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DRILLED/CONVERTED**

Permit Date: 7/14/2005 **Permit #:** 57225 **Reference #:** 209640

COMPANY Hudson, Larry A.

FARM Lemke

NO. 2

DATE DRILLED

COUNTY NO. 26159

AUTHORITY

ELEVATION 443' GL - Permit

LOCATION 330'N line, 330'W line of NE NW

COUNTY Richland

API# 1215926159 00

28-2N-14W

ILLINOIS STATE GEOLOGICAL SURVEY

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ELECTRIC LOG TOPS from Company

	<u>Top</u>	<u>Bottom</u>
Tar Springs Upper, sandstone	2428	2438
Tar Springs, sandstone	2457	2511
Glen Dean, limestone	2511	2537
Barlow, limestone	2683	2694
Cypress Upper, sandstone, show of oil	2702	2704
Bethel, sandstone, show of oil	2852	2862
Ste Genevieve, limestone	3035	
McClosky, limestone (core), good show of oil	3093	3096
Salem, limestone	3446	
St Louis, limestone	3446	
Salem Middle, limestone, slight show of oil	3526	3534
Salem Lower, limestone, slight show of oil	3856	3858
Warsaw, limestone	3897	
Warsaw, limestone, good show of oil	3907	3917
Total Depth:		3943

Date Drilling Began: 12/27/2013

Casing 5 1/2" - 3943' , cemented with 485 sacks
8 5/8" - 259' , cemented with 225 sacks

Cores #1, 3073.00' - 3103.00', Cut: 30.00', Recovered: 30.00'

3073' - 3085'	dense limestone with a few thin beds of shale, no show of oil
3085' - 3088'	calcareous, dense siltstone, no show of oil
3088' - 3092.5'	dense limestone with no show of oil
3092.5' - 3095.2'	dense oolitic limestone bleeding oil
3095.2' - 3103'	dense limestone with no show of oil

Perforated: 3910' - 3915', shots not reported

Acidized: 3910' - 3915', 500 gallons MCA

I.P. 2 bbls. of oil, 20 bbls. of water per day, from the Warsaw (3910'-3915')

Permit Date: 11/15/2013 **Permit #:** 63249 **Reference #:** 209640

COMPANY Hudson, Larry A.

FARM Lemke

NO. 2

DATE DRILLED February 10, 2014

COUNTY NO. 26159

AUTHORITY Company

ELEVATION 443' GL - Permit

LOCATION 330'N line, 330'W line of NE NW

COUNTY Richland

API# 1215926159 01

28-2N-14W

Geologist's Report filed.

Drilling Time Log filed.

Dual Induction Gamma Ray SP Log filed.

Compensated Density Neutron Micro-Res. GR Caliper filed.

Core Analysis Report filed.

Sample set # 70295 3850' - 3943' Received: 2/13/2014

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GET FILE	Density Log
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GET FILE	Scanned Drilling Time Log

Permit Date:	11/15/2013	Permit #:	63249	Reference #:	209640
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COMPANY	Hudson, Larry A.
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FARM	Lemke
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NO. 2

DATE DRILLED	February 10, 2014
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COUNTY NO. 26159

AUTHORITY	Company
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ELEVATION	443' GL - Permit
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LOCATION	330'N line, 330'W line of NE NW
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COUNTY	Richland
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API# 1215926159 01**28-2N-14W**

ILLINOIS STATE GEOLOGICAL SURVEY

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Permit Date:	2/16/2017	Permit #:	204523	Reference #:	209640
COMPANY	Hudson, Larry A.				
FARM	Lemke			NO.	2-W
DATE DRILLED				COUNTY NO.	26159
AUTHORITY					
ELEVATION	443' GL - Permit				
LOCATION	330'N line, 330'W line of NE NW				
COUNTY	Richland	API#	1215926159 02		28-2N-14W