The stee the Man

Casa Mo.

261

Application, Transcript,
5 mall Exhibits, Etc.

e 261 - Cities Service to dually complet te S #3, SENW 15-21-37 in Ellenburger

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

Extend the Bough pool: T.9 S, R.36 E 5/2 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

 $\frac{\text{T.12 S, R.33 E}}{\text{W/2 section 3}}$ 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.95, R.28E All section 1 E/2 section 2

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

R. R. SPURRIER Secretary

"Once you open the door the gamblers from Kansas City, Chicago and New York will have thier 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 be said.

full impact of the slots would be 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,

Valdez also saw in the "bandits" a home-breaker role.

Rep. John Bingham, Albuquerque, pinoned 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

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 aperates a jewelry business here.

LEGAL ADVERTISING

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 parites in the following
cases and notice to the public:
260

PEGVI VP T. 11 S, R. 33 E
BE/4 section 33
BW/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 35
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 15
All section 22
Gladiola-Abo pool
T. 12 S, R. 37 E
All section 22
INW/4 section 22
SW/4 section 14
NE/4 section 13
E/2 section 14
NE/4 section 23
N/2 section 14
NE/4 section 23
N/2 section 5
S/2 section 6
All section 7
W/2 section 7
W/2 section 8
Keohane pool
T. 9 S, R. 29 E
SE/4 section 1 W/2 section 8
Keohane pool
T. 9 8, R. 29 B
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 Pebruary 21,
1931.
STATE OF NEW MEXICO

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

Pub.: Feb. 27, 1951.

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.

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

#20 - 18,604

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

> 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 the ein 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.

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	PIEID	RESERVOIRS
1	San Caja	Luling; Massive (Wilcox)
5	Blanconia	Vicksburg; Sinton
(-	Caesar, South	Luling; Slick
	Cosden, West	Slick; Mackhank Luling; Mackhank
	Kay Creek	2200'; 2300'; 5100'; 5150' (all gas
្សាស្ត្រ ពង្ធស្វិស្សាស្ត្រ	To Poco	sands) 6300';,5900';,5800';;5600'; 5300'
inton eschip Gillering (G)	La Rosa go McFaddin	2900' "B"; Upper 3000' (both gas sands)
	Lood Maubro	2900' "B"; Upper 3000' (both gas sands) Marg, (5100'); Marg, (5200')
. CHERRY	Placedo, East	PURCOLLA PLACE PARTICLE PROPERTY PROPER
	Rudman	Mackhank; Luling
opper juograssi		section 5700'; Marginulina per town by sections.
- 4304 000 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Royan posed income namena References entails	quat combretione in those comes and Adding 3
Loen provio	Beaumont, West	2900'; 4500'; 4600'; Discorbis "B"
- Satistion . - Comulantion :	i th gjách jake ltách stan a de cignatin y cerveán menta	(5400'); Marg, (5800') Masterson; Masterson "A"; Stevens
dacing walk	Collins Lake	Nickell; Willy; Jamison
which are t	Dahoval	7300; 7650; 9260; 9645 Frio (1-2); Frio 2-A; Frio 4; Frio 5;
	earluga of May The and Jho carl paponaryetro in Lan	Frio 7; Frio 8; Frio 10; Frio 12-A;
	S, The Commission in the s	man Frio 13 Upper; Frio 15 mg barren
្សាល់ស្ន ា អេសា	Delhi, North Esperson Dome	7050; 7250 Middle Yegua; Basal Yegua; Sarratt;
•	one Romanestatur dust dustades	Transporticks burgaction of more oritical
្រុក ប្រភព្ធភាពប្រ	Acr. Hyllosenepone , South	Tower Crockett; Yegus Love Description of Control of Co
	-are set cuthin Rosring F $A_{ m constant}$ to the $A_{ m constant}$	orthought 34 rolly surrance to there to
geotively,	pergLick Branch See True	in read gribbith waste of Jewes, waste
FHEREY	New Ulm	Schweke; Schiller; Bletzinger
restruk Cre	weesNorth Big Hill DACKAL	Marginulina; Frio #1
- work ona t	uri <mark>niyk bikilibeş v</mark> a çiriyy Tark kerre in inter n ickot o	S seem #1, "Upper Nodosaria #2. The percent
emerk off co	Ramsey 11 12 12 12 13 14 15 15 15 15 15 15 15	Hackberry; Discorbis; Upper Nodosaria Hi, Upper Nodosaria #8.74 pe secona 1. 10.00 8300; 8950 per non-communicacye reserve
- LEGG 20 817	. C. Sonti Profith Waterd	ck 3: CM=1: [Cm-3; CM-4; EY_1; EY_3; EY_3e;
		EY-4: EY-4a
ol cold old	torights. The straint $^{ m BLO}$	ck 5: CM-2; EY-2; EY-3; EY-3a; EY-4; EY-4a cko5A: EY-6; EX-7; server serve servers
្នាក់ស្រួក ស្រួក ស្រ	្រៃស្រាស់ សម្រេច ខេត្ត ស្រួង ស្រ ស្រួន ស្រាស់ សមានសមាន ស្រួន ស្រួង ស្រួ	ck-1: EX-3a; EX-4: EX-4: EX-4a has held numer-
然和服务制度	Stowell	Englin; Crawford; Intermediate;
		Stewart; Sullivan
	Sugar Valley 190 1900	Culburtson; Lawrence; Robertson; Truitt; Granbury; Hurlock
	- unu depis il amp Afhica. - Valginiyido ind ilimili.	o is allected that the theory of the other will The cavit complements on oil who de
4	Alamo Alta Mesa	TO BOYL COMPTENDED DE CIT WID OB
	Benavides	Pharr; Teddlie
	Garcia	Frost "A"; Garcia Solis; Miller "C"; Miller "E"
	Jay Simmons	A. Sand, B. Sand, C-1 Sand, C-2 Sand,
- 4-43 Est	THE THE	D. Sand, E. Sand, F. Sand, and G. Sand
entra de la Sala de la Companya de l La Companya de la Companya de	Kelsey Deep Kelsey, South	Zones 17-B; 18; 18-B; 19; 19-A; 20-B 5300!; 5600; 5700; 5900; 6000; 6200
titi o gart se	Kennard	K; Parades; Coates; Taylor
	La Blanca	6700; 7400; 7500; 7700; 7800; 8000; 8100
		0200

TABLE NO. I (Continued)

DISTRICT	FIELD	RESERVOIRS
4 (Cont'd)	La Reforma	"C" zone; "G-1" zone
(0-110-11)	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
11	Shafter Lake	Devonian; Wolfcamp
	TXL	Devonian; Silurian; Ellenberger
	Weiner Colby	Yates & Weiner Colby
	Wheeler	Devonian; Silurian; Ellenberger
9	Walnut Bend	2600; Hudspeth; Cox; Walnut Bond; Bruhlmeyer
	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

(SEAL)

ATTEST:

O. D. Hyndman, Secretary

DIAGRAMMATIC ISREACH ASHOWING DUAL COMPLETION INSTALLATION

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		<u> </u>	سسدا	
				Side Door Choke set at 4645 feet
			ب	
		/		Cross-over Packer
				Set at 4710 feet
, ,		₫ ; } ;		-
	12-3		زد المسائدة ا	·
Top at 4758 feet				
Mame: Lower Hope Lime Completion this Zone: OIL				Perforated: 4758-4764 feet This Zone produced thru tubing
B N				inis zono produced sid a dating
Bottom at 4774 feet				
			-	
				3.000
				Packer set at 4803 feet
	K			
			E	2" tubing landed at 6125 Feet
Top at 6047 feet	_		•	
Name: Gunsite Lime Completion this Zone: OIL	\\ ;		. !	Perforated: 6120-6128 feet
So Completion this Zone: OIL		•	;	This Zone produced thru casing
Bottom at 6154 feet	-			
1	_			The second secon
		• "		
				4
	1			7" Casing set at 6152 feet Total well depth: 6155 feet
				roul well dopon. Clyy root
COMPANY:			•	
•	1			TOTA NO
LEASE :	-}			WELL No.
FIELD:	-		· — · · · · ·	
DATE ;:	\ - 			
	1			

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)

Field name	County	DDC Diat
Field name	County	
Operator	Lease	Well No.
 Are the reservoirs herein requested recognized by the Commission as separate ing or hearings for permission to comple 	reservoirs as the	cl completion presently result of prior hear-
2. The following facts are submitted:	1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	
en e	Upper Zone	Lower Zone
a. Name of reservoir	en e	
b. Top of Pay Section		
c. Bottom of Pay Section		
d. Perforations		
e. Type of Production (Oil or Gas)) 	podatki stalini Vijanjak
3. Identify one instance (operator, leagranted dual completion involving these	ase, well number) w	herein the Commission
4. The following are attached. (Please	mark YES or NO)	and the second s
a. Electrical log with tops and bo intervals shown and marked		zones and perforated.
b. Affidavit of Packer Setting	mphanhamafumyann haladada nihasmad ta •	
c. Diagrammatic Sketch of Dual Com	pletion Installati	δή <u>1 250 350</u> 1911 12.5
	of edges on the second	grafia i se kristi se vezeta. Posta se sa
5. List all offset operators to the leawith their correct mailing address.		ell is located together
a de la composição de la La composição de la compo	C	
man na mujov sa name	• *	
	المرحة معرضية على الوارد والروار في الروار في ا	the second of th
6. Have each of these operators listed	in Item 5 above be	
this application? Give d		
7. Are letters waiving notice of hearing attached?	ng from each of the	above offset operators
8. In lieu of waivers, are copies of le		uch waiver from each of
9. Is this a regular location with resp	ect to both zones?	
O. If the answer to Item 9 is "No," has	. D. 1 . 27 h	con hold on monog of

the Austin Office, the application will then be processed.

PACKER SEITING AFFIDAVIT

т.	, being of lawful age
I, Name of Party Making A and having full knowledge of the facts	ffidavit hereinbelow set out do state:
That I am employed by	in the
capacity of	
I personally supervised the setting of	Make and Type of Packer
Operator of Well Well No. located in the C County, Texas, at a subsurface depth	Field feet, said depth
repace between the two strings of pipe vent the commingling, in the bore of a stratum below the packer with fluid	where the packer was get so as to pre- thtswoall, of fluids produced from s produced from a stratum above the set and that it did, when set, effec-
STATE OF TEXAS COUNTY OF	
	re me on this the day
	Notary Public in and for County, Texas

RAITROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Packer Leakage Teat

Field Name:		-	····
Operator:	Lease:	We	11 No
Address:	County:		
P. O. Box No.:	District No.;	and the second second second second	
	POLICE MAJORITAN AND AND AND AND AND AND AND AND AND A		
÷	Test No. 1	والمراجد أأراء أرياه ويتحضر	garage consistence
Date Shut-in: DATA ON PRODUCING COMPLET	Length of time shut-in prior to te	st	hours
	Reservoir	Choke Size	Inches '
Twenty-four hour shut-in	pressure prior to test:	p.5.1.	
Stabilized flowing pressu	re during test:	p.s.i.	en en j
Shut-in pressure at the e	ized flowing pressure	hours. p.s.i.	
	ng this shut-in pressure		• •
	New York of the state of the said		
Completion shut-in	Reservoir Control of the Section 1981		ધર્કરી કર
Twenty-four hour shut-in	pressure prior to test	p.s.i.	
Minimum shut-in pressure	during test:p.s.i. Maxim	um	p.s.i.
Shut-in pressure at the e		مرم المحاد المناسبين والمالي الأولاد الأولاد الأولاد المالية المالية المالية المالية المالية المالية المالية ا	hours.
Maximum pressure change of	or pressure at the end of the test:	n.s.1	. (increase
42 1 24 14 26 1 2 2 14 26			(decrease
	De la Maria de la Companya de la Com	and a second of the second	•
	Test No. 2		
Allert seen appearance of the control	A CONTRACTOR OF THE PROPERTY O	e de la composition della comp	
Seme-weil bore as in Test	No. 1, but with	2	mpletion
producing and Date Shut-in:	completion shut- Length)of time shut-in prior to	n test:	hours.
DATA ON PRODUCING COMPLET	TON:		
Completion producing	Reservoir Che	oke Size	inches.
Twenty-four hour shut-in	pressure prior to test:	p.s.1.	****
Stabilized flowing pressu	re during test;	p.s.i.	
	ized flowing pressure:	hours.	
Shut-in pressure at the entered the control of the	nd of the test: ng this shut-in pressure	hours.	erre en
DATA ON SHUT IN COMPLETION	N:	1100101	
Completion Shut-in	Pacamini'n		
Twenty-four hour shut-in	pressure prior to test: during test nd of the test: p.s.1.	p.s.i.	
Minimum shut-in pressure	during test p.s.i.	; Maximum	
Shut-in pressure at the en	nd of the test: 1/2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /	್ಷಾಕ್ಟರ್ ಡೌ. ಅಂಡ ಕೆಕ್ಟರ್ -	house
Maximum pressure change of	or pressure at the end of the test:	" # 8 4	hours.
			decrease
Classification of complet:	ion testing whether oil well or gas we	ell: Tubing	-, -
Casing	그 그는 그는 그는 것이 되었다. 그 사람들은 사람들은 그들이 되었다.		
REMARKS:		IDBN 1 L se	
REMARKS:			
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	1、1、10000000 10000000000000000000000000		1 44 14 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		न प्रमुक्त स्थाप विकास	
		ang Over See e.	
	esal inganifer	n de la companya de l	3
1. "我们的是我们的一个事情,我们就是一个人。"		ng kanalaga	

ومدم مصبوعا المسو

INSTRUCTIONS

1. All wells shall be shut-in conducting of the packer	n a minimum of 24 hours for stabilization	on prior to the
	ll be allowed for stabilization of the	flowing pressures
	for stabilized pressures at the end of	the first flowing
4. All pressures shall be made	de preferably with a dead weight test go	auge
the shut in completion the	ase or decrease in the pressures shown a	as being taken on
Test No. 1. Test No. 2 s	he Test No. 2 should then be made in the hall be made with the completion production. Likewise, the completion that was pro-	ing that was
shut-in during Test No. 1	. Likewise, the completion that was pro	oducing during.
shut-in during Test No. 1 EAVER Test No. 1 shall be shut- 6. All tests shall be witness	sed by at least two offset operators.	In the cases
where offset operators do	not exist, any two operators in the fie	eld_in_question
Railroad Commission's Dis	hen: there are no other operators in the trict Office must be notified of said co	ondition? In
such cases, permission mus	stabe granted or the testing must be wi	rnessed (by a Fep-
resentative of the Railro	ad dommission pistriet Office.	re recording
gauges shall be used duri	ng the stabilization period, both flowing	ng and shut-in
mitted along with this for	ts for the duration of the testing perio	od shall be sub-
NEW OR PROPERTY CONFERENCES	managed are as from superstance and page to the same as a fine of	
which of time in observing the	can const	7
EACH, WITNESS MUST SIGN IN HIS	OWN HANDWRITING:	
ance with the Railroad Commiss	nessed this packer leakage test as being	run in accord-
Lapletar Liodacing	Rinervolr "Moke his	in the factor
THE AM YOURSOTHE COUNTRICE!	kingstest)of the apac-ya bajot to react	1970 F. S.
Producting and	compression caucate,	
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(Representative of Offset Open cax proper incendes opened of spin Representative of the Railroad	ton completion during test (Offset Obe (Offset)	hours. poors. f.6.1. (increase
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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.
- 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.

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

	e de la companya de	RESERVOIRS
STRICT	FIELD	Luling; Massive (Wilcox)
	San Caja	
1	· · · · · · · · · · · · · · · · · · ·	Vicksburg; Sinton
2	Blanconia	thing; Slick
(5)	Caesar, South Cosden, West	Slick; Mackhank
* ',	Gottschalt	Luling; Mackhank 2200'; 2300'; 5100'; 5150' (all gas
(7)	Kay Creek	sands) 6300; 5900; 5800; 5600; 5300; 6300; 5900; 5800; (both gas sands)
		6300; 5900; 5800; 5600; 3000; 3000; 5600)
, e.e., gindrodekili e.e. 	La Rosa	6300'; 5900'; 5000' (both gas sands) 2900' "B"; Upper 3000' (both gas sands)
ng (BC) of Property (CC) in Constant of the Property (CC)	McFaddin	2900' "B"; Upper 3500') Marg. (5100'); Marg. (5200') 6000'; 6300'; 6800'
ယုံးကြားများသည်။ ရောက်လောက်ကျောင်း သုံးသော သို့ ကျော်သော	Maubro Placedo, East	Slick; Massive
	Poehler	Mackhank: LULLING
•	Rudman	5700'; Marginulina
A4	West Ranch	The Wilcox No. 3
pp. They all it	CARLOS MAIS BARROS	Upper Wilcox No. 2; Upper Wilcox No. 3 Upper Wilcox No. 2; Upper Wilcox No. 3 2900'; 4500'; 4600'; Discorbis "B" (5400'); Marg. (5800') (5400'); Marg. (5800') Negterson: Masterson "A"; Stevens
_run	Altair Beaumont, West	2900'; 4700'; 75800')
The state of the s	Reaningtro, 10-72	(5400'); Marg. (700'); Stevens. Masterson; Masterson "A"; Stevens.
்றுள்ளுள்ள	Blue Lake	mas celpo
TREATED AT	Collins Lake	Nicketti, 777, 9260; 9645 7300; 7650; 9260; 9645 7300; 7650; 9260; 9645
The section of the se	STIY TO	7300; 7650; 9260; 964; Frio 4; Frio 5; Frio (1-2); Frio 2-A; Frio 12-A;
and the same of	Daboval.	- 20 - 12 - 12 - 12 - 12 - 12 - 12 - 12
- Torres	rich Gruppisch in 1992 i Sier Angeleichen	- " - ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
THE WAY	Delhi, North	7050; 7250 Middle Yegua; Basal Yegua; Sarratt;
•	Esperson Dome	vicksburg on on Allie de la
gyewn of the	A section of the sect	South Lower Crockett; Yegue EY-2; EY-3;
engeneri Filiff	Esperson Dome	CW-T; CM-S; CM-Signation (CM-T)
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००। व रहे गह	Lick Branch	
Pactions,	McCoy The Action	Schweke; Schiller; Bletzinger
i Parki	New Ulm	Marginulina; Frio 1/2 yeaccaria
	North Big Hill	Marginulina; Frio #1 Hackberry; Discorbis; Upper Nodosaria Hackberry; Discorbis; Upper Nodosaria #1, Upper Nodosaria #2. 8300; 8950 Block 3: CM-1 CM-2; CM-3; CM-4; EY-1; EY-3; EY-3a;
i i nestra litti ji ili. Lin alia i tolah masili	North Winnie	the state of the s
Angre 1914	Pomsey . To State	Block 3: CM-1; CM-4; EY-1; EY-3; EY-3a; Block 4: CM-2; CM-3; CM-4; EY-1; EY-3a; EY-4; EY-4a Plock 5: CM-2; EY-2; EY-3; EY-3a; EY-4; EY-4a
inglish with the	South Liberty	Block 3: CM-1; EY-1; EY-3; E1-30,
		by-1: EY-4a
\$19.54 2011		EY-4; EY-4a EY-2; EY-2; EY-3; EY-3a; EY-4; EY-4a Block 5: CM-2; EY-2; EY-3; EY-3a; EY-4; EY-4a
in the second second	s rocket par in to 2000	I DECT
		Block 6: EY-Ja; EY-Ha as here Boses
	Mile Commence of the Section Section	Block 5: CM-2; EY-2; EY-3; EY-3a; E1-4; Brock 5A: EY-6; EY-7; EY-4a; EY-4a; EY-4a; EY-4a; EY-4a; EY-4a; Ey-4a; Exglin; Crawford; Intermediate; Stewart; Sullivan
MES	Stowell	
	·	Tamance: -RODY+ T
	Sugar Valley	Truitt; Granout,
	· · · · · · · · · · · · · · · · · · ·	5500' (Gas); 6000' (Gas)
	Alamo	3800; 4500; 4560; 4950
4	Alta Mesa	Pharr; Teddlie "C";
	Benavides	Frost "A"; Garcia Bozza,
	Garcia	Miller E and C-2 Sand
		A Sand, B. Sand, O. and G. San
	Jay Simmons	D. Sano, B. Bayer A. 10. 10-A: 20-B
	Kelsey Deep	620011.30001.717.7.7.
	Kelsey Son	5300; 5000; 7100r K; Parades; Coates; Taylor 6700; 7400; 7500; 7700; 7800; 8000;
	ハンナーニング	7500: 7700: 7800; 7800; 7700; 7800;
	Kennard La Blanca	6700; 7400; 7500; 7100;

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;
	in the second se	Margaret; Claude; Charles; Richard;
		Carl; 6200'; 6900'; 7900'
	White Point, East	Fickey; Cole; Brigham; Heep; 3900'
*		ready code, brigham, heep, 5707
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)
		The state of the s
8	Andector Fields	McKee; Waddell
	Bedford	Devonian & Ellenberger
	Dollarhide	Clearfork; Ellenberger
	Dollarhide, East	Clearfork; Ellenberger
	Embar Fields	Ellenberger; Permian
	Flanagan	Clearform; 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;
		Bruhlmeyer
	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

(SEAL)

ATTEST:

O. D. Hyndman, Secretary

DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION INSTALLATION

•	
	Side Door Choke set at 4645 feet
	3 set at 404) feet
•	1
	Cross-over Packer set at 4710 feet
	set at 4/10 feet
·	
Top at 4758 feet	
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
R R Name: Lower Hope Lime こ。Completion this Zone: OIL	Perforated: 4758-4764 feet This Zone produced thru tubing
<u> </u>	
Bottom at 4774 feet	
	Packer set at 4803 feet
•	
	2" tubing landed at 6125 Feet
Top at 6047 feet	
	Perforated: 6120-6128 feet
Name: Gunsite Lime Completion this Zone: OIL	This Zone produced thru casing
	1
Bottom at 615 feet	
a.e.	
	7" Casing set at 6152 feet
	Total well depth: 6155 feet
COMPANY: _	
LEASE :	WELL NO.
· ·	modifi 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 recognized by the Commission as separate ing or hearings for permission to comple	e reservoirs as	
2. The following facts are submitted:		
	Upper Zone	Lower Zone
a. Name of reservoir		e je se vraneji vanyani. Objektavana se vran
b. Top of Pay Section	• 5	
c. Bottom of Pay Section		
d. Perforations		
e. Type of Production (Oil or Gas))	
 Identify one instance (operator, leg granted dual completion involving these 		
a. Electrical log with tops and be intervals shown and marked b. Affidavit of Packer Setting c. Diagrammatic Sketch of Dual Cond. d. Packer Leakage Test	mpletion'Install	
5. List all offset operators to the les		s well is located together
	· •	
		and the second of the second o
	• *	
6. Have each of these operators listed this application? Give the following the contract of the contrac	in Item 5 above	been furnished a copy of
7. Are letters waiving notice of hearing attached?		
8. In lieu of waivers, are copies of lethese offset operators attached?		g such waiver from each of
9. Is this a regular location with resp	pect to both zon	es?
O. If the answer to Item 9 is "No," has fected by such rule?	s Rule 37 hearin Rule 37 case nu	g been held on zones af- mber

Application for Dual Completion	Page 2	
REMARKS: Walter to the state of		
	raine. Leadh a' an Cheannaigh aigean a scomh-baideach.	
. The response water restricted to the first to		
and the second of the second	ေ ((၁၈၄))(၁၈) ဗာဗိုန္မာနည္နန္တိုင္း (၂၁၈နက္ ၅) လမ္မာရီမွာေရး လွမ္မေနြာ စကုိ	
	Operator	-
	Ву	
THE STATE OF TEXAS	Į.	-
COUNTY OF		
oath states that he is duly authorized knowledge of the facts stated therein a	known to me to be the person instrument, who being by me duly sworn on to make the above report and that he has and that said report is true and correct.	
to Attaching to terbounds and	and the second of the second o	
tel prote an we and gettied		
SUBSCRIBED AND SWORN To before me,	this the day of	
6. Adentity one distance (operator, temporation, temporation dust completion involving these operation).	se, wall tostory) there is the commission	
e. Type of Conformation (Old or Ges)	Notary Public in and for County, Texas	
%. Perforations		
". Bottum of Pay Feation		1
the god of ball backwar	FRUCTIONS	•
Item 1. The recognized reservoirs are \$20218,604; dated June 27, 1950	listed in Table I, Commission Order No.	to
specific fields.	BASA TATA	
tit ger katter öutlined einkab övb erörden au		
Item 7. Request for waiver must contai	be secured at nearest commission District ommission's Austin Office.	;
	number involved.	
b. Copy of application for du		
	mailed to the Commission's Austin Office.	
Department of the Commission's ten (10) days from date of rec	not accompany application, the Engineering shall hold such application for a period ceipt in the Austin Office. If, after satt or request for hearing is received in atton will then be processed.)f

PACKER SETTING AFFIDAVIT

Name of Party Making Af and having full knowledge of the facts	Tidavit
That I am amilant	in the
I personally supervised the setting of in	Dato Dato
in	Make and Type of Packer
Well No. Operator of Well located in the	Lease Namo
County, Texas, at a subsurface depth of	feet, said depth
measurement having been furnished me by that the purpose of setting this packer space between the two strings of pipe where the commingling, in the bore of this a stratum below the packer with fluids a packer; that this packer was properly setively and absolutely seal off the annul pipe where it was set in such manner as fluids across the packer. STATE OF TEXAS COUNTY OF Before me, the undersigned authorized that the packer is the packer.	was to effect a seal in the annular here the packer was get so as to preserved, of fluids produced from produced from a stratum above the et and that it did, when set, effect ar space between the two strings of that it prevented any movement of
name is subscribed to this instrument, we cath, states that he has knowledge of all same is a true and correct statement of	, known to me to be the person whose ho after being by me duly sworn on I the facts stated shove and that the
Subscribed and sworn to before me	o on this the day
	Notary Public in and for
• •	County, Texas

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Packer Leakage Teat

Field Name:		
Operator:	Lease:	Well No
Address:	County:	
P. O. Box No.:	District No.:	
Ter	st No. 1	Company of the property of the second of the
Date Shut-in: Length of DATA ON PRODUCING COMPLETION:	time shut-in prior to te	est hours
Completion producing	Reservoir	Choke Size inches
Twenty-four hour shut-in pressure prior	to test:	p.5.1.
Stabilized flowing pressure during test	b:	p.s.i.
Length of time for stabilized flowing	pressure	hours.
bhut-in pressure at the end of the test	<u> </u>	n.s.i.
Length of time in obtaining this shut-	in pressure	hours.
DATA ON SHUT IN COMPLETION:	grand transfer to the second of the	
Completion shut-in	Reservoir	ហុខ កក្ខុនកលាខណៈខេត្តបើកគឺ
Twenty-four hour shut-in pressure prior	to test	p.s.i.
Minimum shut-in pressure during test: Shut-in pressure at the end of the test	p.s.i. Maxim	um p.s.i.
Shut-in pressure at the end of the test	p.s.1	The same of the sa
length of time required for pressure at	t the end of the test:	hours.
Maximum pressure change of shut-in comp	oletion during test	p.s.i. (increase
Andrew Services and the Control of the Control		(decrease
The state of the s		
Tes	st No. 2	
Lines a register of the Control of t	And the second s	
Same-well bore as in Test No. 1, but wi producing and	tn 🤼	completion
producing and Date Shut-in: Length	completion shut-	in.
DATA ON PRODUCTION COMPLETION:	of time shut-in prior to	o test: hours.
DATA ON PRODUCING COMPLETION: Completion producing Res	servoir Ch	oke 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 p	ressure:	hours.
Shut-in pressure at the end of the test		p.s.i.
Length of time in obtaining this shut-i	n pressure	hours.
DATA ON SHUT IN COMPLETION:		
Completion Shut-in warm properties. R		
Twenty-four hour shut-in pressure prior	to test:	p.s.1.
Minimum shut-in pressure during test	p.s.i.	; Maximum p.s.i
Shut-in pressure at the end of the test	: p.s.1.	
Length of time required for pressure at		hours.
Maximum pressure change of shut-in comp	letion during test	p.s.i. (increase
i o gui la govera e jata tra Carlo di la		(decrease
Classification of completion testing, w	hether oil well or gas we	ell: Tubing
Casing		
The state of the s	in the second state of the second	
REMARKS:	KIND HOW BY	
The second of th		
The state of the s		
		व कुछ । अर्थ । वर्ष ।

INSTRUCTIONS

All wells shall be shut-in a minimum of 24 hours for stabilization prior to the conducting of the packer leakage test.
 The minimum time that shall be allowed for stabilization of the flowing pressures

will be 24 hours.

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 completions.

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.

resentative of the Bailroad 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 sub-

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

This is an application by Cities Service Oil Case No. 261: 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 7454-75301 •

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.)

 \cdot 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 ommission.

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 $5\frac{1}{2}$ 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 $5\frac{1}{2}$ 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 intercommunication 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 a ble to have material avaialable 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 dilling 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 twin wells.

We are also cognizant of the four point program of Mr. Chapman and have similar clippins 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 cammingling 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. 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?

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

MR. DEWEY: Would you like to comment/on the Shafter Lake pool 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.

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

Yes, sir, I was here. MR. A DAMS:

I made the statement that three out of seven of all 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.

I believe it is. MR. ADAMS:

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 I would like to request dual completion.

That is all. 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.) Mr. Morrell? CHAIRMAN SHEPARD: Anyone else?

MR. MORRELL: No. MR. LAVERING: How much experience have you had in these two reservoirs, Hare and Brunson? How many wells do you have

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

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 you 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 Commissioner 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)

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

G. G. Juleson
E. EGREESON

My Commission expires August 4, 1952.

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

March 22, 1951

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Cities Service Oil Company Bartlesville, Oklahoma

Gentlemen:

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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,

Y

bpw

Secretary and Director

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 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.

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.

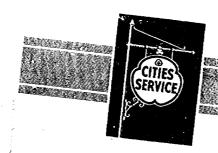
DONE at Santa Fe, New Mexico, on this 21 day of March 1951.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Eden Spacker

GUY SHED ARD, Member

R. R. SPURRIER, Secretary



PRODUCERS REFINERS MARKETERS OF PETROLEUM PRODUCTS

BARTLESVILLE OKLAHOMA

February 13, 1951

Mar 20 leaning Oil Conservation Commission State of New Mexico P.O. Box 871 Santa Fe, New Mexico

Mac 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

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

Yours very truly,

CITIES SERVICE OIL COMPANY

REA:mb

R. E. Adams Proration Engineer 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

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 AND PRODUCE 1TS STATE "S" NO. 3 AND NO. 4

WELLS LOCATED IN THE S/2 NN/4 SECTION 15, T-21-S, R-37-E, RRUNSON-HARE FIELDS, LEA COUNTY, NEW MEXICO, IN THE MCKEE SAND AND COMMON COMPOSED OF CHEDRY ELLENBERGER LIME COMMON SOURCES OF SUPPLY OR TO AUTHORIZE THE TRANSFER OF ALLOWABLES DE CHEDRY SAID WELLS IN SAID COMMON SOURCES

respectfully shows to the Commission as follows:

Comes now the Cities Service Oil Company, a Corporation, and Mexico.

the S/2 NW/4 Section 15, T-21-S, R-37-E, Brunson-Hare Fields, Lea County, New 1. That applicant is the owner of an oil and gas lease described as R-37-E. Brunson-Hare Fields. Lea County. New 75 feet East of the center of the SE/4 NW/4 of Section 21 has been drilled to a section was encountered 75 feet East of the Center of the SE/4 NW/4 of Section 21 has been drilled to a at 7725 feet and now is being completed in that reservoir through perforations total depth of 8034 feet in the Ellenberger Lime, top of which was encountered from 7860_7900 feet and 7960_8000 feet. That in initial testing this well has from 7860-7900 feet and now is being completed in that reservoir through perforations produced through a 32/64 choke at the rate of 331 barrels of oil per day with from 7860-7900 feet and 7960-8000 feet. That in initial testing this well has a gas-oil ratio of 1135 cu. ft. per barrel. That in the drilling of said well produced through a 32/64n choke at the rate of 331 barrels of oil per day with the McKee Sand of the Simpson zone was found from 7467-7575 feet. That on a found the McKee Sand the well flowed at the the McKee Sand of the Simpson zone was found from 7467-7575 feet. That on a rate of 99 barrels of oil per hour with a gas-oil ratio of 968 cu. ft. per bar rate of 99 barrels of oil per hour with a gas-oil ratio of 968 cu. ft. per barrel.

That the McKee Sand the well flowed at the separate common sources of supply That the McKee Sand and Ellenberger Lime are separate common sources of supply and lime in excess of 150 feet in thickness. That the McKee Sand and Ellenberger Lime are separate common sources of supermeable shale and lime in excess of 150 feet in thickness.

Center of the SW/4 nw/4 of Section 21 is in the process of drilling with the Ellenberger Lime common sources of 3. That applicant's State "S" Well No.4 located 100 feet East of the SW/4 NW/4 of Section 21 is in the process of drilling with the Center of the SW/4 NW/4 of Section 21 is in the process of drilling with the supply as its objectives. That current information indicates that these McKee Sand of the Simpson zone and the Ellenberger Line common sources of reservoirs will be commercially productive in said well. reservoirs will be commercially productive in said well.

mechanical 4. That applicant proposes to install a packer, of approved of the Ellenberger Lime, in the interval between the base of the McKee Sand and the top wells Nos 3 and 4, so as to of the Ellenberger Lime, in the interval between the base of the McKee Sand and the treservoir through the annulus between the tubing and the McKee Sand two produce the Ellenberger Lime reservoir through the tubing and the McKee Sand common sources of supply can be separately produced through the same well bo reservoir through the annulus between the tubing and casing. That said two simultaneously or intermittently, by the use of such approved mechanical devices simultaneously or intermittently, by the use of such approved mechanical devices of fluids therefrom or migration thereof which will prevent any commingling of fluids therefrom or migration thereof between the reservoirs.

this manner will tend to production of these two reservoirs by this means and ir respective reservoirs; protect correlative rights; prevent the drilling of That the production of these two reservoirs by this means and in recovery of the this manner will tend to prevent waste; increase the ultimate recovery of tunnecessary wells, and utilize to the fullest extent materials made critical respective reservoirs; protect correlative rights; prevent the drilling of the demand of additional wells for the fullest extent materials made critical by effort, and other war production the demand of additional wells for the fullest extent materials made critical by producers, and other war production of your applicant, other producers, royalty owners the demand of additional wells for the defense effort, and other war production and the State of New Mexico. Your applicant, other producers, royalty owners and the State of New Mexico.

completion of applicant's State "S" this Commission finds that the dual respectfully requested that transfer of infeasible as herein proposed, it is respectfully requested that transfer of well may produce from the McKee Sand with infeasible as herein proposed, it is respectfully requested that transfer of an allowable commensurate to that one well may produce from the McKee Sand with the other well an allowables be authorized so that one well may produce from the McKee Sand with produce from the Ellenberger with an allowable also commensurate to that of two produce from the Ellenberger with an allowable also commensurate to that of two 40 acre units and that the other well transfer be authorized the productive produce from the Ellenberger with an allowable also commensurate to that of two ability of each of said reservoirs in each of said wells be tested to the 40 acre units. That before such allowable transfer be authorized the process at is faction 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, preserably one quar completion of wells in one monce and Estenberger reserve or in the alternative the transfer of allowables between said wells in said reservoirs would not result in reservoir waste or impair correlative rights reservoirs would not result in reservoir waste or impair correlative rights but would establish additional immediately producible reserves of oil with a nut would establish and thomas immediately productore reserves of old with a minimum expenditure of critical material, and is in the best interests of the
- 8. That a plat is attached hereto marked as Exhibit "A" showing the nation's preparedness program. location of all wells on applicant's lease, and all offset wells on offset

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 nearing, 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 near No. 2 and No. 4 would be such as the second s leases. mearing on order be promurgated authorizing one dual completion of the new 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 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 attracted on 20 cans units with allowables commenced to the units of the commenced of situated on 80 acre units with allowables commensurate to the unit size.

Dated: February 13, 1951

CITIES SERVICE OIL COMPANY

R. E. ADAMS

PROPATION ENGINEER

