

State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

S.1 T.27 R.24 E
W

API No. 15 — 011 — 20,167
County Number

Loc. C SW

County Bourbon

Operator
Cities Service Oil Company

Address 700 Sutton Place Bldg., Wichita, Kansas 67202

Well No. #1 Lease Name Mertz A

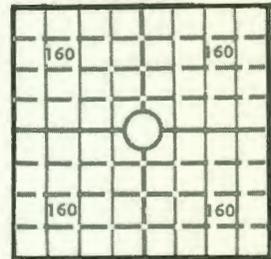
Footage Location
feet from (N) (S) line feet from (E) (W) line

Principal Contractor Geologist
EXPLORATION, INC. MARK YORK

Spud Date Total Depth P.B.T.D.
8-5-74 492'

Date Completed Oil Purchaser
8-7-74

640 Acres
N



Locate well correctly

Elev.: Gr. 965'

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
SURFACE	8 5/8" 7"	7"		20'	DID NOT CEMENT		

LINER RECORD

PERFORATION RECORD

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

TUBING RECORD

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

Well No. 1 Lease Name "MERTZ A" STRAT TEST

S 1 T 27 R 24^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
<u>ATTACHED</u>				

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

Date Received



Charles E. Zuster
Signature

REGIONAL PETR. ENGINEER
Title

9-25-74
Date

1-27-HE

CITIES SERVICE OIL COMPANY
No. 1 Mertz "A"
C SW/4 Sec 1-27S-24E
Bourbon County, Kansas

Core Hole #6



Contractor: Exploration Inc.
GL Elev. 965.4 T.D. = 492'
Drilling Comm.: 8-5-74
Drilling Comp.: 8-7-74

- 0-1 = Top soil.
- 1-16 = Ls, white-tan, dense fine xln, foss. (corals, forams, crinoids, shell fragments).
- 16-50 = Sh, slightly silty, gray to dark gray.
- 50-60 = Sh, slightly silty, light gray.
- 60-70 = Silty Sh, light gray-gray w/flakes of dead oil poor porosity.
- 70-82 = Sh, slightly silty, dark gray-black.
- 82-95 = Ls, light gray-gray-brown mottled, very fine-medium xln, very poor porosity. No shows.
- 95-100 = Sh, black, dense w/some pyrite.
- 100-108 = Silty-sandy ls, light gray to tan, fine xln, poor porosity. No shows.
- 108-114 = Sh, black dense, pyrite particles.
- 114-130 = Silty-sandy sh, light gray to gray, fine-medium grains, poor porosity, no shows w/some particles of dead oil, pyrite particles.
- 130-180 = Silty sh, gray, w/particles of dead oil slightly micaceous, fine pyrite particles.
- 180-190 = Sh, slightly silty, dark gray-black w/particles of white foss ls., dense.
- 190-196 = Ls, brown-tan, mottled, dense, fine xln, poor porosity, no shows, thin coal seam at top.
- 196-200 = Silty-sandy, sh, light gray to gray, fine grain, poor porosity, no shows.
- 200-205 = Ls, brown-tan, mottled, dense, fine xln, poor porosity, no shows.
- 205-209 = Sh, silty, dark gray.
- 209-220 = Sh, black, dense w/some white particles of foss. ls. (changed bits from drag to rotary, air and water.)
- 220-240 = Sh, silty, light gray-gray, coal seam in middle (230').
- 240-260 = Sh, silty, light gray-gray w/pelletal-like particles scattered in the shale, also pyrite.
- 260-270 = Silty, sandy, sh, light gray to gray, a few particles of dead oil.
- 270-280 = Sd, light gray-white, w/a few particles of dead oil, fair-poor porosity, no odor, no shows, fine-medium grain.
- 280-300 = Sh, silty-sandy, light gray-gray w/coal seam at 280', some dense tan ls, fine grain, coal has few particles of wt. foss. ls, also dead flaky oil in the more sandy shale.
- 300-310 = Silty-sandy sh, light gray w/pelletal-oolitic type grains-fine grain.
- 310-338 = Sh, gray-black, silty, ls present w/oolitic type grains, poor porosity no shows.

1-27-HE



CITIES SERVICE OIL COMPANY (CONTINUED)
No. 1 Mertz "A"
C SW/4 Sec 1-27S-24E
Bourbon County, Kansas

- 338-342 = Ls, gray-tan dense, fine xln, no porosity.
- 342-350 = Sh, dark gray-black dense, w/some silt & particles of dead oil.
- 350-378 = Silty sand, wt.-light gray fine grain, poor porosity. No shows. Also some pelletal-like particles in the silty sd. Some streaks of dead flaky oil, a few streaks of ls, dense fine xln, tan.
- 378-400 = Sh, silty-sandy, light gray, dense, no porosity, no shows, some oolitic type grains in the shale.
- 400-410 = Sh, silty-sandy, dark gray-black, poor porosity, no shows, some partings of dead flaky oil, micaceous.
- 410-420 = Sd, silty, wt.-light gray fine grain, poor porosity, no shows, w/ pelletal-like grains in the sand.
- 420-440 = Sd, silty, white-light gray fine grain, poor porosity w/partings of dead flaky oil, no shows, also some silty sh, dark gray, pyrite.
- 440-450 = Sh, silty, light gray-gray w/particles of dead oil. Some pyrite and black sh w/white foss ls particles in the black shale.
- 450-473 = Sh dark gray-black, slightly silty, pyrite.
- 473-480 = Sandy, sh, gray-dark gray w/particles of dead oil also some ls, tan, dense w/some oolitic grains, pyrite abundant.
- 480-487 = Sd, slightly silty, w/particles of dead oil.

MISSISSIPPIAN 487'

487-492 = Ls, white, dense w/a few partings of dead flaky oil. No show, poor porosity, fine xln, foss ls.

- R.T.D. 492 = drilling depth
- 490 = logging depth - resisting
- 489 = logging depth - SP
- 489 = logging depth - GR

Geologist, Mark York