
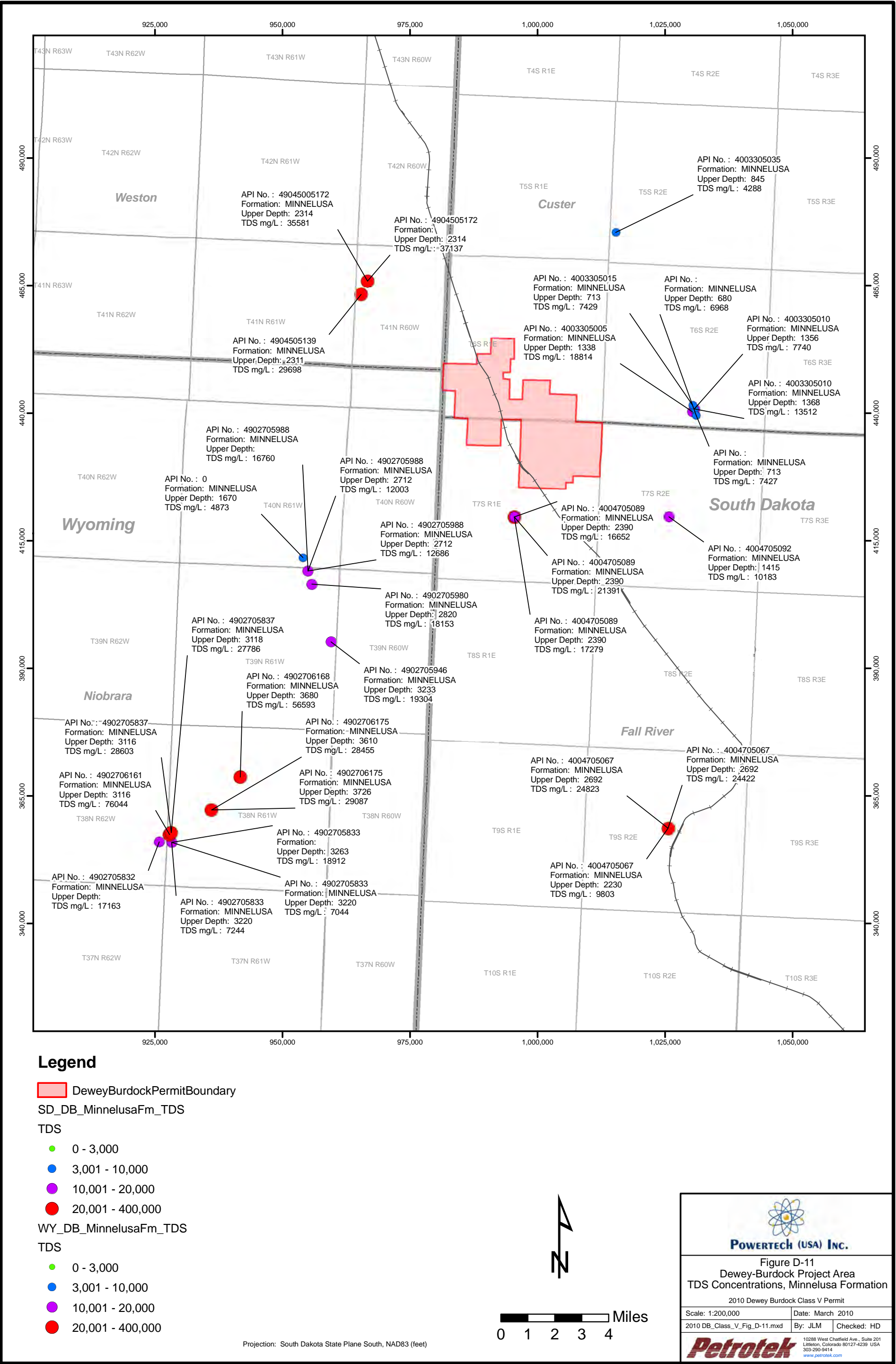
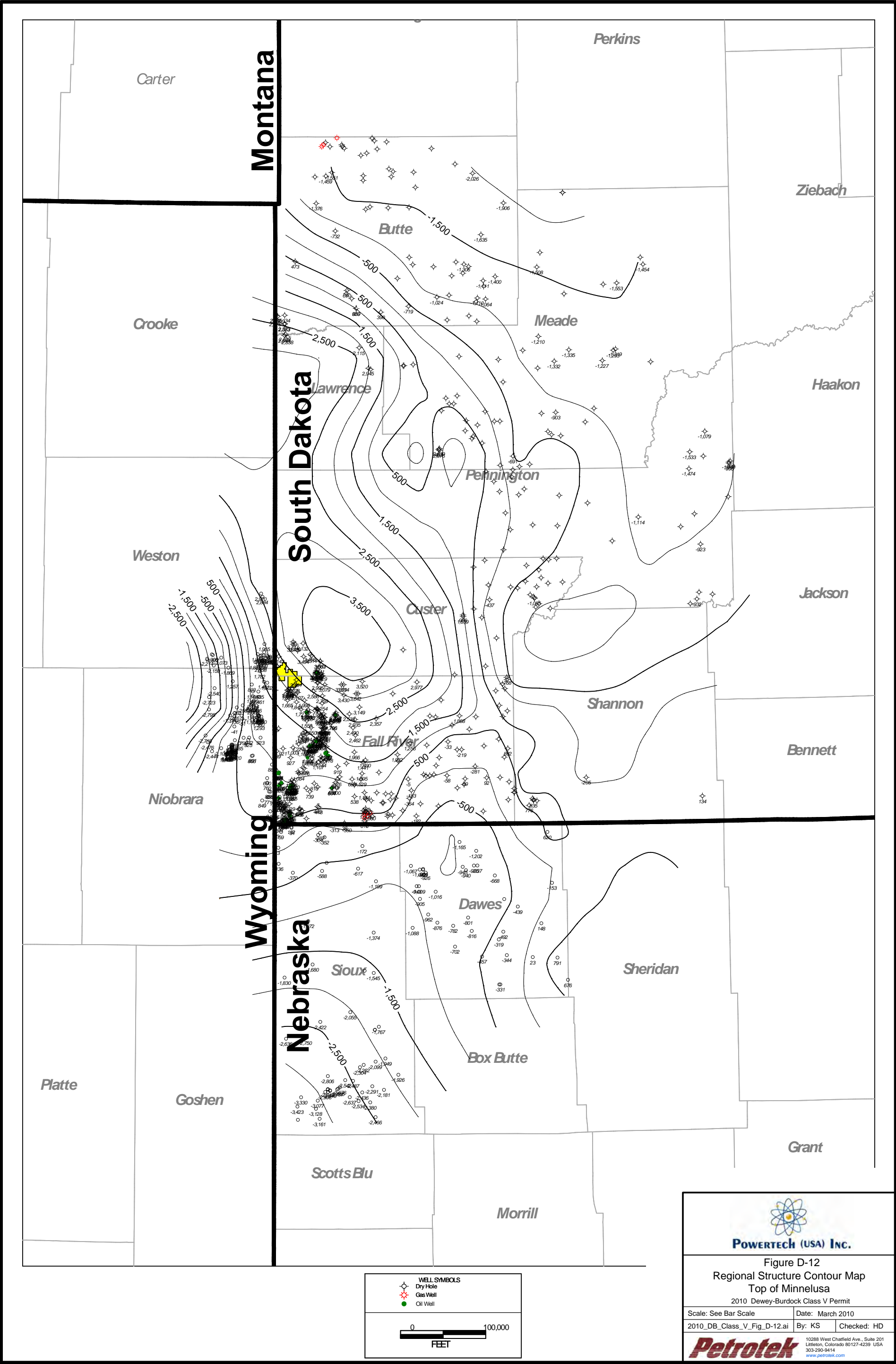



United States Nuclear Regulatory Commission Official Hearing Exhibit																									
In the Matter of: POWERTECH USA, INC. (Dewey-Burdock In Situ Uranium Recovery Facility)																									
	<table><tr><td>ASLBP #:</td><td>10-898-02-MLA-BD01</td><td>Identified:</td><td>8/19/2014</td></tr><tr><td>Docket #:</td><td>04009075</td><td>Withdrawn:</td><td></td></tr><tr><td>Exhibit #:</td><td>APP-016-U-00-BD01</td><td>Stricken:</td><td></td></tr><tr><td>Admitted:</td><td>8/19/2014</td><td></td><td></td></tr><tr><td>Rejected:</td><td></td><td></td><td></td></tr><tr><td>Other:</td><td></td><td></td><td></td></tr></table>	ASLBP #:	10-898-02-MLA-BD01	Identified:	8/19/2014	Docket #:	04009075	Withdrawn:		Exhibit #:	APP-016-U-00-BD01	Stricken:		Admitted:	8/19/2014			Rejected:				Other:			
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Other:																									








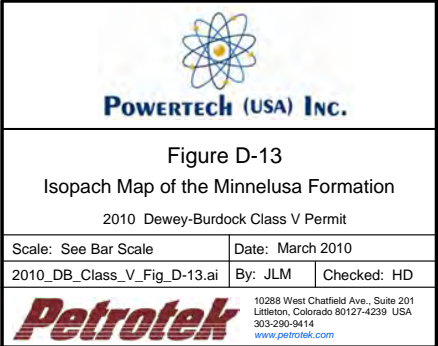
POWERTECH (USA) INC.

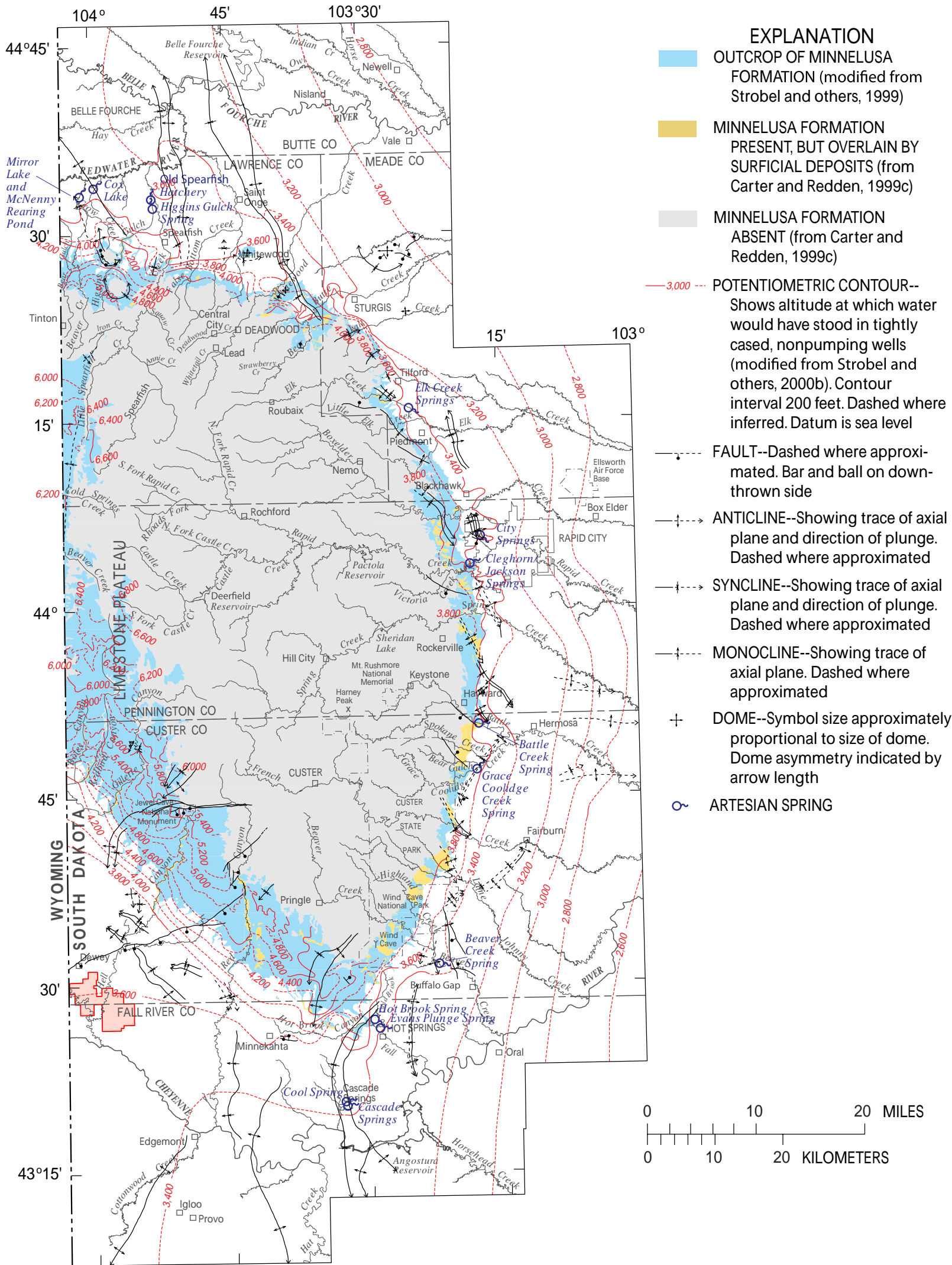
Figure D-12
Regional Structure Contour Map
Top of Minnelusa
2010 Dewey-Burdock Class V Permit

Scale: See Bar Scale	Date: March 2010
2010_DB_Class_V_Fig_D-12.ai	By: KS Checked: HD



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Base modified from U.S. Geological Survey digital data,
1:100,000, 1977, 1979, 1981, 1983, 1985
Rapid City, Office of City Engineer map, 1:18,000, 1996
Universal Transverse Mercator projection, zone 13

Legend

Dewey-Burdock Permit Boundary

From:
Water-Resources Investigations Report 02-4094
(modified by Driscoll et al., 2002)

EXPLANATION

- OUTCROP OF MINNELUSA FORMATION (modified from Strobel and others, 1999)
- MINNELUSA FORMATION PRESENT, BUT OVERLAIN BY SURFICIAL DEPOSITS (from Carter and Redden, 1999c)
- MINNELUSA FORMATION ABSENT (from Carter and Redden, 1999c)
- POTENTIOMETRIC CONTOUR-- Shows altitude at which water would have stood in tightly cased, nonpumping wells (modified from Strobel and others, 2000b). Contour interval 200 feet. Dashed where inferred. Datum is sea level
- FAULT--Dashed where approximated. Bar and ball on down-thrown side
- ANTICLINE--Showing trace of axial plane and direction of plunge. Dashed where approximated
- SYNCLINE--Showing trace of axial plane and direction of plunge. Dashed where approximated
- MONOCLINE--Showing trace of axial plane. Dashed where approximated
- DOMES--Symbol size approximately proportional to size of dome. Dome asymmetry indicated by arrow length
- ARTESIAN SPRING

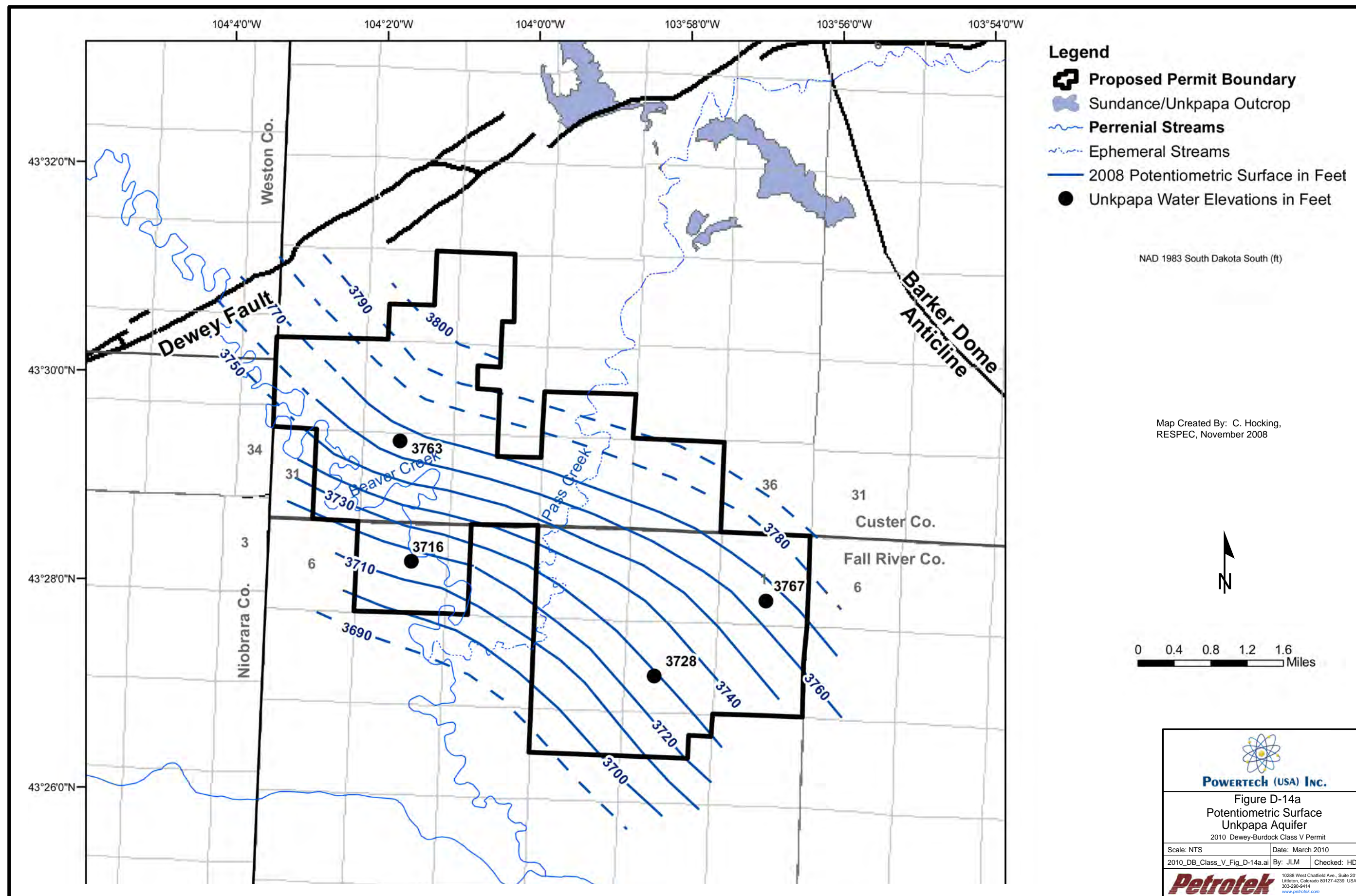


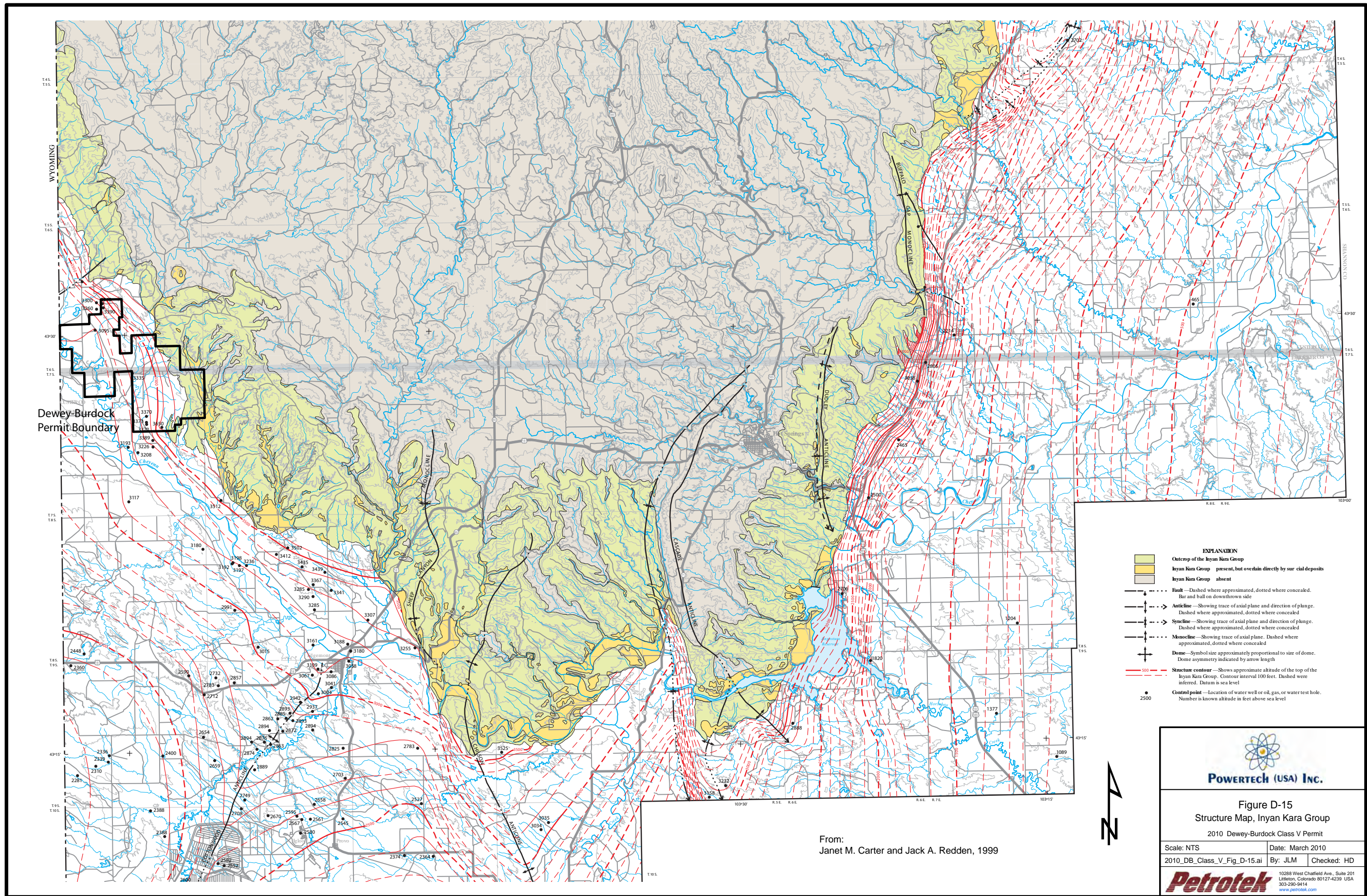
Figure D-14
Potentiometric Surface of the Minnelusa Formation
and Locations of Major Artesian Springs
2010 Dewey-Burdock Class V Permit

Scale: See Bar Scale Date: March 2010
2010_DB_Class_V_Fig_D-14.ai By: JLM Checked: HD

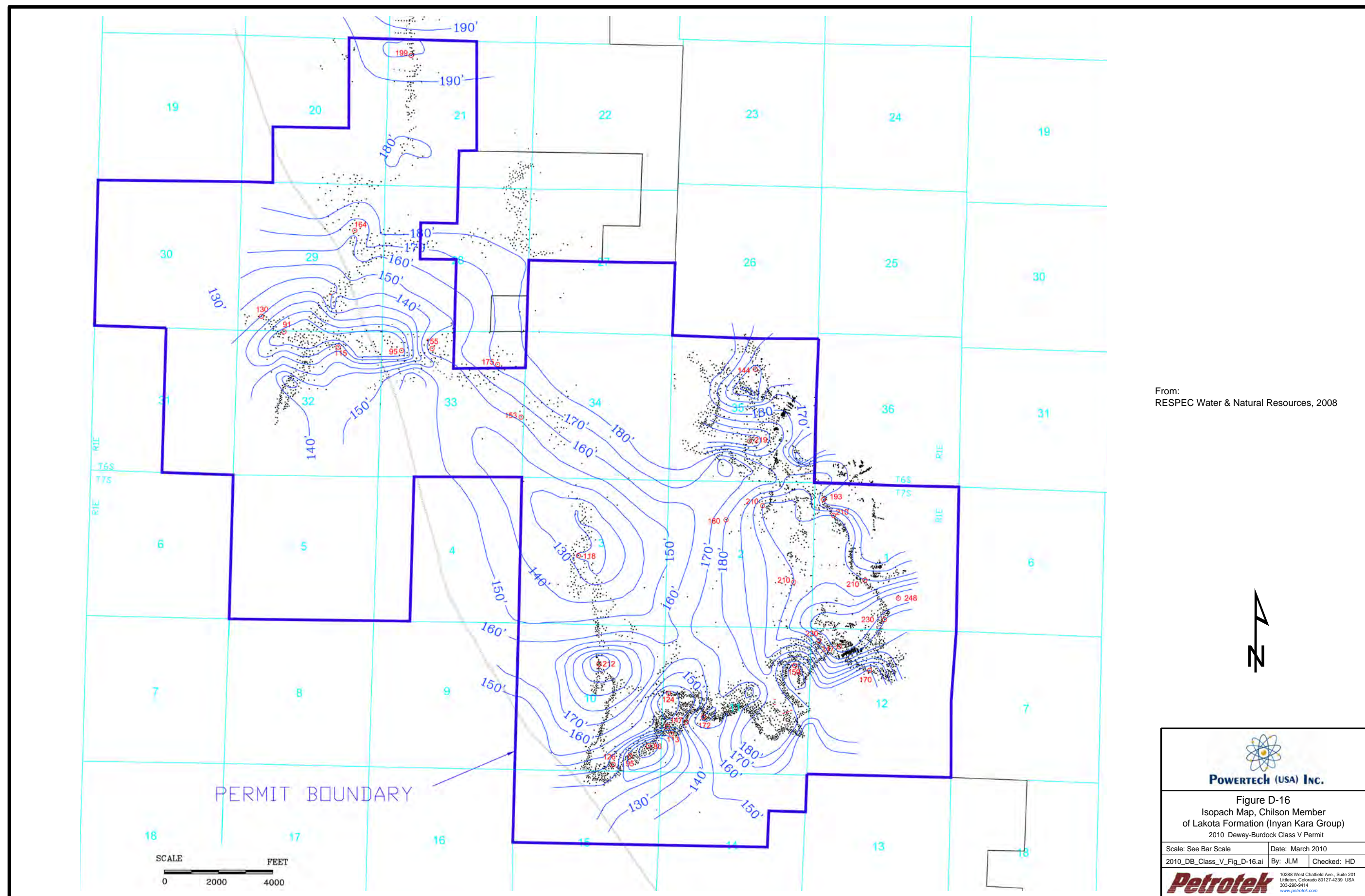


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From:
Janet M. Carter and Jack A. Redden, 1999



From:
RESPEC Water & Natural Resources, 2008





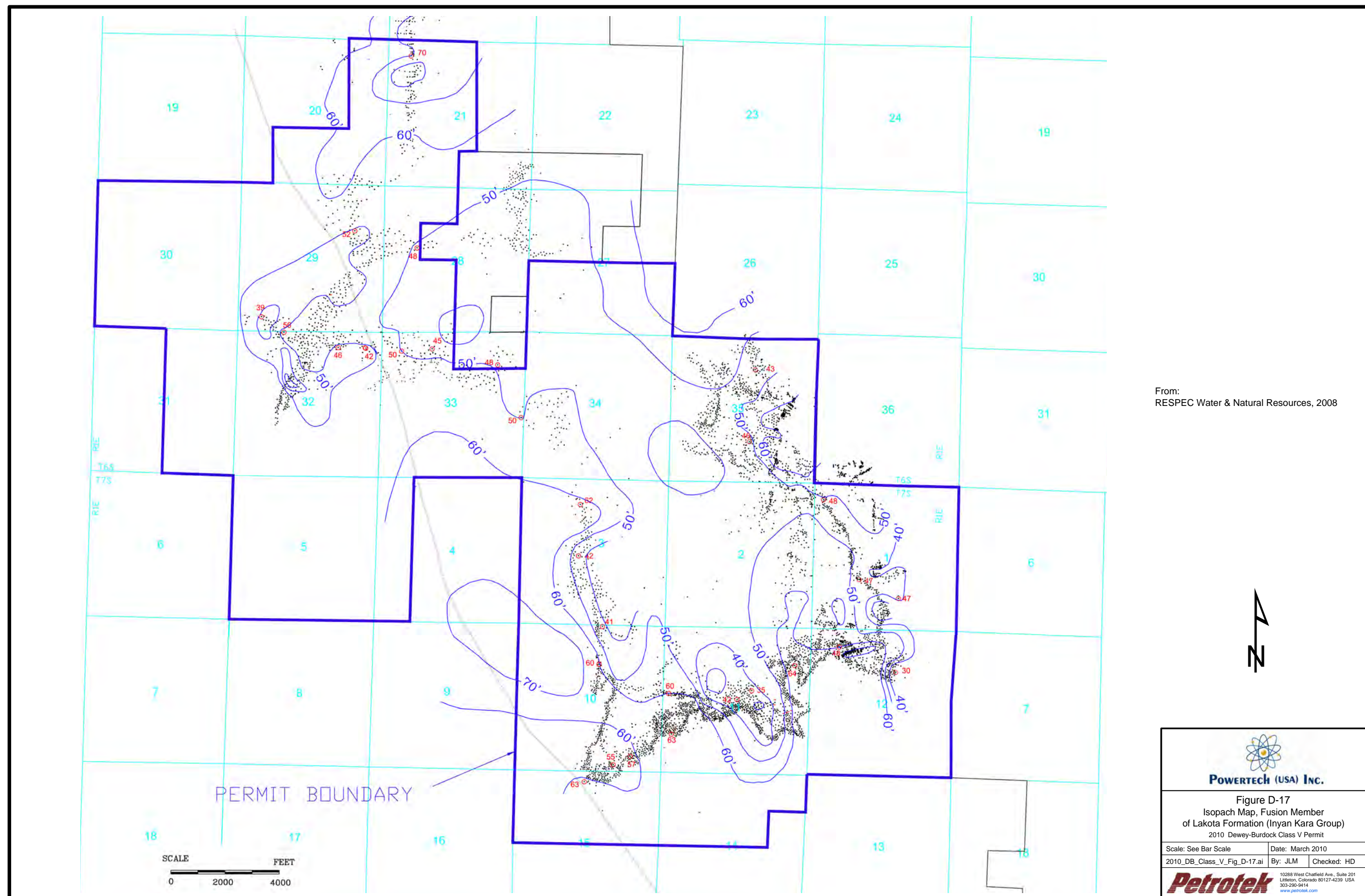
POWERTECH (USA) INC.

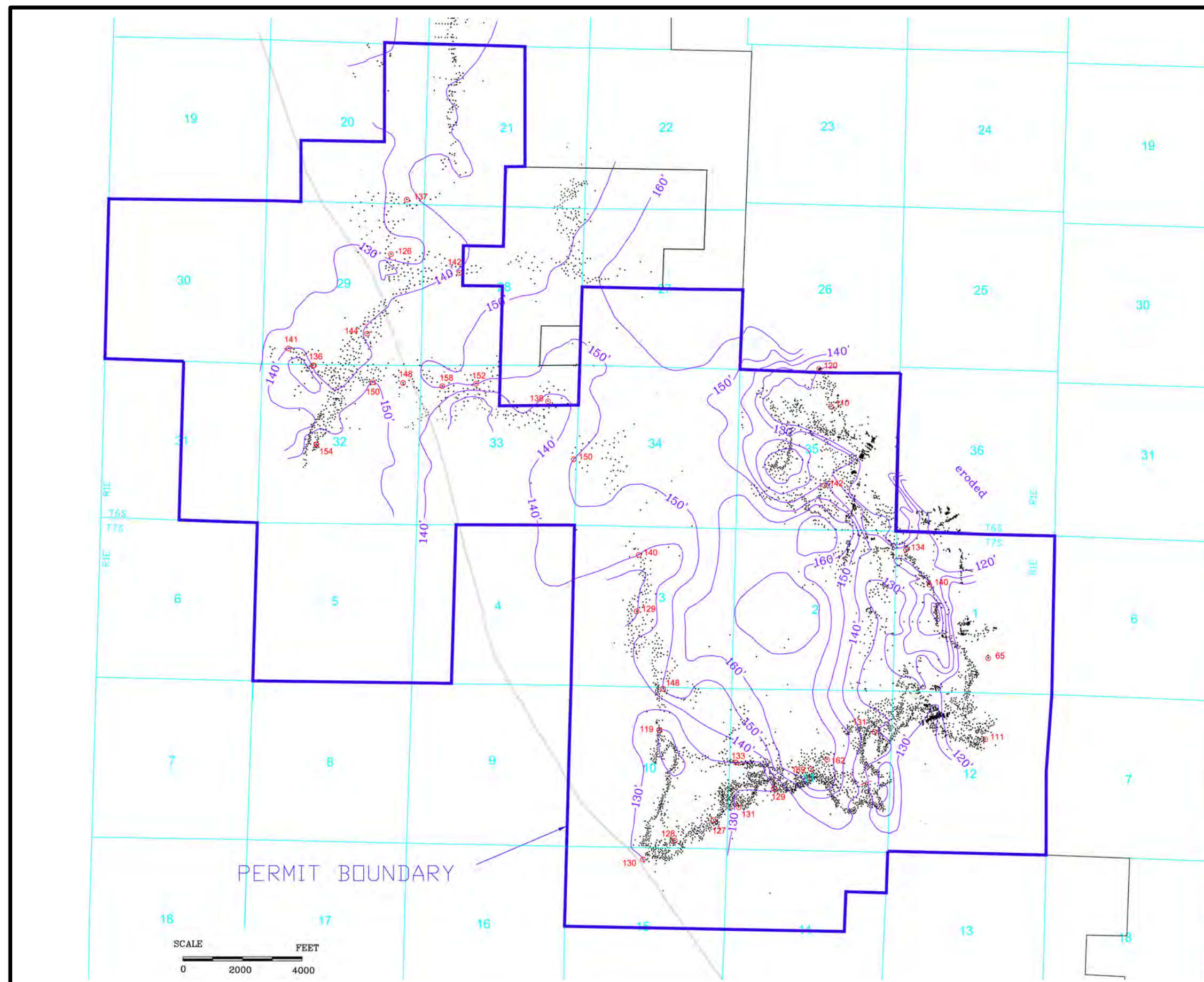
Figure D-16
Isopach Map, Chilson Member
of Lakota Formation (Inyan Kara Group)
2010 Dewey-Burdock Class V Permit

Scale: See Bar Scale	Date: March 2010
2010_DB_Class_V_Fig_D-16.ai	By: JLM Checked: HD



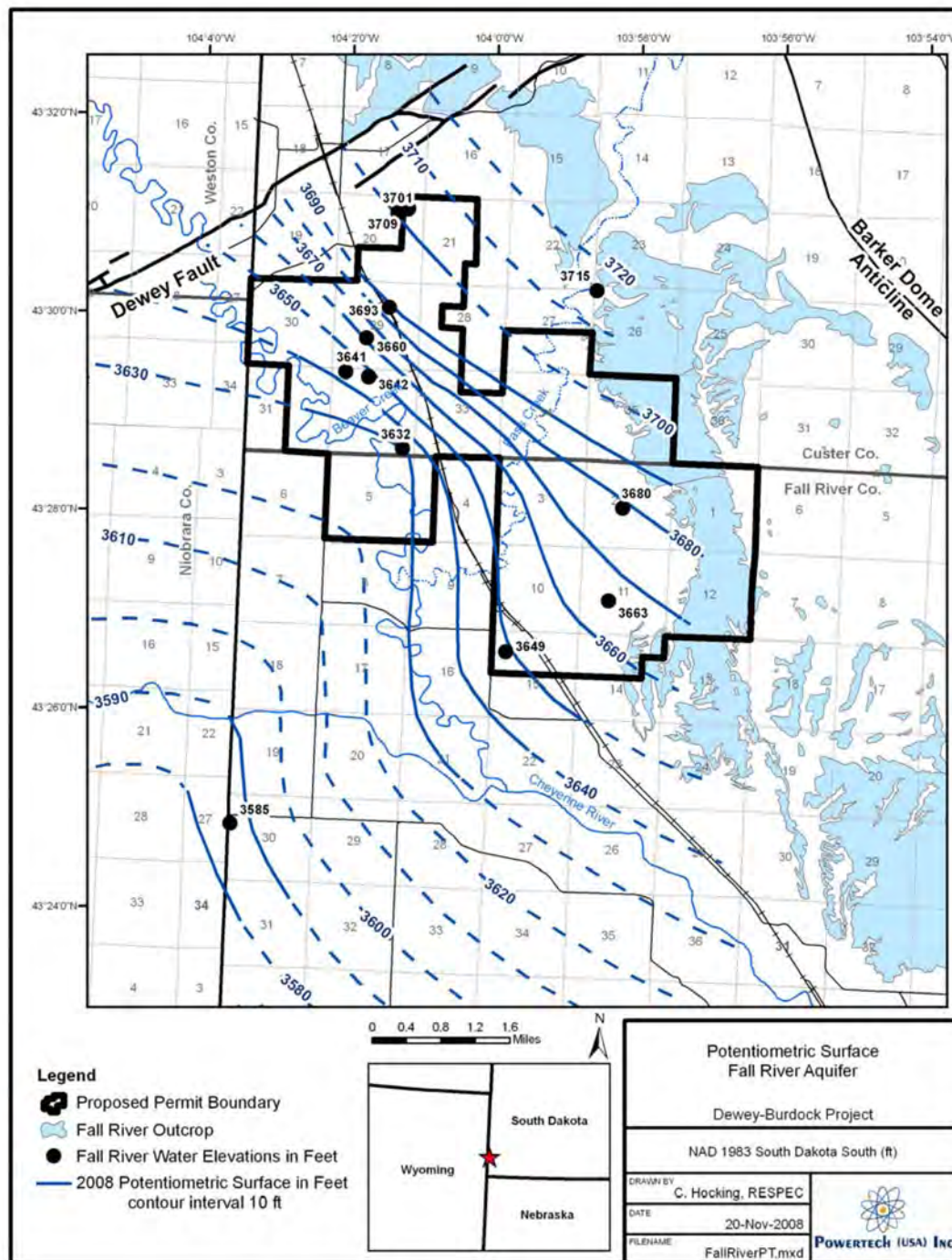
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From:
RESPEC Water & Natural Resources, 2008





Note: Potentiometric surface based on average water level values at the project site. Contours are dashed where approximate.

Source:
2009 NRC Application
Powertech (USA) Inc.
Figure 2.7-14
RESPEC Data



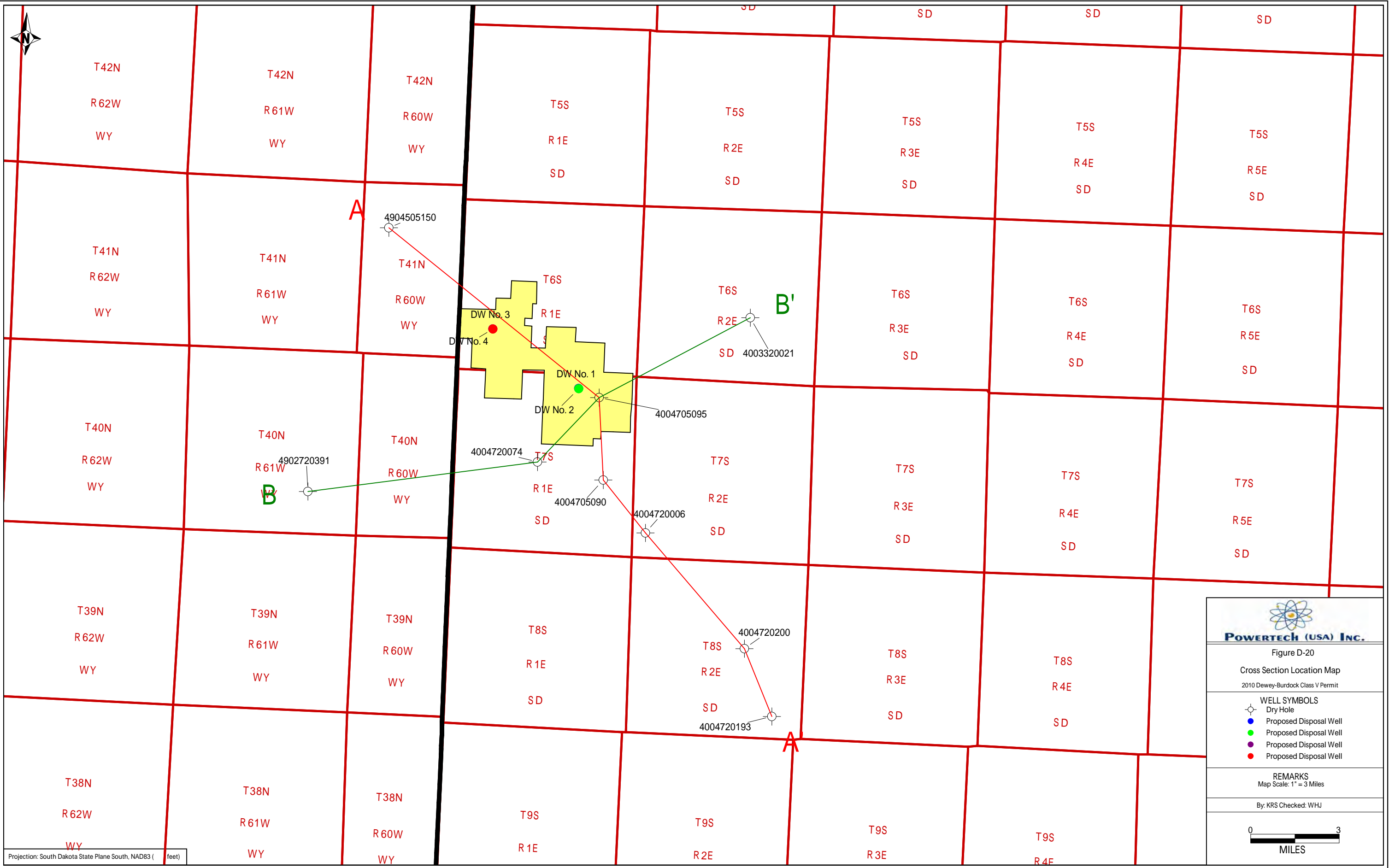
POWERTECH (USA) INC.

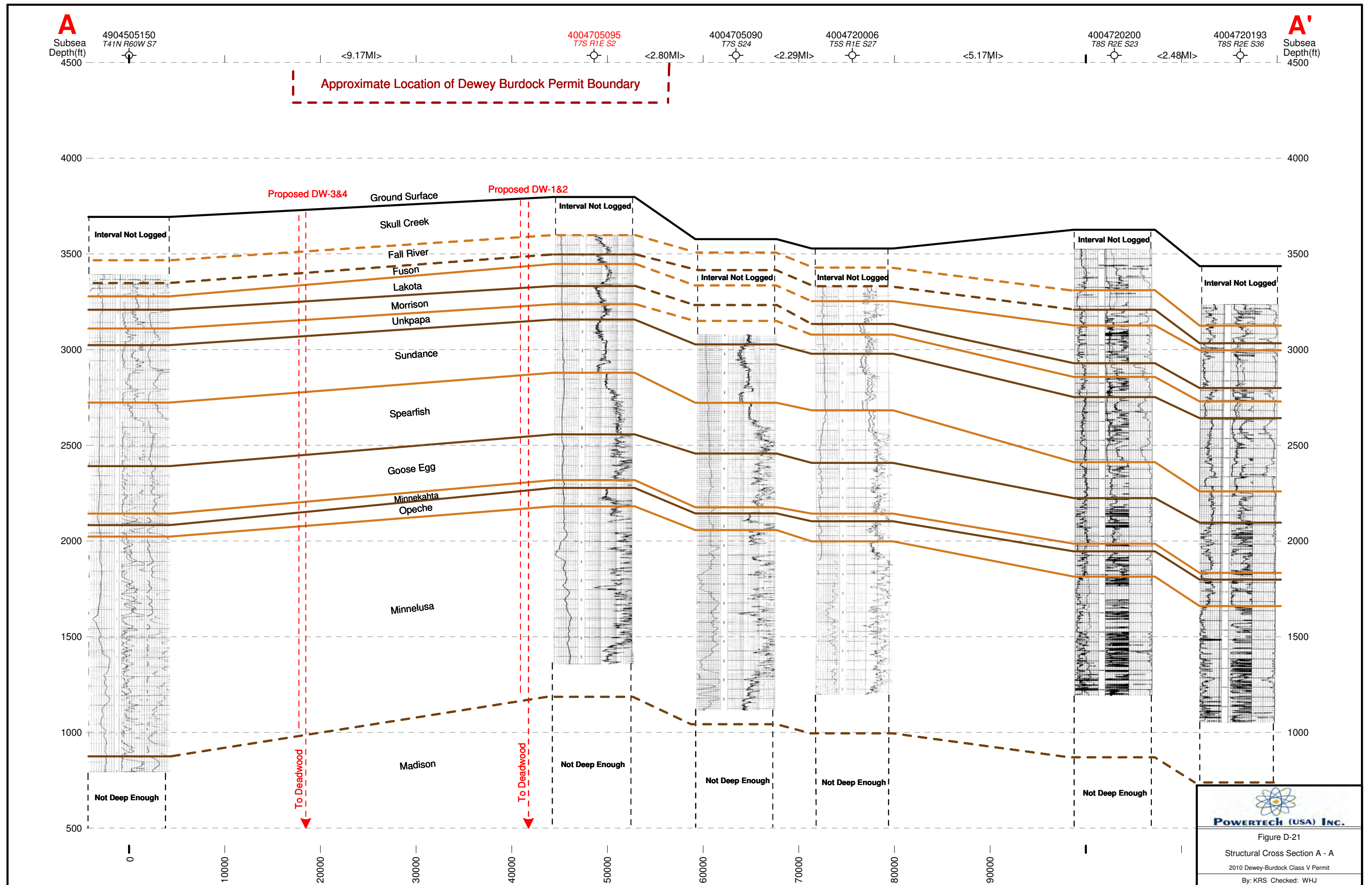
Figure D-19
Potentiometric Surface Inyan Kara Group
(aka Fall River Aquifer)
2010 Dewey-Burdock Class V Permit

Scale: See Bar Scale	Date: March 2010
2010_DB_Class_V_Fig_D-19.ai	By: JLM Checked: HD



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2.E NAME AND DEPTH OF USDWs

For Class II Wells (Not Applicable to this Application)