

15-193-20147

KANSAS DRILLERS LOG

API No. 15 — 193 — 20,147
 County Number

S. 16 T. 7S R. 32 ^N/_W
 Loc. SW NE NW
 County Thomas

Operator
 Cities Service Company

Address
 209 E. William, 700 Sutton Pl. Bldg. Wichita, KS 67202

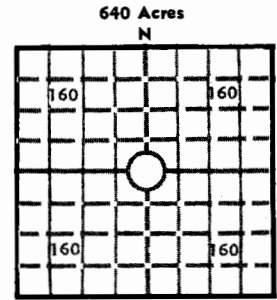
Well No. 2 Lease Name Knudson "A"

Footage Location
 990 feet from (N) (S) line 1650 feet from (E) (W) line

Principal Contractor Rains & Williamson Geologist Well Site - H. R. Johnson

Spud Date 8-12-77 Total Depth 4380' P.B.T.D. -----

Date Completed 8-20-77 Oil Purchaser



Elev.: Gr. 3066'
 DF 3071' KB 3075'

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	12 1/4"	8 5/8"	32#	361'	Class "A"	300	CaCl-2 2% + 10% Salt

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 Dry Hole	Producing method (flowing, pumping, gas lift, etc.)
RATE OF PRODUCTION PER 24 HOURS	Oil Gas Water Gas-oil ratio
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 Cities Service Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. 2	Lease Name Knudson "A"	Dry Hole
S 16 T 7S R 32 W 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
(See Attached)				

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

Date Received	 Signature
	E. W. Peterman
	Region Operations Manager
	Title
	February 1, 1978
	Date

DRILLER'S LOG

COMPANY: Cities Service Oil Co.

SEC. 16 T. 7S R. 32W

WELL NAME: Knudson "A" #2

LOC.: SW NE SW

COUNTY: Thomas

RIG NO. #1

TOTAL DEPTH 4380'

ELEVATION

COMMENCED: 8-13-77

COMPLETED: 8-20-77

CONTRACTOR: Rains & Williamson Oil Co., Inc.

CASING RECORD:

SURFACE: 8 5/8" @ 363' w/300 sx. common, 3% cc.

PRODUCTION: 4 1/2" @ 1613' w/500 sx. common.

LOG

(Figures Indicate Bottom of Formations)

Clay, Sand & Shale	361
Shale	424
Shale & Sand	1707
Sand & Shale	2660
Shale & Sand	2842
Shale	3277
Shale, Sand & Lime	3462
Shale & Lime	3778
Shale, Sand & Lime	3985
Lime	4093
Lime & Shale	4265
Shale & Lime	4380
<u>ROTARY TOTAL DEPTH</u>	<u>4380</u>



KANSAS DRILLERS LOG

WICHITA BRANCH

S. 16 T. 7S R. 32 ^{NE} _W
 Loc. SW NE NW
 County Thomas

API No. 15 — 193 — 20,147-A
 County Number

Operator
 Cities Service Company

Address
 700 Sutton Pl. Bldg., 209 E. William, Wichita, KS 67202

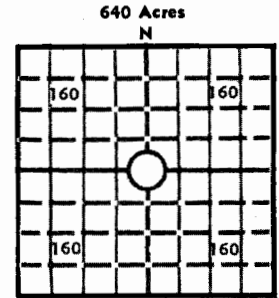
Well No. 2 Lease Name Knudson "A"

Footage Location
 990 feet from (N) (S) line 1650 feet from (E) (W) line

Principal Contractor Rains & Williamson Geologist Well Site - H. R. Johnson

Spud Date 8-20-77 Total Depth 1627' P.B.T.D. -----

Date Completed 12-23-77 Oil Purchaser -----



640 Acres
 N
 Locate well correctly
 Elev.: Gr. 3066'
 DF 3071' KB 3075'

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	12 1/4"	8 5/8"	32#	361'	Class "A"	300	CaCl-2 2% + 10% Salt
Production	7 7/8"	4 1/2"	10.5#	1613'	50-50 Pozmix	500	.75% CFR-2

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.) Dry and Abandoned				
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)		

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Operator Cities Service Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. 2	Lease Name Knudson "A"	Dry Hole
S 16 T 7S R 32 ^E _W		


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FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
(See Attached)				

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

Date Received	 Signature E. W. Peterman
	Region Operations Manager
	Title February 1, 1978
	Date