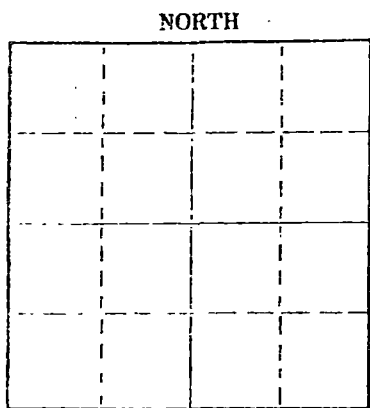


STATE OF KANSAS
STATE CORPORATION COMMISSION
CONSERVATION DIVISION
P. O. BOX 17027
WICHITA, KANSAS 67217

FORM CP-4

WELL PLUGGING RECORD



Locate well correctly on above Section Plat

Stafford County. Sec. 19 Twp. 24 Rge. 14 (E) (W)
Location as "NE/CNW/SW" or footage from lines C NE NE
Lease Owner Halliburton Oil Producing Co.
Lease Name Sewing #1 Well No.
Office Address Oklahoma City, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole)
Date well completed 19
Application for plugging filed 19
Application for plugging approved 19
Plugging commenced 11/8/74 19
Plugging completed 12/17/74 19
Reason for abandonment of well or producing formation depleted.

If a producing well is abandoned, date of last production 19
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 Biberstein
Producing formation Depth to top Bottom Total Depth of Well 4241'
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

| FORMATION | CONTENT | FROM | TO | SIZE | PUT IN | PULLED OUT |
|-----------|---------|------|----|--------|--------|------------|
| | | | | 8-5/8 | 239 | none |
| | | | | 4 1/2" | 4138' | 2095' |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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.

Pumped 25 sacks cement to 3750'. Shot pipe at 3504', 3411', spotted oil, 40 barrels, had 1100 lb. pressure. Finished at 100 lb. pressure. Pumped plug to 3350', shot pipe at 3312', 3188', 2997', 2800', 2608', 2405', 2312', 2218', 2090', pulled 66 joints. Allied pumped 2 sacks hulls, 10 sacks gel and 100 sacks cement.

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STATE CORPORATION COMMISSION

10-5-76

OCT 05 1976

PLUGGING COMPLETE.

Name of Plugging Contractor (If additional description is necessary, use BACK of this sheet) KNIGHT CASING PULLING CO., INC. CONSERVATION DIVISION
Address CHASE, KANSAS Wichita, Kansas

STATE OF KANSAS COUNTY OF RICE ss.
NOEL J. KNIGHT (employee of owner) or (owner or operator) 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) Noel Knight
CHASE, KANSAS (Address)

SUBSCRIBED AND SWORN TO before me this 31st day of December, 1974

My commission expires

MARGARET MELCHER
NOTARY PUBLIC
Rice County, Kansas
My Commission Expires
Feb. 15, 1975

Margaret Melcher
Notary Public.

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3 1975
CONSERVATION DIVISION
Wichita, Kansas

1-1-75
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JAN 01 1975

HALLIBURTON OIL PRODUCING CO.
COMP. CHECKED

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AUG 2 1974
CONSERVATION DIVISION
Wichita, Kansas

SAMPLE ANALYSIS REPORT

FOMLINSKI-KATROL, INC.

1 Siding

CORP NO. INC. 19-248-141

STAFFORD COUNTY, KANSAS

BY

RICHARD C. DAVIS

TOMLINSON & KATHOL

CONSULTING GEOLOGISTS

414 UNION CENTER

PHONE, AM 7-3062

WICHITA 2, KANSAS

June 20, 1961

Tomlinson-Kathol, Inc.
414 Union Center
Wichita, Kansas

Subject: Tomlinson-Kathol, Inc.
1 Sewing
C NE NE, Sec. 19-24S-14W
Stafford County, Kansas

Gentlemen:

The following is a sample analysis report of the above captioned test.

The well was under geological supervision from 3740 to 4241 feet, rotary total depth. Samples were examined from 3500 to 4241 feet, rotary total depth.

All tops and zones of porosity are based on kelly bushing measurements.

The following formation tops were determined from sample examination:

Elevation 1993 KB

| | | |
|--------------------------|------|-------|
| Top Heebner | 3566 | -1573 |
| Top Toronto | 3589 | -1596 |
| Top Brown Line | 3711 | -1718 |
| Top Lansing | 3729 | -1736 |
| Top Conglomerate | 4114 | -2121 |
| Top Mississippian | 4142 | -2149 |
| Top Kinderhook Shale | 4213 | -2220 |
| Top Kinderhook Sand | 4220 | -2227 |
| 4 $\frac{1}{2}$ " Casing | 4239 | -2246 |
| Rotary Total Depth | 4241 | -2248 |

Zones of porosity and staining:

Lansing-Kansas City Section:

3812 - 3821 Limestone, tan, fine crystalline, collocastic.
No odor nor stain in collocastic porosity.

- 2 - Tomlinson-Rathol, Inc. # 1 Sewing

- 3865 - 3871 Limestone, light gray, oolitic. No odor. No shows.
- 3908 - 3916 Limestone, oolitic and oolitic, scattered dead stain. No odor, no free oil.
- 3937 - 3943 Limestone, white to cream colored mottled gray. Very fossiliferous. Dark spotted stain and abundant free oil in fair to poor fossil porosity. Tested by Drill Stem Test # 1.

Drill Stem Test # 1

3923 - 3950 Tool open 1 hour, weak blow for 30 minutes. Recovered 60 feet mud. IFP 50#, FFP 50#, BFP 970#.

Conglomerate Section:

4114 - 4122 Chert, discolored, fossiliferous with scattered black gilsonite and scattered very light stain. Tested by Drill Stem Test # 3.

Drill Stem Test # 2 - Misrun.

Drill Stem Test # 3

4115 - 4141 Tool open 1 hour, gas to surface in 2 minutes, gauged 434,000 CFPD in 6 minutes, 1,900,000 CFPD in 9 minutes and remained constant throughout the remainder of test. FP 370#, BFP 1300#.

Mississippian Section:

4142 - 4174 Chert, white, with abundant well developed quartz crystals and relatively large gilsonite inclusions. Tested by Drill Stem Test # 4.

Drill Stem Test # 4

4144 - 4173 Tool open 1 hour. Strong blow throughout test. Recovered 180 feet gas cut mud. FP 80#, ISIP 640#, TSIP 470#.

- 3 - Tomlinson-Kathol, Inc. & I. Sewing

Kinderhook Section

4220 - 4227 Sand, sub-angular to subrounded. Spotted black residual stain in wet sample. No free oil. Stain appears saturated in dry sample. Judged not worth testing.

In view of the gas recovered in the Conglomerate section, it was recommended that 4½" casing be run to 4241 feet, rotary total depth, picked up two (2) feet and cemented at 4239 feet.

Respectfully submitted,

TOMLINSON & KATHOL

By:


Richard C. Davis

15-185-10473-0000

DRILLING TIME

C NE NE
Sec. 19-24S-14W

Tomlinson-Kathol, Inc.
1 Sewing

Elevation 1993 AS
Stafford County, Kansas

| DEPTH | MINUTES | REMARKS |
|-----------------------|-------------------------|-----------|
| 1' Intervals ***** | | |
| 3500 | 1-1-1-1-2/2-1-1-1-1 | 3508 Conn |
| 10 | 2-3-3-2-2/2-2-2-3-3 | |
| 20 | 3-3-2-2-2/3-3-2-3-3 | |
| 30 | 5-6-6-7-4/5-3-3-4-7 | 3540 Conn |
| 40 | 3-4-4-4-4/4-4-5-5-6 | |
| 50 | 4-4-3-4-3/3-4-5-4-4 | |
| 60 | 4-4-6-6-7/8-5-6-6-7 | |
| 70 | 7-4-5-8-8/6-5-4-3-3 | 3571 Conn |
| 80 | 3-4-4-3-4/4-3-3-7-9 | |
| 90 | 12-4-7-8-7/4-4-4-5-6 | |
| 3600 | 5-5-5-6-7/5-4-4-4-5 | 3602 Conn |
| 10 | 6-4-2-4-5/7-3-5-6-5 | |
| 20 | 5-6-7-6-5/6-6-6-5-5 | |
| 30 | 6-6-6-3-4/4-5-5-6-6 | 3634 Conn |
| 40 | 5-5-5-6-5/5-5-5-5-4 | |
| 50 | 5-5-3-5-4/4-5-4-3-4 | |
| 60 | 5-4-4-5-4/4-4-5-3-5 | 3665 Conn |
| 70 | 4-4-4-4-4/4-5-3-4-4 | |
| 80 | 4-5-4-4-3/4-3-4-3-4 | |
| 90 | 4-3-3-4-3/4-4-4-7-3 | 3696 Conn |
| 3700 | 5-4-4-4-3/3-3-4-4-3 | |
| 10 | 4-8-11-7-8/7-5-4-5-7 | |
| 20 | 8-6-7-5-7/8-5-4-4-6 | 3727 Conn |
| 30 | 9-10-7-7-10/9-10-6-9-10 | |
| 40 | 11-11-5-5-6/6-9-11-4-4 | 3748 Trip |
| 50 | 4-5-3-5-3/4-5-4-4-3 | 3758 Conn |
| 60 | 4-5-5-5-4/5-5-4-3-3 | |
| 70 | 5-4-4-4-5/6-6-4-5-5 | |
| 80 | 5-6-6-5-6/7-10-10-6-7 | |
| 90 | 8-9-6-10-5/5-4-3-4-4 | |

DRILLING TIME

C NE NE
Sec. 19-24S-14E

Tomlinson-Bathol, Inc.
91 Sewing

Elevation 1993 M
Stafford County, Kansas

| DEPTH | MINUTES | REMARKS |
|-----------------------|----------------------------------|----------------------|
| 1' Intervals ***** | | |
| 3800 | 4-4-2-3-3/4-9-9-10-8 | |
| 19 | 11-4-1/2-1/2-1/2-1/2-2 1/2-3-1/2 | |
| 20 | 2-3-8-8-9/8-7-6-5-4 | 3921 Conn |
| 30 | 5-5-5-6-6/6-5-8-6-6 | |
| 40 | 7-7-8-7-6/7-8-7-9-10 | |
| 50 | 10-13-10-12-10/13-16-10-4-5 | 3953 Conn |
| 60 | 4-3-4-7-5/1-1-4-1-1/2 | |
| 70 | 1 1/2-10-10-12-11/12-8-8-10-10 | |
| 80 | 9-9-8-8-7/5-4-8-12-8 | 3884 Conn |
| 90 | 10-13-11-8-12/12-10-4-8-8 | |
| 3900 | 10-12-10-2-5/7-10-8-4-4 | |
| 10 | 3-3-3-2-2/4-8-11-10-11 | 3915 Conn |
| 20 | 14-12-13-10-11/8-10-12-9-12 | |
| 30 | 11-13-6-5-7/7-5-4-3-6 | |
| 40 | 7-8-7-6-8/14-12-14-15-13 | 3946 Conn, 3946 Circ |
| 50 | 7-7-7-7-7/8-8-8-8-6 | |
| 60 | 10-7-11-10-9/7-9-9-9-8 | |
| 70 | 5-9-9-7-8/6-6-7-8-8 | 3977 Conn |
| 80 | 11-8-7-8-5/4-4-8-7-5 | |
| 90 | 5-5-5-7-5/5-8-7-7-7 | |
| 4000 | 6-7-6-5-4/4-4-5-5-4 | 4009 Conn |
| 10 | 5-5-4-5-4/5-6-7-7-10 | |
| 20 | 11-10-10-12-11/10-11-13-10-11 | |
| 30 | 11-11-8-9-8/8-8-5-7-4 | 4040 Conn |
| 40 | 5-9-8-9-6/6-6-6-7-8 | |
| 50 | 8-9-10-10-8/8-8-8-8-6 | |
| 60 | 7-10-8-10-11/9-12-12-12-13 | |
| 70 | 14-10-11-11-11/14-9-7-6-5 | 4071 Conn |
| 80 | 7-6-6-6-6/6-12-12-9-14 | |
| 90 | 16-13-9-7-7/8-9-11-14-15 | |

DRILLING TIME

C NE NE
Sec. 19-24S-14W

Tomlinson-Kathol, Inc.
1 Sewing

Elevation 1993 SSB
Stafford County, Kansas

| DEPTH | MINUTES | REMARKS |
|--------------|-------------------------------|-----------------------|
| 1' Intervals | | |
| ***** | | |
| 4100 | 7-8-6-7-7/6-7-8-8-8 | 4103 Conn |
| 10 | 9-10-12-11-4/2-2-5-2-2 | DST 4115-4141 |
| 20 | 1-5-10-10-10/10-8-6-7-9 | |
| 30 | 9-9-11-7-10/13-10-12-11-7 | 4134 Conn |
| 40 | 8-4-3-1-2/2-2-3-1-2 | DST 4144-73 |
| 50 | 2-2-1-2-2/2-1-3-1-1 | |
| 60 | 2-2-1-2-2/2-2-3-2-2 | 4166 Conn |
| 70 | 2-3-3-2-3/2-3-3-2-3 | 4173 Circ for Samples |
| 80 | 5-4-8-7-5/4-8-10-5-5 | |
| 90 | 3-3-3-4-4/8-9-19-25-28 | 4196 Conn |
| 4200 | 19-21-15-19-18/17-16-19-13-15 | |
| 10 | 13-17-19-9-9/9-10-9-10-8 | |
| 20 | 6-3-3-3-2/4-5-6-5-6 | 4228 Conn |
| 30 | 7-5-4-3-4/4-4-6-5-9 | |
| 40 | 13- | 4241 Circ |

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