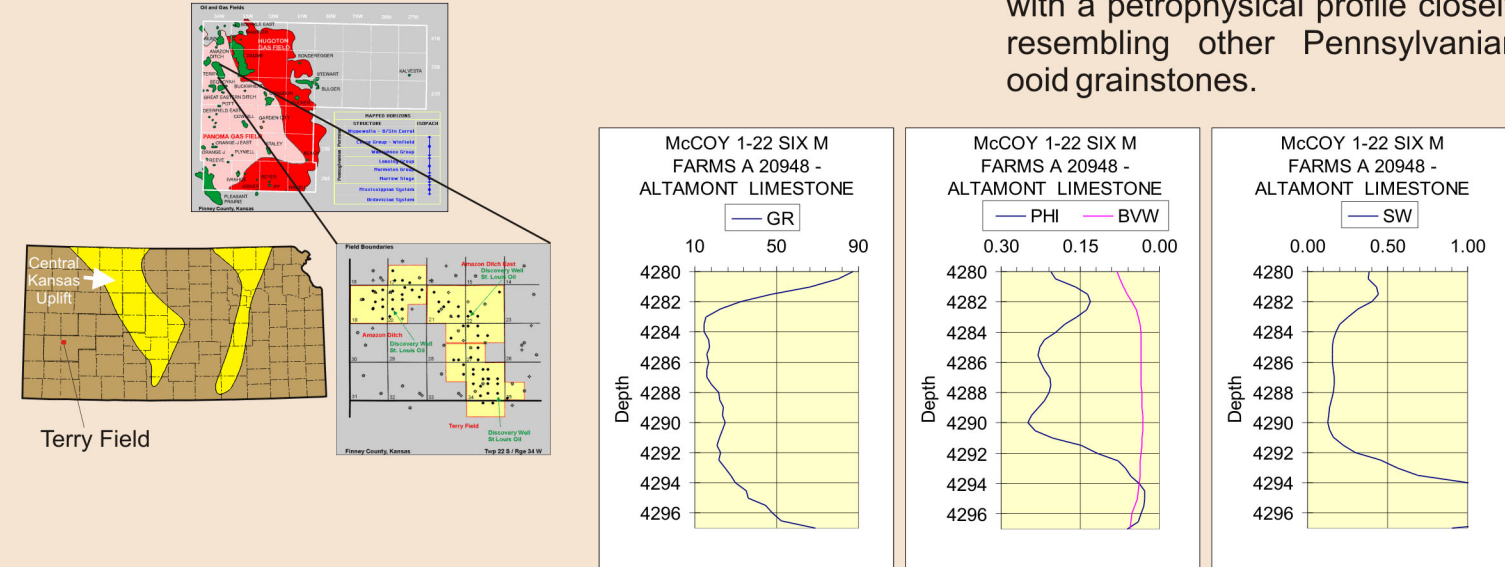
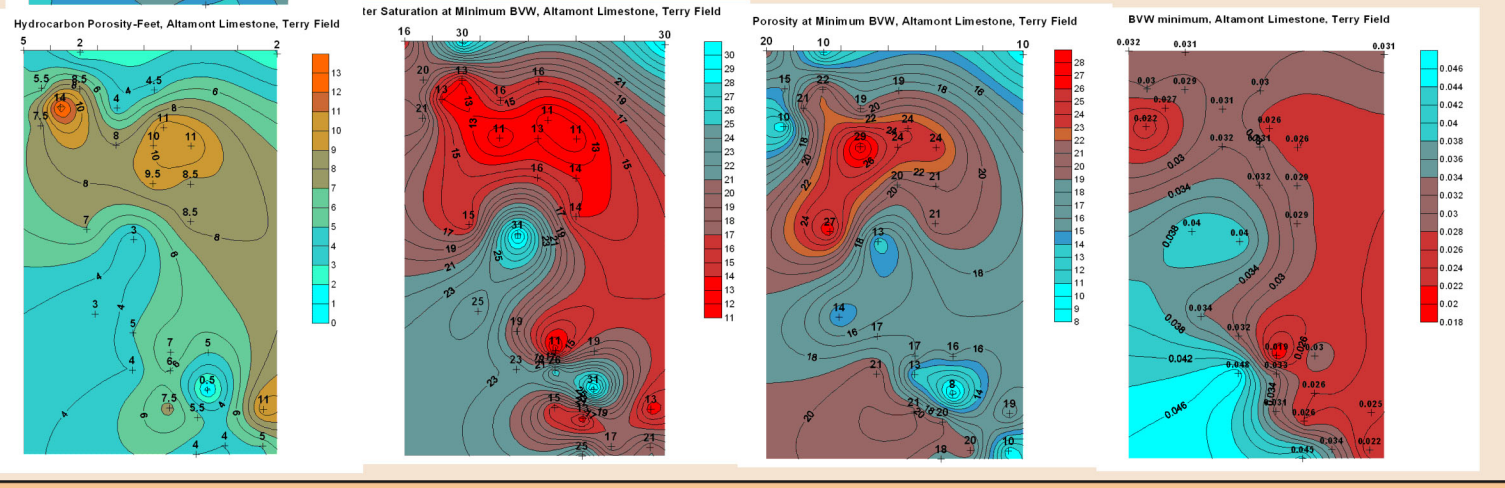
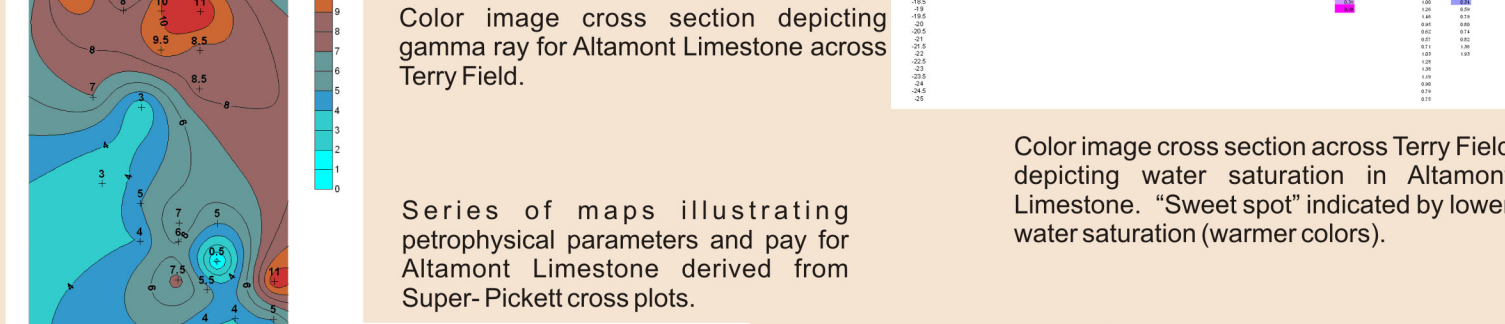
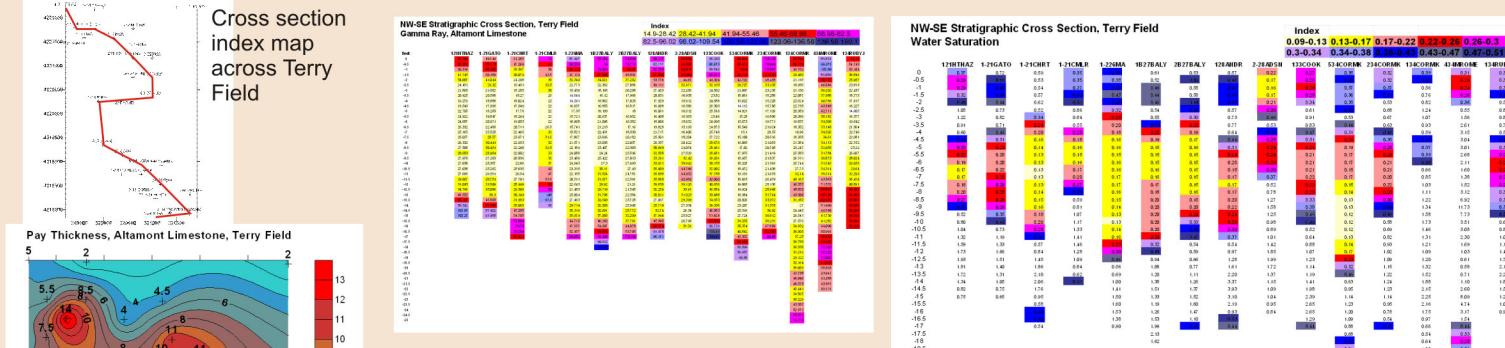
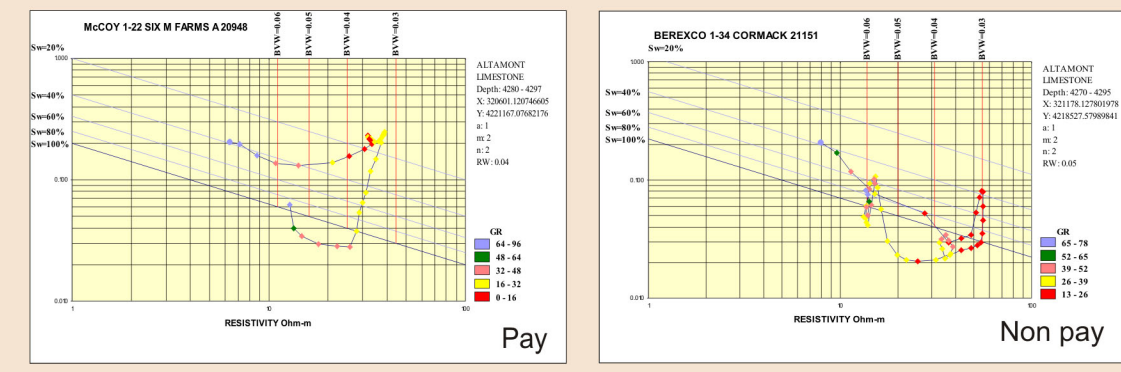


# Oolite Reservoirs - Terry Field

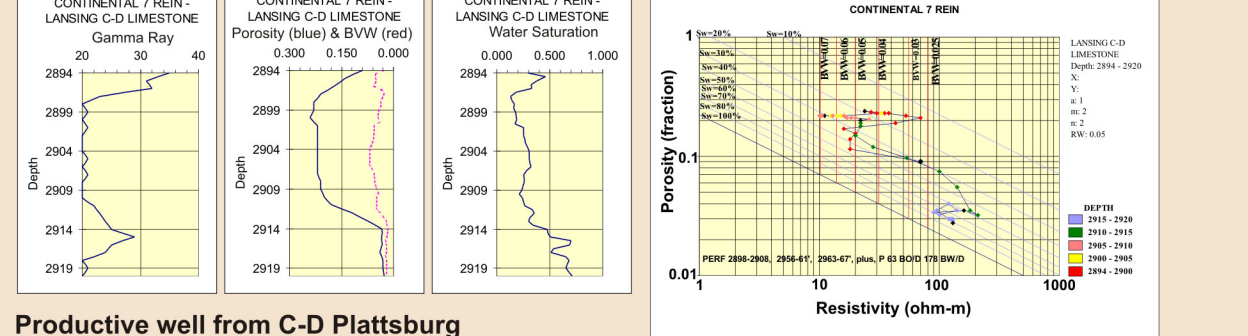
The Altamont Limestone contains a prolific oolitic grainstone reservoir with a petrophysical profile closely resembling other Pennsylvanian ooid grainstones.



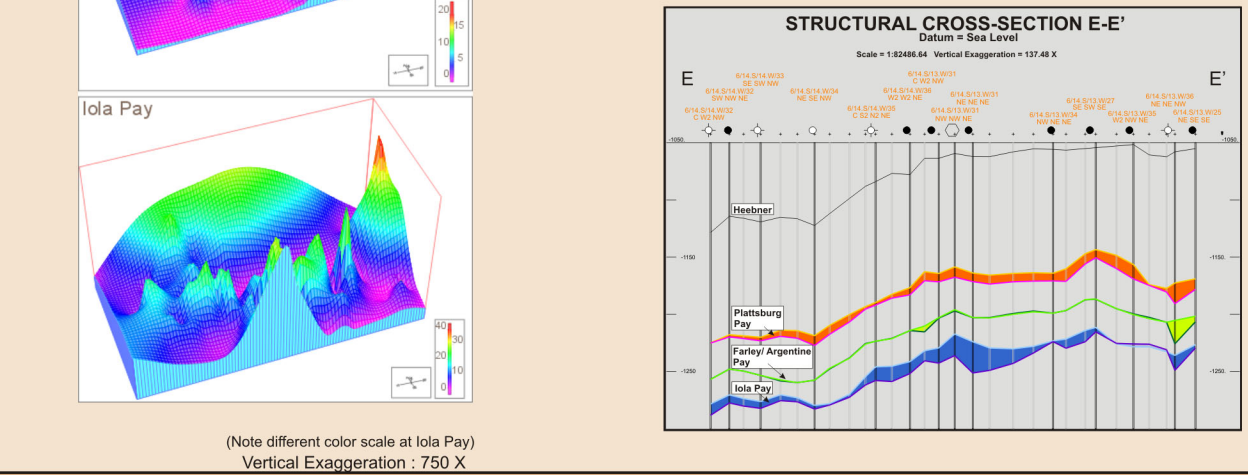
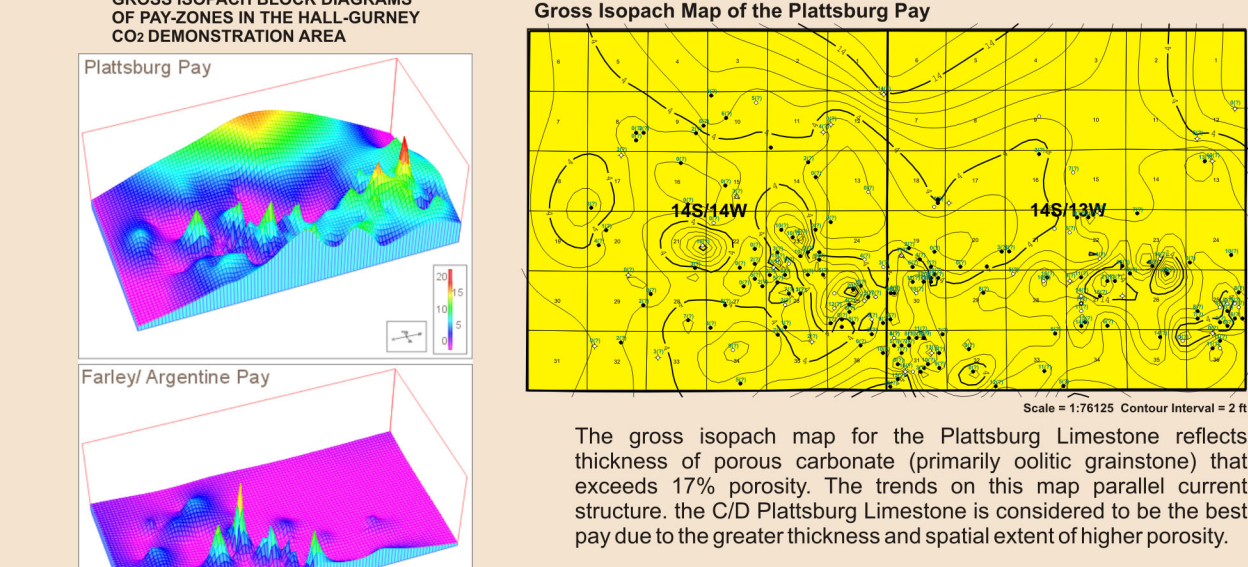
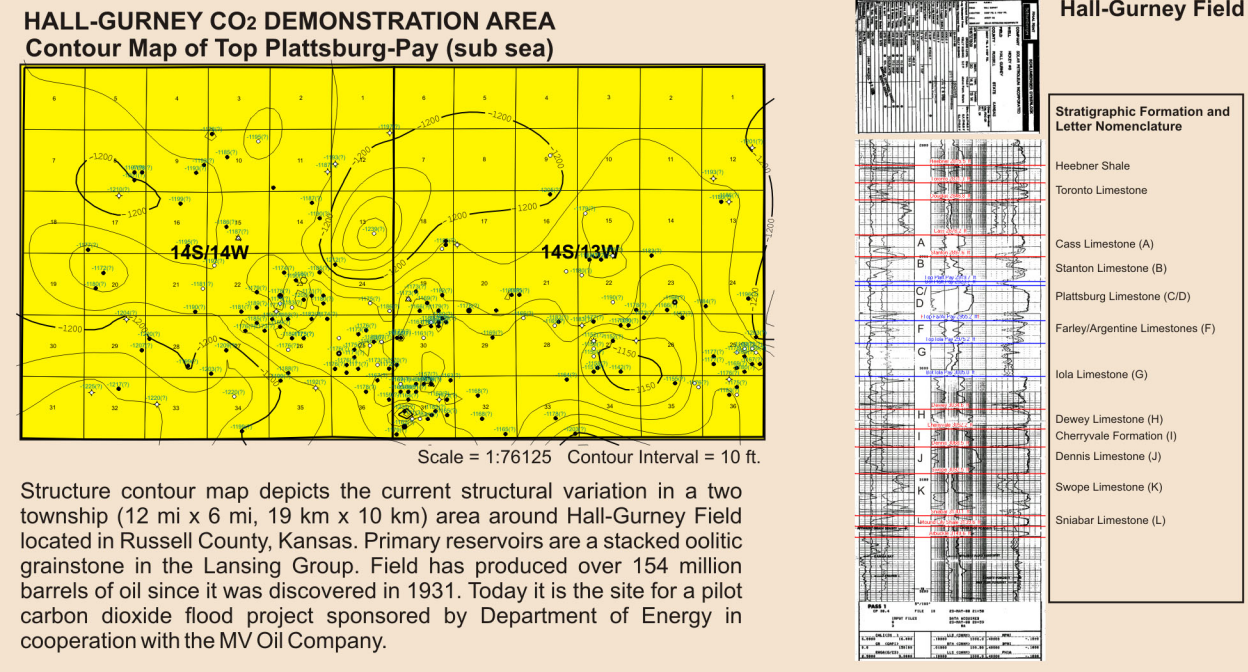
**Super Pickett Wireline Log Analysis**  
Super Pickett cross plots for a producing and nonproducing reservoir delineate pay cutoffs of 17% porosity and minimum BVW of pay is approximately .032. Corresponding parameters of water saturation and porosity were mapped below through selected maps in the field.



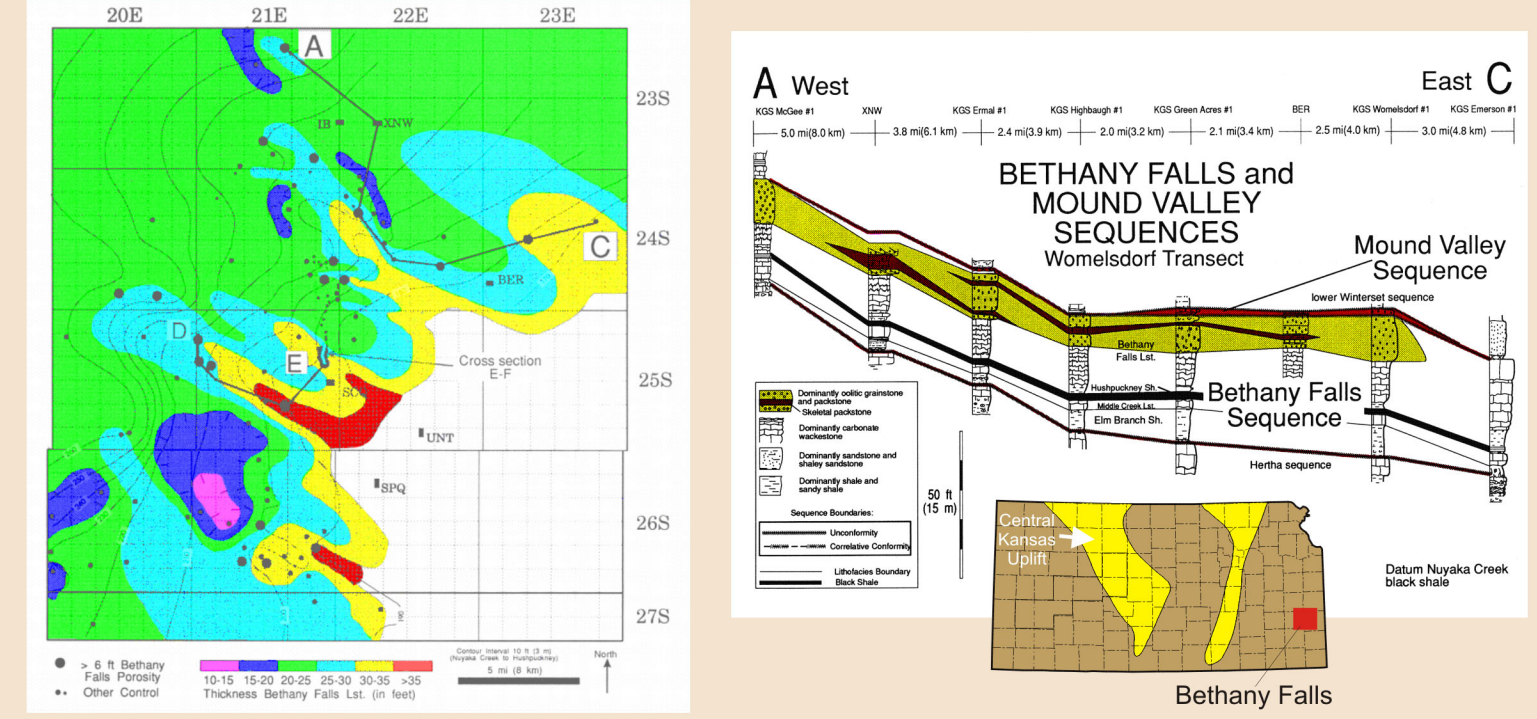
# Oolite Reservoirs - Hall-Gurney Field



Productive well from C-D Plattsburg Limestone in Hall-Gurney Field

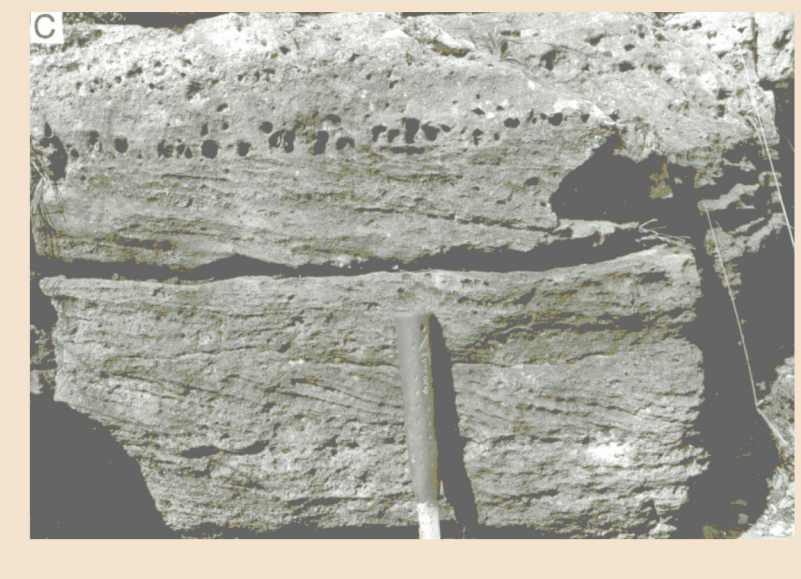


# Outcrop Analogs and Bedding Architecture



## Bedding Architecture in Outcrop and Near Surface

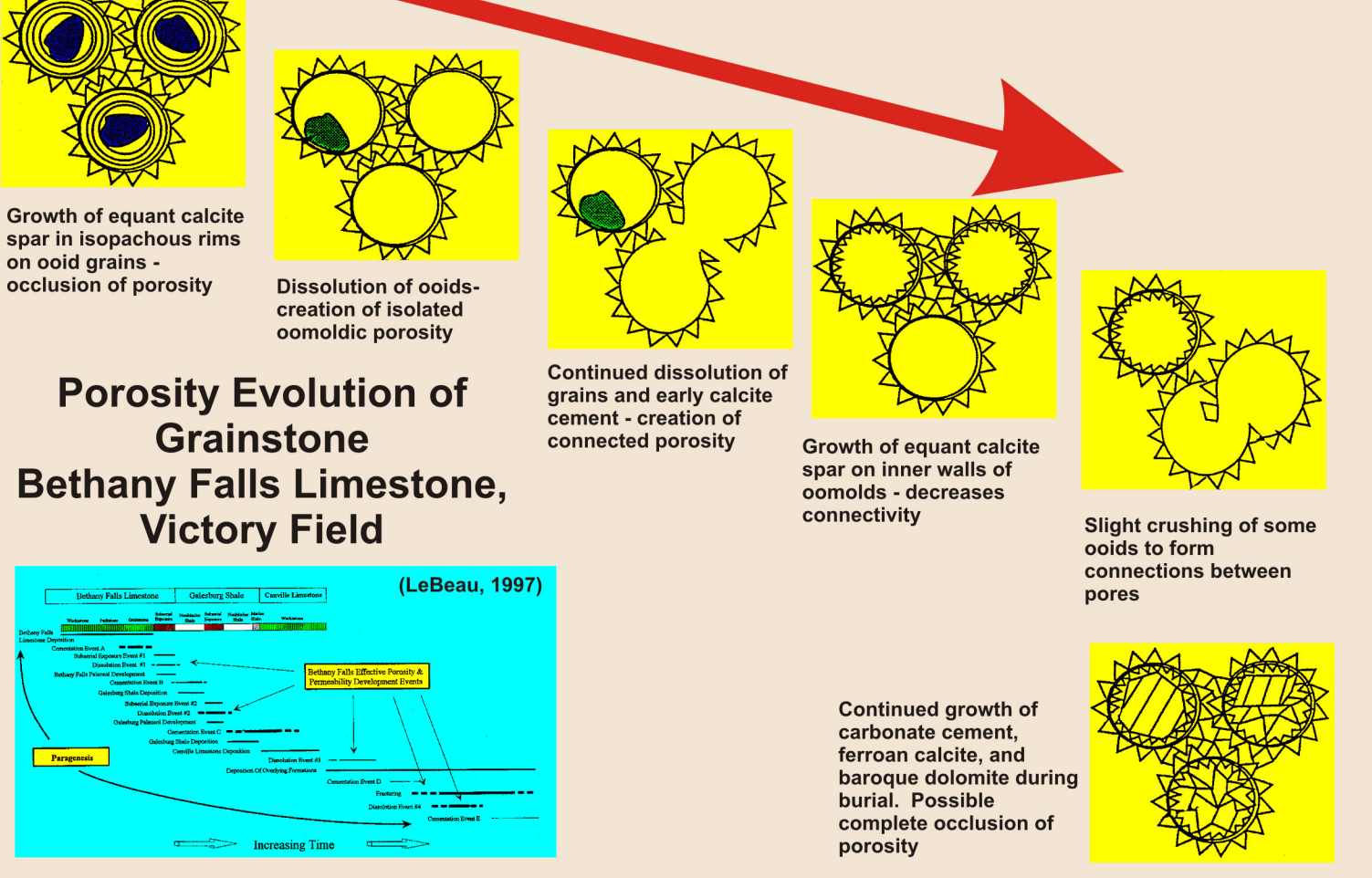
Surface exposures and shallow cores and wireline logs in eastern Kansas provide detailed view of the architectural elements comprising L-KC ooid grainstones. Ooid shoals accumulated as lobate deposits on ramped shelves (contours on map) usually delimited by buildup of the regressive limestones containing the ooid deposits (color patterns on map). A dip-oriented cross section (A-C) along the depositional slope (inferred from an isopach map of underlying deposits) shows an echelon lobes of oolite comprising the ooid body within the upper portion of the Bethany Falls Limestone. Lobes are delineated by tight skeletal packstones, potential baffles to fluid flow. A sample of the Bethany Falls Limestone from the outcrop illustrates oomoldic pores typifying pores developed in these rocks throughout the Kansas shelf (French and Watney, 1993).



Crossbedded oolitic grainstone facies of the Drum Limestone in Hartland Quarry at Independence, Kansas. Drum Limestone is over 75 ft thick (Feldman and Franseen, 1995).

Operator	Well No.	Well Name	Sec.	Ten.	Reg.	County
AMOCO	4-A-E	COLE	16	95	18W	ROOKS
CITIES SERVICE	5001	DORR UNIT W	16	95	18W	ROOKS
CITIES SERVICES	A-17W	ICHIMAN	12	155	14W	RUSSELL
EDWARDS	10	WV	10	10	10	10
EDWARDS	1	MANKIE B	16	185	10W	RICE
EDWARDS	2	GERBLE	16	185	10W	RICE
EDWARDS	1	POPPLE/REITER	17	185	10W	RICE
EDWARDS	1	SELLENS	30	155	12W	RUSSELL
N.C.R.A.	2	TREMBLY B	34	245	8W	RENO
PHILLIPS	1	HOFFMAN	21	145	12W	RUSSELL
RUPPE	1	VORPAT A	21	145	10W	ELLSWORTH
SHELL	1	A.C. GORDON	21	125	10W	RICE
SHELL	1	E.E. TOBIAS	6	155	9W	RICE
SHELL	1	H. RADER	11	155	11W	BARTON
SHELL	1	H. SCHENK A	10	155	9W	RICE
SHELL	1	HAFERMAN	6	155	9W	RICE
SHELL	1	L.J. MICHAELIS	30	155	12W	RUSSELL
SHELL	1	MICHAELIS	7	205	9W	RICE
SHELL	1	MICHAELIS	30	155	12W	RUSSELL
SHELL	1	PRETZ	14	195	11W	BARTON
SHELL	1	RADER	11	155	11W	BARTON
SHELL	1	M. SELLENS	30	155	12W	RUSSELL
SINCLAIR PRAIRIE	1	SELLENS	15	155	12W	RUSSELL
SINCLAIR	2	ERLICH	25	145	12W	RUSSELL
SPRINGER	1	OSBER SOUTH	30	165	11W	BARTON
TEKACO	1	FRANK PRINC	20	145	12W	RUSSELL
THEODORE GORE	1	BOXBERGER	20	145	14W	RUSSELL
THEODORE GORE	1	LURMAN	20	155	12W	RUSSELL
THEODORE GORE	1	THEOPHANN	20	215	12W	STAFFORD

# Paragenesis and Microscopic Textures



Oomoldic grainstone containing heavily neomorphosed cement with crystals terminations into oomolds and reduction of original oomold shape. Areas appear to be crushed on left side, preceding neomorphism. This section photomicrograph stained by alizerin-red. Eichtman A-17-W #7. Scale bar equals 0.5 mm. Plane polarized light.

Oomoldic grainstone containing heavily neomorphosed calcite cement. Cement has grown into original oomold pores reducing pore volume. Note that most of these pores are not filled with blue epoxy suggesting that these pores are not connected. Thin section photomicrograph stained with alizerin-red. Drews A-1. 3147 ft. Scale bar equals 0.5 mm. Plane polarized light.

Oomoldic grainstone with considerable number of oomolds filled by blue-dye epoxy. Broken oomolds with small connections between oomolds seen in this plane of view. Also, fine cement shards appear to form geopetal fabric. Other cement shards have collected along other positions on walls of oomolds. Thin section photomicrograph stained with alizerin-red. Shell Hafferman A. 2955.5 ft. Scale bar equals 0.5 mm. Plane polarized light.

Oomoldic grainstone with oomolds that contain solution-altered micritized ooid cortices as seen in the center of this photo. Other ooids are filled with coarse dolospar. Drusy calcite spar fills pore space. Oomoldic pores are filled with blue epoxy. Thin section photomicrograph stained with alizerin-red. Rebecca Bounds 4402 ft. Scale bar equals 0.25 mm. Plane polarized light.

Neomorphosed crinoidal ooid grainstone containing localized small fractures, crushed areas, and small solution vug, all containing blue epoxy. Thin section photomicrograph stained with alizerin-red. Shell Hafferman A. 2955.5 ft. Scale bar equals 0.5 mm. Plane polarized light.