

ILLINOIS STATE GEOLOGICAL SURVEY

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ELECTRIC LOG TOPS from Company

	<u>Top</u>	<u>Bottom</u>
Vienna, limestone	2050	2054
Tar Springs, sandstone, no show of oil	2110	2130
Glen Dean, limestone	2130	2134
Hardinsburg, sandstone, no show of oil	2200	2300
Barlow, limestone	2394	2398
Cypress Upper, sandstone, show of oil	2406	2425
Cypress Middle, sandstone, slight show of oil	2434	2490
Paint Creek, limestone	2527	2530
Benoist Upper, sandstone, good show of oil	2530	2544
Benoist Lower, sandstone, fair show of oil	2556	2600
Ste Genevieve, limestone	2728	
St Louis, limestone	2870	
St Louis, low porosity, show of oil	2966	2970
Salem, limestone	3160	
Salem, porosity, good show of oil	3196	3210
Salem, porosity, show of oil	3220	3232
Total Depth:		3470

Date Drilling Began: 3/27/2007

Casing 8 5/8" - 90' , cemented with 100 sacks
 4 1/2" - 3467' , cemented with 430 sacks

Perforated: 2529' - 2533', shots not reported

2538' - 2542', shots not reported

3199' - 3203', 16 shots

Acidized: 2529' - 2542', 750 gallons acid

3199' - 3203', 500 gallons acid

Fractured: 2529' - 2542', 6,000 lbs. sand

I.P. 18 bbls. of oil, 10 bbls. of water per day, pumping from the Salem (3199'-3203'), Bethel (2529'-2542')

Permit Date: 1/12/2007 **Permit #:** 58514 **Reference #:** 210726

COMPANY MAP Oil Company, Inc.

FARM Alka

NO. 4

DATE DRILLED April 20, 2007

COUNTY NO. 28424

AUTHORITY Company

ELEVATION 403' GL - Permit

LOCATION 520'N line, 330'E line of SW SE

COUNTY Wabash

API# 1218528424 00

Irr. 5-2S-13W

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Geologist's Report filed.

Gamma Ray Neutron Casing Collar Log filed.

Photo Density Comp Neutron Microlog GR Caliper filed.

Array Induction Gamma Ray Log filed.

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GET FILE	Cased Hole Log
GET FILE	Density Log
GET FILE	Induction Electric Log
GET FILE	Scanned Documents
GET FILE	Scout Check Ticket

Permit Date: 1/12/2007 **Permit #:** 58514 **Reference #:** 210726

COMPANY	MAP Oil Company, Inc.	
FARM	Alka	NO. 4
DATE DRILLED	April 20, 2007	COUNTY NO. 28424
AUTHORITY	Company	
ELEVATION	403' GL - Permit	
LOCATION	520'N line, 330'E line of SW SE	
COUNTY	Wabash	API# 1218528424 00 Irr. 5-2S-13W

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WATER INJECTION CONVERSION

Total Depth: 3470

Casing 8 5/8" - 91' , cemented with 100 sacks
 4 1/2" - 3467' , cemented with 450 sacks
 Tubing 2 3/8" - 2479' , set with AD-1 packer

Perforated: 2529' - 2542' , existing perforations
 3199' - 3203' , existing perforations

Completed as a water input well, injecting 100 bbls. of water per day at 200 psi into the Salem (3199'-3203'), Benoist (2529'-2542').

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Scanned Documents

Permit Date: 1/16/2014	Permit #: 204142	Reference #: 210726
COMPANY	MAP Oil Company, Inc.	
FARM	Alka	NO. 4-WI
DATE DRILLED	February 26, 2014	COUNTY NO. 28424
AUTHORITY	Company	
ELEVATION	403' GL - Permit	
LOCATION	520'N line, 330'E line of SW SE	
COUNTY	Wabash	API# 1218528424 01 Irr. 5-2S-13W

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Permit Date:	3/18/2019	Permit #:	65899	Reference #:	210726
COMPANY	Universal Operating, Inc				
FARM	Alka			NO.	4
DATE DRILLED				COUNTY NO.	28424
AUTHORITY					
ELEVATION	403' GL - Permit				
LOCATION	520'N line, 330'E line of SW SE				
COUNTY	Wabash	API#	1218528424 02	Irr.	5-2S-13W