Frio 5; Frio 7; Frio 8; Frio 10; Frio 12-A; Frio 13 Upper; Frio 15
	Delhi, North	7050; 7250
	Esperson Dome	Middle Yegua; Basal Yegua; Sarratt;
	Esperson Dome, South	Vicksburg
	Hull	Lower Crockett; Yegua
	Lick Branch	CM-1; CM-2; CM-3; EY-1; EY-2; EY-3;
	McCoy	EY-3a
	New Ulm	Quinn; Kirby
	North Big Hill	Quinn; Kirby
	North Winnie	Schweke; Schiller; Bletzinger
	Ramsey	Marginulina; Frio #1
	South Liberty	Hackberry; Discorbis; Upper Nodosaria #1; Upper Nodosaria #2.
	Stowell	8300; 8950
	Sugar Valley	Block 3: CM-1
		Block 4: CM-2; CM-3; CM-4; EY-1; EY-3; EY-3a; EY-4; EY-4a
		Block 5: CM-2; EY-2; EY-3; EY-3a; EY-4; EY-4a
		Block 5A: EY-6; EY-7
		Block 6: EY-3a; EY-4; EY-4a
		Block 7: EY-3a; EY-4; EY-4a
		Englin; Crawford; Intermediate;
		Stewart; Sullivan
		Culburtson; Lawrence; Robertson;
		Truitt; Granbury; Hurlock
4	Alamo	5500' (Gas); 6000' (Gas)
	Alta Mesa	3800; 4500; 4560; 4950
	Benavides	Pharr; Teddlie
	Garcia	Frost "A"; Garcia Solis; Miller "C"; Miller "E"
	Jay Simmons	A. Sand, B. Sand, C-1 Sand, C-2 Sand, D. Sand, E. Sand, F. Sand, and G. Sand
	Kelsey Deep	Zones 17-B; 18; 18-B; 19; 19-A; 20-B
	Kelsey, South	5300'; 5600; 5700; 5900; 6000; 6200
	Kennard	K; Parades; Coates; Taylor
	La Blanca	6700; 7400; 7500; 7700; 7800; 8000; 8100

TABLE NO. I (Continued)

DISTRICT	FIELD	RESERVOIRS
4 (Cont'd)	La Reforma	"C" zone; "G-1" zone
	Longhorn, South	Hiawatha; Upper Cole
	Los Indios	"J" zone; "M" zone; "N" zone; "P" zone
	Magnolia City, North	Bennett; Evetts; Jones; Presnall
	Mercedes	6900; 7000; 7050; 7150
	Odem	3100; 3500; 4400; 5300; 5400 "B & C"; 5400 "D"; 5500
	Portillo	7400; 8100
	Riverside	4800' (gas); 6900' (gas)
	Saxet Deep	Lower 6500; Upper 6600; 6900; Weil (7400); Talbot; Willis; McAllen
	Seeligson	Zones 10; 12; 13-A; 14-B; 15; 16; 17; 18-B; 19-B; 19-C; 19-D; 20
	Sheridan	"L" zone; "P5Q" zone (Injection only)
	Southland	Teddle; Pettus; Upper Cole; Lower Cole; Walstead
	South Weslaco	7400; 8100; 8300; 8600; 8900; 9000
	Tijerina-Canales-Blucher	Mary; Marie; Conrad; 3rd Tijerina; Margaret; Claude; Charles; Richard; Carl; 6200'; 6900'; 7900'
	White Point, East	Fickey; Cole; Brigham; Heep; 3900'
5 & 6	New Hope	Bacon; Hill; Pittsburg; Elledge
	North Lansing	Rodessa-Young; Travis Peak
	Tennessee Colony	Upper & Lower Rodessa Zones
	Wascom	Travis Peak; Rogers (Oil Zones)
8	Andector Fields	McKee; Waddell
	Bedford	Devonian & Ellenberger
	Dollarhide	Clearfork; Ellenberger
	Dollarhide, East	Clearfork; Ellenberger
	Embar Fields	Ellenberger; Permian
	Flanagan	Clearfork; Devonian; Ellenberger
	Robertson	Devonian; Ellenberger
	Shafter Lake	Devonian; Wolfcamp
	TXL	Devonian; Silurian; Ellenberger
	Weiner Colby	Yates & Weiner Colby
	Wheeler	Devonian; Silurian; Ellenberger
9	Walnut Bend	2600; Hudspeth; Cox; Walnut Bend; Bruhlmeier
	Fargo	Cisco (3200); Canyon (3900); Strawn (4400)

IT IS FURTHER ORDERED By the Commission that this order may, at any time, be amended by the Commission in such a manner as would delete and withdraw from the operation hereof any reservoir or reservoirs or field hereinabove named, and further that after due notice and hearing, any additional field or reservoirs therein located may be added hereto.

RAILROAD COMMISSION OF TEXAS

W. J. Murray, Jr., Chairman

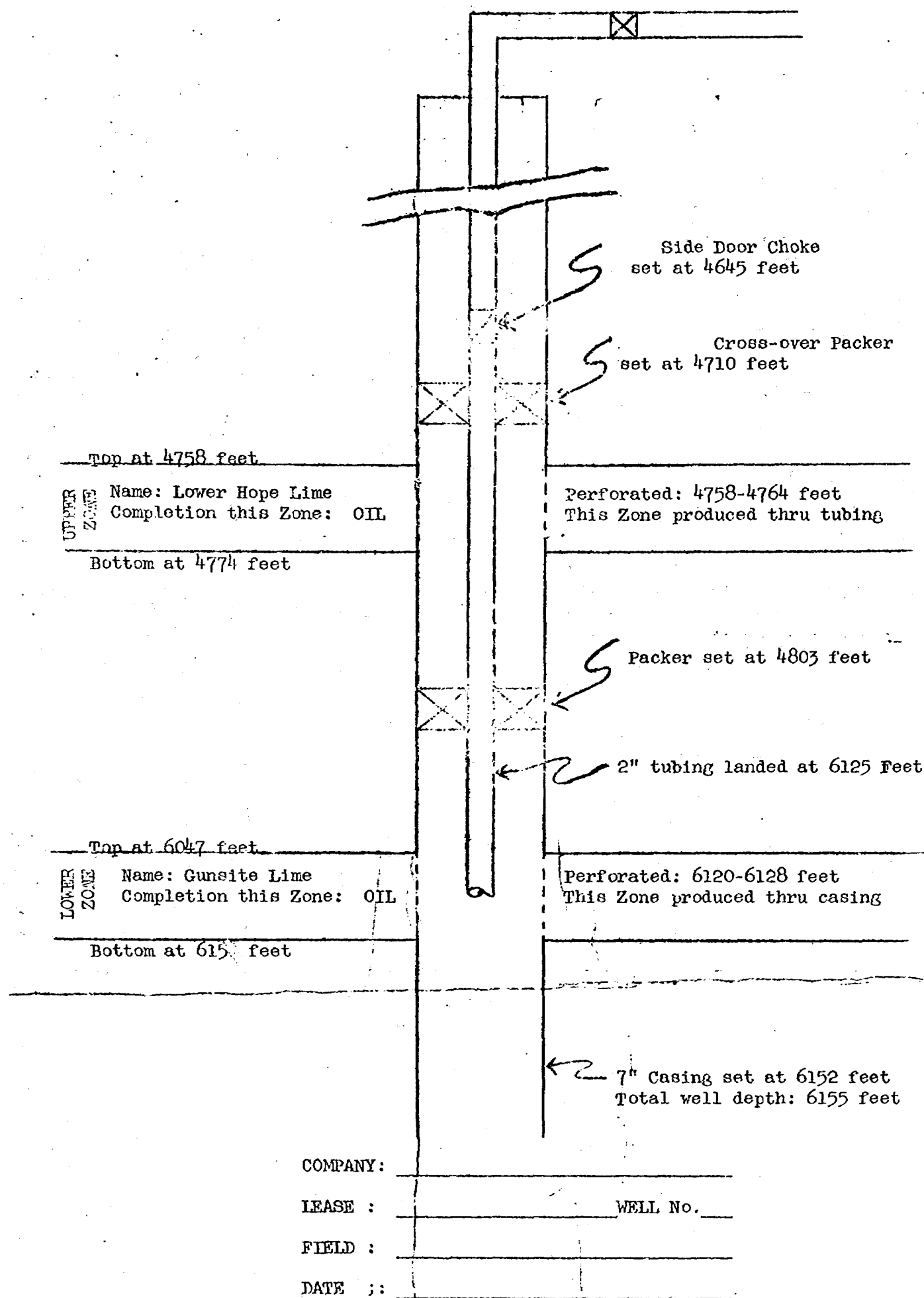
Ernest O. Thompson, Commissioner

(S E A L)

ATTEST:

O. D. Hyndman, Secretary

DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION INSTALLATION



APPLICATION FOR DUAL COMPLETION
IN ZONES HERETOFORE DETERMINED TO BE FEASIBLE FOR
SUCH PURPOSES IN THE _____ FIELD

(To be filed with Railroad Commission, Oil & Gas Division,
Tribune Building, Austin, Texas)

Date: _____

Field name _____ County _____ RRC Dist _____

Operator _____ Lease _____ Well No. _____

1. Are the reservoirs herein requested to be used for dual completion presently recognized by the Commission as separate reservoirs as the result of prior hearing or hearings for permission to complete dually? _____

2. The following facts are submitted:

Upper Zone

Lower Zone

- a. Name of reservoir _____
- b. Top of Pay Section _____
- c. Bottom of Pay Section _____
- d. Perforations _____
- e. Type of Production (Oil or Gas) _____

3. Identify one instance (operator, lease, well number) wherein the Commission granted dual completion involving these same two zones in this field. _____

4. The following are attached. (Please mark YES or NO)

- a. Electrical log with tops and bottoms of producing zones and perforated intervals shown and marked _____.
- b. Affidavit of Packer Setting _____.
- c. Diagrammatic Sketch of Dual Completion Installation _____.
- d. Packer Leakage Test _____.

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

6. Have each of these operators listed in Item 5 above been furnished a copy of this application? _____. Give date furnished _____.

7. Are letters waiving notice of hearing from each of the above offset operators attached? _____.

8. In lieu of waivers, are copies of letters requesting such waiver from each of these offset operators attached? _____.

9. Is this a regular location with respect to both zones? _____.

10. If the answer to Item 9 is "No," has Rule 37 hearing been held on zones affected by such rule? _____. State Rule 37 case number _____.

REMARKS:

Operator

By

THE STATE OF TEXAS

COUNTY OF

BEFORE ME, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN To before me, this the _____ day of _____

19____

Notary Public in and for _____
County, Texas

INSTRUCTIONS

Item 1. The recognized reservoirs are listed in Table I, Commission Order No. 20-18,604, dated June 27, 1950, and in certain field rules applicable to specific fields.

Item 2. a. The name of reservoir should correspond to reservoir nomenclature as outlined in above order and field rules.

Item 4, b, c, & d. These forms may be secured at nearest Commission District Office or the Commission's Austin Office.

Item 7. Request for waiver must contain the following:

- Operator, lease, and well number involved.
- Copy of application for dual completion.
- Date application will be mailed to the Commission's Austin Office.

Should all necessary waivers not accompany application, the Engineering Department of the Commission shall hold such application for a period of ten (10) days from date of receipt in the Austin Office. If, after said ten (10) day period, no protest or request for hearing is received in the Austin Office, the application will then be processed.

PACKER SETTING AFFIDAVIT

I, _____, being of lawful age
Name of Party Making Affidavit
and having full knowledge of the facts hereinbelow set out do state:

That I am employed by _____ in the
capacity of _____, that on _____, 194____,
Date
I personally supervised the setting of a _____
Make and Type of Packer
in _____,
Operator of Well Lease Name
Well No. _____ located in the _____,
Field
County, Texas, at a subsurface depth of _____ feet, said depth

measurement having been furnished me by _____;
that the purpose of setting this packer was to effect a seal in the annular
space between the two strings of pipe where the packer was set so as to pre-
vent the commingling, in the bore of this well, of fluids produced from
a stratum below the packer with fluids produced from a stratum above the
packer; that this packer was properly set and that it did, when set, effec-
tively and absolutely seal off the annular space between the two strings of
pipe where it was set in such manner as that it prevented any movement of
fluids across the packer.

STATE OF TEXAS
COUNTY OF _____

Before me, the undersigned authority, on this day personally appeared
_____, known to me to be the person whose
name is subscribed to this instrument, who after being by me duly sworn on
oath, states that he has knowledge of all the facts stated above and that the
same is a true and correct statement of the facts therein recited.

Subscribed and sworn to before me on this the _____ day
of _____, 194____.

Notary Public in and for
County, Texas

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Packer Leakage Test

Field Name: _____

Operator: _____ Lease: _____ Well No. _____

Address: _____ County: _____

P. O. Box No.: _____ District No.: _____

Test No. 1

Date Shut-in: _____ Length of time shut-in prior to test _____ hours

DATA ON PRODUCING COMPLETION:

Completion producing _____ Reservoir _____ Choke Size _____ inches

Twenty-four hour shut-in pressure prior to test: _____ p.s.i.

Stabilized flowing pressure during test: _____ p.s.i.

Length of time for stabilized flowing pressure _____ hours.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time in obtaining this shut-in pressure _____ hours.

DATA ON SHUT IN COMPLETION:

Completion shut-in _____ Reservoir _____

Twenty-four hour shut-in pressure prior to test _____ p.s.i.

Minimum shut-in pressure during test: _____ p.s.i. Maximum _____ p.s.i.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time required for pressure at the end of the test: _____ hours.

Maximum pressure change of shut-in completion during test _____ p.s.i. (increase
(decrease

Test No. 2

Same well bore as in Test No. 1, but with _____ completion
producing and _____ completion shut-in.

Date Shut-in: _____ Length of time shut-in prior to test: _____ hours.

DATA ON PRODUCING COMPLETION:

Completion producing _____ Reservoir _____ Choke Size _____ inches.

Twenty-four hour shut-in pressure prior to test: _____ p.s.i.

Stabilized flowing pressure during test: _____ p.s.i.

Length of time for stabilized flowing pressure: _____ hours.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time in obtaining this shut-in pressure _____ hours.

DATA ON SHUT IN COMPLETION:

Completion Shut-in _____ Reservoir _____

Twenty-four hour shut-in pressure prior to test: _____ p.s.i.

Minimum shut-in pressure during test _____ p.s.i.; Maximum _____ p.s.i.

Shut-in pressure at the end of the test: _____ p.s.i.

Length of time required for pressure at the end of the test: _____ hours.

Maximum pressure change of shut-in completion during test _____ p.s.i. (increase
(decrease

Classification of completion testing, whether oil well or gas well: Tubing _____

Casing _____

REMARKS: _____

INSTRUCTIONS

1. All wells shall be shut-in a minimum of 24 hours for stabilization prior to the conducting of the packer leakage test.
2. The minimum time that shall be allowed for stabilization of the flowing pressures will be 24 hours.
3. The minimum time allowed for stabilized pressures at the end of the first flowing time will be 24 hours.
4. All pressures shall be made preferably with a dead weight test gauge.
5. In the event of any increase or decrease in the pressures shown as being taken on the shut-in completion, the Test No. 2 should then be made in the same manner as Test No. 1. Test No. 2 shall be made with the completion producing that was shut-in during Test No. 1. Likewise, the completion that was producing during Test No. 1 shall be shut-in during Test No. 2.
6. All tests shall be witnessed by at least two offset operators. In the cases where offset operators do not exist, any two operators in the field in question must witness the test. When there are no other operators in the field, the Railroad Commission's District Office must be notified of said condition. In such cases, permission must be granted or the testing must be witnessed by a representative of the Railroad Commission District Office.
7. In cases where an increase or decrease has been detected, pressure recording gauges shall be used during the stabilization period, both flowing and shut-in times included. All charts for the duration of the testing period shall be submitted along with this form.

EACH WITNESS MUST SIGN IN HIS OWN HANDWRITING:

We, the undersigned, witnessed this packer leakage test as being run in accordance with the Railroad Commission Rules & Regulations.

(Representative of company making test)

(Representative of Offset Operator)

(Offset Operator)

(Representative of Offset Operator)

(Offset Operator)

Representative of the Railroad Commission:

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by the Railroad Commission of Texas for this packer leakage test were complied with and carried out in full and that all dates and facts set forth on both sides of this form are true and correct.

(Representative of Company making test)

(Company making test)

SWORN TO AND SUBSCRIBED before me this the _____ day of _____ 19____.

(Notary Seal)

Notary Public in and for _____ County, Texas

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
March 20, 1951

Case No. 261:

This is an application by Cities Service Oil Company of Bartlesville, Oklahoma, to dually complete State S No. 3, located in the SE/4 NW/4 section 15, T.21 S, R. 37 E, Lea County, New Mexico, for oil/oil completion in the Ellenburger and McKee formations; perforations in the Ellenburger 7860-7900' and 7960-8000'; for the McKee 7454-7530'.

CHAIRMAN SHEPARD: The next case is Case 261.

(Mr. Graham reads the notice of publication.)

MR. ADAMS: My name is I. E. Adams. I am pro ration engineer with Cities Service and represent them in this application.

CHAIRMAN SHEPARD: You will testify?

MR. ADAMS: Yes, sir.

CHAIRMAN SHEPARD: Swear him please.

(Mr. Adams sworn.)

MR. ADAMS: This is the application of the Cities Service Oil Company for authorization to dual complete and produce its State S No. 3 and No. 4 wells located in the

Brunson area in Lea County in the McKee Sand of the Simpson group and in the Ellenburger lime, common source of supply. In the event the Commission finds the dual completion of State S No. 3 and 4 wells is impractical and unserviceable, it is requested that a figure of allowable be authorized so that one well may produce from the McKee with an allowable commensurate to that of 2 - 40-acre units, and the other well produce from the Ellenburger with an allowable also commensurate to 2 - 40-acre units.

Further, before such an allowable transfer be authorized, the productive ability of each of these reservoirs be tested to the satisfaction of this Commission.

MR. HOUSTON: We must object at this time to anything about the transfer of allowable. It isn't in his application.

MR. ADAMS: It is in the application, if you will read it. It isn't in the notice and I understand that is just an omission.

MR. SPURRIER: Let's see if it is in the notice.

(Off the record.)

MR. SPURRIER: As a matter of clarification, I want to state right now we left that ~~transfer~~ deliberately out of that application, because you didn't have anything to transfer it to. You have a drilling well, you don't have a

productive well.

MR. ADAMS: We don't have a productive well, but in our opinion, this well will be on a comparative basis with well No. 4 which is - as far as the McKee and Ellenburger formations are concerned.

MR. SPURRIER: If opinions made wells, we would have a lot more.

CHAIRMAN SHEPARD: We can't consider the transfer of the allowable at this time on this application, but you may proceed with your application for dual completion.

MR. ADAMS: Thank you sir.

I would like to introduce as Exhibit No. 1 an ownership plat of the area showing the location of the leases and offsetting ownerships and wells. I will state that our State S No. 3 well was drilled to a total depth of 8034 feet. The McKee sand was encountered from 7467 to 7575. The top of the Ellenburger was at 7728. In drilling the well, we set 330 feet of 13-3/8s surface pipe and an intermediate string of 2802 feet of 8-5/8s, and a bill string of 5½ cemented at 8032 at which the top of the cement, as shown by the temperature survey on the oil string, was 2059 feet.

When the McKee sand was encountered in the drilling of the well, a drill stem test was made from 7454 to 7530. The tube was opened approximately two hours and 20 minutes and the

well flowed after cleaning out at the rate of 99 barrels of oil per hour with the gas-oil ratio of 967 cubic feet per barrel, gravity, 43.4. This in our opinion proved we could make a commercial well in the Ellenburger sand. In the Ellenburger lime the perforations are at 7860 to 7900 feet and 7960 to 8000 feet. On potential the well flowed 65 barrels through a 3864ths inch choke giving it a rated 24 hour potential of 1540 barrels. No water was produced. The gas-oil ratio was 915 cubic feet per barrel, and the gravity 32.2 and the bottom hole pressure at 7747. That would be minus subsea 4300 feet, 2530 PSI. We propose to perforate the 5½ inch oil stream opposite this proven productive section of the McKee sand. The Ellenburger has been perforated and the well completed in that horizon. The packer will be installed in that interval between the sets of perforations in the McKee and the Ellenburger, and the type and design of packer which we have used in a number of other cases that have been proven to work will be installed, which will in our opinion effectively shut off the two reservoirs.

The Ellenburger would be produced through the tubing and the McKee sand through the annulus between the tubing and the casing. We do not believe there will be any inter-communication between the zones or any cammingling. The oil will be separately produced, tanked, and gauged from the two

reservoirs.

The packer we plan on installing is more or less standard in Oklahoma, Texas, and Kansas, the regular model - Baker Model D, retainer production packer.

In Texas we have over 40 of these in use and in Oklahoma possible 15 or 20 and in Kansas 67. In view of the present national emergency under which a substantial percentage of steel and other essential materials and metals have been allocated to the military and to the war production effort, as we all know, there is a very crucial shortage of tubular goods. We believe that by having a dual completion we will be able to have material available for the drilling of other wells, exploratory wells, extending other producing fields that we would otherwise not have for our use.

And the drilling of our State S No. 3 well, the total tonnage amounting to in excess of 130 tons. We utilized also 1200 sacks of cement, which is also on the critical lists. In drilling the well over ten thousand man hours of labor were expended; ~~all~~ of which would have to be duplicated in case we had to drill ~~two~~ twin wells.

We are also cognizant of the four point program of Mr. Chapman and have similar clippings as the one presented by Tidewater but I don't believe there would be any use in duplicating those here. It is our intention, if allowed to

dually complete the well, to fully comply with Rule 304 of the Commission or any other applicable orders that the Commission might make. The well would be so equipped that pressure or any other data which the Commission might desire to take could be made in order to insure that the zones are satisfactorily separated.

Exhibit No. 2 - I would like to introduce the electrical log of our well. And mostly for informatory purposes a copy of the Texas Statewide Order which shows the dual completion authorized in various Texas fields along with their requirements, and the tests that they make to insure there is no camingling or inter-communication between the zones. I think that is all I have.

CHAIRMAN SHEPARD: Any questions?

MR. HOUSTON: Mr. Adams do you propose to re-file your application so as to include a transfer of allowable?

MR. ADAMS: Yes, sir.

MR. HOUSTON: That would be filed and be taken up at the next hearing then and there will be an alternative application, is that right?

MR. ADAMS: In view of the fact that our State S. 4 well can't be completed because it is in the process of drilling, I think it is around 6000 feet now, while we haven't hit the

top of the McKee sand. I will say that our next application will be just like this one, to dual complete the three and four wells, - this is already to dual complete three but to dual complete four or transfer allowable between number 3 and 4 well.

MR. HOUSTON: You propose to go ahead and dually complete 3 before 4 is completed?

MR. ADAMS: Not without the authorization of the Commission.

MR. HOUSTON: I mean if it is authorized. You want them to go ahead and act on this application at this time?

MR. ADAMS: If they would do so, yes.

MR. LAVERING: I have a question from the witness. You made a point of 10,000 man hours saved.

MR. ADAMS: Yes.

MR. LAVERING: In the dual completion. Isn't it true that the dual completion takes considerable longer to complete than a drilled well?

MR. ADAMS: Naturally it takes longer.

MR. LAVERING: Considerably longer.

MR. ADAMS: Considerably longer but comparatively -

MR. LAVERING: (Interrupting) Isn't it true after you have it dually completed it takes greater supervision to cope with the problems of production and thereby increases

maintenance on that type of well.

MR. ADAMS: I think very little.

MR. LAVERING: You don't think over a period the extra time required to dually complete and repair those wells periodically, which it has been testified here is the history of past wells, plus the supervision for maintenance, will balance up.

MR. ADAMS: It has been our experience in other fields we haven't had to have additional labor for dual completion.

CHAIRMAN SHEPARD: Anyone else?

MR. DEWEY: Mr. Adams have you any comment to make on any of your dual completions in West Texas? You have made some in certain fields, haven't you?

MR. ADAMS: We have made four in the Shaft-Lake field of Andrew County. I think roughly 14 or 15 in the Dollar Hayde field, - I think that is also in Andrew County. The border of the Texas-New Mexico line which you mentioned a while ago.

MR. DEWEY: Do you have any in the Wheeler pool?

MR. ADAMS: Yes, we have two in the Wheeler pool.

MR. DEWEY: They are all successful?

MR. ADAMS: As far as I know, I have never heard anything to the contrary.

MR. DEWEY: You think they will remain that way throughout their completion life?

As over

MR. ADAMS: No, there will be problems will come up of course. For example, in Shaft^h Lake the formation has stopped flowing and we are installing pumping equipment there to pump dually the two horizons.

MR. DEWEY: Would you like to comment ^{on the experience} / ~~on~~ the Shafter Lake ~~on~~ pool ^{or} relative to the other operators in those pools that you would like to comment on?

MR. ADAMS: I wouldn't want to comment on Wheeler because I am not too familiar, but in Shafter Lake the dual completions have been satisfactory to my knowledge.

MR. DEWEY: Did you hear me in the former testimony in the former case?

MR. ADAMS: Yes, sir, I was here.

MR. DEWEY: I made the statement that three out of seven of ~~all~~ ^{any} dual completions were bad, for one reason or another. Do you think that is about the experience? Do you think that is what has been experienced in West Texas dual completions? You think these figures are representative?

MR. ADAMS: No, sir, I do not.

MR. DEWEY: You think it is abnormal.

MR. ADAMS: I believe it is.

MR. DEWEY: You think there are about 25 percent failures?

MR. ADAMS: I wouldn't like to give a percentage figure. I don't know what you consider a failure. If the formation ceases to flow that doesn't necessarily condemn the dual completion.

MR. DEWEY: That is all. I would like to request that the reporter be instructed to incorporate my statement in the former hearing and make it a part of this hearing.

CHAIRMAN SHEPARD: It will be granted.

MR. DEWEY: And also include the testimony in the case that was held about two and a half years ago.

CHAIRMAN SHEPARD: It will be done.

(See Case No. 260 for the above incorporation.)

CHAIRMAN SHEPARD: Anyone else? Mr. Morrell?

MR. MORRELL: No.

MR. LAVERING: How much experience have you had in these two reservoirs, Hare and Brunson? How many wells do you have in that field?

MR. ADAMSP: I think we had five or four Ellenburger wells. We don't have any Simpson wells to my knowledge, except this potential well which is a good one.

MR. LAVERING: I asked a previous witness whether or not reservoir conditions and practical experience weren't a prerequisite which should be of paramount importance in the

promulgation of dual completions, and I would like to ask you the same question.

MR. ADAMS: What do you mean by reservoir conditions?

MR. LAVERING: The type of reservoir, characteristics, as to flowing capacity, things that affect the recovery of oil from the well bore.

MR. ADAMS: As long as the reservoir is flowing I can see no complications. How long it will produce by natural flow I don't know.

MR. LAVERING: What percentage of the recoverable production do you anticipate obtaining under those zones flowing.

MR. ADAMS: I don't know.

MR. LAVERING: That is all.

CHAIRMAN SHEPARD: Anyone else. We will hold this open and you may reapply, and we will thereafter consider the dual completion and the allowable together.

MR. ADAMS: The question of the date comes up there. How long it will take for the hearing. I don't know when this second well will be down to the Ellenburger, and I understand until it is, we won't be able to apply from your former ruling. So, whether or not we can get it heard in April I don't know. How much time would the Commission allow.

MR. SPURRIER: 40 days. You should have your application

in 30 days before the hearing.

MR. ADAMS: Your next hearing is set for April 24th.

MR. McCORMICK: How soon do you plan to complete your second well that is now drilling.

MR. ADAMS: Mr. Dodie will you answer that question?

MR. DODIE: 25 to 30 days.

MR. McCORMICK: I would suggest as soon as you complete and test that you then file your application, and it will be taken up as quickly as possible after that.

CHAIRMAN SHEPARD: Probably be in May.

MR. ADAMS: Be at the May hearing then.

MR. SPURRIER: Yes, you could file application and telephone us when the well comes in.

MR. ADAMS: If we had tests to show that before completion both horizons were productive, that would suffice?

MR. SPURRIER: Sure.

CHAIRMAN SHEPARD: I see we have a visitor back here who served on this Commission longer than anyone else. Stand up Governor Miles.

(Applause)

CHAIRMAN SHEPARD: We will be in recess until 1:30.

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) SS

I hereby certify that the foregoing transcript of Case No. 261 before the Oil Conservation Commission on March 20, 1951, in the Council Chambers, City Hall, Santa Fe, New Mexico, is a true record of the same to the best of my knowledge, skill and ability.

Dated at Albuquerque, New Mexico, March 29, 1951


E. E. GREESON

My Commission expires August 4, 1952.

STATE OF NEW MEXICO
OFFICE OF STATE GEOLOGIST
SANTA FE, NEW MEXICO

March 22, 1951

C
O
P
Y

Cities Service Oil Company
Bartlesville, Oklahoma

Gentlemen:

We are enclosing signed copy of Order No. R-64 in Case 261
in the matter of Cities Service Oil Company's application for
authority to dually complete its State S No. 3, SE NW 15-21S-37E.

Very truly yours,

Secretary and Director

bpw

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 261
ORDER No. R-64

IN THE MATTER OF THE APPLICATION
OF CITIES SERVICE OIL COMPANY FOR
AUTHORITY TO DUALY COMPLETE STATE S
No. 3, LOCATED IN THE SE/4 NW/4 SECTION
15, T. 21 S, R. 37 E, LEA COUNTY, NEW MEXICO,
IN THE ELLENBURGER AND MCKEE FORMATIONS.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This matter came on regularly for hearing on the 20 day of March
1951 before the Oil Conservation Commission, hereinafter referred to as
the "Commission."

IT IS ORDERED that applicant may amend its application, the same
to be readvertised at a date set upon filing of amended application.

DONE at Santa Fe, New Mexico, on this 21 day of March 1951.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Edwin L. Mechem
EDWIN L. MECHEM, Chairman

Guy Shepard
GUY SHEPARD, Member

R. R. Spurrer
R. R. SPURRIER, Secretary



CITIES SERVICE OIL COMPANY

PRODUCERS-REFINERS-MARKETERS OF PETROLEUM PRODUCTS

BARTLESVILLE
OKLAHOMA

February 13, 1951

Mar 20 hearing

Oil Conservation Commission
State of New Mexico
P.O. Box 871
Santa Fe, New Mexico

File 261

Attention: Mr. R. R. Spurrier, Secretary

Dear Dick:

Enclosed herewith are four copies of the application of the Cities Service Oil Company requesting authorization to dual complete and produce from the McKee Sand of the Simpson zone and the Ellenberger Lime reservoirs its State "S" #3 and State "S" #4 wells or as an alternative to transfer the allowables of the separate reservoirs between these two wells.

It is my understanding that the Tide Water Associated Oil Company has filed a similar application pertaining to their lease offsetting the Cities Service "S" lease to the North. If this matter can be set at the same time and place as the Tide Water application, the handling of similar matters would be materially expedited and all pertinent facts would be developed at the same time for the Commission's consideration.

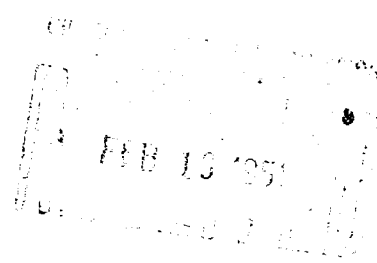
Will you kindly advise me as to the time the application is set for hearing and also whether or not it will be heard with the Tide Water case.

With kindest personal regards, I am

Yours very truly,
CITIES SERVICE OIL COMPANY

By R. E. Adams
R. E. Adams
Proration Engineer

REA:mb



February 16, 1951

Mr. R. E. Adams
Cities Service Oil Company
Bartlesville Oklahoma

Dear

With reference to your letter of February 13, this is to advise that your application for dual completion for Cities Service Oil Co., State S No. 3, SE NW 15-21S-37E, will be heard at the March 20 hearing of the Oil Commission.

With reference to your second inquiry: Tide Water Associated Oil Company has also made application for dual completion for their State S No. 4, located in the NE NW 15-21S-37E. Their application will also be brought up for the March 20 hearing.

Very truly yours,

bpw

Secretary and Director

cc: Tide Water Associated Oil Co.,
Houston, Texas

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF THE
CITIES SERVICE OIL COMPANY TO DUAL COMPLETE)
AND PRODUCE ITS STATE "S" NO. 3 AND NO. 4)
WELLS LOCATED IN THE S/2 NW/4 SECTION 15,)
T-21-S, R-37-E, BRUNSON-HARE FIELDS, LEA)
COUNTY, NEW MEXICO, IN THE MCKEE SAND AND)
ELLENBERGER LIME COMMON SOURCES OF SUPPLY,)
OR TO AUTHORIZE THE TRANSFER OF ALLOWABLES)
BETWEEN SAID WELLS IN SAID COMMON SOURCES)
OF SUPPLY.)

A P P L I C A T I O N

Comes now the Cities Service Oil Company, a Corporation, and respectfully shows to the Commission as follows:

1. That applicant is the owner of an oil and gas lease described as the S/2 NW/4 Section 15, T-21-S, R-37-E, Brunson-Hare Fields, Lea County, New Mexico.
2. That applicant's State "S" Well No. 3 located 75 feet North and 75 feet East of the Center of the SE/4 NW/4 of Section 21 has been drilled to a total depth of 8034 feet in the Ellenberger Lime, top of which was encountered at 7725 feet and now is being completed in that reservoir through perforations from 7860-7900 feet and 7960-8000 feet. That in initial testing this well has produced through a 32/64" choke at the rate of 331 barrels of oil per day with a gas-oil ratio of 1135 cu. ft. per barrel. That in the drilling of said well the McKee Sand of the Simpson zone was found from 7467-7575 feet. That on a drill stem test from 7454-7530 feet in the McKee Sand the well flowed at the rate of 99 barrels of oil per hour with a gas-oil ratio of 968 cu. ft. per barrel. That the McKee Sand and Ellenberger Lime are separate common sources of supply separated by impermeable shale and lime in excess of 150 feet in thickness.
3. That applicant's State "S" Well No. 4 located 100 feet East of the Center of the SW/4 NW/4 of Section 21 is in the process of drilling with the McKee Sand of the Simpson zone and the Ellenberger Lime common sources of supply as its objectives. That current information indicates that these reservoirs will be commercially productive in said well.
4. That applicant proposes to install a packer, of approved mechanical design, in the interval between the base of the McKee Sand and the top of the Ellenberger Lime, in each of said State "S" Wells Nos 3 and 4, so as to produce the Ellenberger Lime reservoir through the tubing and the McKee Sand reservoir through the annulus between the tubing and casing. That said two common sources of supply can be separately produced through the same well bore, simultaneously or intermittently, by the use of such approved mechanical devices which will prevent any commingling of fluids therefrom or migration thereof between the reservoirs.
5. That the production of these two reservoirs by this means and in this manner will tend to prevent waste; increase the ultimate recovery of the respective reservoirs; protect correlative rights; prevent the drilling of unnecessary wells, and utilize to the fullest extent materials made critical by the demand of additional wells for the defense effort, and other war production projects, all to the benefit of your applicant, other producers, royalty owners and the State of New Mexico.
6. That and in the event this Commission finds that the dual completion of applicant's State "S" No. 3 and No. 4 Wells is impractical and/or infeasible as herein proposed, it is respectfully requested that transfer of allowables be authorized so that one well may produce from the McKee Sand with an allowable commensurate to that of two 40 acre units and that the other well produce from the Ellenberger Lime with an allowable also commensurate to that of two 40 acre units. That before such allowable transfer be authorized the productive ability of each of said reservoirs in each of said wells be tested to the satisfaction of this Commission.

7. That applicant believes and so represents to this Commission that preferably the dual completion of wells in the McKee and Ellenberger reservoirs, or in the alternative the transfer of allowables between said wells in said reservoirs would not result in reservoir waste or impair correlative rights but would establish additional immediately producible reserves of oil with a minimum expenditure of critical material, and is in the best interests of the nation's preparedness program.

8. That a plat is attached hereto marked as Exhibit "A" showing the location of all wells on applicant's lease, and all offset wells on offset leases.

WHEREFORE, Applicant prays that this cause be docketed and set for hearing, that notice thereof be given as required by law, and that upon such hearing an order be promulgated authorizing the dual completion of the States "S" No. 3 and No. 4 wells of applicant so as to produce the McKee Sand of the Simpson zone and the Ellenberger Lime through the same well bore, or, in the alternative, a transfer of allowables be authorized so as to produce one well from the McKee Sand and the other from the Ellenberger Lime each being situated on 80 acre units with allowables commensurate to the unit size.

Dated: February 13, 1951

CITIES SERVICE OIL COMPANY

BY R. E. Adams
R. E. ADAMS
PRORATION ENGINEER

