State Geological Survey
WICHITA BRANCH

15-167-21244

KANSAS DRILLERS LOG

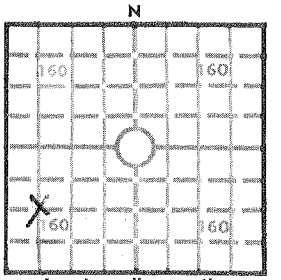
S. 13 T. 15 R. 12 E/W

API No. 15 — 167 (County) — 21,244 (Number)

Loc. 1320' NSL & 660' EWL

County Russell

640 Acres



Locate well correctly

Operator
R & H Oil & Gas Co.

Address
54 South Kansas Russell, Kansas 67665

Well No.	Lease Name
#1	Heinze "A"

Footage Location
1320 feet from (S) line 660' feet from (W) line

Principal Contractor	Geologist
Bergman Drlg Co	Kenneth Vehige

Spud Date	Total Depth	P.B.T.D.
10/5/1978	3350	

Date Completed	Oil Purchaser
10/12/1978	

Elev.: Gr. 1874

DF 1876 KB 1879

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		227			
production	7 7/8	4 1/2		3349			

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval

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.

C-10-1972

Operator: B & H Oil & Gas Co.

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

Well No.: 1

Lease Name: Heinze

S 13 T 15 R 12 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
shale, shells & sand	0	756		
Lime	756	788	Anhydrite	756
Redbed, shells & shale	788	1160		
Lime & shale	1160	2625		
Lime	2625	2915	Topeka	2625
black shale	2915	2919	Heebner	2915
Lime & shale	2919	3016		
Lime	3016	3270	Lansing-K.C.	3016
Lime & shele	3270	3305		
Dolomite	3305	3350	Arbuckle	3305
TD in			"	

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

Date Received

Kenneth Vehige
Signature

Geologist
Title

10/22/78
Date

15-167-21244

13-15-12W

State Geological Survey
WICHITA BRANCH

BERGMAN DRILLING, INC.

DRILLERS LOG

Re: Heinze A # 1
1320' W of SL
660' E of WL SE/4
Section13=15S-12W
Russell County, Kansas

Elevation 1879 KB

OPERATOR: R & H Oil Company

CONTRACTOR: Bergman Drilling, Inc.

COMMENCED: October 6, 1978

COMPLETED: October 12, 1978

TOTAL DEPTH: 3350' Set 8 5/8" @ 227.73 w/150 sx.

0	135	Post Rock & Shale
135	233	Shale - SAnd -Shale
233	300	Shale
300	758	Shale & Lime
750	770	Anhydrite
770	787	Anhydrite
787	1510	Red Bed - Shale
1510	1865	Shale
1865	1945	Shale & Lime
1945	2017	Lime - Shale
2017	2355	Lime & Shale
2355	2555	Shale& Lime
2555	2758	Shale & Lime
2758	2870	Lime
2870	3010	Shade & Lime
3010	3090	Lime & Shale
3090	3200	Lime
3200	3300	Lime BKC - Arbuckle
3300	3350	Lime
3350		Total Depth Set 4 1/2 @ 3349' w/ 150 sx.

We certify that the above and foregoing to be true and correct copy of the drillers log on the # 1 Heinz A, located in Russell County, Kansas as revealed by the records of Bergman