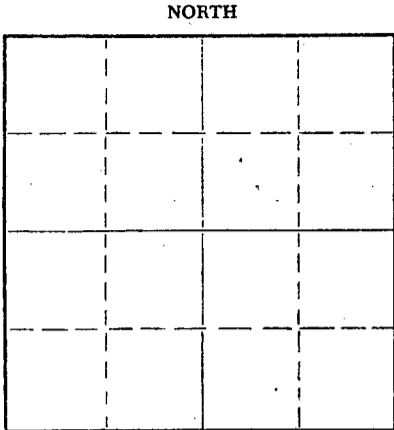


WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 North Market, Insurance Bldg.
Wichita, Kansas

Graham County. Sec. 21 Twp. 10S Rge. (X) 25(W)

Location as "NE/CNW&SW&" or footage from lines C NE SE
Lease Owner Imperial Oil Company
Lease Name Bollig Well No. 1
Office Address 780 Fourth National Bldg., Wichita, Kansas
Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole
Date well completed 10-13-61 19
Application for plugging filed 10-13-61 19
Application for plugging approved 10-13-61 19
Plugging commenced 10-13-61 19
Plugging completed 10-13-61 19



Locate well correctly on above Section Plat

Reason for abandonment of well or producing formation
No commercial quantities of oil found

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 Mr. Eldon Petty

Producing formation -- Depth to top -- Bottom -- Total Depth of Well 4082 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
	Surface Pipe	---	---	8-5/8"	193'	Not pulled

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.

Set first plug at 550' with 20 sacks;
set second plug at 185' with 15 sacks;
set top plug at 40' with 10 sacks cement.

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OCT 24 1961

CONSERVATION DIVISION
Wichita, Kansas

10-24-1961

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

Name of Plugging Contractor Imperial Oil of Kansas, Inc.
Address 780 Fourth National Building, Wichita, Kansas

STATE OF KANSAS, COUNTY OF SEDGWICK, ss.

W. A. Sladek (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.

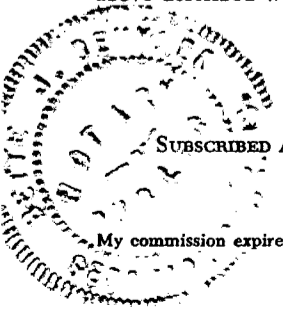
(Signature) W. A. Sladek

780 Fourth National Building, Wichita, Kansas
(Address)

SUBSCRIBED AND SWORN TO before me this 24th day of October, 19 61

Bette J. Behymer
Bette J. Behymer Notary Public.

My commission expires July 27, 1964



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STATE CORPORATION COMMISSION

OCT 24 1961

CONSERVATION DIVISION
Wichita, Kansas

10-24-1961

DRILLER'S LOG

15-065-00655-00-00

Imperial Oil Company
780 Fourth National Building
Wichita, Kansas

Bollig No. 1
C NE SE Sec. 21-10S-25W
Graham County, Kansas

Total Depth: 4082'

Elevation: 2543 KB
Production: Dry

Commenced: 10-2-61 Completed: 10-13-61

Contractor: Imperial Oil of Kansas, Inc.
Wichita 2, Kansas

Casing Record: Set 8-5/8" surface pipe at 191 feet with 150 sacks cement.

Figures indicate bottom of formations:

TOPS

Sand & Shale	1800'	Heebner	3803 (-1260)
Shale & Red Bed	2191'	Toronto	3825 (-1282)
Anhydrite	2226'	Lansing	3839 (-1296)
Shale & Shells	2485'	Base Kansas City	4070 (-1527)
Shale & Lime	2855'	Rotary Total Depth	4082 (-1539)
Lime	3255'		
Lime & Shale	3710'		
Lime	4082'		
Rotary Total Depth	4082'		

We hereby certify this to be a correct and accurate log of the above described well, as shown on the daily drilling reports.

IMPERIAL OIL COMPANY

By Raymond L. Bacon
Raymond L. Bacon

Subscribed and sworn to before me this 23rd day of October, 1961.

My Commission Expires:
July 7, 1964

Bette J. Behymer
Bette J. Behymer, Notary Public

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STATE CORPORATION COMMISSION

OCT 24 1961

CONSERVATION DIVISION
Wichita, Kansas

GEOLOGICAL REPORT

BOLLIG NO. 1

C NE SE Sec. 21-10S-25W
Graham County, Kansas

15-065-00655-00-00

GEOLOGICAL REPORT

Company: Imperial Oil Company
Farm: Bollig No. 1
Contractor: Imperial Oil of Kansas, Inc., Rig #1
Pool: Semi-Wildcat

Graham County, Kansas
C NE SE Sec. 21-10S-25W
Elevation: 2543 KB
Rotary Total Depth: 4082'

Rotary Completed: 10-13-61

Geological Data:

Samples were examined from 3500' to Rotary Total Depth. One foot drilling time was kept from 3400' to Rotary Total Depth. A Welex Gamma Ray - Neutron - Guard Log was run.

Formation Tops

	<u>Sample</u>	<u>Electric Log</u>
Heebner	3803 (-1260)	3803 (-1260)
Toronto	3825 (-1282)	3825 (-1282)
Lansing	3839 (-1296)	3839 (-1296)
Base Kansas City	4070 (-1527)	4070 (-1527)
Rotary Total Depth	4082 (-1539)	

Porosity and Shown of Oil

Toronto 3825 (-1282)

3825-32 Cream to tan finely crystalline coarse fossiliferous limestone. Very good fossiliferous porosity. Good saturation watery free oil stain. Judged no value. This zone was drill stem tested and recovered water on the Alva Oil Corporation No. 1 Bollig one location north. Structurally this well is 4' lower than Alva's well.

Lansing 3839 (-1296)

3839-50 White finely crystalline oolitic limestone. Good oolitic porosity. Spotty show free oil.

D.S.T. #1 3834-65 Open one hour. Recovered 2800' salt water. IBHP 1330#, IFP 760#, FFP 1350#, FBHP 1350#, 20 minutes.

3875-78 (35' zone) Cream to tan finely crystalline coarse fossiliferous slightly cherty limestone. Fair to good fossiliferous porosity. Poor show free oil. Fair saturation. Judged no value.

- 3882-86 (50' zone) Cream to tan finely crystalline very fossiliferous slightly cherty limestone. Fair to good fossiliferous porosity. Good saturation light watery stain. Fair show free oil.
- D.S.T. #2 3877-86 Open one hour. Recovered 2550' salt water. ICIP 128 1350#, IFP 350#, FFP 1150#, FBHP 1300#, 20 minutes.
- 3919-26 (90' zone) White to cream finely crystalline slightly fossiliferous oolitic limestone. Fair fossiliferous and vugular porosity. Very scattered light watery stain. Very spotty free oil. Judged no value.
- 3931-34 (100' zone) White finely crystalline oolitic limestone. Fair to poor oolitic and vugular porosity. Very spotty stain. Judged no value.
- 3975-80 (140' zone) White, gray and tan finely crystalline dense fossiliferous limestone. Fair fossiliferous porosity. Very spotty free oil. Good saturation watery stain. Judged no value.
- 3996-4002 (160' zone) Cream to tan finely crystalline dense fossiliferous limestone. Fair vugular porosity. Spotty free oil. Fair to good saturation dark stain.
- D.S.T. #3 3986-4004 Open one-half hour. Recovered ten feet mud. ICIP 0#, IFP 0#, FFP 0#, FBHP 0#, 20 minutes.
- 4018-21 (180' zone) Cream finely crystalline fossiliferous limestone. Fair to poor fossiliferous porosity. Very spotty free oil. Fair saturation watery stain. Judged no value.
- 4038-45 (200' zone) Gray-cream to tan finely crystalline fossiliferous or oolitic limestone. Fair vugular porosity. Spotty dark free oil. Fair saturation.
- 4060-70 (220' zone) Tan finely crystalline dense slightly shaley chalky limestone. Poor porosity. Very spotty dead oil stain.
- D.S.T. #4 4025-82 Open one-half hour. Recovered 15' of mud. ICIP 0#, IFP 0#, FFP 0#, FBHP 0#, 20 minutes.

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DRELLING TIME LOG

BOLLIG

BOLLIG NO. 1

C NE SE Sec. 21-10S-25W

Graham County, Kansas

Depth	Minutes	Remarks
3400	5-5-4-3-2/1-1-1-1-2	
10	2-2-3-2-2/2-3-5-5-5	
20	3-3-2-3-4/3-3-3-2-2	
30	4-4-3-4-5/3-3-5-7-8	
40	7-7-63-3/6-7-8-7-6	
50	5-6-5-5-4/5-5-3-3-3	Trip at 3450
60	2-3-4-2-3/3-4-5-5-3	
70	3-3-1-1-1/2-3-2-2-1	
80	2-1-2-1-1/1-1-1-3-3	
90	4-5-3-2-5/6-6-3-2-2	
3500	3-1-3-3-5/5-4-3-3-5	
10	5-5-5-3-3/5-4-3-3-5	
20	5-5-5-5-6/5-5-5-4-3	
30	4-4-4-5-4/4-4-4-4-2	
40	3-1-2-3-3/6-7-4-5-4	
50	5-4-4-3-3/5-5-5-4-4	
60	4-4-3-2-2/1-2-3-2-4	
70	2-4-2-2-3/3-5-5-4-4	
80	3-3-4-3-3/3-2-2-3-2	
90	3-3-3-3-4/3-2-4-3-3	
3600	5-5-5-5-5/3-3-2-4-4	
10	3-4-3-4-3/2-1-1-1-2	
20	1-2-1-2-2/3-2-5-3-3	
30	4-3-4-2-4/3-3-2-2-1	
40	1-2-2-2-2/3-3-3-3-2	
50	2-2-2-3-4/4-3-3-3-3	
60	2-1-1-1-2/1-1-1-1-3	
70	3-2-2-2-2/2-4-6-3-4	
80	3-3-3-2-4/5-5-5-5-4	
90	4-4-3-5-5/3-4-3-3-2	

Depth	Minutes	Remarks
3700	2-2-2-3-2/3-3-3-3-4	
10	5-4-3-4-1/1-6-3-1-2	
20	3-4-3-2-4/2-4-6-8-9	
30	6-7-8-6-5/5-4-4-6-9	
40	7-8-10-10-9/8-7-6-6-7	
50	8-6-3-2-1/1-1-1-5-5	
60	5-3-3-4-5/9-8-9-8-8	
70	8-6-4-3-3/4-6-5-5-4	
80	2-1-1- 2-3/4-6-4-2-2	
90	4-4-4-5-6/6-3-3-3-4	Trip at 3795
3800	4-4-4-3-3/4-5-4-6-4	
10	5-4-2-2-5/3-5-5-4-4	
20	5-5-4-4-4/3-3-4-4-5	
30	6-5-5-5-5/3-4-4-4-5	
40	3-3-3-3-3/3-3-3-4-6	
50	6-6-6-7-5/6-5-6-6-7	
60	5-5-4-5-4/4-6-7-6-7	
70	6-7-7- 5-6/7-10-8-6-6	
80	5-5-5-4-9/8-6-6-5-5	
90	6-6-6-9-8/8-9-8-7-10	
3900	6-7-8--7-7/5-6-4-9-8	
10	3-4-7-5-5/5-3-5-10-9	
20	5-4-4-4-4/3-5-6-6-7	
30	8-8-7-6-7/8-4-6-6-7	
40	7-9-10-7-9/10-7-6-8-7	
50	7-9-9-9-9/8-8-8-11-11	
60	13-6-4-5-11/9-9-9-3-4	
70	5-7-7-9-7/6-4-5-6-10	
80	6-7-9-9-9/10-11-9-6-10	
90	8-9-7-6-8/10-10-8-8-9	
4000	9-10-7-8-3/4-4-4-2-3	
10	3-5-4-4-4/3-4-10-7-7	
20	5-4-6-5-5/6-5-6-4-3	
30	4-3-3-3-3/5-6-6-7-7	
40	5-8-10-11-6/4-5-4-3-3	
50	4-4-4-4-8/9-4-4-4-4	
60	6-5-6-7-5/7-8-6-7-5	
70	5-5-6-5-4/3-3-5-5-6	
80	6-7	

Geological Report

-3-

Bollig No. 1

Base Kansas City 4070 (-1527)

Rotary Total Depth 4082 (-1639)

Plugged and abandoned on October 13, 1961.

IMPERIAL OIL COMPANY

Gordon W. Keen

Gordon W. Keen
Geologist on Well

15-065-00655-00-00