

State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

API No. 15 — 135 — 20,861
County Number

S. 6 T. 19 R. 24 ^N/_W

Loc. NE SE

County Ness

Operator
Thunderbird Drilling, Inc.

Address P. O. Box 18407 Wichita, Kansas

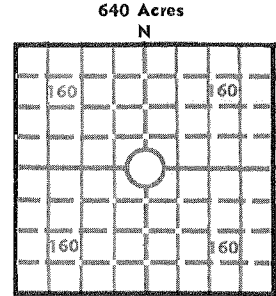
Well No. #1 Lease Name Popp "B"

Footage Location
feet from (N) (S) line _____ feet from (E) (W) line _____

Principal Contractor Dunne-Gardner Geologist _____

Spud Date 3/29 Total Depth 4295 P.B.T.D. _____

Date Completed 5/16 Oil Purchaser _____



Elev.: Gr. _____

DF _____ KB 2364

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
		8 5/8		332	common	250	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	5/8	

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

INITIAL PRODUCTION

Date of first production _____		Producing method (flowing, pumping, gas lift, etc.) _____			
RATE OF PRODUCTION PER 24 HOURS	Oil _____ bbls.	Gas _____ MCF	Water _____ bbls.	Gas-oil ratio _____	CFPB _____
Disposition of gas (vented, used on lease or sold) _____			Producing interval (s) _____		

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 **Thunderbird Drilling, Inc.** DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. #1 Lease Name Popp "B"

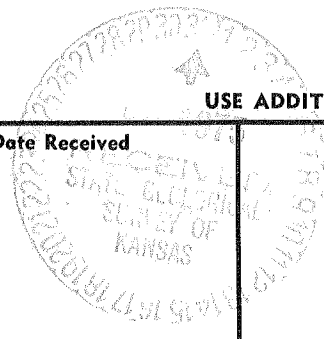
S 6 T 19 R 24 K W

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 4126-4170/60", Rec. 20' mud FP 61-61; BHP 78-61/30" DST #2 4248-4300/90" Good blow, Rec. 125' SOCGM, 250' MGO, 125' F.O., FP 52-324, BHP 1246-1211/45" DST #3 4316-4365/60", Rec. 15' mud FP 61-78, BHP 87-78/30" DST #4 4380-4395/90", Rec. 600' gas, 420' clean gassy oil-FP 43-173; BHP 1332-1315/45" Log Set 5 1/2" @ 4385' w/100 sx on the 17th 4/16 Swab 2.33 BOPH /2 Hrs. 4/17 Overnight fill up 1500' OIH Swb 2.25 BOPH Dump 500 gal MA and swab back immediately Swab 35 BOPH 500' off bottom /2 hr. 5/6 Pump 85 BOPD, no tr. / 3 days 5/16 State Test 105 BOPD, No wtr.				

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

Date Received



Signature

Title

Date