

**State Geological Survey**  
WICHITA, BRANCH

**KANSAS DRILLERS LOG**

S. 23 T. 27 R. 25 <sup>E</sup>/<sub>W</sub>

Loc. C NE SW

County Bourbon

API No. 15 — 011 — 20,169  
County Number

Operator  
Cities Service Oil Co.

Address 700 Sutton Place Bldg., Wichita, Kansas 67202

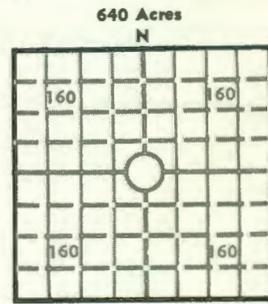
Well No. #1 Lease Name Howard A

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

Principal Contractor EXPLORATION, INC Geologist MARK YORK

Spud Date 8-16-74 Total Depth P.B.T.D.

Date Completed 8-17-74 Oil Purchaser



Locate well correctly  
Elev.: Gr. 831'

DF \_\_\_\_\_ KB \_\_\_\_\_

**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
<u>SURFACE</u>	<u>8 5/8"</u>	<u>7"</u>		<u>20'</u>	<u>DID NOT CEMENT</u>		

**LINER RECORD**

**PERFORATION RECORD**

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

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	Gas	Water	Gas-oil ratio	
	bbis.	MCF	bbis.	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

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

CITGO

Well No.

Lease Name

1

HOWARD "A"

STRAT TEST

S 23 T 27 R 25 E

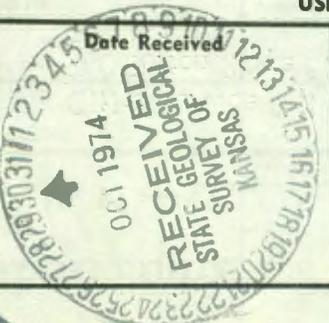
WELL LOG

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
ATTACHED				

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



Charles E. Donister

Signature

REGION PETR. ENGINEER

Title

9-25-74

Date

EO965C

CITIES SERVICE OIL COMPANY  
 #1 Howard A  
 360' W of C NE SW Section 23-27S-25E  
 Bourbon County, Kansas

Core Hole #11

Contractor: Exploration Inc.  
 GL Elev.: 831' TD = 278  
 Drilling Comm.: 8-16-74  
 Drilling Comp.: 8-17-74



- 0-10 = Top soil.  
 10-11 = Sh, black, dense.  
 11-30 = Sh, silty, light gray-gray slightly sandy.  
 30-40 = Sd, silty, light gray, poor porosity, fine grain, mica, no shows.  
 40-52 = Sd, light gray-white, fair to poor porosity, fine-medium grain, mica, w/particles of dead flaky oil, no shows.  
 52-60 = Sh, dark gray, slightly silty.  
 60-61 = Sh, black, dense.  
 61-70 = Sd, light gray-white, fine grain, slightly silty, poor porosity, mica no shows, some particles of dead flaky oil.  
 70-72 = Coal seam and sh, black, pyritic, dense.  
 72-90 = Sh, silty, sandy, gray, mica, poor porosity, no shows, also has a greenish color and some pelletal-like grains in the sh.  
 90-110 = Sh, light gray-gray w/thin partings of dead flaky oil.  
 110-118 = Sh, gray-dark gray slightly silty.  
 118-120 = Sh, dark gray-black slightly silty, dense.  
 120-130 = Sh, silty-sandy, light, gray w/partings of dead flaky oil.  
 130-140 = Sd, silty, fine grain, mica, white-light gray, w/particles of dead flaky oil, poor porosity, no shows, also some pelletal-like grains.  
140-150 = Sd, silty, fine-medium grain, mica, white-light gray, w/dead flaky oil, poor-fair porosity, cuttings bleeding live and tarry oil, faint-strong odor.  
 150-152 = Sh, black, pyritic, dense.  
 152-160 = Sh, silty, gray, w/partings of dead flaky oil.  
 160-180 = Silty-sandy, sh gray to light gray no shows, very fine grain.  
 180-195 = Sh, silty, light gray-gray w/some pelletal-like grains, also w/scattered partings of dead flaky oil, pyritic.  
 195-196 = Sh, black, dense, pyritic.  
 196-200 = Sh, silty-sandy, mica, very fine grain, poor porosity, no shows w/a few partings of dead flaky oil.  
 200-210 = Sd, white-light gray, fine grain, slightly silty, w/partings of dead flaky oil, poor porosity, no shows.  
 210-212 = Coal seam and sh, black, dense.  
 212-230 = Sh, silty, light gray-gray w/partings of dead flaky oil.  
 220 - changed from drag to rock bit.

CITIES SERVICE OIL COMPANY  
#1 Howard A  
Continued

- 230-240 = Sh, silty, light gray-gray w/pelletal & oolitic type grains  
some pyrite also some ls, tan, oolitic.
- 240-255 = Sh, dark gray-slightly silty, w/streaks of oolitic ls.
- 255-264 = Sd, white, fine-medium grains, fair-porosity slightly silty  
sat, and bleeding live-tarry oil, strong odor.
- 264-276 = Sh, dark gray-gray pyritic.  
Mississippi at 276.
- 276-278 = Ls, white, fine xln, fossil, no shows, poor porosity.
- TD = 278
- SP Log Depth = 277
- Resistivity Log Depth = 277
- GR Log Depth = 277



Mark York, Geologist