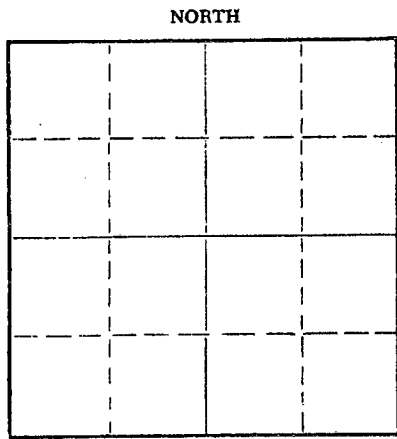


STATE OF KANSAS  
 STATE CORPORATION COMMISSION  
 Give All Information Completely  
 Make Required Affidavit  
 Mail or Deliver Report to:  
 Conservation Division  
 State Corporation Commission  
 212 No. Market  
 Wichita, Kansas

WELL PLUGGING RECORD



Ness County, Sec. 14 Twp. 16S Rge. (E) 21 (W)  
 Location as "NE/CNW%SW%" or footage from lines C NW NE  
 Lease Owner Consolidated Oil & Gas, Inc. & Imperial Oil Co.  
 Lease Name Ryan Well No. 1  
 Office Address 780 Fourth National Bldg., Wichita, Ks.  
 Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole  
 Date well completed 2-24 19 70  
 Application for plugging filed 2-24 19 70  
 Application for plugging approved 2-24 19 70  
 Plugging commenced 2-24 19 70  
 Plugging completed 2-24 19 70  
 Reason for abandonment of well or producing formation No commercial quantities  
 of oil and gas were encountered.  
 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

Locate well correctly on above Section Plat

Name of Conservation Agent who supervised plugging of this well Leo F. Massy, Hays, Kansas  
 Producing formation \_\_\_\_\_ Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well 4265 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			244'	8 5/8"	200 sacks	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 4265 feet to \_\_\_\_\_ feet for each plug set.

Set first plug at 660' with 70 sacks cement.  
 Set second plug at 240' with 20 sacks cement.  
 Set third plug at 40' with 10 sacks cement.

RECEIVED  
 STATE CORPORATION COMMISSION  
 MAR 6 1970  
 CONSERVATION DIVISION  
 Wichita, Kansas  
 03-06-1970

(If additional description is necessary, use BACK of this sheet)  
 Name of Plugging Contractor Imperial Oil Co.  
 Address 780 Fourth National Bldg., Wichita, Kansas

STATE OF KANSAS, COUNTY OF SEDGWICK, ss.  
 Charley V. Shank (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. IMPERIAL OIL CO.  
 (Signature) Charley V. Shank  
 780 Fourth National Bldg., Wichita, Ks.  
 (Address)

SUBSCRIBED AND SWORN TO before me this 3rd day of March, 19 70

My commission expires Dec. 10, 1973  
 Joan Davis Notary Public.

15-135-20323-00-00

DRILLER'S LOG

RECEIVED  
STATE CORPORATION COMMISSION  
MAR 6 1970  
CONSERVATION DIVISION  
Wichita, Kansas  
03-06-1970

Consolidated Oil & Gas, Inc. and  
Imperial Oil Co.  
780 Fourth National Bldg.  
Wichita, Kansas 67202

Ryan #1  
C NW NE Sec. 14-16S-21W  
Ness County, Kansas

Total Depth: 4265 feet

Elevation: 2301 K.B.

Commenced: 2-15-70

Completed: 2-24-70  
Dry Hole

Contractor: Imperial Oil Co., Rig #2

Casing Record: Set 8 5/8" surface casing at 244 ft. with 200 sacks of cement.

Figures indicate bottom of formations:

Sample Tops:

- 244' Post rock-shale
- 605' Shale-shells & red bed
- 1020' Shale-shells
- 1270' Dakota Sand
- 1625' Anhydrite
- 1985' Shale
- 2700' Shale-lime
- 2805' Lime-shale
- 3055' Shale-lime
- 3377' Lime-shale
- 3560' Shale-lime
- 3695' Lime-shale
- 4009' Lime
- 4085' Lime-shale
- 4135' Lime
- 4160' Lime-chert
- 4185' Core #1
- 4229' Lime-chert
- 4265' Lime
- 4265' Rotary Total Depth

Top Anhydrite	1583 (+ 718)
Base Anhydrite	1625 (+ 676)
Topeka	3422 (-1121)
Heebner	3703 (-1402)
Toronto	3727 (-1426)
Lansing	3745 (-1444)
Pawnee Limestone	4093 (-1792)
Base Pawnee Limestone	4156 (-1855)
Pawnee Sand	4164 (-1863)
Cherokee Shale	4169 (-1868)
Cherokee Sand	4174 (-1873)
Mississippi Chert	4254 (-1953)
Rotary Total Depth	4265 (-1964)

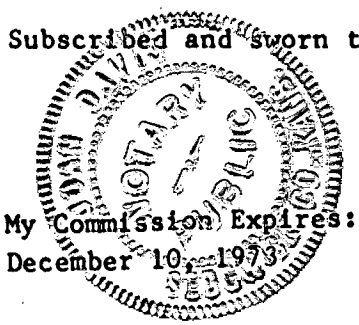
We hereby certify this to be a correct and accurate log of the above described well, as shown on the daily drilling reports.

IMPERIAL OIL COMPANY

Charley V. Shank  
Charley V. Shank

Subscribed and sworn to before me this 3rd day of Marck, 1970.

Joan Davis  
Joan Davis, Notary Public



15-135-20323-00-00

RECEIVED  
STATE CORPORATION COMMISSION  
MAP 6 1970  
CONSERVATION DIVISION  
Wichita, Kansas

GEOLOGICAL REPORT

#1 RYAN  
C NW NE Sec. 14-16S-21W  
Ness County, Kansas

GEOLOGICAL REPORT

Consolidated Oil & Gas Co., Inc. and  
 Imperial Oil Company  
 Farm: #1 Ryan  
 Contractor: Imperial Oil Co., Rig #2  
 Pool: Wildcat

Ness County, Kansas  
 C NW NE Sec. 14-16S-21W  
 Elevation: 2301 K.B.  
 Rotary Total Depth: 4265'  
 Rotary Completed: 2-24-70

Geological Data:

Samples were examined from 3600 feet to Rotary Total Depth. One foot drilling time was kept from 3300 ft. to Rotary Total Depth. (Electric log information: No electric log was run.)

Formation Tops

Top Anhydrite	1583 (/ 718)
Base Anhydrite	1625 (/ 676)
Topeka	3422 (-1121)
Heebner	3703 (-1402)
Toronto	3727 (-1426)
Lansing	3745 (-1444)
Pawnee Limestone	4093 (-1792)
Base Pawnee Limestone	4156 (-1855)
Pawnee Sand	4164 (-1863)
Cherokee Shale	4169 (-1868)
Cherokee Sand	4174 (-1873)
Mississippi Chert	4254 (-1953)
Rotary Total Depth	4265 (-1964)

Porosity and Shows of OilTopeka

- 3624-33 Limestone, white, fine to sucrosic, fossiliferous, fair scattered, fossilcast and pin-point porosity. No show or odor.
- 3636-40 Limestone, white to cream, finely crystalline. Fair to good oolitic porosity. No show or odor.
- 3670-89 Limestone, fine to sucrosic, good intercrystalline porosity. No show or odor.

Lansing

- 3937-42 Limestone, cream, finely crystalline, good oolitic porosity. No show or odor.
- 3966-70 Limestone, white, finely crystalline, chalky with fair oolitic and oolitic porosity. No show or odor.

Pawnee Sand & Cherokee Section

25 foot of this section was diamond cored with description as follows:

- Core #1 4160-85 (Full recovery).
- 4160-62 Shale, dark gray to black, slightly limey, tan, dense. No show or odor.
- 4162-64 Shale, green to gray, waxy with interbedded sand, white, fine tite. No show or odor.
- 4164-64'4" Sand, white, fine, slightly shaley, round to subrounded friable. Fair to good stain with trace of bleeding oil. Fair odor.
- 4164'4"-65½ Sand, white to green, very fine, shaley. Vertical fractured. Slight stain along fractures. No odor. Very tite.
- 4165½-69 Sand, white, fine to medium, roun to subrounded, friable, good even saturation and bleeding oil in spots. The lower 6" grades into a conglomerate. This sand appeared water bearing.
- 4169-74 Shale, green and red, waxy, rotten and crumbly.
- 4174-74½ Sand, white to green, fine to medium, interbedded in green to tan, dense limestone. Bleeding oil in spots. Very poor, scattered stain. Appears water bearing. Good odor.
- 4174½-76 Sand, white, medium, round to subrounded, very friable, fair to good scattered stain with bleeding oil. Appears water bearing. Good odor.
- 4176-82 Shale, green and red, waxy, brittle.
- 4182-85 Limestone, tan, dense, hard. No show or odor.
- DST #1 (Pawnee Sand and Cherokee Sand) 4144-85'. Open 60". Fair to strong blow throughout. Rec. 375' slightly oil and gas cut watery mud (40% water). ICIP 1146#/30", IFP 57#, FFP 187#, FCIP 1123#/30".

Mississippian Chert

- 4254-65 Chert, white and tan, fresh, sharp with chert, white, tripolitic. Good porosity. No show or odor.

Rotary Total Depth 4265 feet

February 24, 1970

D & A

IMPERIAL OIL COMPANY

*Charley V. Shank*  
Charley V. Shank

DRILLING TIME LOG  
#1 RYAN  
C NW NE Sec. 14-16S-21W  
Ness County, Kansas

Depth	Minutes	Remarks
1' Intervals		
3300-3310	3-5-4-3-4/3-4-3-4-3	
20	2-2-4-3-2/3-4-4-3-3	
30	2-2-2-2-2/2-4-4-3-3	
40	3-4-3-4-4/2-2-2-2-3	
50	2-4-3-3-4/3-2-3-3-3	
60	3-3-3-3-3/3-2-2-3-2	
70	2-2-5-3-4/3-4-3-3-3	
80	3-2-3-3-3/2-2-1-1-2	Trip at 3377'
90	2-2-2-1-2/3-2-2-2-2	
3400	2-2-2-2-2/2-1-1-1-1	
3400-3410	2-1-1-1-1/1-1-1-1-1	
20	1-1-1-1-1/1/2-1/2-3-2-2	
30	2-1-2-2-3/3-2-2-4-3	
40	2-3-3-2-3/2-2-3-3-3	
50	3-2-2-2-2/2-3-3-2-1	
60	1-2-2-2-2/2-2-3-2-2	
70	2-3-1-1-1/1/2-1/2-1-1-1	
80	1-2-1-2-3/3-3-3-3-3	
90	3-3-4-4-3/2-2-3-3-3	
3500	4-3-3-3-5/5-5-3-3-4	
3500-3510	2-2-3-2-2/2-3-3-4-3	
20	4-3-3-3-3/3-4-3-2-1	
30	2-2-2-3-4/3-2-4-2-2	
40	3-3-2-2-2/1-1-1-2-1	
50	1-1-2-1-1/1-1-3-3-2	
60	5-3-5-5-3/3-3-4-3-3	
70	4-4-4-5-5/6-3-3-3-4	
80	4-3-3-2-1/1-1-3-4-4	
90	3-4-4-4-4/4-2-2-3-3	
3600	5-5-4-4-4/5-5-3-3-3	
3600-3610	3-3-5-5-6/6-5-5-6-6	
20	5-5-6-8-6/7-7-7-7-7	
30	5-5-5-3-2/2-4-3-1-2	
40	2-2-3-5-4/2-2-3-2-4	
50	3-3-4-4-4/5-6-6-9-8	
60	6-4-2-2-2/2-2-3-3-2	
70	2-1-3-1-1/1-1-1-2-1	
80	1-1-1-2-2/2-2-1-1-1	
90	2-2-1-2-2/2-1-2-2-4	
3700	4-4-6-3-5/4-5-6-3-5	

15-135-20323-00-00

## DRILLING TIME LOG: #1 RYAN

Depth	Minutes	Remarks
1' Intervals		
3700-3710	5-5-8-4-3/3-2-7-6-6	
20	2-3-3-3-4/4-3-4-4-4	Trip @ 3710'
30	4-4-2-3-3/3-2-3-3-3	
40	3-3-4-3-4/4-4-4-4-3	
50	4-3-4-3-3/4-3-3-3-4	
60	3-4-3-2-3/2-2-2-4-4	
70	4-4-4-4-5/4-4-2-4-4	
80	4-3-4-3-4/4-4-2-3-4	
90	4-3-3-4-4/5-5-4-4-3	
3800	5-6-6-8-6/5-6-7-7-5	
3800-3810	5-7-7-7-9/7-8-9-8-6	
20	4-7-6-5-4/3-8-8-9-7	
30	3-4-5-6-8/9-8-7-5-4	
40	8-6-7-5-5/7-8-7-7-8	
50	10-8-7-10-10/5-8-8-6-6	
60	6-6-6-11-11/11-11-10-10-11	
70	11-9-10-9-11/10-10-10-12-10	
80	10-4-4-4-4/4-3-3-5-5	Trip at 3871
90	4-4-5-6-5/6-5-4-4-6	
3900	7-7-5-5-5/7-7-7-7-7	
3900-3910	9-9-7-7-8/6-7-7-9-6	
20	8-6-4-5-6/7-6-7-6-6	
30	7-8-7-6-5/6-6-1-4-8	
40	8-9-5-6-6/6-5-6-4-5	
50	5-6-6-8-6/5-1-1-1-2	
60	1-1-4-7-4/7-10-9-8-10	
70	9-10-10-9-10/5-5-4-4-5	
80	9-6-6-9-6/7-8-9-7-8	
90	10-11-7-6-8/11-13-14-10-6	
4000	7-7-6-7-7/9-5-4-3-3	
4000-4010	10-8-8-10-15/5-6-7-9-8	Trip at 4006'
20	6-7-7-6-5/7-6-7-7-7	
30	6-7-6-8-7/7-5-6-4-4	
40	5-4-4-4-7/7-7-6-6-5	
50	5-6-6-6-5/5-4-4-7-7	
60	8-7-6-5-6/5-6-6-7-6	
70	9-9-6-7-5/3-3-5-5-4	
80	4-3-5-5-5/5-3-7-8-9	
90	9-10-10-9-5/6-6-6-7-7	
4100	5-5-6-7-6/7-7-6-6-8	

15-135-20323-00-00

DRILLING TIME LOG: #1 Ryan

Depth	Minutes	Remarks
<b>1' Intervals</b>		
4100-4110	8-8-7-7-7/8-10-9-10-9	
20	11-10-8-9-10/10-11-10-9-10	
30	9-10-10-12-10/11-10-11-10-12	
40	11-13-13-13-12/12-13-12-12-11	
50	12-13-13-12-12/12-11-11-10-9	
60	11-11-10-9-11/9-9-10-10-11	Core #1: 4160-85'
70	25-14-16-17-12/11-8-9-7-19	
80	22-23-23-23-19/38-28-24-24-25	
90	26-28-34-40-34/5-7-7-8-6	DST #1: 4144-85'
4200	5-4-6-7-7/6-6-6-6-4	
4200-4210	4-6-4-7-7/5-3-4-3-4	
20	7-4-7-10-10/5-7-8-9-6	Circ. at 4215'
30	3-2-1-1-1/4-4-7-13-14	Rough at 4227'
40	13-13-6-2-3/11-13-9-5-8	
50	5-22-22-19-12/13-12-15-14-12	
60	15-13-0-16-15/18-19-11-13-5	Corr. 1' at 4253'
65	9-11-11-7-6	Circ. at 4265'

Rotary Total Depth 4265'