State Geological Survey

KANSAS DRILLERS LOG

S. 36 T. 34 R. 32 E/W

API No. 15 — 175 (County) — 20,273 (Number)

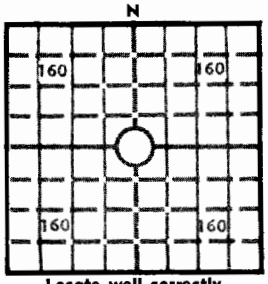
Loc. C SE SW

County Seward

Operator: Rains & Williamson Oil Co., Inc.

Address: 435 Page Court Wichita, Kansas 67202

640 Acres
N



Locate well correctly

Well No.: #1

Lease Name: Bird

Footage Location: 660' from S line & 1980' from W line
(feet from (N) (S) line; feet from (E) (W) line)

Principal Contractor: Rains & Williamson Oil Co., Inc.

Geologist: Harvey Gough

Spud Date: 12-21-75

Total Depth: 6100'

P.B.T.D.:

Elev.: Gr. 2717

Date Completed: 1-13-76

Oil Purchaser: The Permian Corporation

DF 2724 KB 2726

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface Csg.	12¼"	8 5/8"	23#	1473'	Halliburton		
					light weight	550	2% cc
					Common	150	3%cc
Production		4½"		5235'	Pos.	125	12.5 gilsonite & 10% salt

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8		

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
3	DP	5022 - 5027

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1,000 gal. MCA 15%	5022 - 5027

INITIAL PRODUCTION

Date of first production: 1-21-76

Producing method (flowing, pumping, gas lift, etc.): Pumping

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	480 bbls.	MCF	None bbls.	CFPB

Disposition of gas (vented, used on lease or sold):

Producing interval(s): 5022 - 5027

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator: Rains & Williamson Oil Co., Inc.

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil

Well No.: 1 | Lease Name: Bird

S 36 T 34S R 32 E W

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST #1 5016 - 5029 30 (30) 60 (45) Strong blow, gas to surface in 5 min. Sprayed oil in 45 min. on final blow. Second opening, gas to surface too small to measure. Rec. 4800' oil and muddy oil. FP 475-1228# BHP 1537-1504#. Temp. 115°.			Log Tops:	
DST #2 5088 - 5013 30 (30) 60 (30). Strong blow. Gas to surface in 5 min. Rec. 18' mud. FP 65-49# BHP 918-918#. Temp. 118°.			Heebner	4378 (-1652)
DST #3 5862 - 5970 30 (30) 30 (30) Weak blow decreasing on Preflow. No blow on Final Flow. Rec. 5' mud. IFP 111 ICIP 170 FFP 157 FCIP 170. Temp. 130°.			Toronto	4406 (-1680)
DST #4 6042 - 6100 30 (30) 30 (30) Weak blow decreasing on Preflow. No blow on Final Flow. Rec. 5' mud. IFP 65 ICIP 111 FFP 65 FCIP 68. Temp. 132°.			Lansing	4536 (-1810)
DST #5 5416 - 5480 31 (29) 90 (44). Weak increasing to fair. Rec. 90' mud w/ slight show of oil. IFP 62 ICIP 1260 FFP 65 FCIP 1241. Temp. 121°.			Kansas City	4819 (-2093)
			B/ Kansas City	5231 (-2505)
			Marmaton	5255 (-2529)
			Marrow Shale	5864 (-3138)
			Mississippi	6058 (-3332)
			L.T.D.	6089 (-3363)
			R.T.D.	6100 (-3374)

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received

Wilson Rains
Signature

President
Title

7-12-76
Date

State Geological Survey
WICHITA BRANCH

15-175-20213

WELL LOG

COMPANY RAINS & WILLIAMSON OIL CO., INC.

SEC. 36 T. 34S R. 32W
LOC. C SE SW

FARM BIRD NO. 1

RIG. NO. 8

TOTAL DEPTH 6100'

COUNTY SEWARD
KANSAS

COMM. 12-21-75 COMP. 1-13-76

CONTRACTOR RAINS & WILLIAMSON OIL CO., INC.

CASING

20
15
12
13

10
8 5/8" @ 1473' w/550 sxs Halliburton light weight. 2% cc. 150 sxs common. 3% cc.
6
X 4½" @ 5235' w/125 sxs 50/50 pos. 12.5 gilsonite. 10% salt.

ELEVATION 2726 KB

PRODUCTION OIL

FIGURES INDICATE BOTTOM OF FORMATIONS

SAND	474
RED BED	1025
SAND & ANHYDRITE	1350
RED BED & SHALE	1473
LIME	1525
SHALE	1855
SHALE & LIME	2201
LIME & SHALE	2664
SHALE & LIME	2825
LIME & SHALE	6100
ROTARY TOTAL DEPTH	6100