

KANSAS DRILLERS LOG

State Geological Survey
WICHITA BRANCH

API No. 15 — 167 — 21640
County Number

Operator
NATIONAL COOPERATIVE REFINERY ASSOCIATION

Address
Box 6, GREAT BEND, KANSAS 67530

Well No. 9 Lease Name MAI

Footage Location
330 feet from (S) line 330 feet from (E) line NE/4

Principal Contractor LD DRILLING Co. Geologist LARRY BOOKLESS

Spud Date MAR. 21, 1981 Total Depth 3250' P.B.T.D.

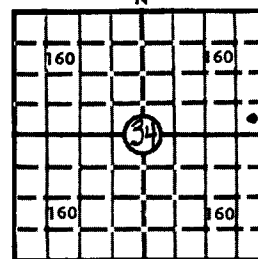
Date Completed MAR. 26, 1981 Oil Purchaser

S. 34 T. 14 R. 14 W

Loc. SE SE NE

County RUSSELL

640 Acres
N



Locate well correctly

Elev.: Gr. 1777'

DF KB 1782'

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"	12 1/4"	768'	COMMON	375	2% GEL 3% CaCl.

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			

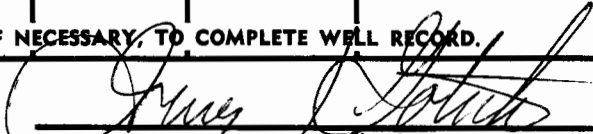
ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

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 bbls.	Gas MCF	Water bbls.	Gas-oil ratio 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 NATIONAL COOPERATIVE REFINERY ASSOCIATION		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: D & A	
Well No. 9	Lease Name MAI		
S 34 T 14 R 14 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
SEE GEOLOGICAL REPORT ATTACHED.			
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	Signature  DISTRICT SUPERINTENDENT Title MAY 19, 1981 Date		

PT

DRILLERS WELL LOG

34-14-14W

L. D. DRILLING, INC. - CONTRACTOR

N. C. R. A. - OPERATOR

MAI # 9
SE SE NE
Sec. 34-14S-14W

T. D. 3250
ELEV. 1782 KB

State Geological Survey
WICHITA BRANCH

COMMENCED: 3-21-81
COMPLETED: 3-26-81

CASING:

8 5/8" set at 768'

CEMENT:

W/375 sx. Common, 3% CC

FORMATIONDEPTH

Sand	0 - 55
Hard Sand	55 - 305
Shale	305 - 761
Anhy	804 - 1065
Shale W/Lime	1065 - 1580
Lime & Shale	1580 - 3250
R.T.D.	3250

FORMATION TOPS:)sample(

Anhy.	761	+1021
Grand Home	2325	- 543
First Sand	2329	- 557
Dover Lime	2350	- 568
Second Sand	2362	- 580
Torkio Lime	2396	- 614
Topeka	2664	- 882
Heebner	2898	-1116
Toronto	2916	-1134
Douglas	2934	-1152
Lens. K/C	2962	-1180
Base K/C	3170	-1388

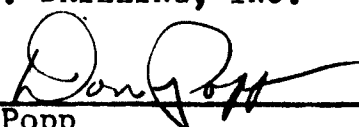
STATE OF KANSAS

COUNTY OF BARTON

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I certify that this is a true and correct copy of the above
log to the best of my knowledge.

L. D. DRILLING, INC.


Don Popp

Sworn to and subscribed before me this 2nd day of April, 1981.

My appointment expires: 5-20-81