

State Geological Survey
WICHITA BRANCH

KANSAS DRILLERS LOG

S. 20 T. 23 R. 19 ^{NE}/_W

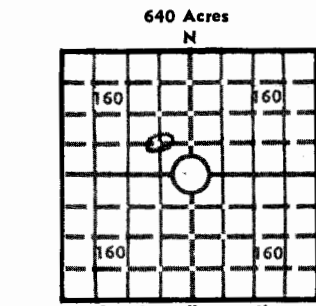
API No. 15 — 047 — 20,462
County Number

Loc. SE NW

Operator
Sterling Drilling Co.

County Edwards

Address
P. O. Box 129 Sterling, Kansas 67579



Well No. #1-20 Lease Name Lippoldt "A"

Elev.: Gr. 2233'

Footage Location
660' feet from 200 (S) line 660' feet from (E) 600 line

Principal Contractor Sterling Drilling Company Geologist Wayne Lebsack

Spud Date January 20, 1979 Total Depth 2610' P.B.T.D.

Date Completed February 9, 1979 Oil Purchaser

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	9 7/8"	7"	20#	G.L.	60/40 Pozmix	150	3% cc
Production	6 1/4"	4 1/2"	10.5#	2615'	Pozmix	100	Salt saturated

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
See attached Chronological Well History.	

INITIAL PRODUCTION

Date of first production <u>Shut-in gas well</u>		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 Sterling Drilling Company DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. 1-20 Lease Name Lippoldt "A"

S 20 T 23 R 19 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

Herington: Tan and gray dense dolomitic limestone. There was no show on the gas detector. Density log porosity - 11%; Neutron log porosity - 13%.

2394

2396

Linear
Neutron and
Density
Gas Detector

Towanda: Tan fine crystalline succrosic dolomite, with fine vugular porosity. There was no show on the gas detector. Density log porosity - 21%; Neutron log porosity - 18%.

2516'

2530'

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

Date Received

STERLING DRILLING COMPANY

F. A. Wuellner
Signature

F. A. Wuellner, Secretary
Title

July 9, 1979
Date

Date

20-23-19W

CHRONOLOGICAL WELL HISTORY

WELL NAME: Lippoldt "A" #1-20
 LOCATION: C SE NW, Section 20-23S-19W, Edwards County, Kansas
 ELEVATION: 2233' G.L.
 SURFACE CASING: 7" set at 245'.
 R.T.D. 2620'
 LONG STRING: 4 1/2" 10.5# 8rd, Range 2 and 3 set at 2615' with 100 sacks salt saturated Pozmix cement 2-9-79.
 P.B.D. 2591'

4-24-79: Moved in Woods Well Service and rigged up. Made 1 pull with swab. Rigged up Welex and run correlation and collar log from 2591' up to 2000'. Picked top cement 2152'. Swabbed hole down and perforated 4 SSB jets per foot 2520' - 24' at 4:50 PM. Run swab at 5:05 PM. No show. Shut in at 5:15 PM.

4-25-79: Small blow on well at 6:30 AM. Not enough to register on gauge. Run swab. No gas and just enough fluid to cover tools. Rigged up Halliburton and acidized with 500 gal. MCA 15% acid. Max. pressure 1200' broke to 600#. Treated at 700# at 5 BPM. Instant shut down 500#. Down to 150# in 15 mins. Total load 52 bbls. Started swabbing back load at 8:10 AM. Swabbed to bottom at 8:45 AM. Little acid gas on last pull from bottom. Running swab every 30 mins.

1st 30 mins. 50' fluid.
 2nd 30 mins. 40' fluid. Gas to surface when started to pull swab.
 3rd 30 mins. 30' fluid. Gas to surface 20 mins. after pulling swab.
 4th 30 mins. 20' fluid. Gas to surface soon as swab pulled out.
 Went to pulling swab 1 time per hour.
 1st hour 40' fluid. Gas to surface soon as swab pulled out.
 2nd hour 40' fluid. Gas to surface soon as swab pulled out.
 3rd hour 40' fluid. Gas to surface soon as swab pulled out.
 4th hour 40' fluid. Gas to surface soon as swab pulled out.

Rigged up and run 1' seating nipple, 82 joints 2 3/8" EUE, 8rd tubing, 2505.81' threads off 1 - 8' tubing sub 2513.81' set at 2510' G.L. Closed well in at 5:45 PM.

4-26-79: 580# on casing, 580# on tubing at 6:30 AM. Blowed well down thru tubing. Mist, no solid fluid. Blowed down in 20 mins. Then just small blow. No gauge. Shut well back in. Built back to 200# on casing in 15 mins; 220# in 20 mins; 240# in 25 mins; 260# in 30 mins. Rigged up Halliburton and fractured well with 13,000 gal. foam frac. Used 10,000# 20-40 sand, 3250 gal. gelled water and 165,400 S.C.F. nitrogen. Max. pressure 1950#, average inj. rate 8 B.P.M. I.S.I.P. 1500#. Complete at 9:33 AM. Pressure was down to 1140# at 10:55 AM. Started flowing back at 11:00 AM on 16/64 choke till 12:15 PM. Opened to 40/64 at 1:30 PM. Had 400# on casing. Caring back some fluid. Checked at 5:00 PM. Had 270# on casing, still caring back some fluid. Set choke on 37/64 at 5:30 PM, with 260# on casing to leave open to pit overnight.

4-27-79: Well still caring some water and mist at 6:45 AM. 220# on casing. Put 3/8" orifice on line to much for gauge. Put in 3/4" orifice at 7:00 AM and checked every 5 mins. for 30 mins.

Time	Casing Pressure	Pressure on Prover	Amount	
7:05	210#	24#	449,000	Mist
7:10	215#	25#	461,000	Mist
7:15	210#	27#	487,000	Mist
7:20	210#	27#	487,000	Mist & Slugging
7:25	210#	27#	487,000	Mist & Slugging
7:30	210#	27#	487,000	Mist & Slugging

Shut in for pressure build up at 7:30 AM for 30 mins.

Time	Casing	Tubing
7:30 - 7:35	260#	
7:35 - 7:40	280#	180#
7:40 - 7:45	300#	220#
7:45 - 7:50	320#	250#

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<u>Time</u>	<u>Casing</u>	<u>Tubing</u>
7:50 - 7:55	340#	290#
7:55 - 8:00	360#	340#

Shut well in at 8:00 AM. Looks like well will make some water with gas.

Kansas Nebraska will test well 4-30-79.