

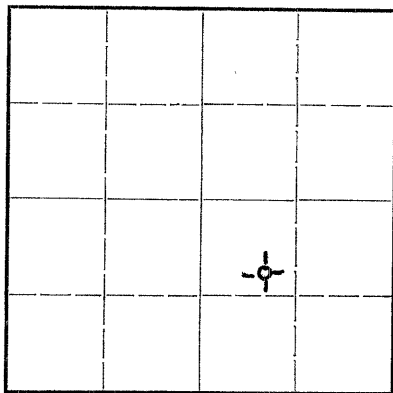
WELL PLUGGING RECORD

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

OR  
FORMATION PLUGGING RECORD

Strike out upper line  
when reporting plug-  
ging of formations.

NORTH



Locate well correctly on above  
Section Flat

Graham County. Sec. 20 Twp. 9 S. Rge. 22 (E) W. (W)  
Location as "NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ " or footage from lines. SE $\frac{1}{4}$  NW $\frac{1}{4}$  SE $\frac{1}{4}$   
Lease Owner. J. F. Darby Oil Company  
Lease Name. Mary Farrell Well No. 2  
Office Address. PHILTOWER BLDG., TULSA 3, OKLAHOMA  
Character of Well (completed as Oil, Gas or Dry Hole). Dry hole  
Date well completed. July 22, 1956  
Application for plugging filed. July 22, 1956 19  
Application for plugging approved. July 22, 1956 19  
Plugging commenced. July 22, 1956 19  
Plugging completed. July 22, 1956 19  
Reason for abandonment of well or producing formation.  
Dry hole  
If a producing well is abandoned, date of last production. 19  
Was permission obtained from the Conservation Division or its agents before plugging was com-  
menced? Yes

Name of Conservation Agent who supervised plugging of this well. Mr. Eldon Petty, HAYS, KANSAS  
Producing formation. Depth to top. Bottom. Total Depth of Well. 4067 Feet

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	210	NONE

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 hold. If cement or other plugs were used, state the character of same and depth placed, from feet to feet for each plug set.

HOLE FILLED TO 200 feet with heavy rotary mud. Set Halliburton plug at 200 feet.  
put  $\frac{1}{2}$  sack cottonseed hulls and 15 sacks cement on top of plug. Filled with  
heavy mud to 40 feet. Set halliburton plug at 40 feet. Put  $\frac{1}{2}$  sack cottonseed  
hulls on top of plug and filled to the top of the hole with 10 sacks cement.

RECEIVED  
STATE CORPORATION COMMISSION  
8/31/56  
AUG 31 1956  
CONSERVATION DIVISION

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

Correspondence regarding this well should be addressed to. J. F. DARBY OIL COMPANY  
Address. PHILTOWER BLDG., TULSA 3, OKLAHOMA

STATE OF OKLAHOMA, COUNTY OF TULSA, ss.  
Merritt H. Brown (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) Merritt H. Brown

Philtower Bldg., Tulsa 3, Oklahoma  
(Address)

SUBSCRIBED AND SWORN to before me this 2 day of August, 1956

Eva Rita Hopkins  
Notary Public.

My commission expires 3-1-58

PLUGGING  
FILE SEC 20 T 9 R 22W  
BOOK PAGE 85 LINE 34

## DON D. STRONG .... PETROLEUM GEOLOGIST

4618 E. KELLOGG

WICHITA 18, KANSAS

PHONE MU 5-7255

April 8, 1964

GEOLOGICAL REPORT

CHIEF DRILLING CO., INC.  
 FARRELL NO. 2  
 NW SW SEC. 20-9S-22W  
 GRAHAM COUNTY, KANSAS

CONTRACTOR: CHIEF DRILLING CO., INC.  
 POOL: RED LINE NORTH  
 ELEVATION: 2428' R.B.  
 ROTARY COMPLETED: April 4, 1964  
 PRODUCTION CASING: 5 1/2" Casing Set at 4115'  
 ELECTRIC LOG: Welex Radiation - Guard Log Survey

Samples were examined from 3300' to  
 R.T.D. of 4200'.

FORMATION TOPS

(Log measurements and drilling time measurements show a clear difference of 4 feet. The Welex log shows all tops, porous zones and so forth down the hole four feet). Drill stem data, tops and so forth on this report are corrected to the Welex log.

Welex Log

Topeka	3426	(- 998)
Heebner	3646	(-1268)
Toronto	3677	(-1249)
Lansing	3681	(-1253)
Base Kansas City	3904	(-1476)
Marmaton	3979	(-1551)
Sand Zone	4062	(-1634)
Cherty conglomerate	4068	(-1640)
Arbuckle	4096	(-1668)
R.T.D.	4200	

Chief Drilling Co., Inc.  
 Farrell No. 2  
 NW SW Sec. 20-9S-22W  
 Graham County, Kansas  
Geological Report

Page 2

POROUS ZONES, OIL SHOWS AND TESTING DATA

All shut in pressures for 20 minutes

All zones and testing data corrected to  
 Welex log (down hole 4')

Topeka 3426 (-998)

3608 - 3620

White chalky limestone. Trace of poor brown stain. Poor visible porosity. Judged no value.

Toronto 3677 (-1249)

White dense cherty limestone. No oil show. Poor porosity.

Lansing 3681 (-1253)

3682 - 3686

(Top Zone) Cream finely crystalline fossiliferous limestone. Fair scattered oil stain. Fair show free oil. Scattered vuggy porosity. Zone judged to be water bearing.

3715 - 3720

(35' Zone) Tan finely crystalline slightly fossiliferous cherty limestone. Scattered oil stain. Fair show free oil. Fair vuggy type porosity.

Drill Stem Test #1

3708 - 3722

Open 2 hours. Recovered 820' muddy water with slight show oil.  
 ISIP 975#  
 FSIP 940#  
 IFP 60#  
 FFP 460#

3730 - 3734

(50' Zone) White medium crystalline cherty dolomite. Fair oil saturation. Fair to good show free oil. Fair inter-crystalline type porosity.

Drill Stem Test #2

3725 - 3739

Open 1 hour and 20 minutes. Recovered 30' slightly oil cut muddy water, 570' water.  
 ISIP 940#  
 FSIP 850#  
 IFP 80#  
 FFP 295#

Chief Drilling Co., Inc.  
 Farrell No. 2  
 NW SW Sec. 20-9S-22W  
 Graham County, Kansas  
Geological Report

Page 3

- 3753 - 3758 (70' Zone) Gray to greenish dense limestone. Trace of oil stain. Poor porosity.
- 3764 - 3765 (90' Zone) White finely crystalline limestone. Very slightly oocastic. Trace of oil stain. Poor porosity.

## Drill Stem Test #3

3757 - 3773 Open 1/2 hour. Recovered 15' mud.  
 ISIP 700#  
 FSIP 560#  
 IFP 40#  
 FFP 40#

- 3773 - 3777 (100' Zone) White dense fossiliferous nodular limestone. Good show free oil. Good inter-fossiliferous and vuggy porosity.
- 3778 - 3781 (100' Zone) White sub chalky soft rotten limestone. Trace of oil stain. Poor visible porosity.

## Drill Stem Test #4

3773 - 3781 Open 2 hours. Gas to surface, 2 hours 25 minutes. Recovered 1725' oil.  
 ISIP 1215#  
 FSIP 1020#  
 IFP 180#  
 FFP 650#

- 3813 - 3818 (140' Zone) Light gray finely crystalline limestone. Slightly cherty. Very spotty show free oil. Poor visible porosity.
- 3834 - 3842 (160' Zone) Tan dense lithographic limestone. Trace of oil stain. Very poor porosity.
- 3846 - 3852 (180' Zone) Off white dense sub fossiliferous limestone. Very scattered stain. Trace of free oil. Poor porosity.

## Drill Stem Test #5

3800 - 3863 Open 25 minutes. Recovered 40' mud with few specks of oil.  
 ISIP 1030#  
 FSIP 955#  
 IFP 85#  
 FFP 85#

Chief Drilling Co., Inc.  
 Farrell No. 2  
 NW SW Sec. 20-9S-22W  
 Graham County, Kansas  
Geological Report

Page 4

3866 - 3872 (200' Zone) White finely crystalline slightly fossiliferous limestone. Fine sucrose pin hole type porosity. Fair scattered oil saturation. Good show dark heavy oil. Fair visible fine pin hole and inter-crystalline porosity.

## Drill Stem Test #6

3864 - 3881 Open 40 minutes. Recovered 70' thin drilling mud.  
 ISIP 1285#  
 FSIP 1160#  
 IFP 55#  
 FFP 60#

Base Kansas City 3904 (-1476)

## Marmaton 3979 (-1551)

3979 - 4008 Grainy calcareous discolored shaly chert. No oil show.

Marmaton or  
 Conglomerate Sand

4062 - 4065 Medium grained sand. Black solid oil residue. Fair porosity. Judged no value.

## Cherty conglomerate 4068 (-1640)

Varicolored shale and weathered chert. No oil shows.

## Arbuckle 4096 (-1668)

4096- 4200 No oil show. Medium to coarse crystalline dolomite. Generally more porous with depth. Some very good vuggy and inter-crystalline porosity.

R.T.D. 4200'

Ran 5 1/2 inch casing on April 4, 1964.

Centralizers at 4105, 3896, 3820 and 3735.

REMARKS

The 100' Zone at 3778 - 3781 is recommended for perforations and treatment. In addition, the 200' zone at 3866 - 3872 should be further tested before the No. 2 Farrell is abandoned. Although the drill stem test covering the 200' zone held out negative results, the oil show in the samples was good and the Welex log indicates porosity.

DON D. STRONG  
 Petroleum Geologist

DDS:fd

# IRON DRILLING COMPANY

1206 PHILTOWER BUILDING

TULSA 3, OKLAHOMA

J. F. DARBY OIL COMPANY  
1807 Philtower Bldg.  
TULSA 3, OKLAHOMA

DRILLING RECORD

Well: Mary Farrell No. 2  
SE NW SE Sec. 20-9S-22W  
Graham County, Kansas

210' 8-5/8" Surface Casing  
cemented w/150 sacks.

Elev. 2397

Work commenced: 7- 9-56  
Drilling commenced: 7- 9-56  
Drilling completed: 7-22-56  
Work completed: 7-23-56

FORMATION TOPS:

Anhydrite 1920  
Topeka 3388  
Heebner 3608  
Toronto 3630  
LANSING-KC 3643  
BASE KC 3868  
Des MOINES 3890  
Marmaton Cht 3939  
Cong 3968  
Arbuckle 4064

WELL LOG

Surface soil	0	to	40
Rock	40	to	50
Shale	50	to	100
Sand & shale	100	to	218
Shale	218	to	750
Shale & shells	750	to	1020
Shale	1020	to	1290
Sand & shale	1290	to	1325
Shale & shells	1325	to	2448
Shale & lime	2448	to	3235
Shale	3235	to	3275
Lime	3275	to	3320
Lime & shale	3320	to	3634
Lime	3634	to	3868
Lime & shale	3868	to	3960
Lime	3960	to	3990
Conglomerate	3990	to	4067 T.D.

Top Arbuckle 4064

D & A TO 4067

**PLUGGING**  
FILE SEC. 20 T. 9 R. 22W  
BOOK PAGE 85 LINE 34

AUG 3 1956  
CONSERVATION DIVISION  
Washita, Kansas