

ILLINOIS STATE GEOLOGICAL SURVEY

Page 1

WATERFLOOD PROJECT

ELECTRIC LOG TOPS from Company

	<u>Top</u>	<u>Bottom</u>
Glen Dean	1202	1206
Golconda	1275	1300
Barlow	1342	1360
Cypress Middle	1435	1445
Paint Creek	1487	1494
Downeys Bluff	1540	1544
Benoist	1544	1552
Ste Genevieve	1620	
McClosky	1656	

Total Depth: 1795

Plugged Back Total Depth: 1745

Date Drilling Began: 4/23/1991

Casing 8 5/8" - 276' , cemented with 225 sacks
 5 1/2" - 1785' , cemented with 330 sacks

Perforated: 1653' - 1669', 64 shots

1672' - 1674', 8 shots

1679' - 1688', 36 shots

1693' - 1695', 8 shots

Acidized: 1653' - 1695', 2,000 gallons acid

I.P. 1 bbls. of oil, 114 bbls. of water per day, from the McClosky (1653'-1695')

Digital Induction Shallow Focused SP Gamma Ray Log filed.

Compensated Density Neutron Gamma Ray Caliper Log filed.

Permit Date:	4/4/1991	Permit #:	45013	Reference #:	143055
COMPANY	Marathon Oil Company				
FARM	Applegate, A. R. Tr.			NO.	60
DATE DRILLED	May 23, 1991	COUNTY NO.	30240		
AUTHORITY	Company				
ELEVATION	436' GL - Permit				
LOCATION	1320'N line, 1980'E line of NE				
COUNTY	Lawrence	API#	1210130240 00	Irr.	13-4N-13W

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GET FILE	Induction Electric Log
GET FILE	Scanned Documents
GET FILE	Scout Check Ticket

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Page 3

WATER INJECTION CONVERSION

Total Depth: 1795

Plugged Back Total Depth: 1745

Casing 8 5/8" - 276' , cemented with 225 sacks

5 1/2" - 1785' , cemented with 330 sacks

Tubing 2 3/8" - 1601' , set with Baker Model AD- packer

Perforated: 1653' - 1695' , existing perforations

Completed as a water input well, injecting 161 bbls. of water per day at 0 psi into the McClosky (1653'-1695').

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Permit Date:	11/12/1991	Permit #:	200726	Reference #:	143055
COMPANY	Marathon Oil Company				
FARM	Applegate, A. R. Tr.			NO.	EM-7
DATE DRILLED	December 9, 1991			COUNTY NO.	30240
AUTHORITY	Company				
ELEVATION	436' GL - Permit				
LOCATION	1320'N line, 1980'E line of NE				
COUNTY	Lawrence	API#	1210130240 01	Irr.	13-4N-13W

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Permit Date:	12/14/2017	Permit #:	65421	Reference #:	143055
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COMPANY	CDG Operations, LLC
FARM	Applegate, A. R. Tr.

NO.	EM-7
	WSW

DATE DRILLED**COUNTY NO.** 30240**AUTHORITY****ELEVATION** 436' GL - Permit**LOCATION** 1320'N line, 1980'E line of NE**COUNTY** Lawrence**API#** 1210130240 02**Irr.** 13-4N-13W