


United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of: CROW BUTTE RESOURCES, INC. (License Renewal for the In Situ Leach Facility, Crawford, Nebraska)	
	ASLBP #: 08-867-02-OLA-BD01
	Docket #: 04008943
	Exhibit #: NRC-023-00-BD01
	Admitted: 8/18/2015
	Rejected:
	Identified: 8/18/2015
	Withdrawn:
	Stricken:
	Other:

NRC-023
Submitted: 5/8/2015

UNITED STATES DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

Distribution of the basal clastic unit of the Oligocene
Chadron Formation in the Alliance 2-degree quadrangle,
northwestern Nebraska

K. A. Dickinson

U. S. GEOLOGICAL SURVEY
OPEN-FILE REPORT 90-416

This report is preliminary and has not been reviewed for
conformity with Geological Survey standards and nomenclature

METHODS

The study is based mostly on electric log analysis. A thickness map and three lines of bore-hole sections (figs. 1-4) were prepared from electric log data. Table 1 lists the names and locations of boreholes used in the sections. No rock samples were available for study. Thickness differences between the contoured data in Townships 29 North and northward on figure 1 and those shown on the cross section in figure 2 resulted from the different data sources (Figs. 1-2) and could not be rectified.

STRATIGRAPHY

In the Alliance quadrangle the basal clastic unit was deposited primarily in a major fluvial belt, about 10 to 20 miles wide that extends eastward in Nebraska from the Wyoming-Nebraska line through north-central Sioux County and southeastward through southwest Daves and Box Butte Counties. Another ancestral fluvial belt containing the Chadron sandstone crosses the southwest corner of the Alliance quadrangle and two isolated areas of the basal clastic unit are found west of the main fluvial belt in the western part of the quadrangle. These isolated occurrences

