

STATE OF KANSAS
 CORPORATION COMMISSION
 Give All Information Completely
 Make Required Affidavit
 Mail or Deliver Report to:
 Conservation Division
 State Corporation Commission
 11 No. Broadway
 Wichita, Kansas

WELL PLUGGING RECORD

NORTH

Locate well correctly on above
 Section Plat

Pawnee County, Sec. 1 Twp. 22 Rge. 15W (E) (W)
 Location as "NE/CNW/SW" or footage from lines. SW SW SW
 Lease Owner Imperial Oil Company
 Lease Name Vratil Well No. 1
 Office Address 780 4th Natl Bank Bldg., Wichita, Kansas
 Character of Well (completed as Oil, Gas or Dry Hole) Dry hole
 Date well completed 11-13-64 19____
 Application for plugging filed 11-13-64 19____
 Application for plugging approved 11-13-64 19____
 Plugging commenced 11-13-64 19____
 Plugging completed 11-13-64 19____
 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 Eldon Petty, Hays, Kansas
 Producing formation ---- Depth to top _____ Bottom _____ Total Depth of Well 3930 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 293' - 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.

Squeezed down surface pipe with 100 sacks cement to plug.

Rec'd 12-3-64

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

Name of Plugging Contractor Imperial Oil of Kansas, Inc.
 Address P.O. Box 97, Wakeeney, Kansas

STATE OF KANSAS, COUNTY OF SEDGWICK, ss.
Bob Williams, Jr. (employee of owner) 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) Bob Williams, Jr.
780 Fourth Nat'l Bldg., Wichita, Kans.
 (Address)

SUBSCRIBED AND SWORN to before me this 2nd day of December, 19 64.

My commission expires July 5, 1966.

Bette J. Silcott
 Bette J. Silcott Notary Public.

DRILLER'S LOG

Imperial Oil Company
780 Fourth National Building
Wichita, Kansas

Vratil No. 1
SW SW SW Sec. 1-22S-15W
Pawnee County, Kansas

Total Depth: 3930'

Elevation: 1968 KB

Commenced: 11-2-64

Contractor: Imperial Oil of Kansas, Inc.
Rig #2

Casing Record: Set 8-5/8" casing at 293 ft. with 225 sacks.

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Figures indicate bottom of formations:

TOPS:

Sand & Shale	293	Heebner	3365 (-1397)
Shale	340	Toronto	3379 (-1411)
Shale & Sand	920	Brown Lime	3473 (-1505)
Shale & Shells	1885	Lansing	3483 (-1515)
Lime & Shale	2670	Pawnee	3776 (-1808)
Shale & Lime	2810	Viola	3798 (-1830)
Lime & Shale	3345	Simpson Shale	3862 (-1894)
Lime	3866	Arbuckle	3915 (-1947)
Lime Shert	3930		

RTD 3930

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 William A. Sladek
William A. Sladek

Subscribed and sworn to before me this 30th day of November, 1964.

Bette J. Silcott
Bette J. Silcott, Notary Public

My Commission Expires: July 5, 1966.

15-145-00528-0000

GEOLOGICAL REPORT

VRATIL NO. 1

SW SW SW of Sec. 1-22S-15W
Pawnee County, Kansas

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GEOLOGICAL REPORT

Company: Imperial Oil Company Pawnee County, Kansas
Farm: Vratil No. 1 SW SW SW Sec. 1-228-15W
Contractor: Imperial Oil of Kansas, Inc. Elevation: 1968' K.B.
Rig No. 2 Rotary Total Depth: 3930'
Pool: Wildcat Rotary Completed: 11-13-64

Geological Data:

Samples were examined from 3350' to Rotary Total Depth. One foot drilling time was kept from 3000' to Rotary Total Depth. (Electric log information: No electric log surveys were conducted.)

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Formation Tops

Sample Tops

Heebner	3365' (-1397)
Toronto	3379' (-1411)
Brown Lime	3473' (-1505)
Lansing	3483' (-1515)
Pawnee	3776' (-1808)
Viola	3798' (-1830)
Simpson Shale	3862' (-1894)
Arbuckle	3915' (-1947)

Porosity and Shows of Oil

Lansing 3483' (-1515)

Top Zone 3483-92	White to very light tan finely crystalline dense to chalky limestone. Poor visible porosity. Fair show of dark free oil.
35' Zone 3510-14	White finely crystalline crinoidal limestone, varying to dark gray and brown mottled limestone. Poor porosity. Scattered dark free oil show.

GEOLOGICAL REPORT: Vratil No. 1

DST #1
3476-3515 Open 30", weak blow for 5". Rec. 5' mud
ICIP 1084#, IFP 28#, FFP 28#, FCIP 966#/20"

50' Zone
3528-33 White finely crystalline dense to very slightly chalky
limestone and tan to gray highly fossiliferous limestone.
Fair porosity. Scattered show of heavy black free oil.

DST #2
3516-39
(Straddle) Open 2 hours. Weak blow throughout. Rec. 90' watery
mud with a trace of free oil.
ICIP 1271#, IFP 19#, FFP 48#, FCIP 1113#/20"

90' - 100' Zns.
3575-88 White to tan slightly chalky to dense finely crystalline
limestone with light gray & tan chert. Poor to fair
visible porosity. Trace of black tarry free oil. No value.

120' Zone
3606-12 White to light tan oolitic limestone. Fair to good
porosity. Good show of free oil.

DST #3
3603-20 Open 30". Weak blow for 5". Rec. 10' mud
ICIP 976#, IFP 19#, FFP 19#, FCIP 597#/20"

160' Zone
3625-28 White to very light brown oolitic, crinoidal limestone.
Generally poor porosity. Trace of black tarry free oil.
Judged to be of no value.

180' Zone
3643-50 White to tan dense finely crystalline to slightly chalky
oolitic and oolitic limestone. Fairly good porosity.
Scattered show of dead oil stain and dark free oil. This
Zone is water bearing at higher structural datums.

200' Zone
3669-73 White to very light tan fossiliferous, semi-oolitic,
slightly dolomitic limestone. Good porosity. Scattered
show of heavy black free oil.

DST #4
3666-3710 Open 1 hour. Strong blow throughout. Rec. 540' muddy
water.
ICIP 1291#, IFP 28#, FFP 201#, FCIP 249#/20"

Top Pawnee 3776' (-1808)

3776-88 White fine crystalline dolomitic cherty lime, red, tan
and pink fresh chert. Poor porosity. No show of oil.

Top Viola 3798' (-1830)

3798-3810 White, yellow, red and bone white fresh chert, shaley to
conglomeratic. Trace free oil stain, poor porosity.

3810-33 Tan-grey fine crystalline cherty dolomite and fresh chert
as above - fair show dark free oil stains with good satura-
tion and fair odor. Poor to fair porosity.

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GEOLOGICAL REPORT: Vratil No. 1

DST #5 Open 1 hour. Recovered 15' mud, trace of oil.
3801-33 ICIP 38#/20" IFP 19#, FFP 19#, FCIP 19#/20"

3833-62 Dolomite as above.

Top Simpson shale 3862' (-1894).

3862-3915 Dark grey to black shale with some pale green shale.

3879-80) Clear fine grained, tight, slightly friable sand, with
3884-85) fair saturation of free oil stain. Shaley in section
 from 3884-85.

Top Arbuckle 3915' (-1947)

3915-19 White fine crystalline chalky dolomite.

3919-30 White-tan medium crystalline sandy dolomite. Fair-good
 porosity. No show of oil.

DST #6 Open 30 min. Rec. 2700' salt water
3917-30 ICIP 1260#/20", IFP 674#, FFP 1212#, FCIP 1260#/20"

Rotary Total Depth 3930' (-1962)

Due to the low structural position and lack of
commercial shows of oil, this hole was plugged
as D & A, Friday 13, 1964.

Geologists on Well:

Orlin R. Phelps - Consultant

Orlin R. Phelps
William A. Sladek - Imperial Oil Co.

William A. Sladek

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Wichita, Kansas

DRILLING TIME LOG

VRATIL NO. 1
SW SW SW of Sec. 1-22S-15W
Pawnee County, Kansas

Depth	Minutes	Remarks
1' Intervals:		
3000-10	2-1-2-2-3/4-2-2-2-2	
20	3-3-3-4-3/4-2-1-3-2	
30	2-2-2-1-1/2-2-2-2-2	
40	2-2-2-3-2/2-3-2-3-3	
50	2-3-3-3-3/3-3-3-2-4	
60	2-2-2-2-2/1-1-1-1-1	
70	1-1-1-2-2/4-4-4-4-4	
80	3-2-1-1-1/1-2-5-2-3	
90	2-3-4-5-3/5-3-2-3-3	
3100	5-5-3-2-2/3-3-5-5-4	
3100-10	4-3-2-3-2/2-3-3-4-3	
20	5-4-4-3-1/2-2-2-1-1	
30	2-1-3-1-2/2-2-1-3-2	
40	3-3-4-4-3/3-2-2-2-4	
50	4-3-3-5-4/4-6-5-4-5	
60	3-2 2-1/2-3-4-4-5	Kelly Correction @ 3153'
70	8-6-6-4-5/8-9-9-9-7	
80	5-5-3-4-4/4-5-3-5-5	
90	5-7-13-12-5/3-7-8-13-11	
3200	5-7-5-4-3/3-4-4-6-12	Trip @ 3200'
3200-10	3-4-4-4-4/5-5-3-5-3	
20	3-5-4-3-4/3-5-2-4-4	
30	5-5-4-5-6/7-7-6-5-3	
40	5-5-3-4-5/5-5-7-4-4	
50	4-5-6-7-5/5-4-6-6-5	
60	4-2-4-7-8/9-8-8-8-9	
70	8-6-6-3-2/2-3-10-8-5	
80	5-5-6-5-4/4-5-5-5-4	
90	3-4-3-4-5/4-5-4-4-5	
3300	4-5-4-5-7/6-5-5-6-5	

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DRILLING TIME LOG

Vratil No. 1

Depth	Minutes	Remarks
3300-10	6-7-6-6-6/7-5-5-7-6	
20	4-7-7-7-8/8-7-7-7-7	
30	6-8-7-5-6/5-6-7-7-8	
40	7-8-8-8-8/9-8-8-9-9	
50	9-7-6-7-8/8-8-7-7-7	
60	7-10-10-11-10/5-3-3-4-3	Trip
70	4-5-4-6-4/3-4-2-2-5	
80	9-8-7-6-5/6-5-6-7-8	
90	7-7-7-4-4/4-4-2-3-4	
3400	4-7-8-7-5/5-5-5-4-4	
3400-10	4-2-2-3-3/4-3-2-3-3	
20	3-2-3-3-4/3-4-3-4-3	
30	4-4-4-4-2/5-5-4-4-4	
40	5-3-5-4-3/5-4-3-2-3	
50	3-3-2-3-2/3-3-3-3-3	
60	3-3-2-2-3/3-3-3-3-2	
70	2-3-2-4-3/3-3-2-3-3	
80	2-3-3-9-8/8-8-8-6-5	
90	6-7-5-7-8/8-8-6-5-5	
3500	5-5-6-8-8/6-7-8-7-5	
3500-10	4-6-6-6-7/5-5-4-5-7	
20	6-6-6-6-7/6-4-4-4-5	
30	5-4-5-8-7/5-4-4-5-5	
40	4-5-6-7-7/7-7-7-6-6	
50	8-10-4-6-6/8-5-7-4-5	
60	5-5-6-6-4/5-3-2-3-5	
70	5-10-6-11-11/13-11-8-8-6	
80	7-8-9-9-7/3-3-3-6-5	Circulate
90	4-6-4-5-4/5-6-6-7-8	
3600	7-8-7-8-5/10-12-10-9-13	
3600-10	9-13-12-10-5/7-6-7-5-5	
20	4-4-12-12-10/11-11-9-8-10	
30	9-6-5-7-12/10-10-8-7-8	
40	6-5-9-11-9/10-7-8-6-4	
50	5-3-6-4-5/3-2-1-1-2	
60	7-6-7-6-7/6-7-6-7-7	
70	7-5-7-8-6/7-3-2-1-2	
80	2-5-5-7-6/7-6-7-6-7	
90	7-6-7-7-7/7-8-9-8-5	
3700	7-7-8-9-5/8-7-10-4-8	

DRILLING TIME LOG

Vratil No. 1

Depth	Minutes	Remarks
3700-10	8-6-7-6-4/4-8-7-8-8	DST
20	7-7-7-6-7/7-6-7-7-7	
30	5-6-6-6/6-6-6-5-6	
40	5-5-5-6-5/6-6-6-7-5	
50	6-5-7-6-5/6-7-5-6-7	
60	6-8-7-8-7/8-9-7-9-7	
70	6-8-6-8-9/7-9-10-8-7	
80	8-8-8-8-8/8-9-6-8-7	
90	9-10-9-9-10/9-9-9-7-7	
3800	7-7-7-8-7/7-6-6-4-5	
3800-10	4-5-4-4-4/4-4-3-4-4	
20	3-5-4-2-2/3-3-4-6-6	
30	6-6-6-7-9/9-11-8-5-11	
40	9-8-7-3-4/4-3-3-2-2	DST #5
50	3-3-2-2-3/3-3-3-3-3	
60	3-4-3-4-3/3-4-4-4-4	
70	5-6-9-7-8/10-11-13-15-17	
80	17-17-6-7-7/7-7-7-7-5	Trip
90	7-7-6-7-4/7-7-6-6-6	
3900	6-7-6-6-6/7-6-7-6-7	
3900-10	6-7-5-6-5/5-8-5-6-7	
20	7-6-6-6-7/8-4-5-6-8	
30	6-5-6-8-10/10-8-4-9-9	