

**OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO**

**CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL**

Company or Operator Cities Service Oil Company Lease Bartlesville, Oklahoma  
 Address Hobbs, New Mexico (Local or Field Office) Midland, Texas (Principal Place of Business)  
 Unit F Wells No. 3 Sec. 15 T 21S R 37E Field Brunson County Lea  
 Kind of Lease State Location of Tanks On lease  
 Transporter Texas-New Mexico Address of Transporter Houston, Texas (Local or Field Office)  
 Percent of oil to be transported 100. Other transporters authorized to transport oil from this unit are \_\_\_\_\_ %  
 REMARKS:

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentages of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 15 th day of February, 1951

Cities Service Oil Company

(Company or Operator)

By H. E. Massey

Title District Engineer

State of New Mexico

County of Lea

ss.

Before me, the undersigned authority, on this day personally appeared H. E. Massey 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 authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 15 th day of February, 1951

Fred Larson

Notary Public in and for Lea County, New Mexico

Approved: 2-15- 1951

OIL CONSERVATION COMMISSION

By W. G. Harkness

Oil & Gas Inspector

(See Instructions on Reverse Side)

## INSTRUCTIONS

This form shall be executed and filed in quadruplicate with the Oil Conservation Commission at Santa Fe, New Mexico, covering each unit from which oil is produced. A separate certificate shall be filed for each transporter authorized to transport oil from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one month the operator shall in lieu of filing a new certificate, notify the Oil Conservation Commission at Santa Fe, New Mexico, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil to be moved by the transporter temporarily moving oil from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
- (b) The transporter is changed or
- (c) The permit is cancelled by the Commission.

If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE.

AREA 640 ACRES  
LOCATE WELL CORRECTLY

Cities Service Oil Company

Empire-Masonic Bldg., Bartlesville, Oklahoma

State "S" Well No. 3 in SE NW of Sec. 15, T. 21S

R. 37E, N. M. P. M., Brunson Field, Lea County.

Well is 3375 feet north of the North line and 3225 feet west of the East line of Sec. 15-21S-37E

If State land the oil and gas lease is No. B-1481 Assignment No.

If patented land the owner is Address

If Government land the permittee is Address

The Lessee is Cities Service Oil Company Address Bartlesville, Oklahoma

Drilling commenced December 16 19 50. Drilling was completed February 11 19 51

Name of drilling contractor Two States Drilling Company Address Dallas, Texas

Elevation above sea level at top of casing 3447 DF feet.

The information given is to be kept confidential until 19

## OIL SANDS OR ZONES

No. 1, from 7860 to 8000 No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet.

No. 2, from to feet.

No. 3, from to feet.

No. 4, from to feet.

## CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM TO	PURPOSE
13-3/8"	36#48#	8R	S&H-40	313.05				
8-5/8"	24#	8R	J-55	2787.7'	Baker			
5 1/2"	17#15.5#	8R	J-55	8018.7'	Barkin			

## MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17 1/4"	13-3/8"	330.34'	350	Plug		
11 1/4"	8-5/8"	2802.7'	500	Plug		
7-7/8"	5 1/2"	8032.41'	350	Plug		

## PLUGS AND ADAPTERS

Heaving plug—Material Length Depth Set

Adapters—Material Size

## RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		Mud acid	1000	2-10-51		
		Reg. acid	3000	2-11-51		
		Mud acid	1000	2-13-51		

Results of shooting or chemical treatment Flowed 5 hrs and produced 321.75 bbls clean oil, choke 38/64", FTP 430#, FGP 45#, gravity 42.2, GOR 915. Rated 24 hr. potential 1540 bbls of oil.

## RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

## TOOLS USED

Rotary tools were used from 0' feet to 8034' feet, and from feet to feet.

Cable tools were used from feet to feet, and from feet to feet.

## PRODUCTION

Put to producing February 11 19 51

The production of the first 24 hours was 1540 barrels of fluid of which % was oil; % emulsion; % water; and % sediment. Gravity, Be 42.2

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

## EMPLOYEES

Driller Driller

Driller Driller

## FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 15 th

Hobbs, New Mexico 2-15-51

day of February 19 51

Name H. C. Massey

Position District Engineer

Representing Cities Service Oil Company

Company or Operator.

My Commission expires February 8, 1954

Address Drawer G., Hobbs, New Mexico

Notary Public

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0'	55'	55'	Caliche
55'	75'	20'	Caliche and sand
75'	893'	818'	Red bed
893'	1220'	327'	Shells
1220'	1345'	125'	Anhydrite
1345'	1757'	412'	Anhy and salt
1757'	2440'	683'	Salt and shells
2440'	2865'	425'	Anhydrite
2865'	4500'	1635'	Lime
4500'	4570'	70'	Lime and sand
4570'	7283'	2713'	Lime
7283'	7501'	218'	Lime and shale
7501'	7555'	54'	Sand
7555'	7572'	17'	Shale
7572'	7581'	9'	Sand and shale
7581'	7593'	12'	Lime and shale
7593'	7600'	7'	Lime
7600'	7623'	23'	Lime and shale
7623'	7646'	23'	Lime
7646'	7698'	52'	Lime and shale
7698'	7741'	43'	Sand and shale
7741'	7748'	7'	Lime
7748'	7749'	1'	Chert
7749'	7757'	8'	Lime and shale
7757'	7763'	6'	Lime and chert
7763'	7793'	30'	Lime, shale and chert
7793'	7852'	59'	Lime and shale
7852'	7892'	40'	Lime
7892'	7925'	33'	Lime and shale
7925'	7964'	39'	Lime
7964'	7992'	28'	Lime and shale
7992'	8005'	13'	Lime
8005'	8034'	29'	Granite wash. (Total Depth
			Formation Tops
			Anhydrite 1270'
			Yates 2660'
			San Andres 3951'
			Glorietta 5120'
			Clearfork 5609'
			Tubbs 6161'
			Simpson 7438'
			McKee 7461'
			Ellenburger 7725'
			Granite wash 7997'
			DST#1: Tested McKee sand(7454-7528') 74'
			<del>Test open 2 hr. 20 min. and closed 15 mins. B.U.</del>
			1" TC, 1/2" BC, gas to surface in 2 mins., mud in 6
			mins., oil in 10 mins. Flowed 179 bbls. clean
			oil 2 hrs., 1st. hr. 80 bbls., 2nd hr. 99 bbls.
			GOR 968, gravity 43.4. IFP 2500#, FFP 2550#,
			SIP2825#, MCP 3425#.

CONSERVATION COMMISSION  
Santa Fe, New Mexico

RECEIVED

FEB 19 1951

REQUEST FOR (OIL)-(GAS) ALLOWABLE

It is necessary that this form be submitted by the operator before any well will be assigned to any completed oil or gas well. Form C-110 (Certificate of Compliance and Authorization to Transport Oil) will not be approved until Form C-104 is filed with the Commission. Form C-104 is to be submitted in triplicate to the office to which Form C-101 was sent. Two copies will be retained there and the other submitted to the Proration Office, Hobbs, New Mexico. The allowable will be assigned effective 7:00 a.m. on date of completion, provided completion report is filed during month of completion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 P.B. at 60° Fahrenheit.

Hobbs, New Mexico

February 15, 1951

Place

Date

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Cities Service Oil Company

Well No. 3 in SE 1/4 NW 1/4

Company or Operator

Lease

section 15, T. 21S, R. 37E, N.M.P.M. Brunson Pool Lea County

Please indicate location: Elevation 3447 DF Spudded 12-16-50 Completed 2-11-51


Total Depth 8034' P.B. -

Top Oil/Gas Pay 7860 Top Water Pay -  
Initial Production Test: Pump - Flow 321.75 (BOPD OR CU. FT. GAS PER DAY)

Based on 321.75 Bbls. Oil in 5 Hrs. - Mins.

Method of Test (Pitot, gauge, prover, meter run): Gauge

Size of choke in inches 38/64"

Tubing (Size) 2" @ 8027 Feet

Pressures: Tubing FTP 430# Casing FCP 45#

Gas/Oil Ratio 915 Gravity 42.2

Casing Perforations:  
7975-7990' (60shots), 7960-7975' (60shots), 7975-7990' (15shots), 7990-8000' (40shots), 7860-7960' (160 shots)

Unit letter: \_\_\_\_\_

Casing & Cementing Record

Size	Feet	Sax
13-3/8"	313.05	350
8-5/8"	2787.7	500
5 1/2	8018.7	350

Acid Record: Show of Oil, Gas and water

1000 Gals	7960	to	8000	S/	7454 - 7328'
3000 Gals	7960	to	8000	S/	
1000 Gals	7860	to	7900	S/	

Shooting Record.

_____ Qts	to	_____	S/	_____
_____ Qts	to	_____	S/	_____
_____ Qts	to	_____	S/	_____

Natural Production Test: - Pumping - Flowing

Test after acid or shot: - Pumping 321.75 Flowing

Please indicate below Formation Tops (in conformance with geographical section of state):

Southeastern New Mexico

T. Anhy 1270  
T. Salt  
B. Salt  
T. Yates 2660  
T. 7 Rivers  
T. Queen  
T. Grayburg  
T. San Andres 2951  
T. Glorieta 5120  
T. Drinkard  
T. Tubbs 6161  
T. Abo  
T. Penn  
T. Miss

Northwestern New Mexico

T. Ojo Alamo  
T. Kirtland-Fruitland  
T. Farmington  
T. Pictured Cliffs  
T. Cliff House  
T. Menefee  
T. Point Lookout  
T. Mancos  
T. Dakota  
T. Morrison  
T. Penn  
T.  
T.  
T.

Date first oil run to tanks or gas to pipe line: February 11, 1951

Pipe line taking oil or gas: Texas-New Mexico Pipeline Company

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Cities Service Oil Company  
Company or Operator

By: H. E. Massey  
Signature

Position: District Engineer

Send communications regarding well to:

Name: R. W. Ely

Address: District Superintendent  
Drawer G., Hobbs, New Mexico

APPROVED 2 - 19 - 1951

OIL CONSERVATION COMMISSION

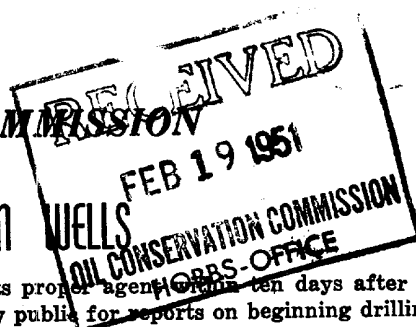
By: Ray Yankroff

Title: Oil & Gas Inspector

## OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## MISCELLANEOUS REPORTS ON WELLS



Submit this report in triplicate to the Oil Conservation Commission or its proper agent ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	X	REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

February 15, 1951

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,  
SANTA FE, NEW MEXICO  
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the \_\_\_\_\_  
Cities Service Oil Company State "S" Well No. 3 in the \_\_\_\_\_

SE NW Company or Operator 15 Lease 21S, R. 37E, N. M. P. M.,  
Brunson of Sec. T. Lea County.  
Field,

The dates of this work were as follows: February 10, 11 & 13, 1951

Notice of intention to do the work was ~~(was not)~~ submitted on Form C-102 on February 9 19 51  
and approval of the proposed plan was ~~(was not)~~ obtained. (Cross out incorrect words.)

## DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

This well was drilled to a total depth of 8034' in lime. Formation between 7960-8000' was acidized with 1000 gallons of mud acid. The well took the acid at 3200' and acidized between .2 & .75 bbl. per. men. Swabbed well 5½ hrs. and well started flowing. Flowed well 4 hrs. and produced 41 bbls. of oil cut average of 8/10%, flowing on 32/64" choke and tubing pressure varying between 60# and 105#. Well was then reacidized with 3000 gal. reg. 15% acid, swabbed in and flowed at a rate of 13.8 B/O/hr. w/GOR of 1135. This well was killed, perforated from 7860-7900' and acidized with 100 gal. of mud acid. Swabbed well in in 3½ hrs. Recovery was 484 bbls. of fluid for a net recovery above acid and oil load of 303 bbls.

Witnessed by H. E. Massey Cities Service Oil Company District Engineer  
Name Company Title

Subscribed and sworn before me this  
15 th day of February 19 51  
Fred Larson  
Notary Public

I hereby swear or affirm that the information given above is true and correct.

Name H. E. Massey  
Position District Engineer  
Representing Cities Service Oil Company  
Company or Operator

My commission expires February 8, 1954

Address Drawer G., Hobbs, New Mexico

Remarks:

APPROVED

FEB 19 1951

Date

Noel Yarbrough  
Name  
Title

1000

1000

1000

1000



## NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

## MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications suggested, advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved shall be followed, and work should not begin until approval is obtained. See additional instructions, rules and regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	X
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Hobbs, New Mexico

February 9, 1951

Place

Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the \_\_\_\_\_

Cities Service Oil Company State "S" Well No. 3 in SE NW  
Company or Operator Lease

of Sec. 15, T. 21S, R. 37E, N. M. P. M., Brunson Field.  
Lea County.

## FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

This well was drilled to a total depth of 8034' lime. It is proposed to acidize with 1000 gallon of mud acid to be followed by 3000 gallon of 15% regular acid. Additional acid to be used if conditions warrant.

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

OIL CONSERVATION COMMISSION,

By W. J. Yarbrough  
Title Asst. Insp.

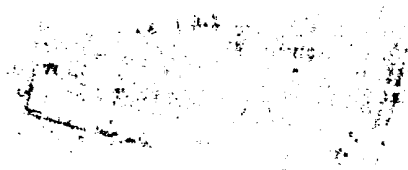
Cities Service Oil Company  
Company or Operator

By H. E. Massey

Position District Engineer  
Send communications regarding well to

Name H. E. Massey

Address Drawer G., Hobbs, New Mexico



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