WELL COMPLETION REPORT AND DRILLER'S LOG

State Geological Survey
WICHITA BRANCH

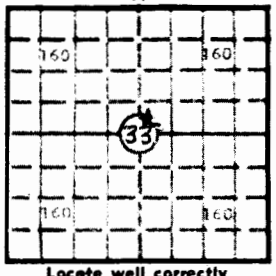
S. 33 T. 25S R. 33 E/W

API No. 15 — 055 (County) — 20473 (Number)

Loc. SW SW NE

County Finney

640 Acres



Locate well correctly

Elev.: Gr. 2933'

DF _____ KB _____

Operator: Cities Service Company

Address: 3545 N.W. 58th Street Oklahoma City, Oklahoma 73112

Well No.	Lease Name
2	Gann A

Footage Location: 2340 feet from (N) ~~X~~ line — 2540 feet from (E) ~~X~~ line

Principal Contractor	Geologist
Earl F. Wakefield, Inc.	

Spud Date	Date Completed	Total Depth	P.B.T.D.
6-2-81	7-21-81	3035'	2986'

Directional Deviation	~~Oil~~/Gas Purchaser
	Northern Natural

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 Casing	12-1/4"	8-5/8"	24#	792'	Howco Light	250	2% CaCl, 1/2# Flocele
					Class H	150	3% CaCl, ¼# Flocele
Prod. Casing	7-7/8"	4-1/2"	9-1/2#	3034'KB	Howco Light	150	¼# Floc., .008CFR-2
					50/50 Poz	150	2% Total Gel, ¼# Flocele, .008 CFR-2, 18% Salt

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at
1-1/2"	2946' KB	

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
2DPJSPF	Council Grove	2824 - 2904'
		(6 Zones)

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Frac treated C.G. down 4-1/2" csg. as follows: 4000 gals. 15% Spearhead acid, 5000 gals WF 25 prepad; 5000 YF2.5 PSD crosslinked pad; 30,000 gals. YF2. 5 PSD w/1PP6 20/40 sand; 40,000 gals YF2.5 PSD w/2 ppg 20/40 sd, 40,000 gals. YF2.5 PSD w/3 ppg 20/40 sd., 2000 gals 1% KCLW flush.	2824 - 2904'

INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)
7-21-81	Flowing

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	-0- bbls.	CAOF 2499 MCF	39 bbls.	--- CFPB

Disposition of gas (vented, used on lease or sold)	Producing interval(s)
To be sold	2824 - 2904'

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, 245 No. Water, Wichita, Kansas 67202. 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

DRY HOLE, SWDW, ETC.:

Well No.	Lease Name	
2	Gann A	Gas

S 33 T 25S R 33 E/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
Soil, Sand & Clay	0'	793'	Logging: Ran Dual Ind. Laterolog, Comp. Neutron Formation Density w/ GR & Caliper from 3035 - 792'. Ran CB & CCL from 2986' to 1650'. Top of cement @ 1920'.	
Shale	793'	1043'		
Glorietta Sand	1043'	1123'		
Anhydrite, Sand & Red Bed	1123'	1900'		
Red Bed & Shells	1900'	2300'		
Lime, Shale	2300'	2550'		
Lime & Shale	2550'	2935'		
Lime	2935'	3035'		
Total Depth		3035'		
Plug Back Total Depth		2986'		

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

Date Received

Delbert G. Oliver
Signature

Engineering Manager
Title

August 12, 1981
Date