

2.B MAPS OF WELLS IN AREA AND AREA OF REVIEW

Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well(s) or project area for which a permit is sought and the applicable area of review. The map must show all intake and discharge structures and all hazardous waste, treatment, storage, or disposal facilities. If the application is for an area permit, the map should show the distribution manifold (if applicable) applying injection fluid to all wells in the area, including all system monitoring points. Within the area of review, the map must show the following:

The number, or name, and location of all producing well, injection well, abandoned well, dry holes, surface bodies of water, springs, mines (surface and subsurface), quarries, and other pertinent surface features, including residences and roads, and faults, if known or suspected. In addition, the map must identify those well, springs, other surface water bodies, and drinking water wells located within one-quarter mile of the facility property boundary. Only information of public record is required to be included on this map.

RESPONSE

Maps based on available public records have been prepared and submitted in this Response as summaries of the required data.

Topographic Map

A copy of the USGS Topographic map available with the outline of the Dewey-Burdock Project boundary superimposed on the map is included as Figure B-1. In addition, the map shows the location of all known surface bodies of water, springs, mines, quarries, residencies and roads.

Artificial Penetrations

There are two artificial penetrations identified in the areas of review surrounding Site 1 and one in the areas of review surrounding Site 2. Figures B-2 and B-2a show the artificial penetrations within the AORs for DW Nos. 1 through 4 for the Minnelusa and the Deadwood, respectively.

Figure B-2b, a map generated using regional data provided by the state of South Dakota, shows the Proposed Class V permit area, the location of the required AORs for four of the proposed Dewey-Burdock Disposal Wells, and the locations of surrounding oil and gas wells. Figure B-2c presents the location of all known water wells within the proposed Class V permit area.

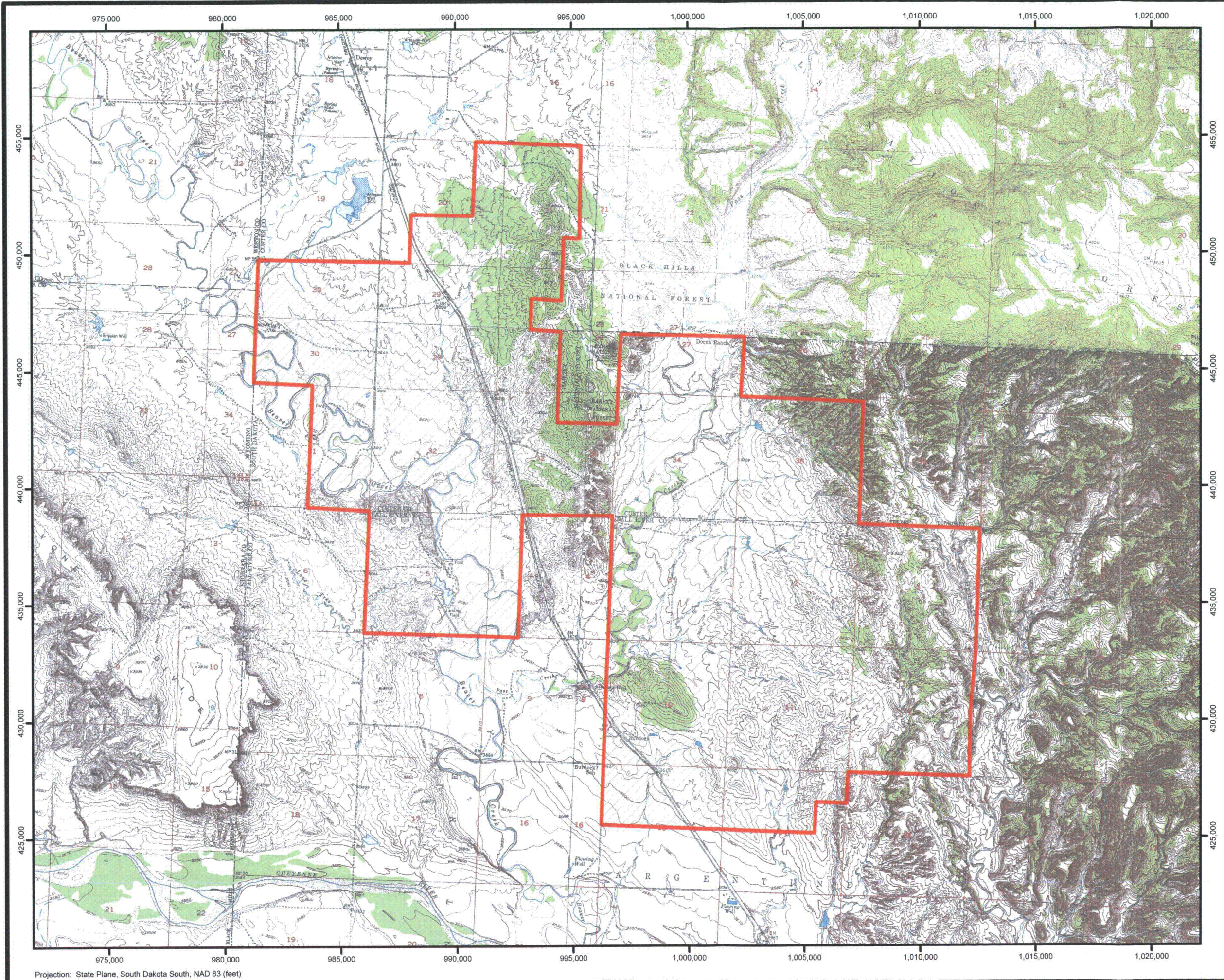
Table C-1 is a tabulation of the known water wells located within the Class V permit area. The deepest formation penetrated by any of these wells is the Unkpapa/Sundance. Due to the absence of wells within the Class V permit area that penetrate the injection zones, there is little potential for causing any endangerment to a USDW.

Table C-2 is a tabulation of the three oil and gas wells permitted within the Dewey-Burdock Project area. The plugging records for these well are included as Appendix B. According to the records obtained from DENR, each of the wells is plugged to a sufficient depth so as not to allow transmission of fluids from the targeted injection zones to overlying USDWs. Note that none of these wells are located within the proposed Class V permit area. As such, they will not be encompassed in any prospective AORs of proposed Dewey-Burdock Disposal Wells.

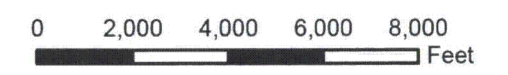
Property Ownership and Public Notice

Figure B-3 shows the surface property owners in the Dewey-Burdock Project area and Figure B-4 shows the mineral ownership within the Dewey-Burdock Project boundary.


For the purpose of public notice, newspaper service is available from several publishers in the area including the closest paper to the proposed facility, the Edgemont Herald Tribune.



Legend
 Dewey-Burdock Permit Boundary



Projection: State Plane, South Dakota South, NAD 83 (feet)

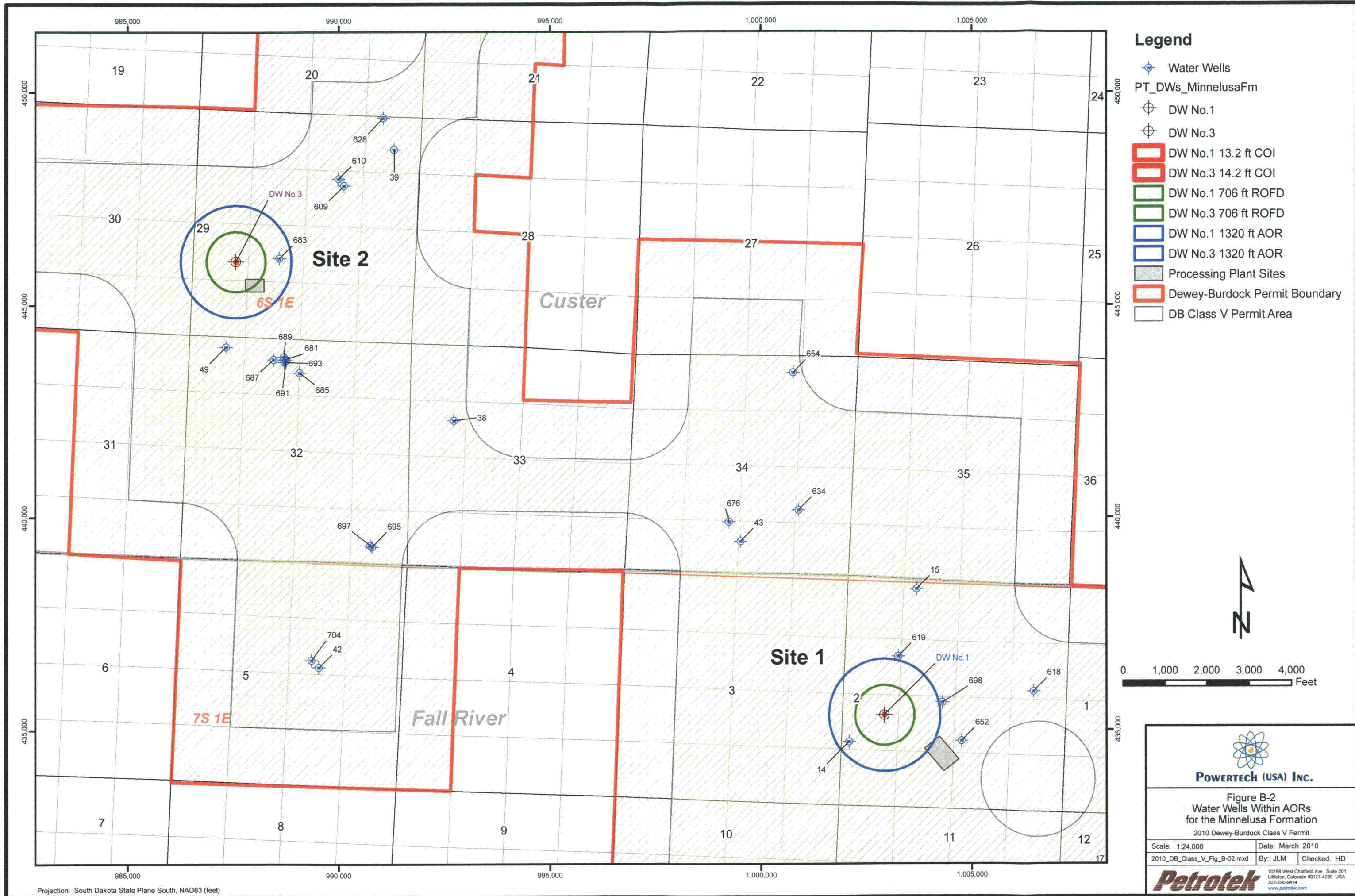


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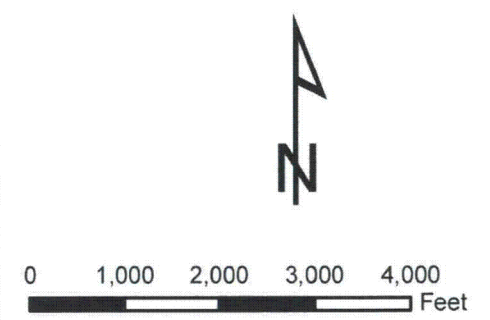
Figure B-1
 Topographic Map
 of Project Area
 2010 Dewey-Burdock Class V Permit

Scale: 1:48,000	Date: March 2010
2010_DB_Class_V_Fig_B-01.mxd	By: JLM Checked: HD

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- Legend**
- Water Wells
 - PT_DWs_MinnelusaFm
 - DW No.1
 - DW No.3
 - DW No.1 13.2 ft COI
 - DW No.3 14.2 ft COI
 - DW No.1 706 ft ROFD
 - DW No.3 706 ft ROFD
 - DW No.1 1320 ft AOR
 - DW No.3 1320 ft AOR
 - Processing Plant Sites
 - Dewey-Burdock Permit Boundary
 - DB Class V Permit Area

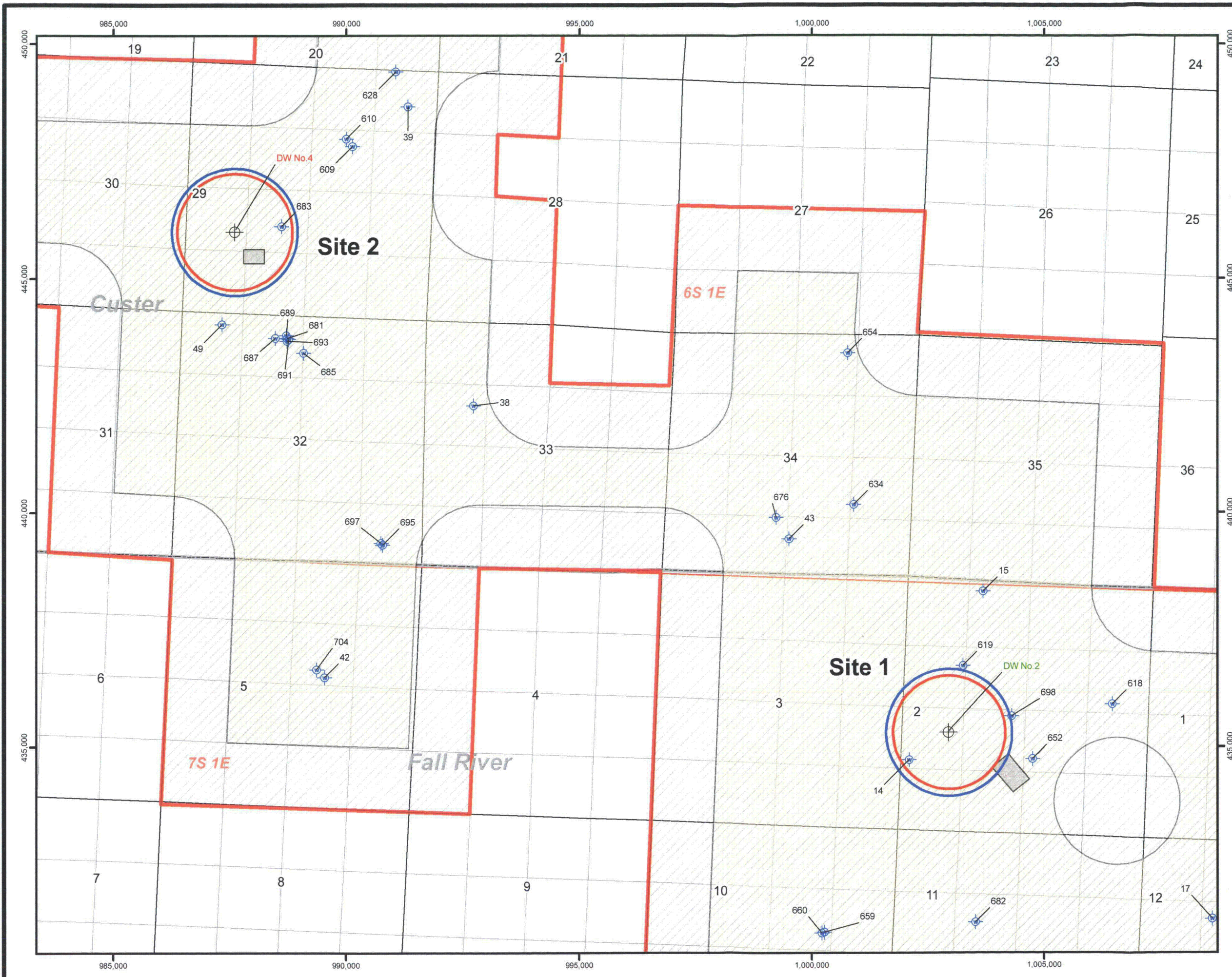


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Figure B-2
Water Wells Within AORs
for the Minnelusa Formation
2010 Dewey-Burdock Class V Permit

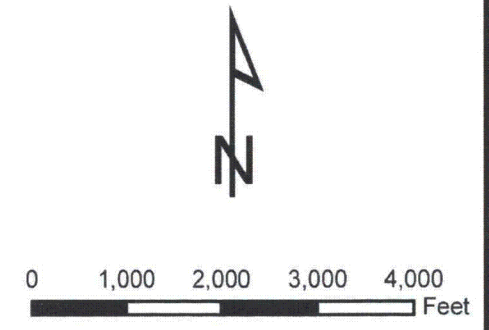
Scale: 1:24,000	Date: March 2010
2010_DB_Class_V_Fig_B-02.mxd	By: JLM Checked: HD

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Legend

- Water Wells
- PT_DWs_DeadwoodFm
- DW No. 2
- DW No. 4
- DW No. 2 1210 ft COI
- DW No. 4 1242 ft COI
- DW No. 2 1355 ft ROFD / AOR
- DW No. 4 1355 ft ROFD / AOR
- Processing Plant Sites
- Dewey-Burdock Permit Boundary
- DB Class V Permit Area



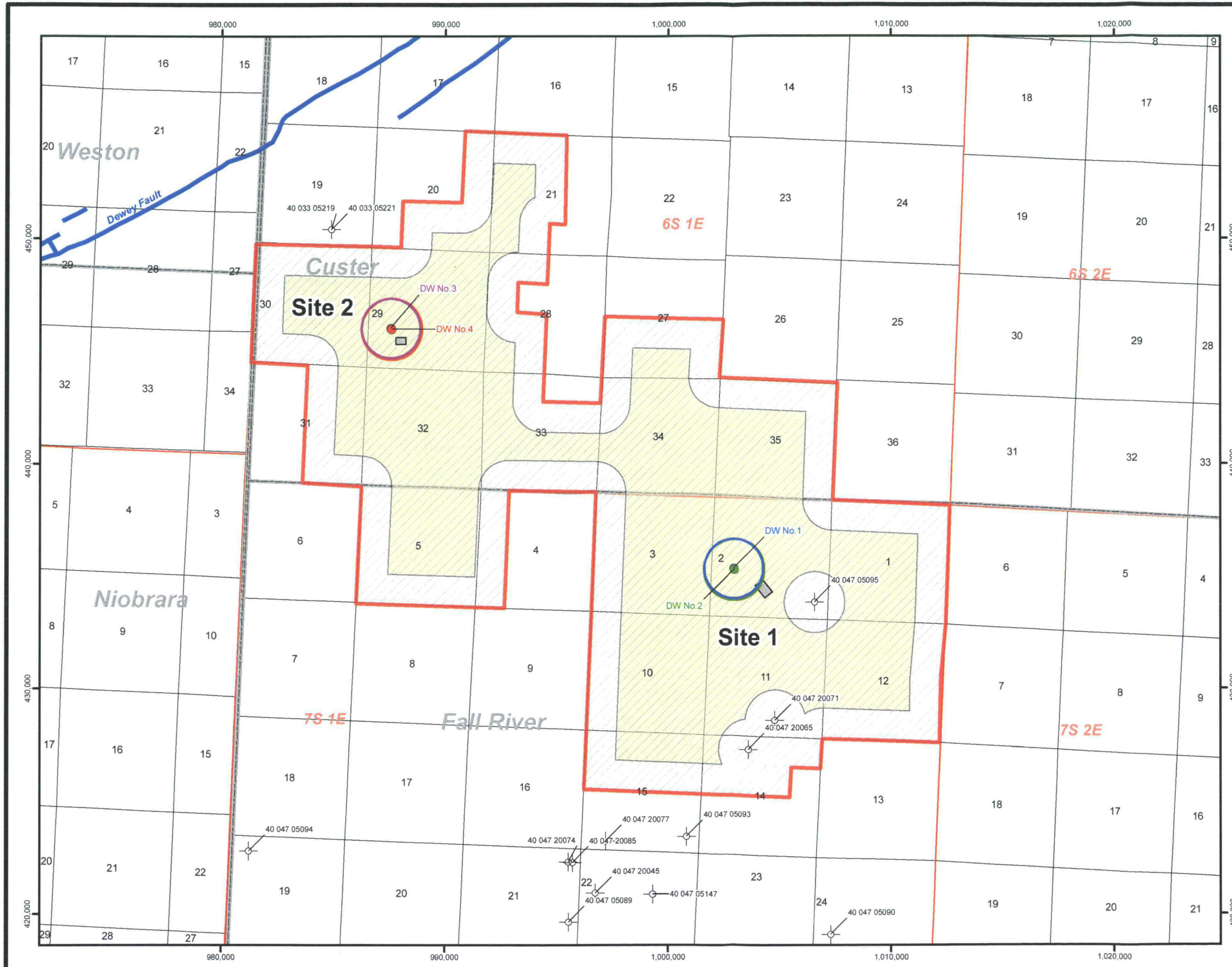
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Figure B-2a
Water Wells Within AORs
for the Deadwood Formation
2010 Dewey-Burdock Class V Permit

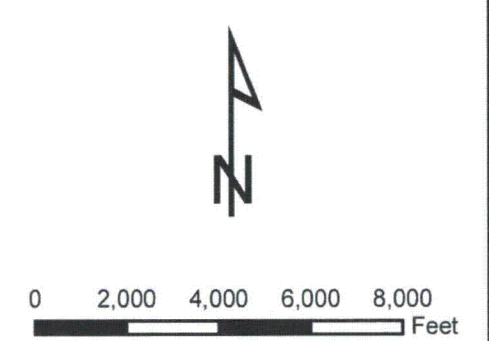
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2010_DB_Class_V_Fig_B-02a.mxd	By: JLM Checked: HD

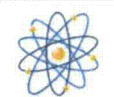
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Projection: South Dakota State Plane South, NAD83 (feet)



- ### Legend
- Dewey Fault
 - DW No.1
 - DW No.2
 - DW No.3
 - DW No.4
 - DW No.1 1320 ft AOR
 - DW No.2 1355 ft AOR
 - DW No.3 1320 ft AOR
 - DW No.4 1355 ft AOR
 - Processing Plant Sites
 - Oil and Gas Wells
 - Dewey-Burdock Permit Boundary
 - DB Class V Permit Area





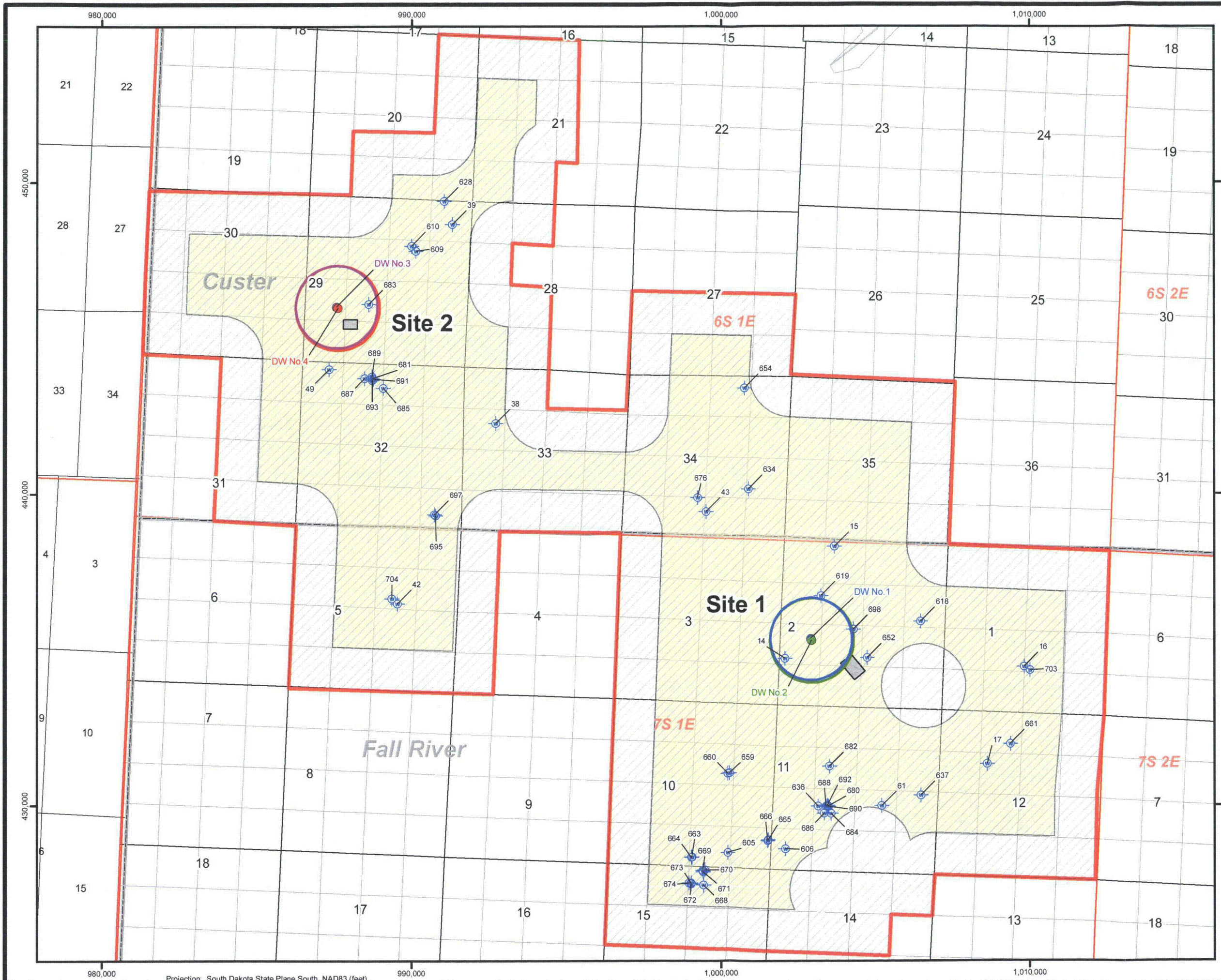
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Figure B-2b
Class V Permit Area showing AORs
2010 Dewey-Burdock Class V Permit

Scale: 1:50,000	Date: March 2010
2010_DB_Class_V_Fig_B-02b.mxd	By: JLM Checked: HD

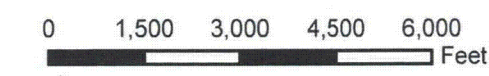
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Projection: South Dakota State Plane South, NAD83 (feet)



Legend

- Water Wells
- PT_DWs**
- DW No.1 - Minnelusa Fm
- DW No.2 - Deadwood Fm
- DW No.3 - Minnelusa Fm
- DW No.4 - Deadwood Fm
- DW No.1 1320 ft AOR
- DW No.2 1355 ft AOR
- DW No.3 1320 ft AOR
- DW No.4 1355 ft AOR
- Processing Plant Sites
- Dewey-Burdock Permit Boundary
- DB Class V Permit Area



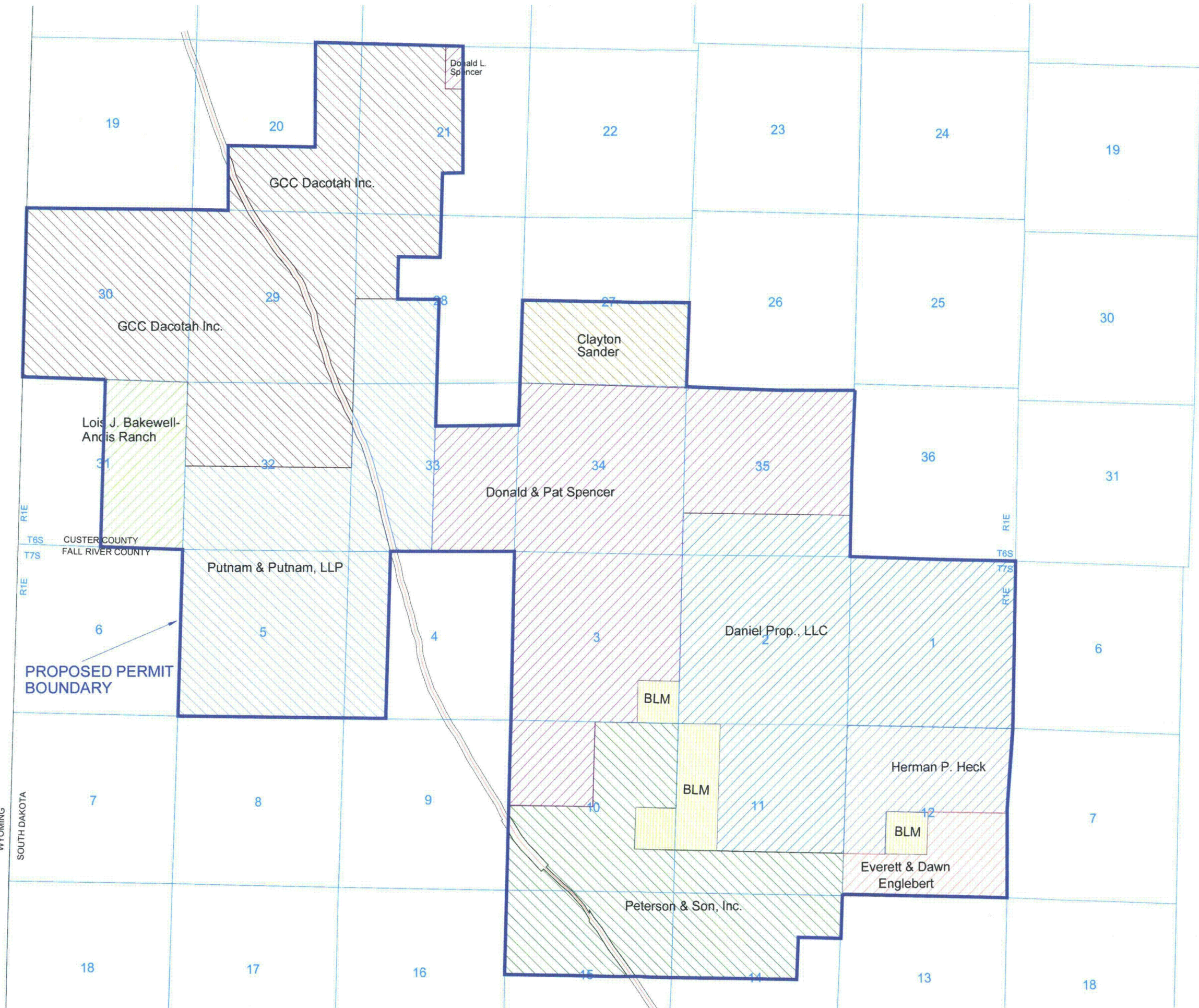
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Figure B-2c
Water Wells within
Class V Permit Area
2010 Dewey-Burdock Class V Permit

Scale: 1:36,000	Date: March 2010
2010_DB_Class_V_Fig_B-02c.mxd	By: JLM Checked: HD

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Projection: South Dakota State Plane South, NAD83 (feet)



Map Created By: S.M. Hetrick,
Powertech Inc., March 2010


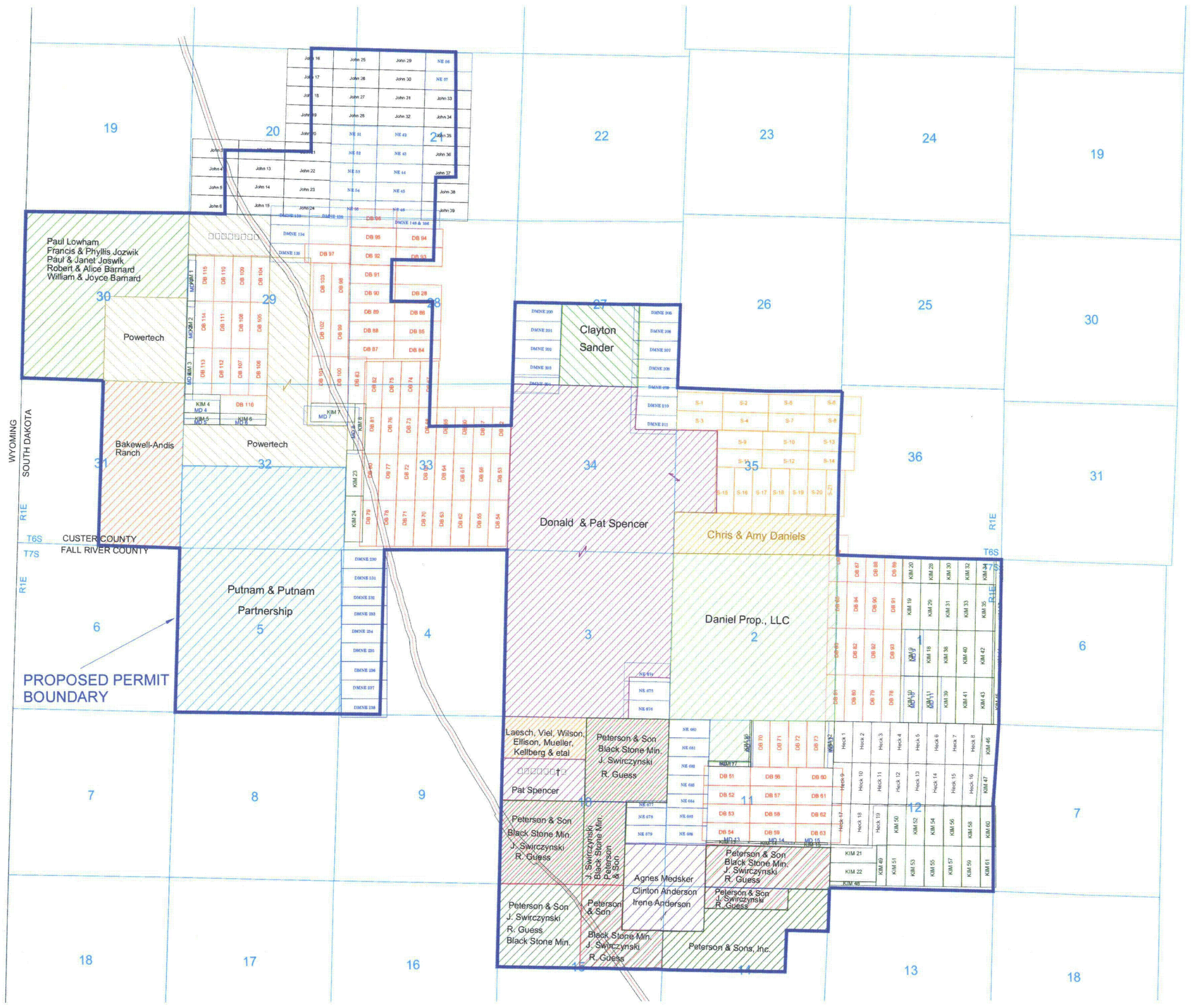

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Figure B-3
Surface Ownership Map
 2010 Dewey-Burdock Class V Permit

Scale: NTS	Date: March 2010
2010_DB_Class_V_Fig_B-03.ai	By: JLM Checked: HD

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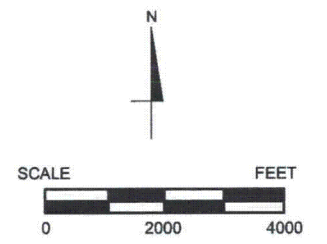


LEGEND

Powertech Mineral Holdings

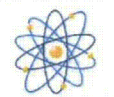
Proposed Permit Boundary

Map Created By: S.M. Hetrick,
Powertech Inc., March 2010



PROPOSED PERMIT BOUNDARY

Projection: South Dakota State Plane South, NAD27 (feet)




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Figure B-4
Mineral Ownership

2010 Dewey-Burdock Class V Permit

Scale: See Bar Scale	Date: March 2010
2010_DB_Class_V_Fig_B-04.ai	By: JLM Checked: HD



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