

15-065-30204-00-00

Form CP-4

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

Graham County. Sec. 10 Twp. 10 Rge. 23 (E) (W) x

Location as "NE/CNW%SW%" or footage from lines SE NE NW

Lease Owner Imperial Oil of Kansas, Inc.

Lease Name Johnson Well No. #1

Office Address Box 784, Great Bend, Kansas

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

Date well completed 19

Application for plugging filed 3-23-66 19

Application for plugging approved 19

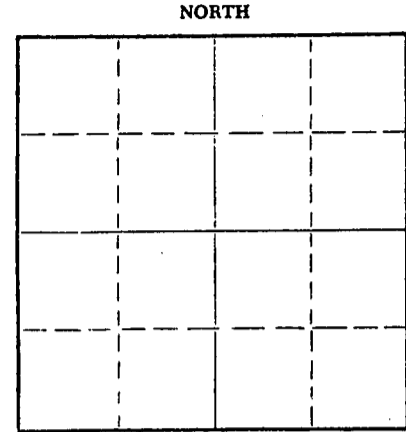
Plugging commenced 3-25-66 19

Plugging completed 3-29-66 19

Reason for abandonment of well or producing formation

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?



Locate well correctly on above Section Plat

Name of Conservation Agent who supervised plugging of this well W. L. Nichols

Producing formation Depth to top Bottom Total Depth of Well 3935' 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

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.

Made bottom hole plug back with sand to 3860'. Mixed and ran 3 sacks cement thru dump bailer. Squeezed hole with 17 sacks gel, followed with 50 sacks cement followed with 3 sacks gel and displaced with 10 sacks cement.

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03-30-1966
MAR 30 1966

CONSERVATION DIVISION
Wichita, Kansas

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

Name of Plugging Contractor Southwest Casing Pulling Co., Inc.

Address Box 364, Great Bend, Kansas

STATE OF Kansas, COUNTY OF Barton, ss.

Southwest Casing Pulling Co., Inc. (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. C. Spencer Sec

Box 364, Great Bend, Kansas (Address)

SUBSCRIBED AND SWORN to before me this 29 day of March, 1966

My commission expires 24 October 1968

Sidney D. Miller Notary Public.

DRILLER'S LOG

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Imperial Oil Company
780 Fourth National Bldg.
Wichita, Kansas

Johnson No. 1
SE NE NW Sec. 10-10S-23W
Graham County, Kansas

Total Depth: 3935 ft.

Elevation: 2423 K.B.

Commenced: 3-3-66

Completed: 3-13-66

Contractor: Imperial Oil Company - Rig #2

Casing Record: Set 8 5/8" casing at 210' with 150 sacks of cement.
Set 4 1/2" production casing at 3934' with 150 sacks of cement with salt added.

Figures indicate bottom of formations:

115'	Sand & clay
210'	Shale
705'	Shale & shells
1495'	Shale & sand
1710'	Dakota Sand
1963'	Shale & shells
2005'	Anhydrite
2665'	Shale & lime
3180'	Lime & shale
3415'	Shale - lime
3645'	Lime & shale
3935'	Lime
<u>3935'</u>	<u>Rotary Total Depth</u>

Sample Tops

Anhydrite	1963 (+ 460)
Heebner	3685 (-1262)
Toronto	3704 (-1281)
Lansing	3719 (-1296)
Rotary Total Depth	3935 (-1512)

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APR 6 1966
04-06-1966
CONSERVATION DIVISION
Wichita, Kansas

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

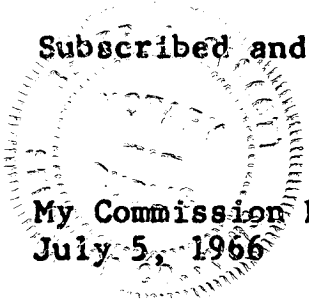
IMPERIAL OIL COMPANY

By William A. Sladek
William A. Sladek

Subscribed and sworn to before me this 17th day of March, 1966.

Bette J. Silcott
Bette J. Silcott

My Commission Expires:
July 5, 1966



ROBERT C. LEWELLYN

Petroleum Geologist

15-0165-30204-00-00

Phone MU 2-0881
Area Code 316
845 North Battin
Wichita, Kansas

GEOLOGICAL REPORT

IMPERIAL OIL CO., INC.

NO. 1 JOHNSON

SE NE NW SEC. 10-10S-23W

GRAHAM COUNTY, KANSAS

GENERAL INFORMATION:

DRILLING CONTRACTOR: Company Tools
SPUDDED: March 3, 1966 DRILLING COMPLETED: March 12, 1966
CASING: 8 5/8" @ 210 KBM/150 sx; 4 1/2" @ 3934 KBM/150 sx
DRILLING TIME: 1 foot time by Geolograph 3500' to RTD
SAMPLES: 10 foot samples from 3400' to 3690'
5 foot samples from 3690' to RTD
ELECTRICAL SURVEYS: no open hole logs run
DRILL STEM TESTS: 6 by Byron Jackson, Inc.
DRILLING MUD: Baroid, Great Bend
DIRECTIONS: Hill City, Kansas 12 S on HW 183, 1/2 W

ELEVATIONS: 2423 KB 2420 DF 2418 GL

FORMATION TOPS:

Heebner Shale	3685 (-1262)
Toronto Limestone	3704 (-1281)
Lansing Kansas City	3719 (-1296)
Rotary Total Depth	3935 (-1512)

LITHOLOGIC DESCRIPTION OF ZONES OF INTEREST CARRYING POROSITY AND/OR SHOWS OF OIL: (Refer to attached sample log for complete lithologic description of all formations.)

TOPEKA ZONES:

3630-3640 Limestone, cream to buff, finely crystalline and oolitic, trace poor scattered vugular and ooliticastic porosity, mostly barren, some inter-oolitic porosity, trace very poor light spotted staining, show and porosity not of sufficient quality for test.

LANSING-KANSAS CITY ZONES:

- 3723-3728 Limestone, cream, medium crystalline, fossiliferous
(Top) in part, cherty, fair to good vugular and inter-fossil porosity with fair to good spotted stain, considerable free oil, questionable odor, some barren porosity in zone. This zone was open in drill stem test No. 1.
- 3752-3755 Limestone, buff, dense to finely crystalline, trace
(35) very poor scattered pinpoint porosity, trace very poor light spotted stain where porous, no free oil, no odor.
- 3762-3766 Limestone, cream to buff, dense to finely crystalline,
(50) some poor pinpoint and fracture porosity with poor light spotted stain, some free oil in fractures throughout entire zone to 3786, no odor.
- 3793-3795 Limestone, cream, dense to finely crystalline, trace
(70) very poor pinpoint and vugular porosity with spotted staining, trace free oil, no odor. The above three zones were covered by drill stem test No. 2.
- 3803-3811 Limestone, cream, finely crystalline and chalky, mostly
(90) tight, trace very poor scattered pinpoint and vugular porosity with very slight show of scattered stain, no free oil, no odor, show and porosity not of sufficient quality for test.
- 3816-3819 Limestone, cream, dense and chalky, rare fragment of
(100) finely crystalline with fair vugular porosity, mostly barren, with trace of light spotted stain, no free oil, no odor. Remainder of zone to 3842 is dense and chalky limestone with no visible porosity and no show of oil. Show and porosity not of sufficient quality for test.
- 3855-3868 Limestone, cream, dense and chalky, cherty in part, no
(140) visible porosity and no show of oil.
- 3876-3880 Limestone, cream to buff, dense to finely crystalline,
(160) slightly fossiliferous, some fair scattered pinpoint and fracture porosity with scattered poor to fair light stain, very slight show of free oil, no odor. The above two zones were open in drill stem test No. 3. The 160 foot zone was isolated and open in drill stem test No. 6.

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- 3892-3897 Limestone, cream to buff, fine to medium crystalline, (180) slightly fossiliferous, fair pinpoint porosity, trace poor vugular porosity, fair light staining to light saturation, some free oil, no odor. This zone was open in drill stem test No. 4.
- 3912-3916 Limestone, cream to buff, finely crystalline and oolitic, (200) some poor ooliticastic porosity, mostly barren, trace light spotted stain in dry sample, no odor, no free oil.
- 3925-3928 Limestone, tan, oolitic, some fair to good ooliticastic (220) and vugular porosity, 90% barren, trace with poor light spotted stain, no free oil, no odor, lots of tan fossiliferous limestone, tight. The above two zones were open in drill stem test No. 6.
- 3935 ROTARY TOTAL DEPTH.

DRILL STEM TESTS:

Test No. 1 3720-3730/Open 30 min., shut 30 min., Open 30 min., shut 30 min.; very weak blow, dead in 7 min.; recovered 7 feet of mud.

IFP	"0#"	FFP	"0#"
ISIP	153#	FSIP	38#

Test No. 2 3744-3796/Open 30 min., shut 30 min., open 30 min., shut 30 min.; very weak blow, dead in 5 min.; recovered 25 feet of mud with a few specks of oil.

"A"	Period	IFP	19#	FFP	19#
"B"	Period	IFP	30#	FFP	30#
		ISIP	810#	FSIP	674#

Test No. 3 3846-3891/Open 30 min., shut 30 min., open 30 min., shut 30 min.; fair blow throughout; recovered 150 feet of gas, 90 feet of very slightly oil cut mud.

"A"	Period	IFP	38#	FFP	38#
"B"	Period	IFP	48#	FFP	48#
		ISIP	1172#	FSIP	1202#

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Test No. 4 3883-3908/Open 30 min., shut 30 min.; open 30 min., shut 30 min.; very weak blow, dead in 8 min.; recovered 15 feet of mud.

"A" Period	IFP	28#	FFP	28#
"B" Period	IFP	28#	FFP	28#
	ISIP	38#	FSIP	28#

Test No. 5 3900-3935/Open 30 min., shut 30 min.; open 30 min., shut 30 min.; strong blow throughout; recovered 310 feet of muddy water.

"A" Period	IFP	38#	FFP	67#
"B" Period	IFP	96#	FFP	134#
	ISIP	1320#	FSIP	1320#


Test No. 6 3871-3882/Open 30 min., shut 30 min., open 210 min., shut 30 min. Good to strong blow throughout test; recovered 1000 feet of gas, 60 feet of heavily oil cut mud, 60 feet of gassy oil.

"A" Period	IFP	19#	FFP	19#
"B" Period	IFP	38#	FFP	67#
	ISIP	1261#	FSIP	1192#

RECOMMENDATIONS:

It is respectfully recommended that a cased hole electric log be run and that the 160 foot zone 3876-3880 be perforated by electric log measurements, and treated as necessary to facilitate production.

It is possible the 180 foot zone 3892-3897 might also give up some oil if perforated and acidized.



Robert C. Lewellyn,
Petroleum Geologist.

RCL/mlb

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One foot drilling time:

3500-3520	2-2-2-2-1	3-2-3-3-5	6-4-4-5-5	4-7-4-3-4	
40	4-2-3-3-3	3-2-3-3-5	5-6-4-3-3	2-1-1-1-1	
60	2-2-2-2-3	6-5-5-6-7	4-5-4-5-5	5-6-4-6-4	
80	4-3-2-4-6	5-3-3-2-2	3-4-3-2-2	3-2-3-3-3	Trip @3566
3600	2-3-2-3-3	3-3-3-4-3	2-2-2-1-2	4-3-2-2-1	
3600-3620	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1-4	5-4-5-4-4	4-3-4-3-3	3-4-5-4-6	
40	5-5-5-4-5	6-7-5-5-3	3-2-1-2-5	3-4-3-3-3	
60	6-10-7-7-6	4-4-3-2-2	2-2-3-4-5	6-3-2-2-2	
80	2-2-2-3-3	4-3-3-2-3	2-3-3-4-5	4-3-4-4-3	
3700	5-4-5-6-6	3-3-5-5-6	9-5-10-7-2	5-4-4-2-3	
3700-3720	5-5-3-5-4	5-5-5-5-9	10-11-11-12-7	6-4-5-5-10	CFS @3716
40	12-15-12-5-9	10-9-9-11-12	3-3-4-4-5	5-4-5-5-5	CFS @3730
60	6-5-5-5-5	5-3-2-2-2	3-2-2-4-5	7-8-8-6-4	Trip @3730
80	3-3-6-5-4	6-7-12-9-10	10-10-10-10-10	11-11-11-9-10	CFS @3745
3800	8-7-9-10-10	-5-3-5-9	12-5-4-4-6	12-7-5-5-3	CFS @3765 CFS @3796
3800-3820	4-4-3-4-6	5-4-4-5-5	4-5-5-5-2	5-3-3-5-7	CFS @3810
40	7-7-6-6-6	5-6-7-7-8	9-9-9-9-9	8-8-6-7-6	
60	7-6-4-2-6	6-8-3-2-3	2-3-3-3-3	7-8-6-6-7	
80	7-8-8-8-8	7-9-8-3-8	6-4-4-3-3	5-6- -4-8	
3900	7-7-7-8-4	4-3-4-4-3	3-4-5-5-5	6-6-7-5-7	CFS&Trip@3891
3900-3920	6-7-6-5-5	4-4-3-3-3	3-4-4-3-4	5-6-6-7-7	
3920-3935	6-6-4-3-3	3-4-6-5-6	3-5-6-6-5		CFS @3935, RTD