

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

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.

Ex 3  
Case 261

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	Blanca	Vicksburg; Sinton Luling; Slick Slick; Mackhank Luling; Mackhank Luling; Mackhank 2200'; 2300'; 5100'; 5150' (all gas sands) 6300'; 5900'; 5800'; 5600'; 5300' 2900' "B"; Upper 3000' (both gas sands) Marg. (5100'); Marg. (5200') 6000'; 6300'; 6800' Slick; Massive Mackhank; Luling 5700'; Marginalina Upper Wilcox No. 2; Upper Wilcox No. 3 2900'; 4500'; 4600'; Discorbia "B" (5400'); Marg. (5800') Masterson; Masterson "A"; Stevens Nickell; Willy; Jamison 1300'; 7650'; 9260'; 9645 Frio (1-2); Frio 2-A; Frio 4; Frio 5; Frio 7; Frio 8; Frio 10; Frio 12-A; Frio 13 Upper; Frio 15 7050'; 7250' Middle Yegua; Basal Yegua; Saratt; Vicksburg Lower Crockett; Yegua CM-1; CM-2; CM-3; Frio-1; Frio-2; Frio-3; Frio-3a Quinn; Kirby Quinn; Kirby Schweke; Schiller; Bietzinger Marginalina; Frio #1 Hackberry; Discorbia; Upper Nodosaria #1; Upper Nodosaria #2- 8300'; 8950' CM-1 Block 3: CM-2; CM-3; CM-4; Frio-1; Frio-3; Frio-3a; Frio-4; Frio-4a Block 5: CM-2; Frio-2; Frio-3; Frio-3a; Frio-4; Frio-4a Block 5A: Frio-6; Frio-7 Block 6: Frio-3a; Frio-4; Frio-4a Block 7: Frio-3a; Frio-4; Frio-4a Englin; Crawford; Intermediate; Stewart; Sullivan Guthrie; Lawrence; Robertson; Trinity; Granbury; Hurlock 5500' (Gas); 6000' (Gas) 3800'; 4500'; 4950' Pharr; Teddlie Frost "A"; Garcia Solis; Miller "C"; Miller "E" A. Sand, B. Sand, C-1 Sand, C-2 Sand, D. Sand, E. Sand, F. Sand, and G. Sand Zones 17-B; 18; 18-B; 19; 19-A; 20-B 5300'; 5600'; 5700'; 5900'; 6000'; 6200' K; Parades; Coates; Taylor 6700'; 7400'; 7500'; 7700'; 7800'; 8000; 8100
3	Altair Beaumont, West Blue Lake Collins Lake Columbus Daboval Delta, North Esperson Dome Esperson Dome, South Hull Lick Branch McCoy New ULM North Big Hill North Winnie Ramsey South Liberty	
4	Alamo Alta Mesa Benavides Garcia Jay Simmons Kelsey Deep Kelsey, South Kennard La Blanca	

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
	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

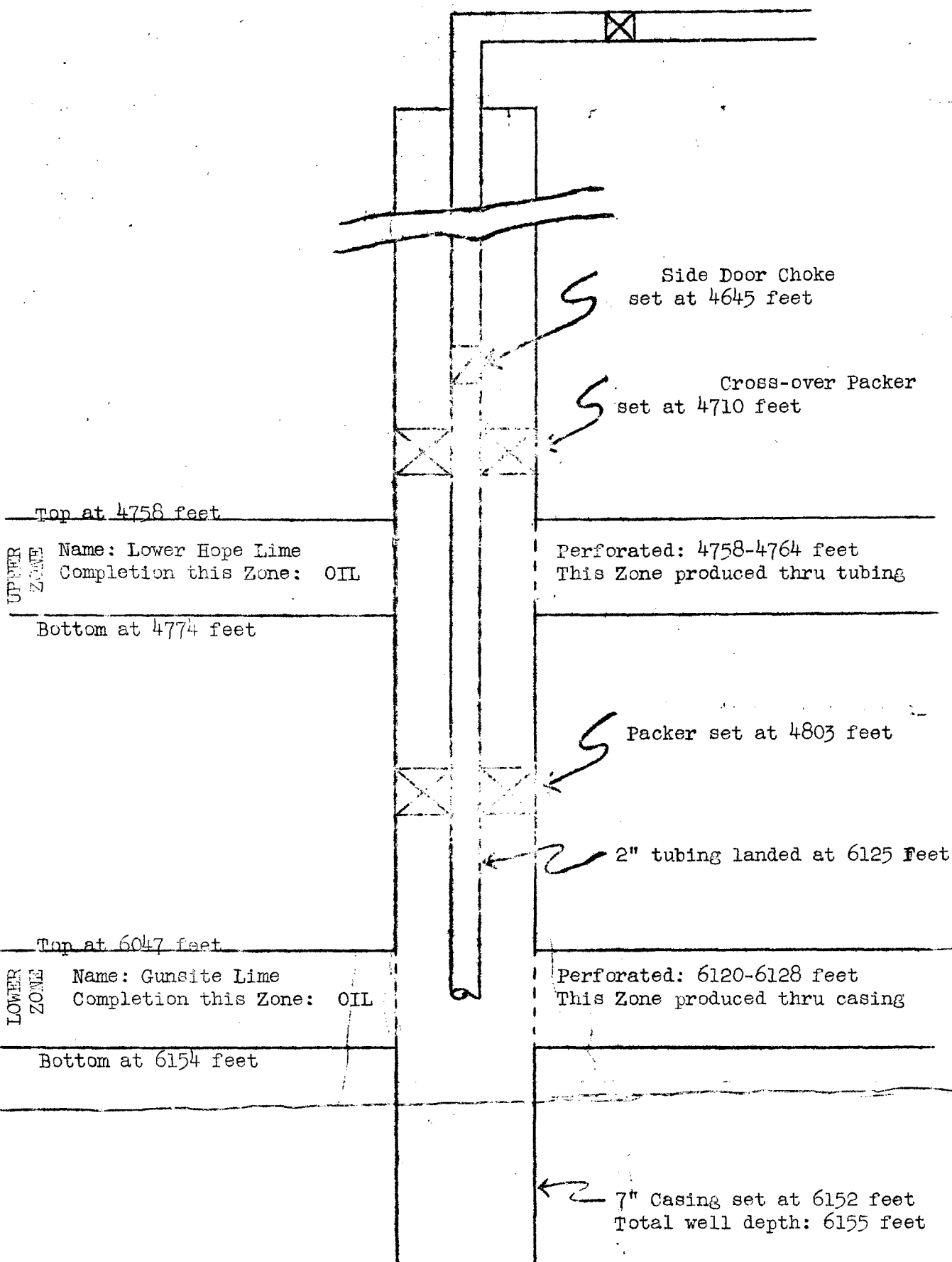
Ernest O. Thompson, Commissioner

(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:

By \_\_\_\_\_  
Operator

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 hereinafter 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 \_\_\_\_\_,  
C 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: \_\_\_\_\_

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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 shall 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)

for

(Representative of Offset Operator)

(Offset Operator)

for

(Representative of Offset Operator)

(Offset Operator)

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.

for

(Representative of company making test)

(Company making test)

day of

19

(Notary Seal)

Notary Public in and for

Texas

County,

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION

OIL AND GAS DOCKET NOS. 108,  
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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

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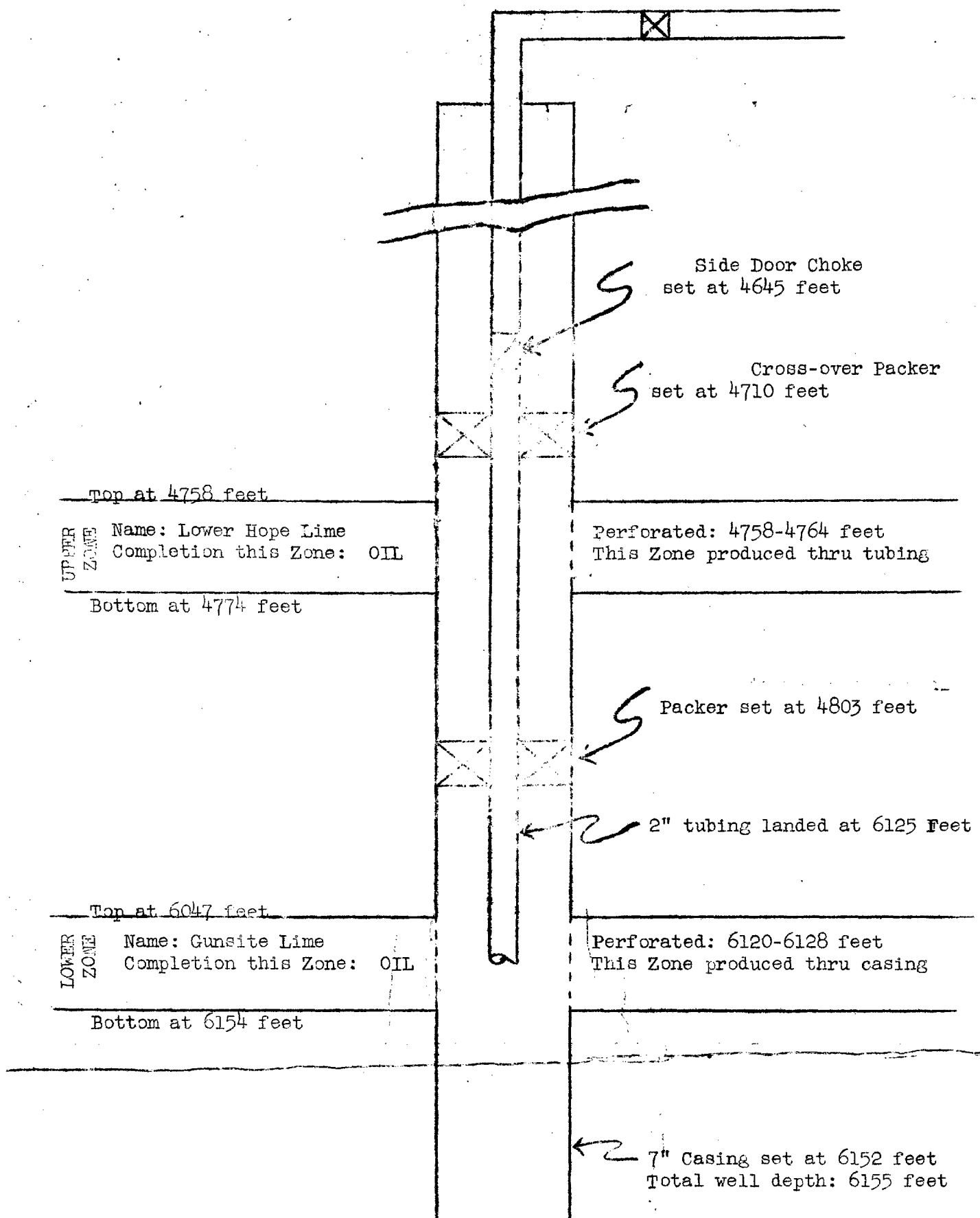
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(S E A L)

ATTEST:

O. D. Hyndman, Secretary

DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION INSTALLATION



COMPANY: \_\_\_\_\_

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(To be filed with Railroad Commission, Oil & Gas Division,  
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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:

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\_\_\_\_.

County, Texas

Notary Public in and for \_\_\_\_\_

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 \_\_\_\_\_,  
C 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 comingling, 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





Packer Leakage Test

Field Name: \_\_\_\_\_

Operator: \_\_\_\_\_

Lease: \_\_\_\_\_

Well No. \_\_\_\_\_

Address: \_\_\_\_\_

P. O. Box No.: \_\_\_\_\_

County: \_\_\_\_\_

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

p.s.i.

p.s.i.

Stabilized flowing pressure during test: \_\_\_\_\_

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 \_\_\_\_\_

p.s.i.

p.s.i.

Minimum shut-in pressure during test: \_\_\_\_\_ 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

p.s.i.

p.s.i.

Stabilized flowing pressure during test: \_\_\_\_\_

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 \_\_\_\_\_

p.s.i.

p.s.i.

Minimum shut-in pressure during test: \_\_\_\_\_ 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.

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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)

\_\_\_\_\_ for \_\_\_\_\_  
(Representative of Offset Operator) (Offset Operator)

\_\_\_\_\_ for \_\_\_\_\_  
(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.

\_\_\_\_\_ for \_\_\_\_\_  
(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

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

# SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



## Electrical Log

COUNTY <u>Lea</u> FIELD or LOCATION <u>No. Brunson</u> WELL <u>State S-3</u> COMPANY <u>Cities Serv. Oil Co.</u>	COMPANY <u>CITIES SERVICE OIL</u>		Location of Well <u>3375' fr S/L</u> <u>3225' fr E/L</u> <u>Sec. 15-21S-37E</u>	
	COMPANY _____			
	WELL _____ STATE <u>S-3</u>			
	FIELD _____ NO. <u>BRUNSON</u>		<i>Case No. 2</i> Elevation: D.F. <u>3447'</u> K.B.: _____ or G.L.: _____	
	LOCATION <u>SEC. 15-21S-37E</u>			
COUNTY <u>LEA</u>		FILING No. _____		
STATE <u>NEW MEXICO</u>				

RUN No.	<u>1</u>				
Date	<u>2-4-51</u>				
First Reading	<u>3027</u>				
Last Reading	<u>2806</u>				
Feet Measured	<u>5221</u>				
Csg. Schlum.	<u>2806</u>				
Csg. Driller	<u>2800</u>				
Depth Reached	<u>8030</u>				
Bottom Driller	<u>8034</u>				
Depth Datum	<u>RT - 13.1' abv. G.L.</u>				
Mud Nat.	<u>Caustic qbr.</u>				
" Density	<u>10.2</u>				
" Viscosity	<u>44</u>				
" Resist.	<u>1.02 @ 65°F</u>	@ °F	@ °F	@ °F	@ °F
" Res. BHT	<u>.48 @ 110°F</u>	@ °F	@ °F	@ °F	@ °F
" pH	<u>10.5 @ °F</u>	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	<u>6 CC 30 min.</u>	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	<u>110</u>				
Bit Size	<u>6 3/4"</u>				
Spcgs.—AM	<u>10"</u>				
A O	<u>32"LS</u>				
AO	<u>19'</u>				
Opr. Rig Time	<u>4 1/2 hrs.</u>				
Truck No.	<u>504-Hobbs</u>				
Recorded By	<u>Young</u>				
Witness By					