

WELL PLUGGING RECORD

OR

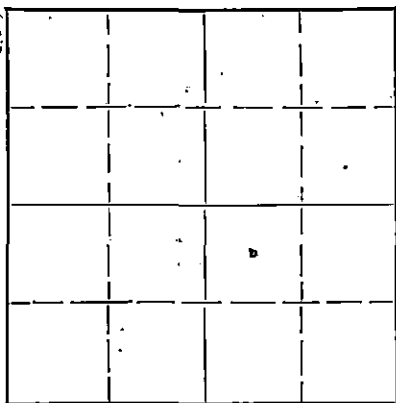
FORMATION PLUGGING RECORD

Strike out upper line when reporting plugging of formations.

STATE OF KANSAS
STATE CORPORATION COMMISSION

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
800 Bitting Building
Wichita, Kansas

NORTH



Locate well correctly on above Section Flat

Barton County. Sec. 22 Twp. 20 Rge. (E) 15 (W)
Location as "NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ " or footage from lines. 660' S. & 660' E. of Center
Lease, Owner. Cities Service Oil Company
Lease Name. Bowman Well No. 1
Office Address. Bartlesville, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole). Gas
Date well completed. February 25, 19. 48
Application for plugging filed. May 15, 19. 50
Application for plugging approved. May 17, 19. 50
Plugging commenced. May 31, 19. 50
Plugging completed. June 6, 19. 50
Reason for abandonment of well or producing formation. Depleted production.

If a producing well is abandoned, date of last production. February, 19. 49
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well. C. D. Stough
Producing formation. Arbuckle Depth to top. 3651 Bottom. 3750 Total Depth of Well. 3750 Feet
Show depth and thickness of all water, oil and gas formations. P.B. T.D. 3695'

OIL, GAS OR WATER RECORDS

CASING RECORD

| Formation | Content | From | To | Size | Put In | Pulled Out |
|-----------|---------|------|----|--------|--------|------------|
| | | | | 8-5/8" | 940' | None |
| | | | | 5-1/2" | 3750' | 2028' |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed; from _____ feet to _____ feet for each plug set.

3695' to 3645' sand
3645' to 260' 5 sacks cement and mud
260' to 250' bridge and rock
250' to 30' 15 sacks cement and mud
30' to base of cellar, 10 sacks of cement

6-15-1950
RECEIVED
Conservation Div.
JUN 15 1950
STATE CORPORATION
COMMISSION
KANSAS

(If additional description is necessary, use BACK of this sheet)

Correspondence regarding this well should be addressed to. R. C. Cooper
Address. Box 751
Great Bend, Kansas

STATE OF Kansas, COUNTY OF Barton, ss.

V. M. Conover (employee of owner) ~~conservation agent~~ of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) V. M. Conover
Box 751, Great Bend, Kansas
(Address)

SUBSCRIBED AND SWORN to before me this 13th day of June 1950

My commission expires March 12, 1951.

W. D. Smith
Notary Public.

PLUGGING
FILE SEC 22 T 20 R 15W
BOOK PAGE 6 LINE 2

WELL RECORD

Company: Cities Service Oil Co. Well No. 1 Farm: Howard
 Location: 650' S and 650' E of Center Sec. 23 T. 20 R. 15
 Elevation: 1978 (1975 Cr.) County: Barton State: Texas
 Drlg. Comm. 11-19-37 Contractor: Corbett and Harbour Drilling Co.
 Drlg. Comp. 12-3-47 Acid: 5500 gallons, see below.
 T.D. 3750' P.D. 3695' Initial Prod. Back pressure test Ind. Cap. 2,375 M.C.F. gas (2-25-48).
S.L.P. 9567

CASING RECORD:

8-5/8" @ 940' with 500 sacks cement,
 500# C. C. and 250#
 fucells.
 5-1/2" @ 3750' with 200 sacks cement.

FORMATION RECORD:

| | |
|---------------------------|------|
| surface clay and sand | 0-30 |
| shale and shells | 150 |
| sand and shale | 230 |
| shale and shells | 345 |
| sand | 455 |
| shale, shells and red bed | 545 |
| red bed and shale | 590 |
| red bed and shells | 720 |
| shale, shells and red bed | 845 |
| shells and red bed | 910 |
| red bed | 935 |
| anhydrite | 965 |
| red bed, shale and shells | 1040 |
| shale and shells | 1745 |
| lime and shale | 2040 |
| lime | 2125 |
| lime and shale | 2215 |
| lime | 2325 |
| shale and lime | 2330 |
| lime and shale | 2470 |
| shale | 2565 |
| shale and shells | 2655 |
| lime and shale | 2740 |
| lime | 2820 |
| lime and shale | 2975 |
| lime | 3330 |
| shale and lime | 3651 |
| lime | 3750 |

3750 Rotary total depth = 3750 - 3.751.

| | |
|------------------|-------|
| Top Logging | 3355' |
| Top Conglomerate | 3523' |
| Top Slaps | 3633' |
| Top Artuckle | 3651' |
| Penetration | 99' |
| Total Depth | 3750' |

Drilled cement to 3704 S.L.M.
 Perforate 6 shots 3713-15
 400' water with good show oil in 20 minutes.
 1220' water with good show oil in 1 hour 20 min.
 2460' water in 3 hours, 10 minutes.

Set long-shells plug at 3708 and dumped 1 sack cement on plug; top of cement 3706 S.L.M.
 Perf. 5 shots 3698-3700; 930' fluid in 40 min.
 Set retainer at 3690 and squeezed with 50 sacks cement; 9 sacks through perforations at 2600'.
 Drilled cement to 3633 S.L.M.

Perforate 141 shots 3651-57
 12-24-47 acidized 1000 gallons 3651-57
 12-30-47 flowed 145 oil, 219 water, 14 hours thru 1" choke; 2,500 M.C.F. gas.
 12-31-47 flowed 9 oil, 31 water, 24 hours thru 9/32" choke.
 Set retainer at 3640 and squeezed with 50 sacks cement.

Drilled cement to 3622 S.L.M.
 Perforate 35 shots 3620-26
 1-2-48 acidized 500 gallons 3620-26
 1-12-48 flowed 7 o.l., 29 water, 24 hours, thru 1/2" choke.
 Set retainer 3624 and squeezed with 50 sacks cement, 40 sacks through perforations at 3200'.
 Drilled cement to 3695 S.L.M.
 Perforate 70 shots 3651-65
 1-20-48 acidized 1000 gallons 3651-65
 1-23-48 flowed 40 oil, 101 water, 24 hours thru 1/2" choke; 946 M.C.F. gas.
 Drilled cement and plug to 3712 S.L.M.
 Perforate 12 shots 3700-04
 Perforate 18 shots 3707-11

PLUGGING
 FILE SEC 22 T 20 R 15W
 BOOK PAGE 6 LINE 2

MAY 16 1950

WELL RECORD

Set retainer at 3545 and squeezed with 100 sacks cement; 30 sacks through perforations at 3200.

Drilled cement to 3695 S.L.L.

Perforate 35 shots 3666-77

2-4-42 acidized 500 gallons 3666-77.

Perforate 37 shots 3652-68.

2-8-43 acidized 1500 gallons 3632-77.

| | |
|-------|----|
| 3170: | |
| 1000' | OK |
| 1500' | OK |
| 2000' | OK |
| 2500' | OK |
| 3000' | OK |
| 3500' | OK |

