Comparison of a Portion of the K/Pg Boundary Deposits in Two Locations: Webb County, Texas, and LaSalle Parish, Louisiana

Gary L. Kinsland[1] and John W. Snedden[2]

[1]Department of Geology, School of Geosciences, University of Louisiana at Lafayette, P.O. Box 43605, Lafayette, Louisiana 70504

[2]Institute for Geophysics, University of Texas at Austin, 10100 Burnet Rd. (R2200), J. J. Pickle Research Campus, Bldg. 196 (ROC), Austin, Texas 78758

GCAGS Explore & Discover Article #00071*
http://www.gcags.org/exploreanddiscover/2016/00071_kinsland_and_snedden.pdf
Posted September 13, 2016.

*Article based on an extended abstract published in the *GCAGS Transactions* (see footnote reference below), which is available as part of the entire 2016 *GCAGS Transactions* volume via the GCAGS Bookstore at the Bureau of Economic Geology (www.beg.utexas.edu) or as an individual document via AAPG Datapages, Inc. (www.datapages.com), and delivered as a poster presentation at the 66th Annual GCAGS Convention and 63rd Annual GCSSEPM Meeting in Corpus Christi, Texas, September 18–20, 2016.

EXTENDED ABSTRACT

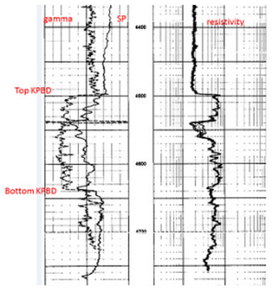
The Chicxulub Crater on the Yucatan Peninsula of Mexico resulted from impact of a bolide at about 65.5 Ma (Pope et al. 1991; Hildebrand et al., 1991), ending the Cretaceous and leading to an impact generated worldwide deposit. Sanford et al. (2016) documented the extend and volume of this impact generated deposit in the Gulf of Mexico Basin by utilizing over 210,000 km of 2D seismic data, about 9000 square km of 3D seismic data and 408 wells that penetrate the Cretaceous. They demonstrated that the Cretaceous-Paleogene boundary deposit (KPBD) within the Gulf of Mexico varies markedly with distance from the center of the crater and with topography/bathymetry of the site of deposition.

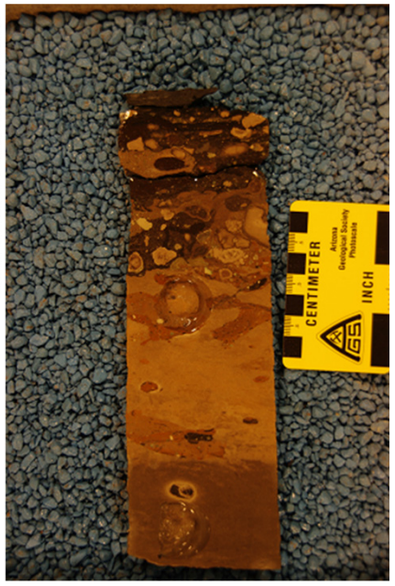
We present preliminary analyses of lithologies and sedimentary structures of the latest Cretaceous and earliest Paleocene strata in cored sections of two wells in the Gulf of Mexico basin margin rim: (1) Murexco A–1 Leyendecker well, Tom Walsh Field, Webb Co., Texas (Fig. 1) and (2) Louisiana Central IPNH No. 2 well, LaSalle Parish, Louisiana (Fig. 2). These cores provide insights into the far-field effects of the Chicxulub bolide impact at the Yucatan Peninsula, about 1200 km away (Fig. 3).

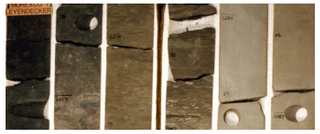
…

Originally published as: Kinsland, G. L., and J. W. Snedden, 2016, Comparison of a portion of the K/Pg boundary deposits in two locations: Webb County, Texas, and LaSalle Parish, Louisiana: Gulf Coast Association of Geological Societies Transactions, v. 66, p. 789–797.

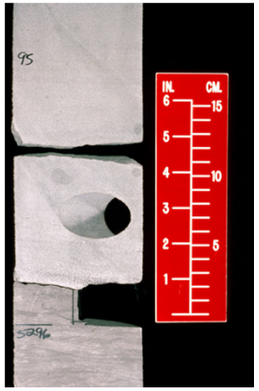

MNI
Justiss Oil Company, Inc.
LA Central IPNH No.2 Well - Olla Field
LaSalle Parish, Louisiana
NO-36659
CORE 1
4490
4493
4496
4499
4502
4505


gamma
SP
resistivity
Top KPBD
Bottom KPBD


CENTIMETER
INCH
Arizona
Geological Survey
Phoenicia




5286
CM
IN


95
IN.
CM.
5296