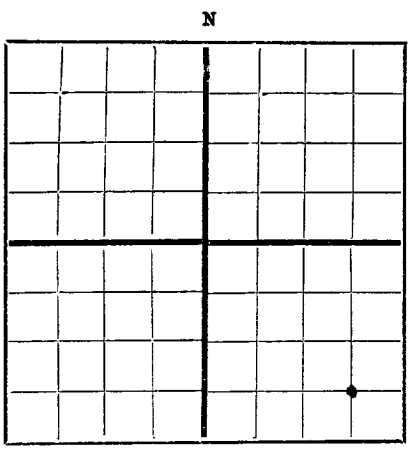
FORM C-105




AREA 640 ACRES
LOCATE WELL CORRECTLY

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. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Cities Service Oil Company (Company or Operator) Drawer "G", Hobbs, New Mexico (Address)

State "W" (Lease) Well No. 1 in C SE SE of Sec. 36, T. 24-S

R. 36-E, N. M. P. M., Cooper-Jal Field, Lea County.

Well is 4620 feet south of the North line and 660 feet west of the East line of Sec. 36-24S-36E

If State land the oil and gas lease is No. Not available Assignment No. Not available

If patented land the owner is —, Address —

If Government land the permittee is —, Address —

The Lessee is Cities Service Oil Company, Address Empire-Masonic Bldg. Bartlesville, Oklahoma

Drilling commenced February 2 19 49 Drilling was completed February 26 19 49

Name of drilling contractor Two-States Drilling Company, Address Dallas 1, Texas

Elevation above sea level at top of casing 3257 feet.

The information given is to be kept confidential until — 19

## OIL SANDS OR ZONES

No. 1, from 3370 to 3405 No. 4, from — to —

No. 2, from 3435 to 3490 No. 5, from — to —

No. 3, from 3499 to 3524 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 | PERFORATED TO | PURPOSE |
|---|---|---|---|---|---|---|---|---|---|
| 8-5/8" | 24# | 8 R | J-55 SS | 1098.74 | | | | | |
| 5-1/2" | 14# | 8 R | S S | 3516' | Float collar, guide shoe and 14 centralizers | | | | |
| | 17# | 10V | E W | | | | | | |
| 2" EUE | 4.7# | 8 R | J-55 SS | 3520 | | | | | |
| | | | | | | | | | |

## MUDDING AND CEMENTING RECORD

| SIZE OF HOLE | SIZE OF CASING | WHERE SET | NO. SACKS OF CEMENT | METHODS USED | MUD GRAVITY | AMOUNT OF MUD USED |
|---|---|---|---|---|---|---|
| 11 | 8-5/8" | 1112.74 | 500 | Plug | | |
| 7-3/4 | 5-1/2" | 3524 | 250 | 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 | 500 | 3-2-49 | 3499-3524 | Through Perforations |
| | | Mud Acid | 1000 | 3-7-49 | (3435-3490 | (Through Perforations |
| | | | | | (3370-3405 | (Through Perforations |

Results of shooting or chemical treatment Well swabbed down after treating lower zone with 500 gallon of mud acid. Well flowed, after being swabbed in, following treatment with 1000 gallon of mud acid.

## 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.

See back of sheet for D.S.T.'s Nos. 1 and 2

TOOLS USED

Rotary tools were used from 0 feet to 3525 feet, and from — feet to — feet

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

## PRODUCTION

Put to producing March 1, 19 49

The production of the first 24 hours was 128 barrels of fluid of which 53.1 % was oil; 0 % emulsion; 46.9 % water; and 0 % sediment. Gravity, Be. 31.5

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

Rock pressure, lbs. per sq. in. — GOR 6,830

## 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 9th day of March, 19 49

Hobbs, New Mexico (Place) 3/9/49 (Date)

Name [signature]

Position —

## FORMATION RECORD

| FROM | TO | THICKNESS IN FEET | FORMATION |
|---|---|---|---|
| 0 | 190' | 190' | Surface soil, caliche and redbed |
| 190' | 365' | 175' | Red bed |
| 365' | 1087' | 722' | Red rock and some shells |
| 1087' | 1097' | 10' | Broken Anhydrite |
| 1097' | 1112' | 15' | Anhydrite |
| 1112' | 1180' | 68' | Red bed and anhydrite |
| 1180' | 1227' | 47' | Anhydrite and salt |
| 1227' | 1237' | 10' | Salt |
| 1237' | 2377' | 1140' | Anhydrite and salt |
| 2377' | 2426' | 49' | Anhydrite |
| 2426' | 2461' | 35' | Lime |
| 2461' | 2511' | 50' | Anhydrite |
| 2511' | 2591' | 80' | Anhydrite and salt |
| 2591' | 2635' | 44' | Anhydrite |
| 2635' | 3439' | 804' | Lime |
| 3439' | 3475' | 36' | Lime and sand |
| 3475' | 3525' | 50' | Lime (Total Depth) |

**Formation Tops**

| | |
|---|---|
| Anhydrite | 1090' |
| Yates | 2780' |
| Top of Pay | 3500' |

D S T NO. 1

Tested 2672' to 2811' (139') 5/8" B.C. 1" T.C. Gas to surface in 2 minutes, had steady flow for 30 minutes with no variations, volume 389 MCF per day. Took 20 minute B.U. and pulled tool. Recovered 390' of gas cut sulphur water. I.F.P. 180#, F.F.P. 165#, BUP. 1310, M.C.P. 1525#.

D S T NO. 2

Set packer at 3350'. Opened tool at 6:12 AM, gas to surface 3 minutes, mud in 6 minutes, mud turned to water and water to BS. Still flowing in pit. Tested 3350' to 3525' (175'). Flowed in pit for two hours then flowed in tank for 30 minutes, made 12½ bbls. fluid, approximately 1½ bbls. oil, 4 bbls. BS and 7 bbls. sulphur water. Took 20 minute B.U. I.F.P. 520#, F.F.P. 560#, B.U.P. 1175#, M.C.P. 1900#. Recovered 270' oil and 330' of water above tool.

This well was acidized with 500 gallon of mud acid through perforations from 3499'-3524'. The casing had been perforated with 100 - ½" holes. Well failed to flow either before or after acidizing.

Casing was perforated from 3435' to 3490' with 220 - ½" holes. Later perforated from 3370' to 3405' with 140 - ½" holes.
Well was re-acidized, and swabbed into production.