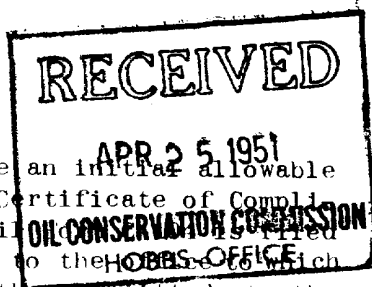


DUPLICATE

CONSERVATION COMMISSION
Santa Fe, New Mexico

Form C-104

REQUEST FOR (OIL)-(GAS) ALLOWABLE



It is necessary that this form be submitted by the operator before an initial allowable 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 filed with the Commission. Form C-104 is to be submitted in triplicate to the Hobbs Office. 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

April 23, 1951

Place

Date

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

Cities Service Oil Company

Hardin

Well No. 2 in SE 1/4 NW 1/4

Company or Operator

Lease

section 19, T. 13, R. 38, N.M.P.M. Hobbs Pool Lea County
Workover 4-14-51 4-22-51

Please indicate location:

Elevation 3666' Spudded 8-8-30 Completed 9-22-30
TD (New) 4250'
Total Depth (Old) 4210' P.B. -

Top Oil/Gas Pay 4230' Top water Pay
Initial Production Test: Pump Flow X (BOPD OR CU. FT. GAS PER DAY)
Based on 187.5 Bbls. Oil in 24 Hrs. - Mins.
Method of Test (Pitot, gauge, prover, meter run): 2" Orifice
Size of choke in inches 18/64"
Tubing (Size) 2" J5 4246' feet
Pressures: Tubing 50# Casing Packer
Gas/Oil Ratio 1220 Gravity 3.8

Casing Perforations:

68 jet shots from 4230' to 4248'

Unit letter: E

Casing & Cementing Record

| Size | Feet | Sax |
|--------------|-------|-----|
| 12 1/2" | 245' | 200 |
| 9" | 2752' | 500 |
| 7" | 4020' | 200 |
| Liner 4 1/2" | 366' | 45 |

Acid Record: Show of Oil, Gas and water
250 Gals 4230' to 4248' S/
Gals to S/
Gals to S/

Shooting Record.
- Qts - to S/
- Qts - to S/
- Qts - to S/

Natural Production Test: Pumping Flowing
Test after acid or shot: Pumping 187.5 Flowing

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

Southeastern New Mexico

Northwestern New Mexico

| | | |
|---------------------|----------------|-----------------------|
| T. Anhy 1490' | T. Devonian | T. Ojo Alamo |
| T. Salt 1630' | T. Silurian | T. Kirtland-Fruitland |
| B. Salt 2558' | T. Montoya | T. Farmington |
| T. Yates 2900' | T. Simpson | T. Pictured Cliffs |
| T. 7 Rivers | T. McKee | T. Cliff House |
| T. Queen | T. Ellenburger | T. Menefee |
| T. Grayburg | T. Gr. Wash | T. Point Lookout |
| T. San Andres 4066' | T. Granite | T. Mancos |
| T. Glorieta | T. | T. Dakota |
| T. Drinkard | T. | T. Morrison |
| T. Tubbs | T. | T. Penn |
| T. Abo | T. | T. |
| T. Penn | T. | T. |
| T. Miss | T. | T. |

(Please supply required information on reverse side of form)

Date first oil run to tanks or gas to pipe line: April 20, 1951

Pipe line taking oil or gas: Shell Pipeline Company

Remarks: This well has been deepened and recompleted as a flowing well.

It is producing through perforations from 4230' to 4248'.

Cities Service Oil Company
Company or Operator

By: 

Signature

Position: District Superintendent

Send communications regarding well to:

Name: R. W. Ely

Address: Drawer G., Hobbs, New Mexico

APPROVED 4 - 25, 1951

OIL CONSERVATION COMMISSION

By: 

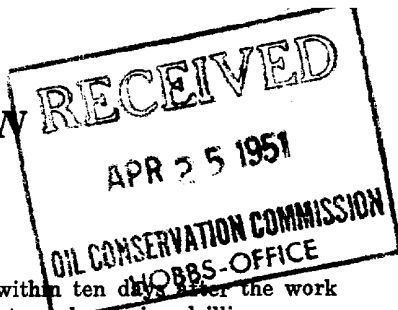
Title: Oil & Gas Inspector

DUPLICATE

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 within 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 | | REPORT ON PULLING OR OTHERWISE ALTERING CASING | |
| REPORT ON RESULT OF TEST OF CASING SHUT-OFF | | REPORT ON DEEPENING WELL | X |
| REPORT ON RESULT OF PLUGGING OF WELL | | | |

April 23, 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 Hardin Well No. 2 in the

Company or Operator Lease
SW NW of Sec. 19, T. 1, R. 38, N. M. P. M.,
Hobbs Field, Lea County.

The dates of this work were as follows: April 14 to April 22, 1951 (Inclusive)

Notice of intention to do the work was (was/not) submitted on Form C-102 on April 12, 1951
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 worked over as follows: Tubing and rods were pulled. The 7" casing was tested for 1½ hours and could not find any leaks at 800#. The well was deepened from 4210' to 4250'; logged with Lane-Wells Gamma Ray and Neutron Log; ran 12 joints or 365.63' of 4½" OD casing and hung with Baker duplex hanger and shoe and cemented same. The top of liner is at 3884.37'. Cement was allowed to set 48 hours; drilled cement and plugs and tested casing and liner. The results of test of casing and liner were satisfactory. The liner was perforated with 68 ~~ja~~ shots from 4230' to 4248'. The well could not be swabbed in natural and was washed with 250 gallons of acid. The well was then swabbed in in 1½ hours and flowed 187.5 bbls of oil and 41.5 bbls of gas in 24 hours.

Witnessed by R. W. Lly Cities Service Oil Company Dist. Supt.
Name Company Title

Subscribed and sworn before me this
23 rd day of April 19 51

Fred Lawson
Notary Public

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

Name

Position District Superintendent

Representing Cities Service Oil Company
Company or Operator

My commission expires Feb. 8, 1954

Address Drawer G., Hobbs, New Mexico

Remarks:

APPROVED
APR 25 1951
Date

Ray Yankrough
Oil & Gas Inspector
Name
Title

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