

ILLINOIS STATE GEOLOGICAL SURVEY

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ELECTRIC LOG TOPS from Company

	<u>Top</u>	<u>Bottom</u>
Barlow, limestone	2498	2514
Cypress, sandstone	2652	2667
Ste Genevieve	2838	
McClosky, limestone, odor, fluorescence, show of oil	2882	2903
McClosky Dolomite, dull fluorescence	2920	2929
McClosky Dolomite, fluorescence	2950	2954
McClosky Dolomite, odor, fluorescence, show of oil	2978	2982
St Louis, limestone	2988	
St Louis Dolomite, slight odor, fluorescence, slight show of oil	3088	3096
St Louis, limestone, slight odor, fluorescence, slight show of oil	3207	3210

Total Depth: 3305

Plugged Back Total Depth: 3080

Date Drilling Began: 7/8/2014

Casing 8 5/8" - 267' , cemented with 100 sacks
 4 1/2" - 301' , cemented with 460 sacks

DST #1 (McClosky) 2870' - 2904'. Tool open 30 minutes. closed 30 minutes. Open 60 minutes, closed 59 minutes. Recovered 60' salt water, 30' salty mud, 60' gas in pipe. ISIP 867.00#. FSIP 902.00#. IHP 1439.00#. FHP 1351.00#. IFP 27.00# -32.00#. FFP 45.00# -60.00#.

Permit Date: 4/18/2014 **Permit #:** 63553 **Reference #:** 215721

COMPANY	Tri-State Prod. & Dev., Inc.	NO. 1
FARM	Roush-Kermicle	
DATE DRILLED	August 22, 2014	COUNTY NO. 26410
AUTHORITY	Company	
ELEVATION	442' GL -	
LOCATION	330'S line, 380'E line of SE NW NW	
COUNTY	Richland	API# 1215926410 00 4-4N-10E

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Perforated:	2813' - 2816',	shots not reported
	2881' - 2884',	shots not reported
	2950' - 2954',	shots not reported
	2976' - 2981',	shots not reported
	3207' - 3210',	9 shots
Acidized:	2813' - 2816',	500 gallons 15% HCl acid
	2881' - 2884',	500 gallons 15% HCl acid
	2950' - 2981',	1,500 gallons 15% HCl acid
	3207' - 3210',	500 gallons 18% MCA
Fractured:	2950' - 2981',	16,000 lbs. 20/40 sand and 2,000 lbs. 12/20 sand

I.P. 9 bbls. of oil, 80 bbls. of water per day, from the McClosky (2881'-2981'),
Aux Vases (2813'-2816')

Array Induction Gamma Ray Log filed.

Drill Stem Test Report filed.

Photo Density Compensated Neutron Microlog GR filed.

Gamma Ray Neutron Log filed.

Geologist's Report filed.

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GET FILE	Cased Hole Log
GET FILE	Density Log
GET FILE	Induction Electric Log
GET FILE	Scanned Documents

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FARM	Roush-Kermicle	NO. 1
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Permit Date:	12/17/2014	Permit #:	204328	Reference #:	215721
COMPANY	Tri-State Prod. & Dev., Inc.				
FARM	Roush-Kermicle			NO. 1	
DATE DRILLED				COUNTY NO. 26410	
AUTHORITY					
ELEVATION	442' GL -				
LOCATION	330'S line, 380'E line of SE NW NW				
COUNTY	Richland	API#	1215926410 01	4-4N-10E	