

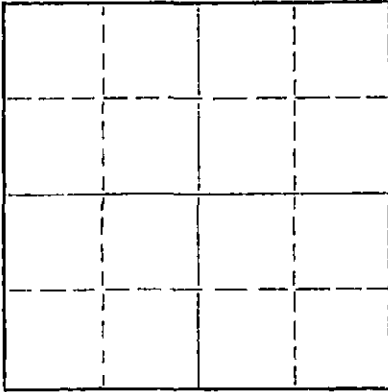
STATE OF KANSAS  
STATE CORPORATION COMMISSION

Form CP-4

Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
212 No. Market  
Wichita, Kansas

WELL PLUGGING RECORD

NORTH



Locate well correctly on above  
Section Plat

Pawnee

County. Sec. 32 Twp. 23S Rge. (E) 16 (W)

Location as "NE/CNWxSWx" or footage from lines C E 1/2 SE

Lease Owner Imperial Oil Company

Lease Name Wurm Well No. 1

Office Address 780 Fourth Nat'l. Bldg., Wichita, Kansas

Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole

Date well completed October 28 19 70

Application for plugging filed October 28 19 70

Application for plugging approved October 28 19 70

Plugging commenced October 28 19 70

Plugging completed October 28 19 70

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 Leo Massey, Box 582, Hays, Kansas

Producing formation Depth to top Bottom Total Depth of Well 4436 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 casing - 8 | 5/8" at | 317 ft. |      |        | 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 4436 feet to feet for each plug set.

Set first plug at 650 ft. with 50 sacks of cement.

Set second plug at 250 ft. with 25 sacks of cement.

Set third plug at 40 ft. with 10 sacks of cement.

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NOV 12 1970  
CONSERVATION DIVISION  
Wichita, Kansas

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

Name of Plugging Contractor Imperial Oil Company

Address 780 Fourth National Bldg., 110 No. Market, Wichita, Kansas

STATE OF KANSAS, COUNTY OF SEDGWICK, ss.

Robert L. Williams, Jr. (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) Robert L. Williams, Jr.  
780 Fourth National Bldg., Wichita, Ks.  
(Address)

SUBSCRIBED AND SWORN to before me this 28th day of October, 19 70

Mary J. Brown  
Notary Public.

My commission expires March 3, 1974

DRILLER'S LOG

15-145-20171-0000

Imperial Oil Company  
780 Fourth National Building  
Wichita, Kansas 67202

Wurm No. 1  
C E 1/2 SE Sec. 32-23S-16W  
Pawnee County, Kansas

Total Depth: 4436 Ft.

Elevation: 2077 K.B.

Commenced: 10-13-70

Completed: 10-23-70  
D & A

Contractor: Imperial Oil Co., Rig #2

Casing Record: Set 8 5/8" surface casing at 317 ft. with 275 sacks of cement.

Figures indicate bottom of formations:

317' Sand and Shale  
790' Shale and Red Bed  
1058' Shale-Sand  
1078' Anhydrite  
2012' Shale and Shells  
2950' Shale and Lime  
3793' Lime and Shale  
4160' Lime  
4193' Lime-Chert  
4260' Lime  
4410' Lime-Chert  
4436' Sand-Lime-Chert  
4436' Rotary Total Depth

Electric Log Tops:

Heebner 3618 (-1541)  
Toronto 3637 (-1560)  
Lansing 3750 (-1673)  
Ch. Shale 4158 (-2081)  
Cong. Chert 4179 (-2102)  
Viola 4258 (-2181)  
Simp. Sh. 4383 (-2306)  
Arbuckle 4424 (-2347)  
LTD 4434 (-2357)

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

*Robert L. Williams, Jr.*  
Robert L. Williams, Jr.

Subscribed and sworn to before me this 10th day of November, 1970.

*Mary J. Brown*  
Mary J. Brown, Notary Public

My Commission Expires:  
March 3, 1974

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WICHITA, KANSAS

15-145-20171-0000

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JAN 7 1971  
CONSERVATION DIVISION  
Wichita, Kansas

GEOLOGICAL REPORT

WURM #1  
C E $\frac{1}{2}$  SE $\frac{1}{4}$  Sec. 32-23S-16W  
Pawnee County, Kansas

15-145-20171-0000

GEOLOGICAL REPORT

Company: Imperial Oil Company

Pawnee County, Kansas

Farm: Wurm #1

C E½ SE½ Sec. 32-23S-16W

Contractor: Imperial Oil Company, Rig #2

Elevation: 2077 K.B.

Pool: Berscheidt

Rotary Total Depth: 4436'

Rotary Completed: 10-24-70

Geological Data:

Samples were examined from 2000 feet to Rotary Total Depth. One foot drilling time was kept from 2000 feet to Rotary Total Depth. Electra-Gamma Ray, Neutron, Accurlog, Caliper & Baroid gas detector was in use from 2000 to Rotary Total Depth.

FORMATION TOPS

|                           | <u>Sample Tops</u> | <u>Electric Log Tops</u> |
|---------------------------|--------------------|--------------------------|
| Anhydrite                 | 1058 ( /1019)      | 1052 ( /1025)            |
| Heebner                   | 3619 ( -1542)      | 3618 (-1541)             |
| Toronto                   | 3638 ( -1561)      | 3637 (-1560)             |
| Lansing                   | 3750 ( -1673)      | 3750 (-1673)             |
| Cherokee Shale            | 4158 ( -2081)      | 4158 (-2081)             |
| Conglomerate Chert        | 4178 ( -2101)      | 4179 (-2102)             |
| Viola                     | 4258 ( -2181)      | 4258 (-2181)             |
| Simpson Shale             | 4383 ( -2306)      | 4383 (-2306)             |
| Arbuckle                  | 4424 ( -2347)      | 4424 (-2347)             |
| <u>Rotary Total Depth</u> | 4436 ( -2359)      | 4434 (-2357)             |

Porosity and Shows of Oil

Lansing - K.C. 3750 (-1673)

3781-92 White to light grey, very fossiliferous finely crystalline limestone. Good visible porosity. Questionable trace of oil stain.

DST #1 3766-93 Open 90 minutes. Recovered 555 feet of salt water. ICIP 1237#/30 min., FCIP 1215#/30 min., IFP 70#, FFP 305#.

Conglomerate Chert 4179 (-2102)

4179-93 Sharp, fresh, red and white-buff chert. No visible porosity. Scattered dead oil stains.

DST #2 4152-93. Open 1 hour. Recovered 15 feet of mud. All pressures 46#.

4202-14 Decrease in chert as described above and an increase in dense grey limestone. No visible porosity. No oil shows.

DST #3 4191-4210 Packer Failure.

GEOLOGICAL REPORT: Wurm #1

15-145-20171-0000

DST #4 4152-4210 Open 1 hour. Recovered 30 feet of mud.  
ICIP 58#/30 min., ICIP 46#, IFP 46#, FFP 46#.

Viola 4258 (-2181)

4258-77 White, fresh to tripolitic, slightly limey in upper part, chert. Good visible porosity. Good stain and saturation. Good show of free oil and odor.

DST #5 4262-80. Open 90 minutes. Recovered 360 feet of gas, 3 feet of heavily oil cut mud, 60 feet of slightly oil cut mud. ICIP 504#/30 min., FCIP 387#/30 min., IFP 46#, FFP 46#.

Simpson Shale 4383 (-2306)

4388-95 Medium grained, sub rounded sandstone, with shale and chalk matrix. Very tight looking. No visible porosity. No oil shows.

4398-4404 Fine to coarse grained, poorly sorted, sub-angular sandstone with lime and shale inclusions. Poor visible porosity. No oil shows.

Arbuckle 4424 (-2347)

4424-36 Buff to lightly orange, finely crystalline dolomite. Poor visible intercrystalline porosity. No oil shows.

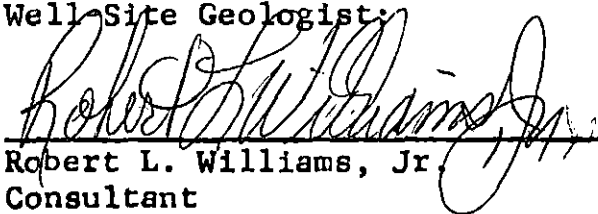
DST #6 4424-36 Open 1 hour. Recovered 1450 ft. salt water. ICIP 1375#/30 min., FCIP 1352#/30 min., IFP 58#, FFP 657#.

Rotary Total Depth 4436 (-2359)

As a result of all shows of oil or gas being found to be non-commercial, the Wurm No. 1 was plugged and abandoned on October 24, 1970.

IMPERIAL OIL COMPANY

Well Site Geologist:

  
Robert L. Williams, Jr.  
Consultant

RLW, Jr./md

DRILLING TIME LOG  
 WURM #1  
 C E½ SE½ Sec. 32-23S-16W  
 Pawnee County, Ks.

15-145-20171-0000

| Depth     | Minutes             | Remarks                     |
|-----------|---------------------|-----------------------------|
| 3500-3510 | 2-2-1-4-4/3-3-3-2-2 |                             |
| 20        | 2-1-1-2-2/1-1-2-2-2 |                             |
| 30        | 2-2-2-2-2/2-2-2-2-2 |                             |
| 40        | 1-2-2-2-1/2-2-2-3-2 |                             |
| 50        | 4-4-4-4-3/4-3-4-4-3 |                             |
| 60        | 3-3-3-2-2/3-3-5-5-4 |                             |
| 70        | 4-2-2-4-2/2-4-3-3-4 |                             |
| 80        | 4-3-2-3-3/5-2-5-4-3 |                             |
| 90        | 4-5-4-4-4/3-4-4-4-3 |                             |
| 3600      | 3-4-4-4-2/2-1-1-3-2 |                             |
| 3600-3610 | 3-4-4-5-4/5-4-4-4-4 |                             |
| 20        | 4-5-4-4-4/5-5-5-5-2 |                             |
| 30        | 2-2-2-3-6/7-6-5-4-4 |                             |
| 40        | 3-3-3-4-3/4-4-3-5-6 |                             |
| 50        | 5-4-6-4-4/4-4-5-5-5 |                             |
| 60        | 5-3-2-4-4/5-4-3-4-2 |                             |
| 70        | 4-3-3-3-3/2-3-3-3-4 |                             |
| 80        | 3-2-3-3-2/3-3-2-3-3 |                             |
| 90        | 3-2-4-3-2/3-3-3-3-3 |                             |
| 3700      | 3-3-3-3-3/3-2-3-3-3 |                             |
| 3700-3710 | 3-3-3-2-3/3-3-3-3-3 |                             |
| 20        | 3-3-3-3-3/3-3-3-3-2 |                             |
| 30        | 3-3-3-3-2/2-2-2-2-2 |                             |
| 40        | 2-2-3-2-2/1-2-2-2-2 |                             |
| 50        | 2-3-3-2-4/3-4-4-3-3 |                             |
| 60        | 5-4-2-4-6/4-3-3-4-3 |                             |
| 70        | 4-6-5-6-5/7-6-6-6-5 |                             |
| 80        | 5-4-6-7-3/3-4-6-7-6 | Trip @ 3780 ft.             |
| 90        | 6-4-3-3-3/2-3-3-2-2 |                             |
| 3800      | 3-4-3-3-4/3-5-4-3-3 | Circ. @ 3793 DST #1 3766-93 |
| 3800-3810 | 4-5-5-4-5/5-5-6-4-4 |                             |
| 20        | 4-4-6-7-4/3-3-5-4-3 |                             |
| 30        | 3-3-3-6-4/4-3-3-3-3 |                             |
| 40        | 3-5-5-7-5/6-6-7-5-5 |                             |
| 50        | 4-4-3-7-3/1-2-2-3-3 |                             |
| 60        | 2-3-5-3-3/3-3-4-4-4 |                             |
| 70        | 3-4-5-3-4/4-5-6-5-5 |                             |
| 80        | 3-5-5-5-5/5-5-5-5-4 |                             |
| 90        | 4-5-5-5-3/3-3-3-3-3 |                             |
| 3900      | 2-4-4-4-4/5-4-5-4-3 |                             |

DRILLING TIME LOG: WURM #1

15-145-20171-0000

| Depth     | Minutes   | Remarks  |
|-----------|---|--|
| 3900-3910 | 5-5-5-4-6/2-4-4-4-4   |  |
| 20        | 4-4-6-5-7/5-4-3-7-7   | Circ. @ 3920   |
| 30        | 7-7-4-7-4/4-3-3-5-8   |  |
| 40        | 5-5-7-6-4/4-4-5-2-2   |  |
| 50        | 4-5-4-3- $\frac{1}{2}$ / $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -4-7 |  |
| 60        | 7-6-7-5-6/6-6-7-7-7   |  |
| 70        | 7-3-7-4-2/3-3-4-3-5   |  |
| 80        | 5-6-8-7-5/6-6-6-7-7   |  |
| 90        | 7-8-7-7-8/6-7-7-8-7   |  |
| 4000      | 6-6-9-9-3/3-5-4-3-3   |  |
| 4000-4010 | 2-3-4-8-6/8-8-8-8-8   |  |
| 20        | 8-8-9-7-8/6-7-4-3-4   | Trip @ 4017'   |
| 30        | 5-4-4-5-4/2-4-2-3-2   |  |
| 40        | 1-1-2-2-2/1-1-2-3-4   |  |
| 50        | 4-3-4-4-3/4-3-4-4-5   |  |
| 60        | 4-5-5-4-4/5-5-6-4-4   |  |
| 70        | 3-2-4-3-2/2-2-4-5-4   |  |
| 80        | 4-5-6-6-5/5-5-5-5-5   |  |
| 90        | 4-5-5-3-4/4-3-2-2-2   |  |
| 4100      | 2-3-2-5-5/3-3-3-3-3   |  |
| 4100-4110 | 4-4-6-5-5/5-5-4-5-4   |  |
| 20        | 4-4-4-2-2/2-2-3-3-2   |  |
| 30        | 2-3-2-3-2/3-2-4-2-2   |  |
| 40        | 3-4-6-4-5/5-5-4-3-3   |  |
| 50        | 4-5-5-5-4/5-7-8-8-9   |  |
| 60        | 9-8-10-8-7/6-5-5-5-5  | Circ. @ 4160   |
| 70        | 6-6-6-6-7/6-6-5-5-7   |  |
| 80        | 6-6-5-6-6/6-7-6-4-5   | Circ. @ 4180   |
| 90        | 4-4-7-4-3/3-3-4-4-6   |  |
| 4200      | 9-8-7-6-6/6-6-6-6-7   | Circ. @ 4193 DST #2 4152-4193                        |
| 4200-4210 | 7-6-8-7-6/7-7-7-7-7   | Circ. @ 4210 <sup>DST #3</sup> Pack. Fail. 4191-4210 |
| 20        | 4-7-9-9-6/7-7-7-7-6   | DST #4 4152-4210                                     |
| 30        | 7-7-8-5-4/3-5-5-5-5   | Circ. @ 4225   |
| 40        | 5-3-4-4-4/4-4-3-3-4   | Circ. @ 4240   |
| 50        | 3-5-5-5-4/4-5-6-6-6   |  |
| 60        | 8-12-9-6-5/8-5-9-11-11  | Circ. @ 4260   |
| 70        | 4-9-7-5-2/2-2-4-6-9   |  |
| 80        | 8-6-4-7-5/5-5-12-11-13  | Circ. @ 4280 DST #5 4262-80                          |
| 90        | 5-7-9-8-7/4-4-5-5-6   |  |
| 4300      | 5-5-4-4-4/2-4-4-5-5   |  |

DRILLING TIME LOG: WURM #1

15-145-20171-0000

| Depth     | Minutes                       | Remarks                     |
|-----------|-------------------------------|-----------------------------|
| 4300-4310 | 4-5-7-8-5/5-7-6-6-8           |                             |
| 20        | 6-8-8-10-7/6-11-11-10-10      |                             |
| 30        | 9-10-10-9-10/10-10-11-12-10   |                             |
| 40        | 10-8-9-11-10/9-10-8-10-8      |                             |
| 50        | 11-12-12-10-10/11-10-12-13-12 |                             |
| 60        | 15-15-16-15-14/15-16-15-15-16 |                             |
| 70        | 16-15-12-13-13/10-15-13-14-12 | Circ. @ 4365                |
| 80        | 11-15-14-11-12/12-12-15-11-14 |                             |
| 90        | 9-16-5-7-7/7-6-7-7-8          | Trip @ 4382                 |
| 4400      | 6-6-6-7-7/8-6-6-6-6           |                             |
| 4400-4410 | 4-5-6-7-7/6-6-7-6-4           |                             |
| 20        | 6-6-7-6-5/6-6-7-5-4           | Circ. @ 4418                |
| 30        | 5-5-6-5-3/5-6-6-6-5           |                             |
| 40        | 7-6-5-6-6/6                   | Circ. @ 4435 DST #5 4424-36 |

Rotary Total Depth 4436'

D & A October 24, 1970