

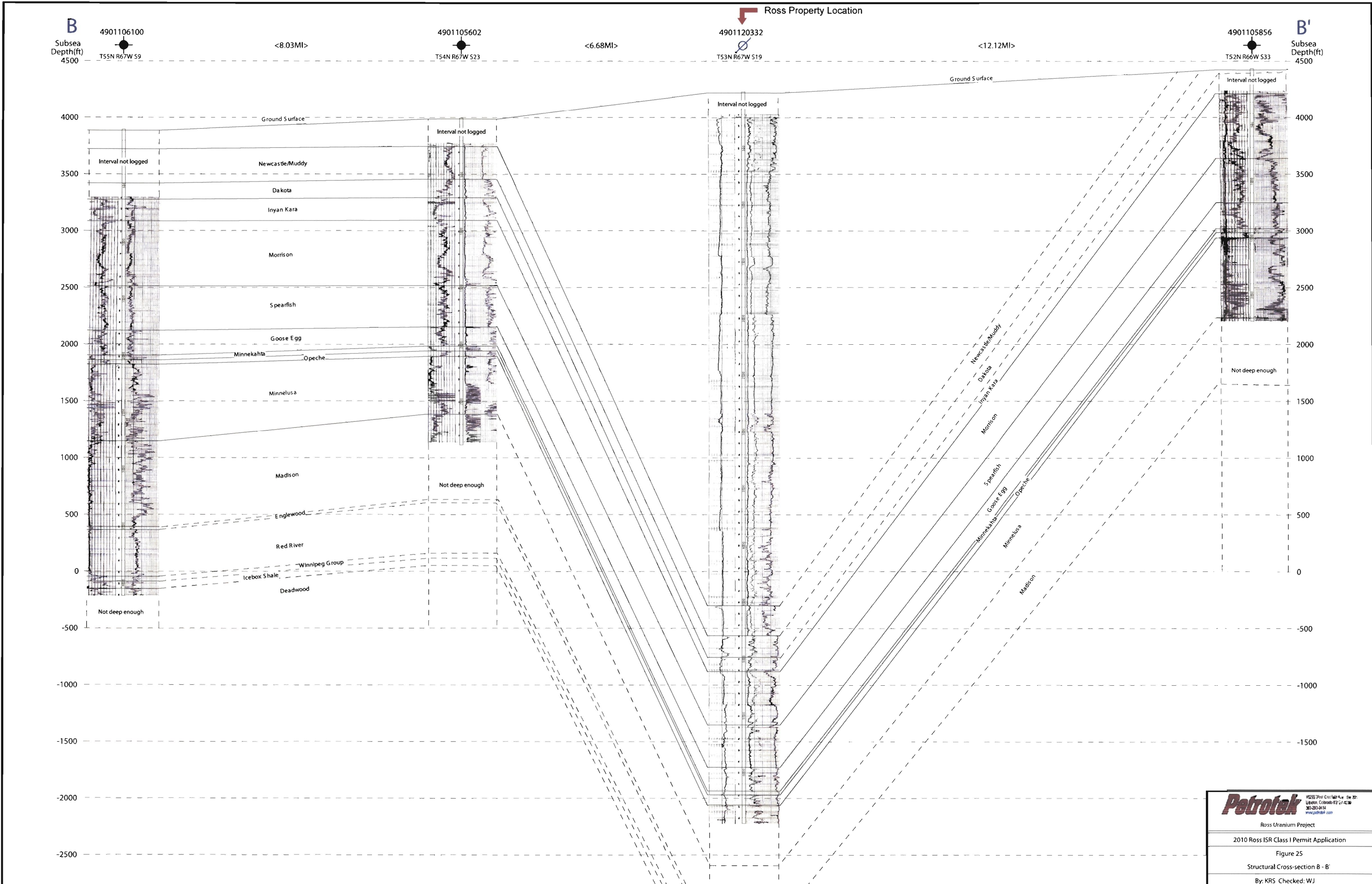
Petrotek
 10288 West Chatfield Ave., Ste 201
 Littleton, Colorado 80127-4229
 303.290.9414
 www.petrotek.com

Ross Uranium Project

2010 Ross ISR Class I Permit Application

Figure 24
 Structural Cross-section A - A'

By: KRS Checked: WJ



Petrotek 2010 Ross Uranium Project

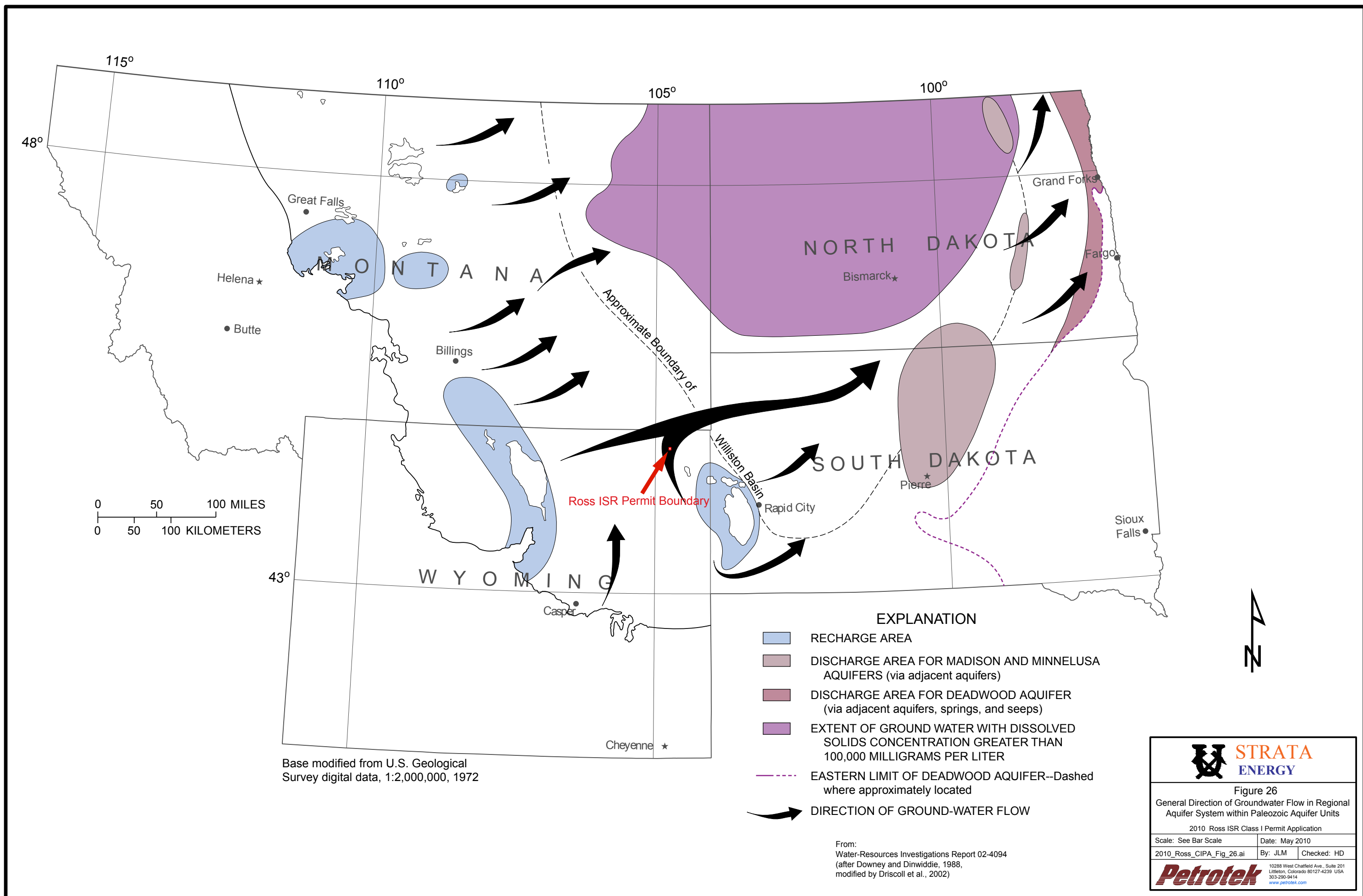
Ross Uranium Project

2010 Ross ISR Class I Permit Application

Figure 25

Structural Cross-section B - B'

By: KRS Checked: WJ



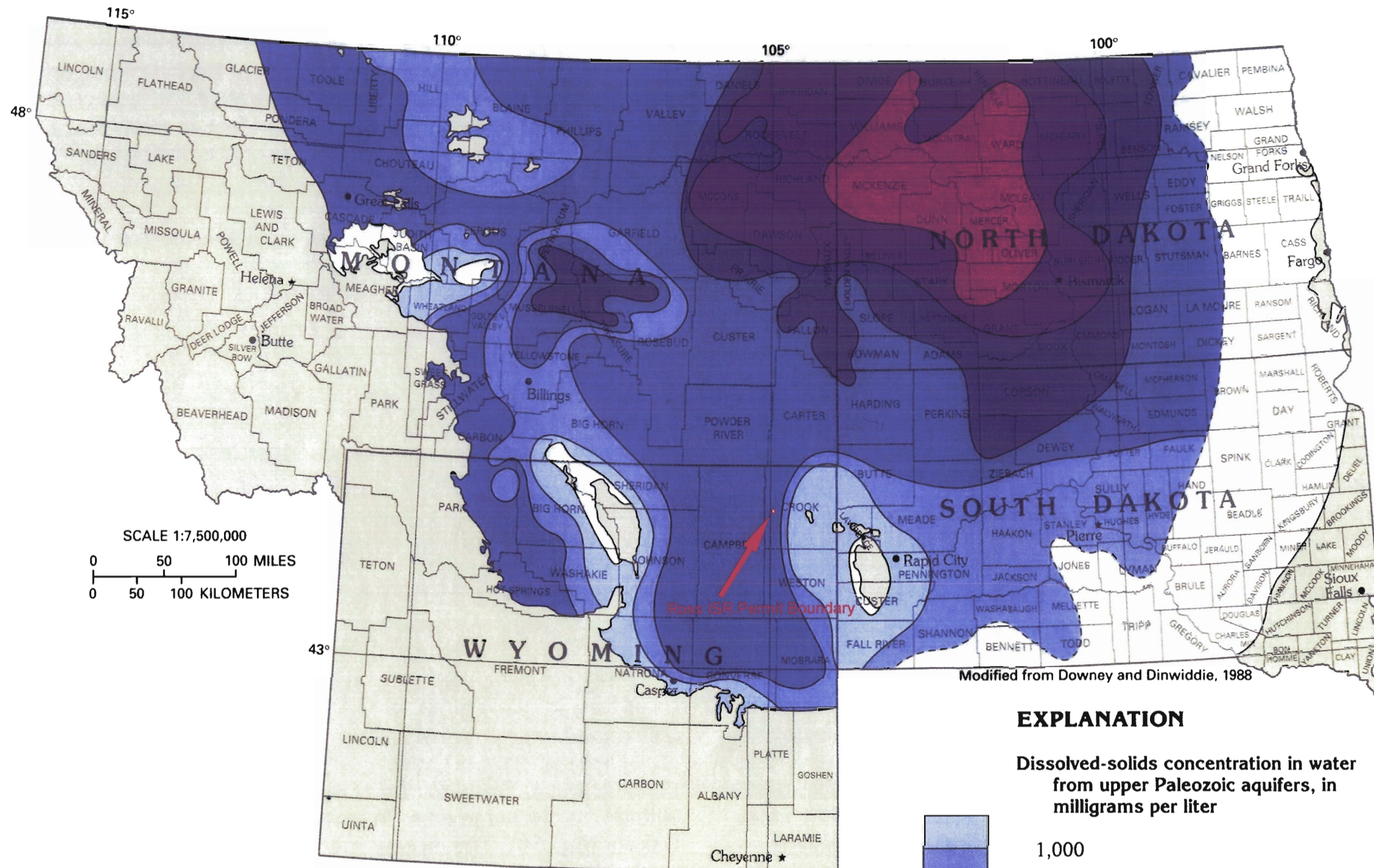
STRATA ENERGY

Figure 26
General Direction of Groundwater Flow in Regional
Aquifer System within Paleozoic Aquifer Units

2010 Ross ISR Class I Permit Application

Scale: See Bar Scale	Date: May 2010
2010_Ross_CIPA_Fig_26.ai	By: JLM Checked: HD

Petrotek
10288 West Chatfield Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-290-9414
www.petrotek.com

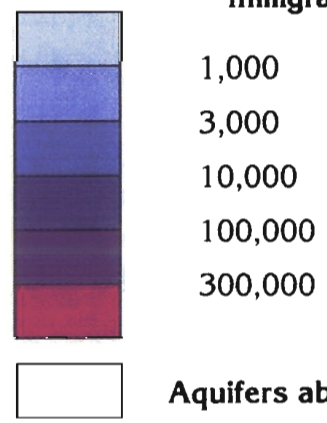


Base modified from U.S. Geological Survey digital data, 1:2,000,000, 1972

Modified from Downey and Dinwiddie, 1988

EXPLANATION

Dissolved-solids concentration in water from upper Paleozoic aquifers, in milligrams per liter



From: Ground Water Atlas of the United States, Segment 8 MT, SD, ND & WY, Hydrologic Investigations Atlas 730-I USGS (by Whitehead, 1996)

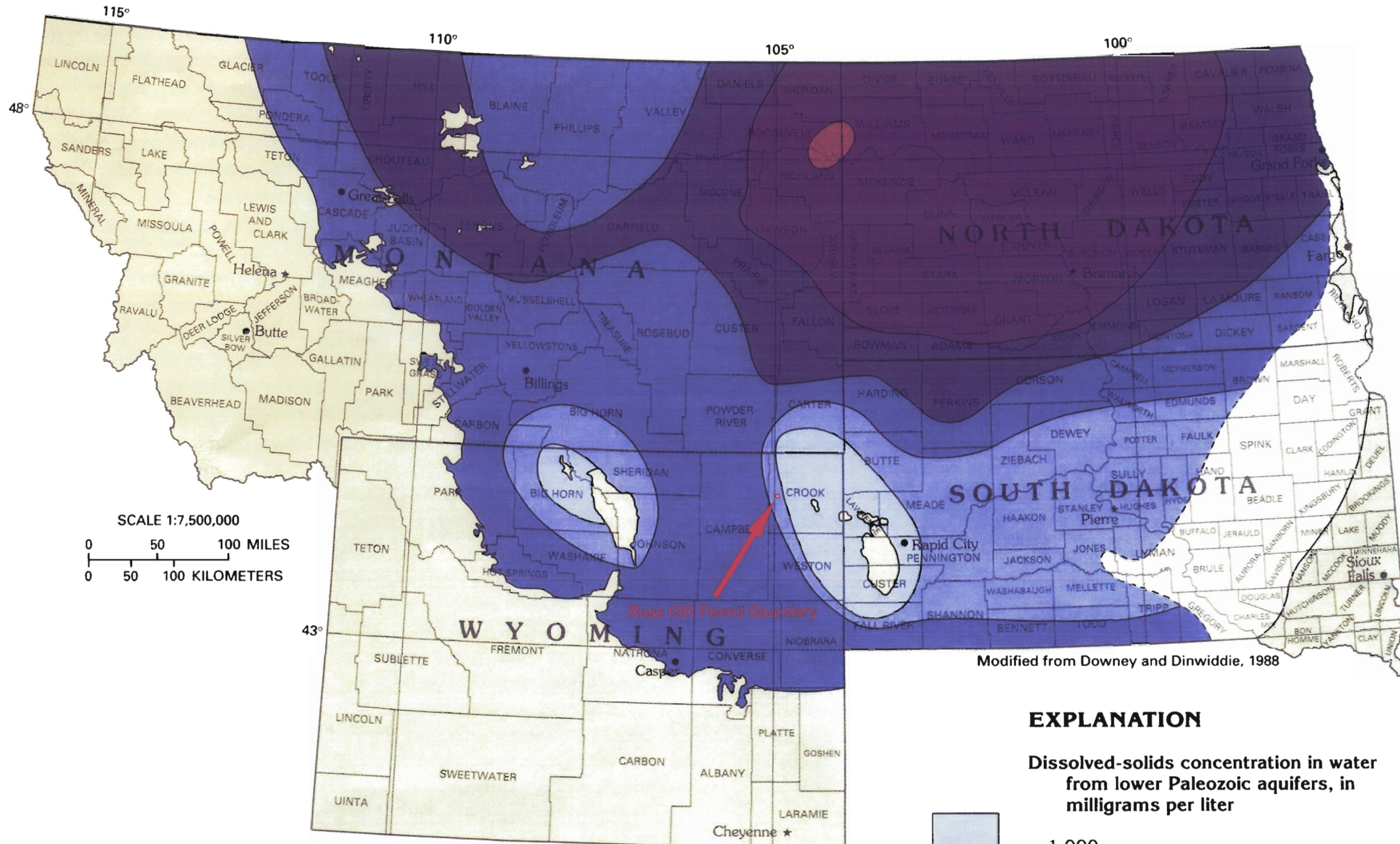
STRATA ENERGY

Figure 27
Dissolved Solids Concentrations in Upper Paleozoic Aquifer System, Powder River and Williston Basins

2010 Ross ISR Class I Permit Application

Scale: See Bar Scale	Date: May 2010
2010_Ross_CIPA_Fig_27.ai	By: JLM Checked: HD

Petrotek 10286 West Chatfield Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303.280.9414
www.petrotek.com



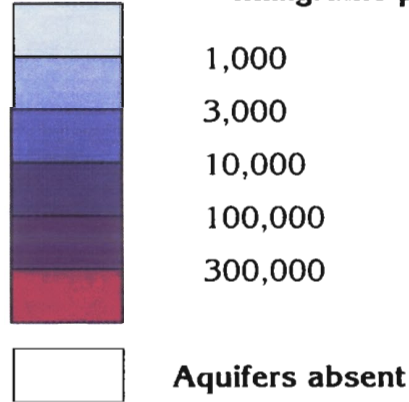
SCALE 1:7,500,000
 0 50 100 MILES
 0 50 100 KILOMETERS

Base modified from U.S. Geological Survey digital data, 1:2,000,000, 1972

Modified from Downey and Dinwiddie, 1988

EXPLANATION

Dissolved-solids concentration in water from lower Paleozoic aquifers, in milligrams per liter



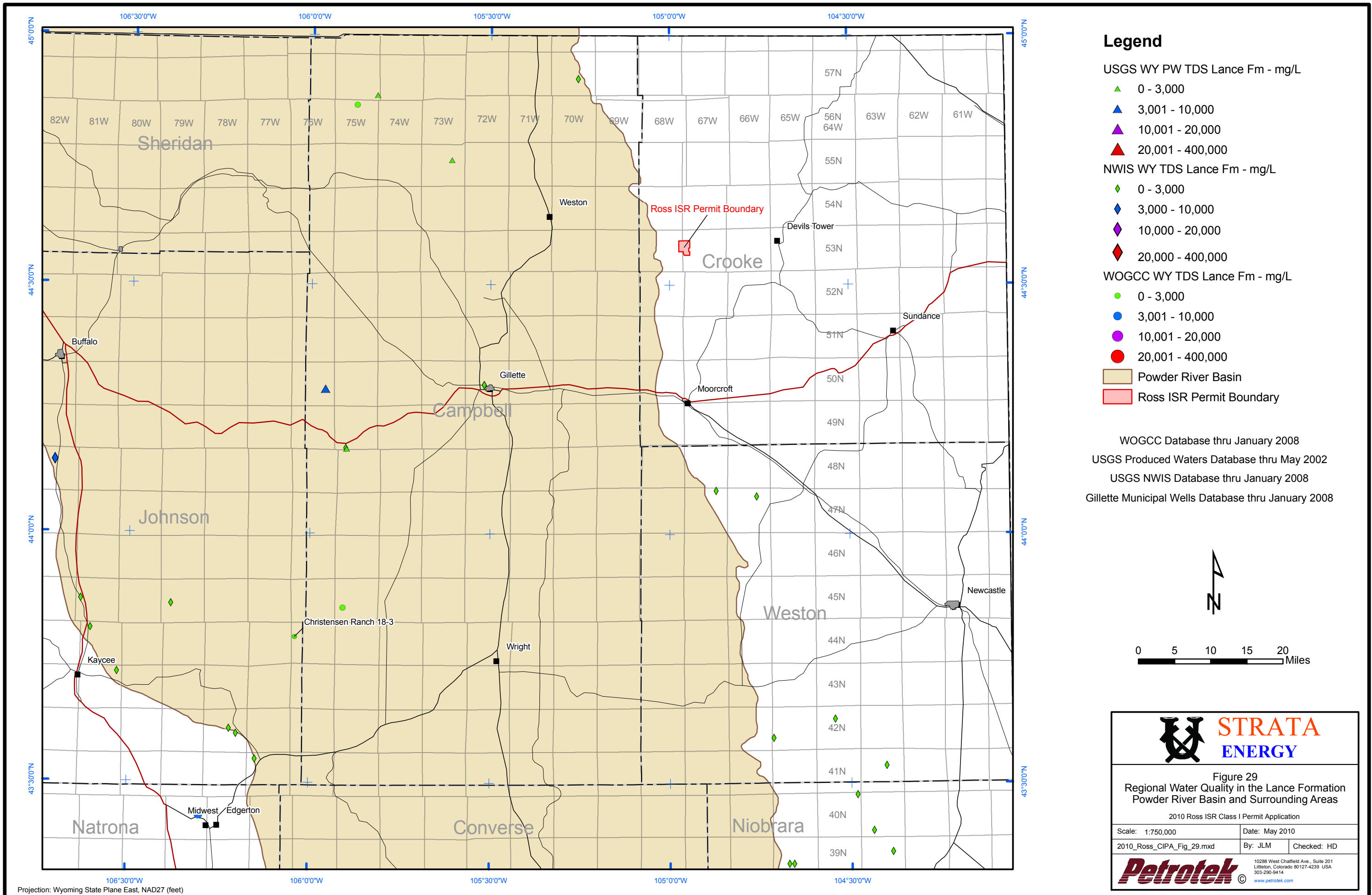
From: Ground Water Atlas of the United States, Segment 8 MT, SD, ND & WY, Hydrologic Investigations Atlas 730-I USGS (by Whitehead, 1996)

STRATA ENERGY

Figure 28
 Dissolved Solids Concentrations in Lower Paleozoic Aquifer System, Powder River and Williston Basins
 2010 Ross ISR Class I Permit Application

Scale: See Bar Scale	Date: May 2010
2010_Ross_GIPA_Fig_28.ai	By: JLM Checked: HD

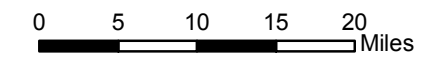
Petrotek
 10288 West Chefield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414
 www.petrotek.com



Legend

- USGS WY PW TDS Lance Fm - mg/L
 - ▲ 0 - 3,000
 - ▲ 3,001 - 10,000
 - ▲ 10,001 - 20,000
 - ▲ 20,001 - 400,000
- NWIS WY TDS Lance Fm - mg/L
 - ◆ 0 - 3,000
 - ◆ 3,000 - 10,000
 - ◆ 10,000 - 20,000
 - ◆ 20,000 - 400,000
- WOGCC WY TDS Lance Fm - mg/L
 - 0 - 3,000
 - 3,001 - 10,000
 - 10,001 - 20,000
 - 20,001 - 400,000
- Powder River Basin
- ▭ Ross ISR Permit Boundary

WOGCC Database thru January 2008
 USGS Produced Waters Database thru May 2002
 USGS NWIS Database thru January 2008
 Gillette Municipal Wells Database thru January 2008







Figure 29
 Regional Water Quality in the Lance Formation
 Powder River Basin and Surrounding Areas

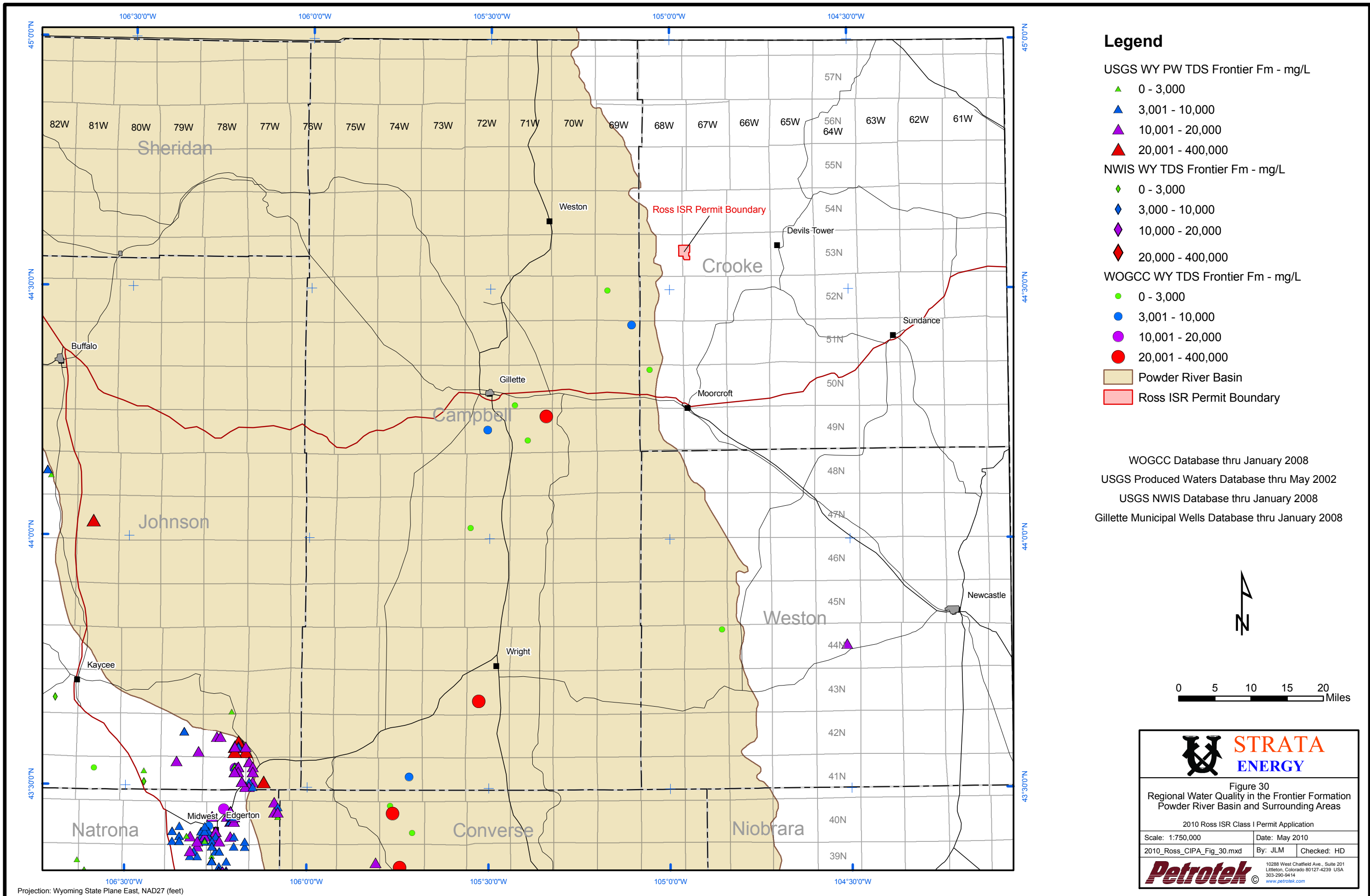
2010 Ross ISR Class I Permit Application

Scale: 1:750,000	Date: May 2010
2010_Ross_CIPA_Fig_29.mxd	By: JLM Checked: HD



10288 West Chatfield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414
www.petrotek.com

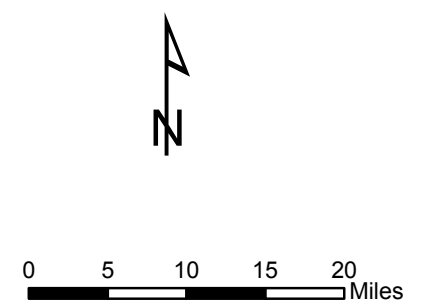
Projection: Wyoming State Plane East, NAD27 (feet)



Legend

- USGS WY PW TDS Frontier Fm - mg/L
 - ▲ 0 - 3,000
 - ▲ 3,001 - 10,000
 - ▲ 10,001 - 20,000
 - ▲ 20,001 - 400,000
- NWIS WY TDS Frontier Fm - mg/L
 - ◆ 0 - 3,000
 - ◆ 3,000 - 10,000
 - ◆ 10,000 - 20,000
 - ◆ 20,000 - 400,000
- WOGCC WY TDS Frontier Fm - mg/L
 - 0 - 3,000
 - 3,001 - 10,000
 - 10,001 - 20,000
 - 20,001 - 400,000
- Powder River Basin
- ▭ Ross ISR Permit Boundary

WOGCC Database thru January 2008
 USGS Produced Waters Database thru May 2002
 USGS NWIS Database thru January 2008
 Gillette Municipal Wells Database thru January 2008

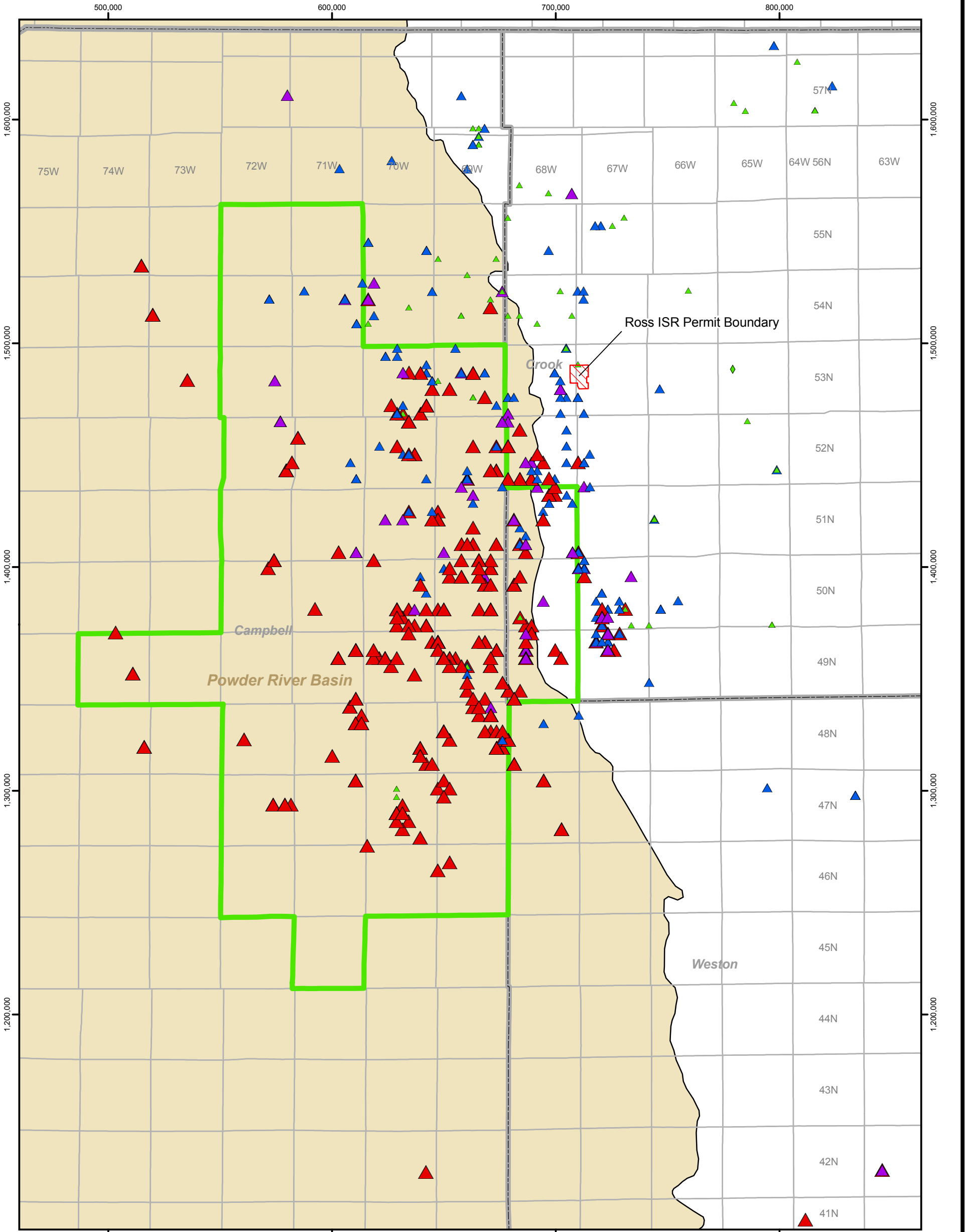


STRATA ENERGY
 Figure 30
 Regional Water Quality in the Frontier Formation
 Powder River Basin and Surrounding Areas
 2010 Ross ISR Class I Permit Application

Scale: 1:750,000	Date: May 2010
2010_Ross_CIPA_Fig_30.mxd	By: JLM Checked: HD

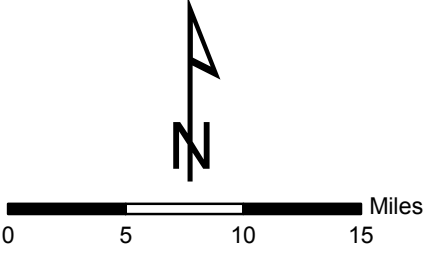
Petrotek
 10288 West Chatfield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414
www.petrotek.com

Projection: Wyoming State Plane East, NAD27 (feet)




Legend

- | | |
|------------------------------------|----------------------------------|
| USGS_WY_PW_TDS_Minnelusa_Formation | NWIS_WY_TDS_Minnelusa_Formations |
| TDS | Param_Resu |
| ▲ 0 - 3,000 | ◆ 0 - 3,000 |
| ▲ 3,001 - 10,000 | ◆ 3,000 - 10,000 |
| ▲ 10,001 - 20,000 | ◆ 10,000 - 20,000 |
| ▲ 20,001 - 400,000 | ◆ 20,000 - 400,000 |
| ■ Powder River Basin Outline | |
| □ Minnelusa Aquifer Exemption Area | |



Note: Well Data is current through 1/26/2009


Projection: Wyoming State Plane East, NAD83 (feet)



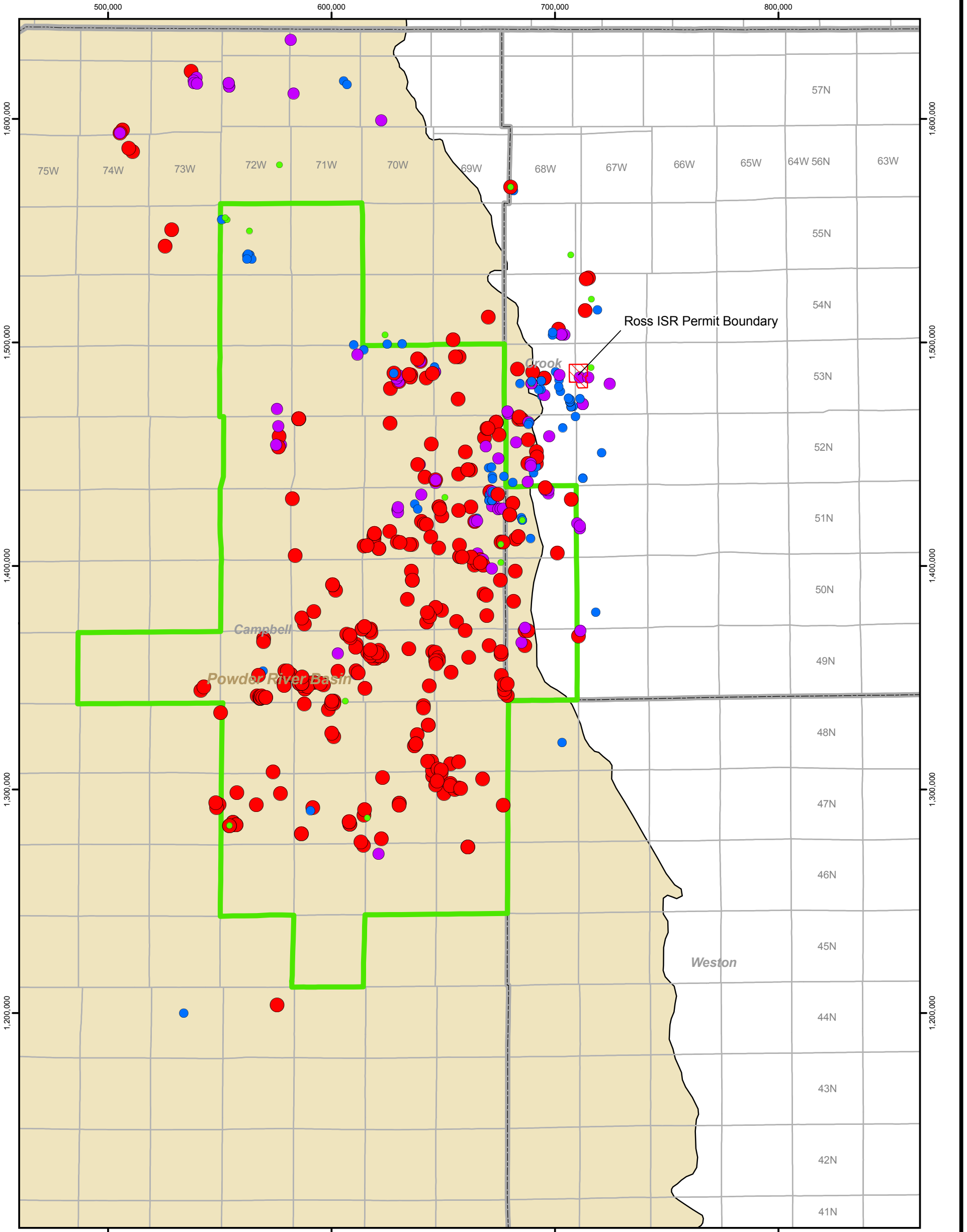
STRATA ENERGY

Figure 31
Regional TDS of the Minnelusa Formation USGS and NWIS Data
2010 Ross ISR Class I Permit Application

Scale: 1:500,000	Date: May 2010
2010_Ross_CIPA_Fig_31.mxd	By: JLM Checked: HD

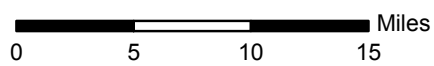


10288 West Chatfield Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-290-9414
www.petrotek.com



Legend

- WOGCC_WY_TDS_Minnelusa_Formation
TDS
- 0 - 3,000
 - 3,001 - 10,000
 - 10,001 - 20,000
 - 20,001 - 400,000
- Powder River Basin Outline
- Minnelusa Aquifer Exemption Area



Note: Well Data is current through 1/26/2009

Projection: Wyoming State Plane East, NAD83 (feet)

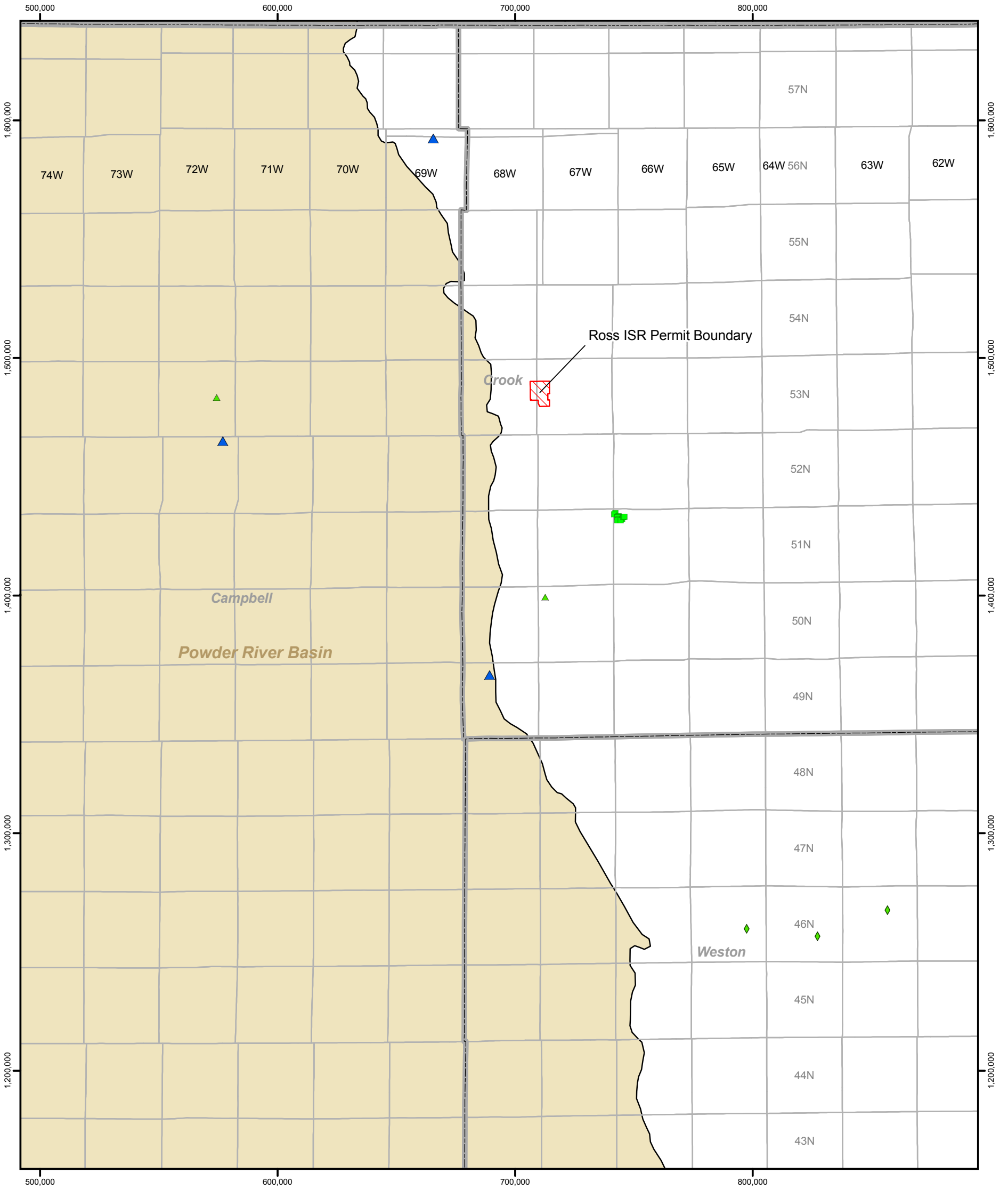
STRATA ENERGY

Figure 32
Regional TDS of the Minnelusa Formation
WOGCC Data

2010 Ross ISR Class I Permit Application

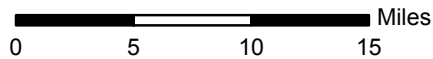
Scale: 1:500,000	Date: May 2010
2010_Ross_CIPA_Fig_32.mxd	By: JLM Checked: HD

Petrotek 10288 West Chatfield Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-290-9414
www.petrotek.com



Legend

- | | |
|---|---------------------------------------|
| USGS_WY_PW_TDS_Amsden_Madison_Formation | WOGCC_WY_TDS_Amsden_Darwin_Formations |
| TDS | TDS |
| ▲ 0 - 3,000 | ● 0 - 3,000 |
| ▲ 3,001 - 10,000 | ● 3,001 - 10,000 |
| ▲ 10,001 - 20,000 | ● 10,001 - 20,000 |
| ▲ 20,001 - 400,000 | ● 20,001 - 400,000 |
| NWIS_WY_TDS_AmsdenMadison_Formations | Gillette_Muni_Wells_Madison_FM |
| Param_Resu | TDS_mg_L |
| ◆ 0 - 3,000 | ■ 0 - 3,000 |
| ◆ 3,000 - 10,000 | ■ 3,000 - 10,000 |
| ◆ 10,000 - 20,000 | ■ 10,000 - 20,000 |
| ◆ 20,000 - 400,000 | ■ 20,000 - 400,000 |
| | ■ Powder River Basin Outline |





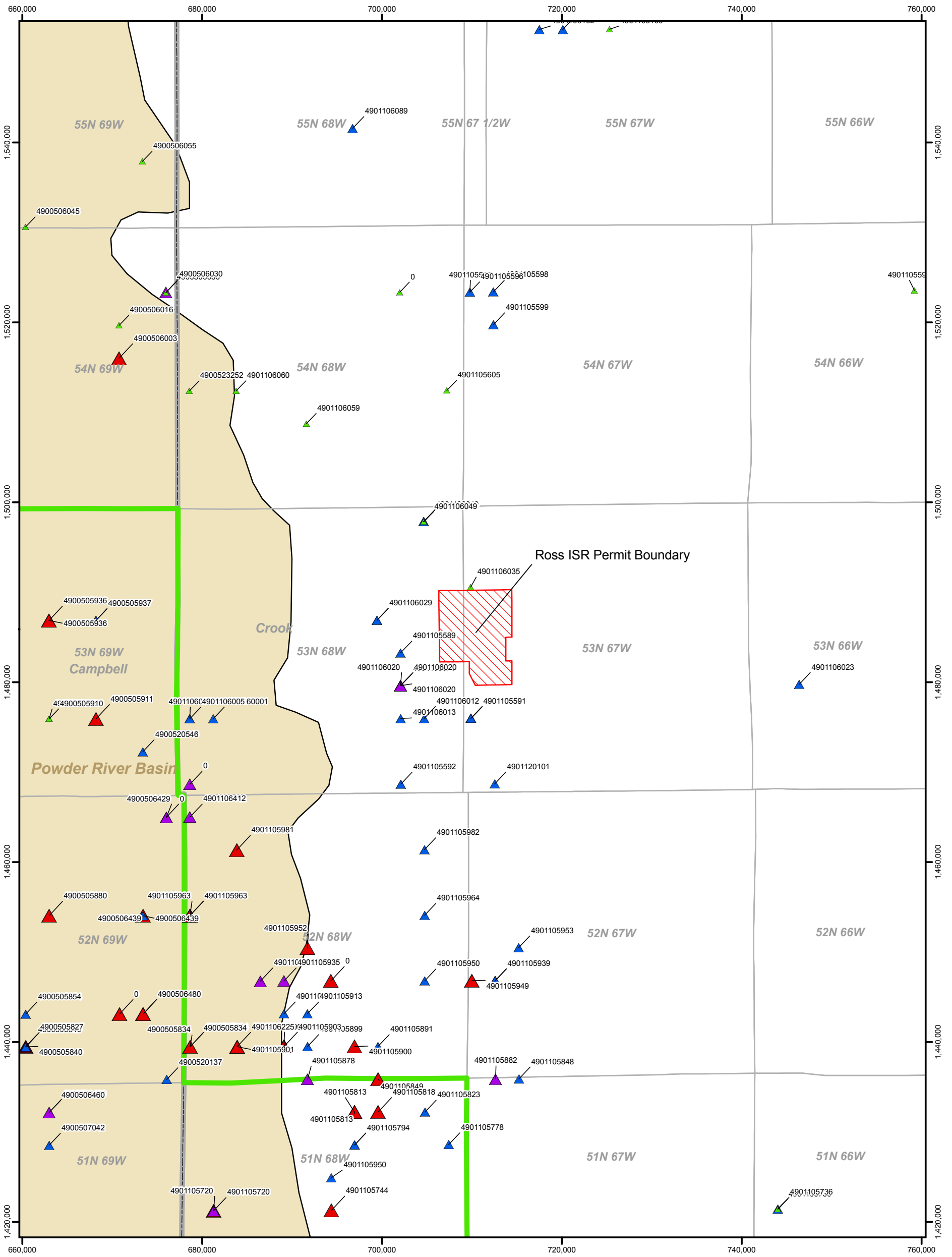


Figure 33
Regional TDS of the Madison Formation
WOGCC, USGS, NWIS Data

2010 Ross ISR Class I Permit Application

Scale: 1:500,000	Date: May 2010
2010_Ross_CIPA_Fig_33.mxd	By: JLM Checked: HD

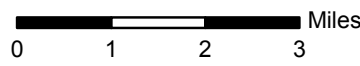

 10288 West Chatfield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414
www.petrotek.com




Legend

- | | |
|------------------------------------|----------------------------------|
| USGS_WY_PW_TDS_Minnelusa_Formation | NWIS_WY_TDS_Minnelusa_Formations |
| TDS | Param_Resu |
| ▲ 0 - 3,000 | ◆ 0 - 3,000 |
| ▲ 3,001 - 10,000 | ◆ 3,000 - 10,000 |
| ▲ 10,001 - 20,000 | ◆ 10,000 - 20,000 |
| ▲ 20,001 - 400,000 | ◆ 20,000 - 400,000 |
| ■ Powder River Basin Outline | |
| □ Minnelusa Aquifer Exemption Area | |

Projection: Wyoming State Plane East, NAD83 (feet)



Note: Well Data is current through 1/26/2009




STRATA ENERGY

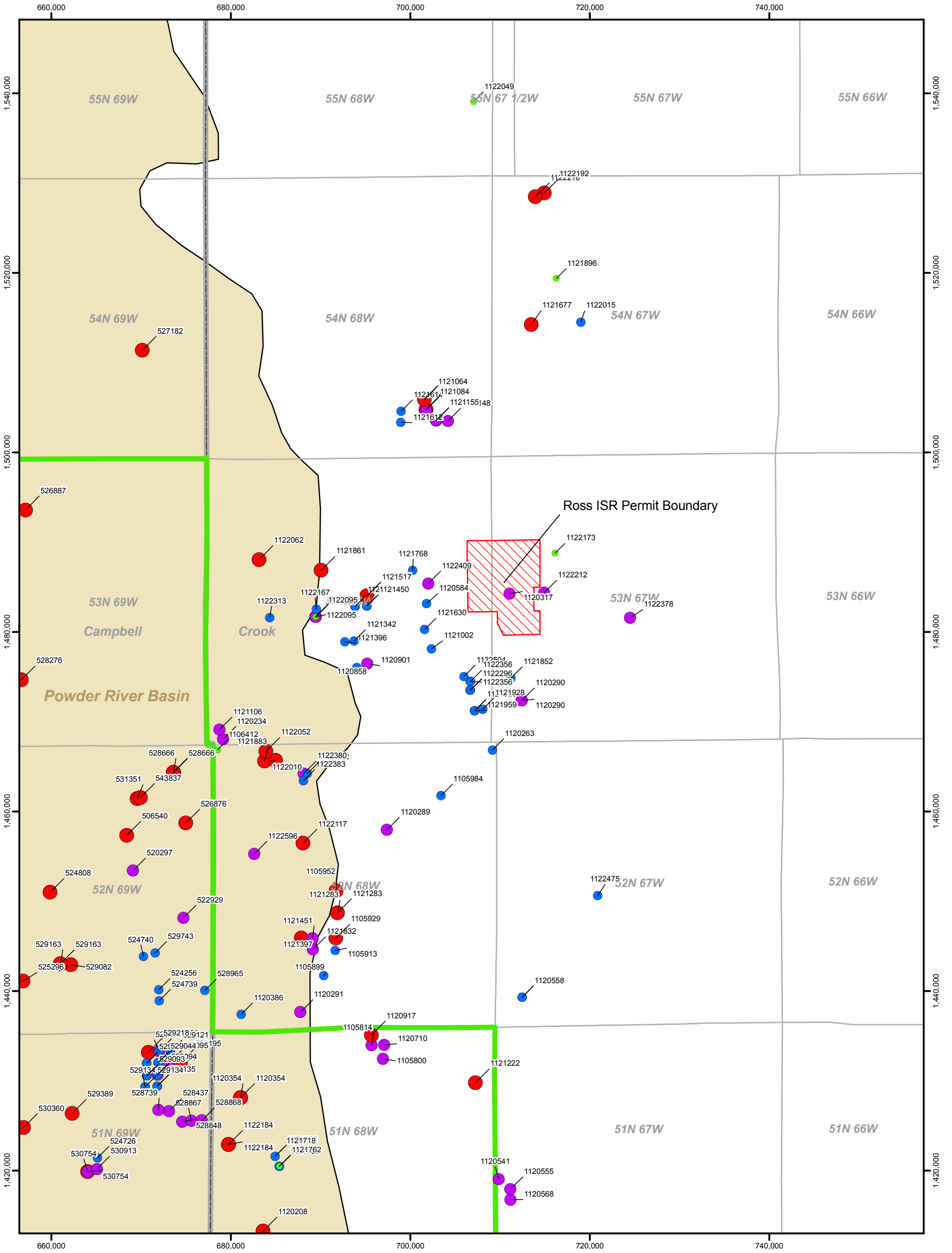
Figure 34
Local TDS of the Minnelusa Formation
USGS and NWIS Data

2010 Ross ISR Class I Permit Application

Scale: 1:125,000	Date: May 2010
2010_Ross_CIPA_Fig_34.mxd	By: JLM Checked: HD



10288 West Chatfield Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-290-9414
www.petrotek.com



Legend

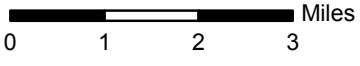
WOGCC_WY_TDS_Minnelusa_Formation

TDS

- 0 - 3,000
- 3,001 - 10,000
- 10,001 - 20,000
- 20,001 - 400,000

- Powder River Basin Outline
- Minnelusa Aquifer Exemption Area

Projection: Wyoming State Plane East, NAD83 (feet)



Note: Well Data is current through 1/26/2009

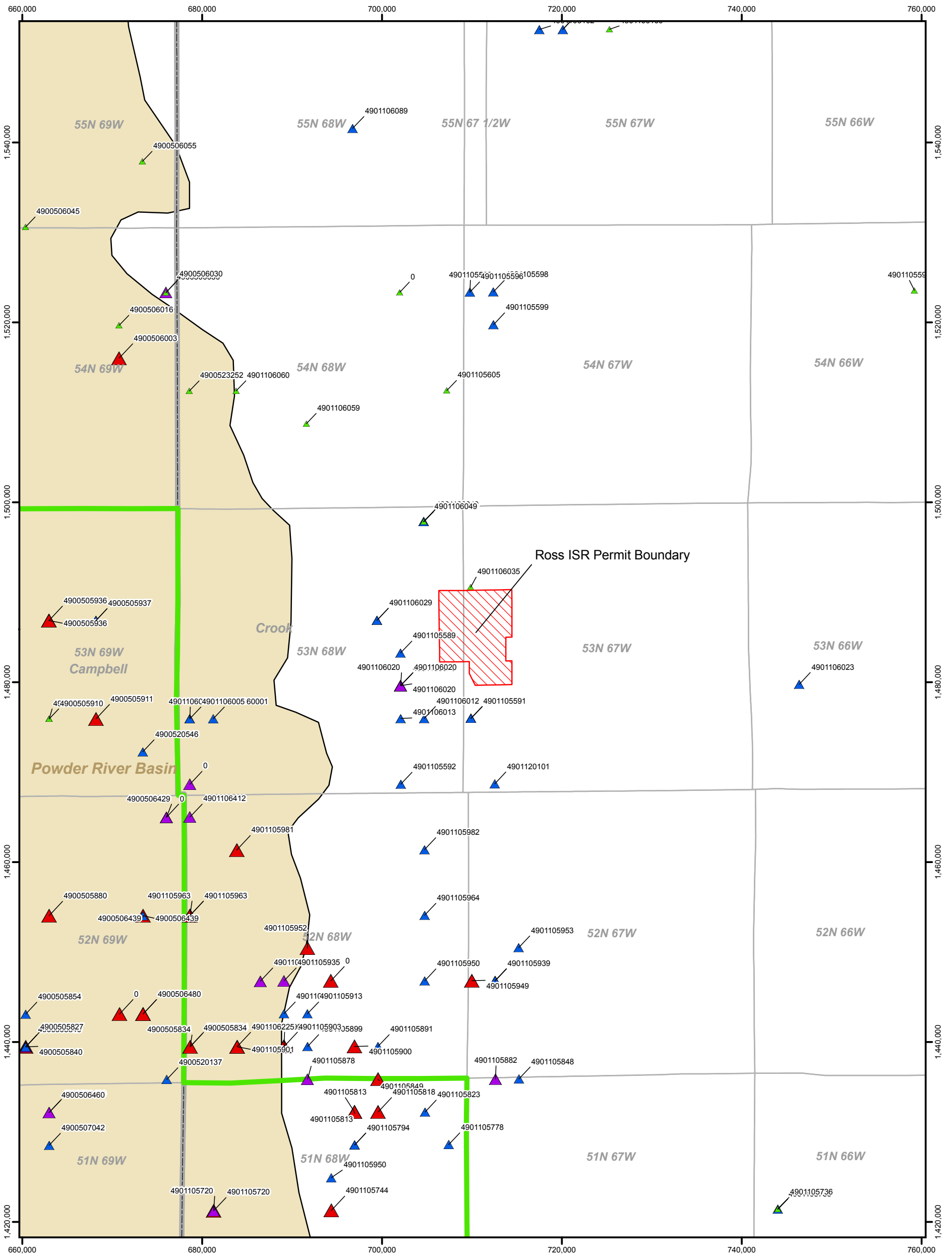
STRATA ENERGY

Figure 35
Local TDS of the Minnelusa Formation
WOGCC Data

2010 Ross ISR Class I Permit Application

Scale: 1:125,000	Date: May 2010
2010_Ross_CIPA_Fig_35.mxd	By: JLM Checked: HD

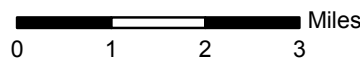
10288 West Chatfield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414
www.petrotek.com




Legend

- | | |
|------------------------------------|----------------------------------|
| USGS_WY_PW_TDS_Minnelusa_Formation | NWIS_WY_TDS_Minnelusa_Formations |
| TDS | Param_Resu |
| ▲ 0 - 3,000 | ◆ 0 - 3,000 |
| ▲ 3,001 - 10,000 | ◆ 3,000 - 10,000 |
| ▲ 10,001 - 20,000 | ◆ 10,000 - 20,000 |
| ▲ 20,001 - 400,000 | ◆ 20,000 - 400,000 |
| ■ Powder River Basin Outline | |
| ■ Minnelusa Aquifer Exemption Area | |

Projection: Wyoming State Plane East, NAD83 (feet)



Note: Well Data is current through 1/26/2009




STRATA ENERGY

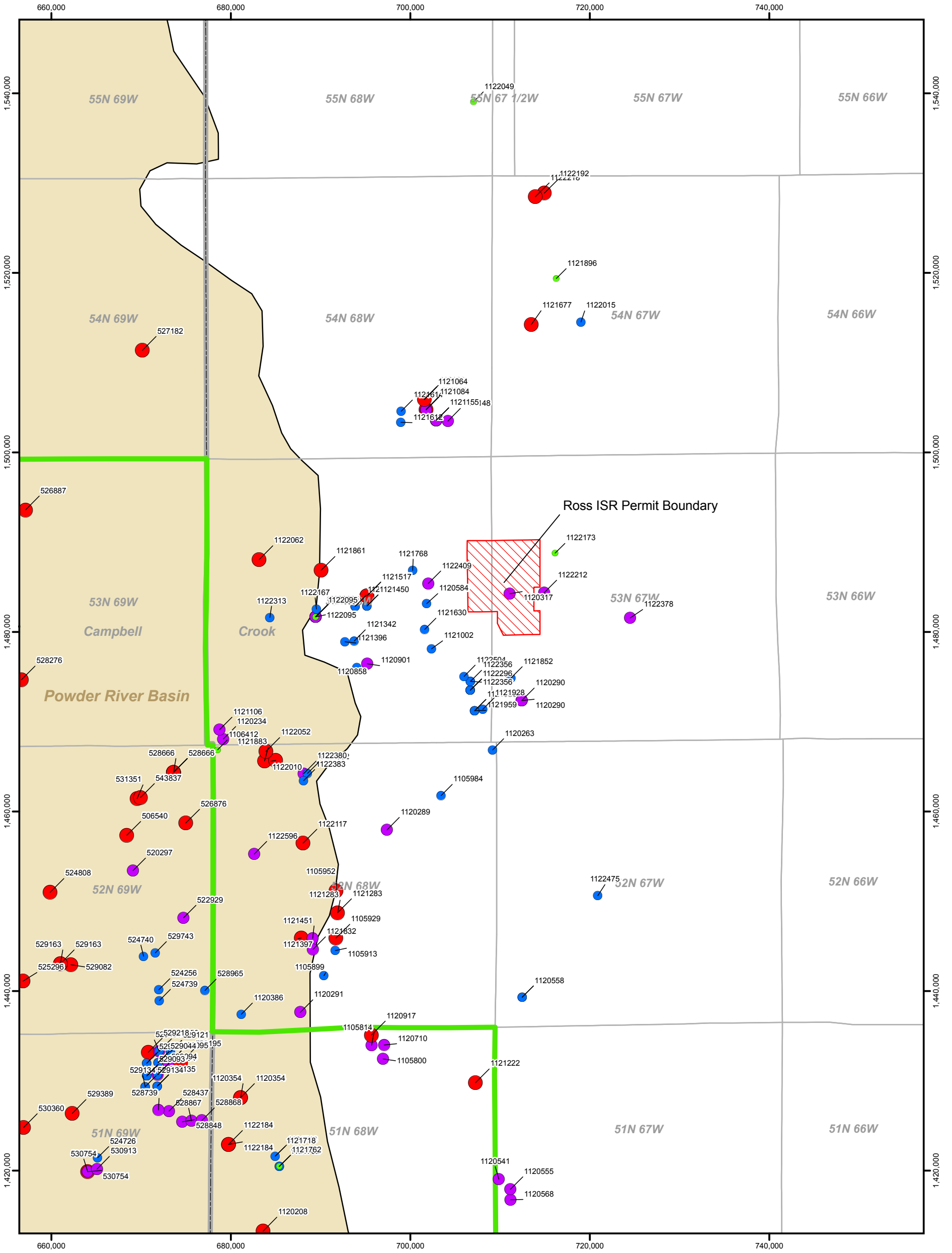
Figure 34
Local TDS of the Minnelusa Formation
USGS and NWIS Data

2010 Ross ISR Class I Permit Application

Scale: 1:125,000	Date: May 2010
2010_Ross_CIPA_Fig_34.mxd	By: JLM Checked: HD



10288 West Chatfield Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-290-9414
www.petrotek.com



Legend

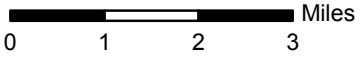
WOGCC_WY_TDS_Minnelusa_Formation

TDS

- 0 - 3,000
- 3,001 - 10,000
- 10,001 - 20,000
- 20,001 - 400,000

- Powder River Basin Outline
- Minnelusa Aquifer Exemption Area

Projection: Wyoming State Plane East, NAD83 (feet)



Note: Well Data is current through 1/26/2009

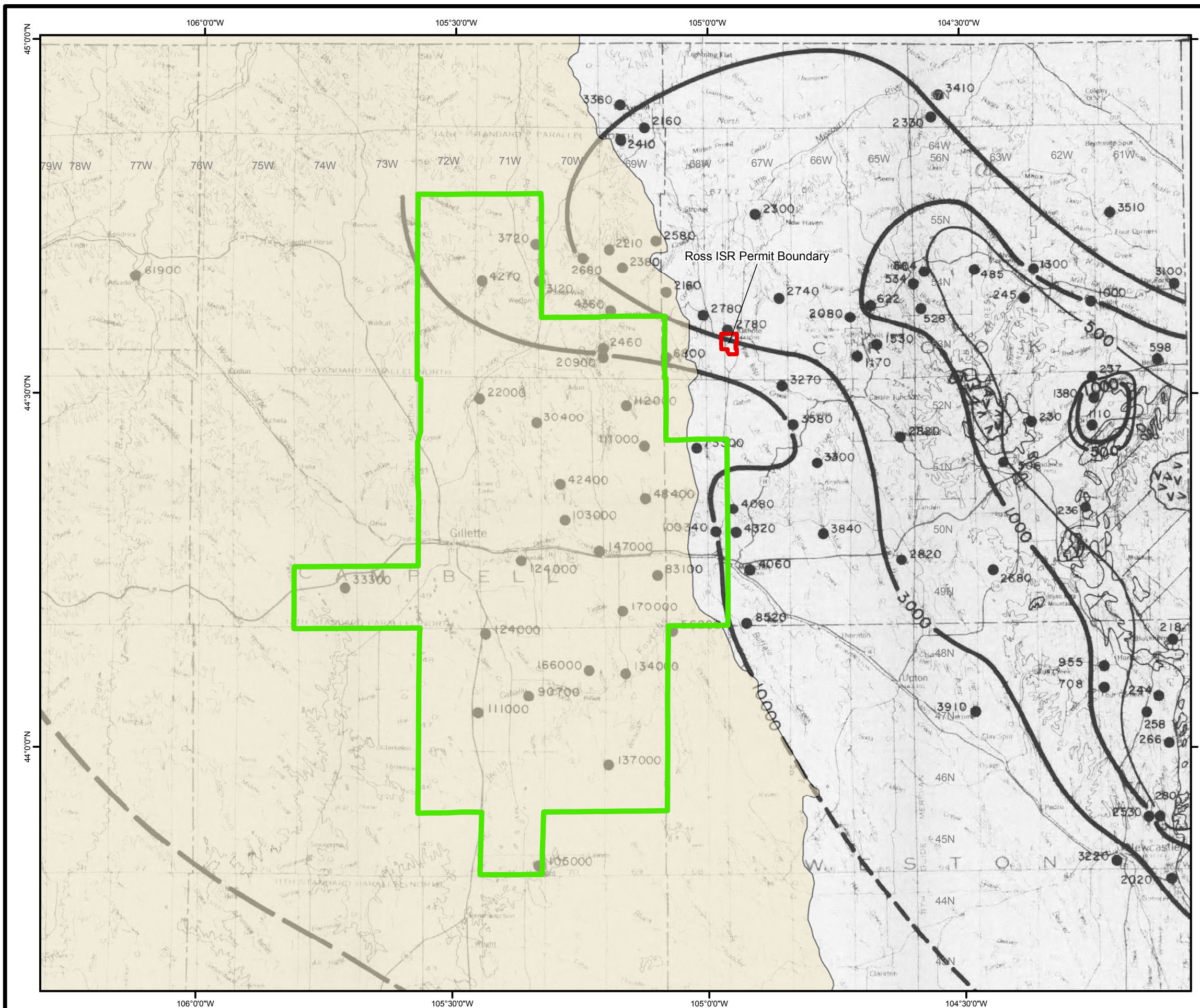
STRATA ENERGY

Figure 35
Local TDS of the Minnelusa Formation
WOGCC Data

2010 Ross ISR Class I Permit Application

Scale: 1:125,000	Date: May 2010
2010_Ross_CIPA_Fig_35.mxd	By: JLM Checked: HD

10288 West Chatfield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414
www.petrotek.com



- Legend**
- Minnelusa Aquifer Exemption Area
 - Ross ISR Permit Boundary
 - Powder River Basin Outline

EXPLANATION

- 3000 Dissolved Solids Contour Line in mg/l (dashed where inferred)
- Data Site - Numerals represent Total Dissolved Solids in mg/l
- Outcrop of Madison Aquifer System
- Precambrian rocks, undivided
- Tertiary intrusive rocks

Sources:
 Love and others, 1955; Hodson, 1971b, 1974;
 Water Resources Research Institute

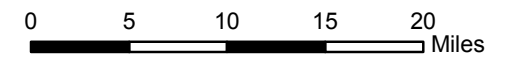
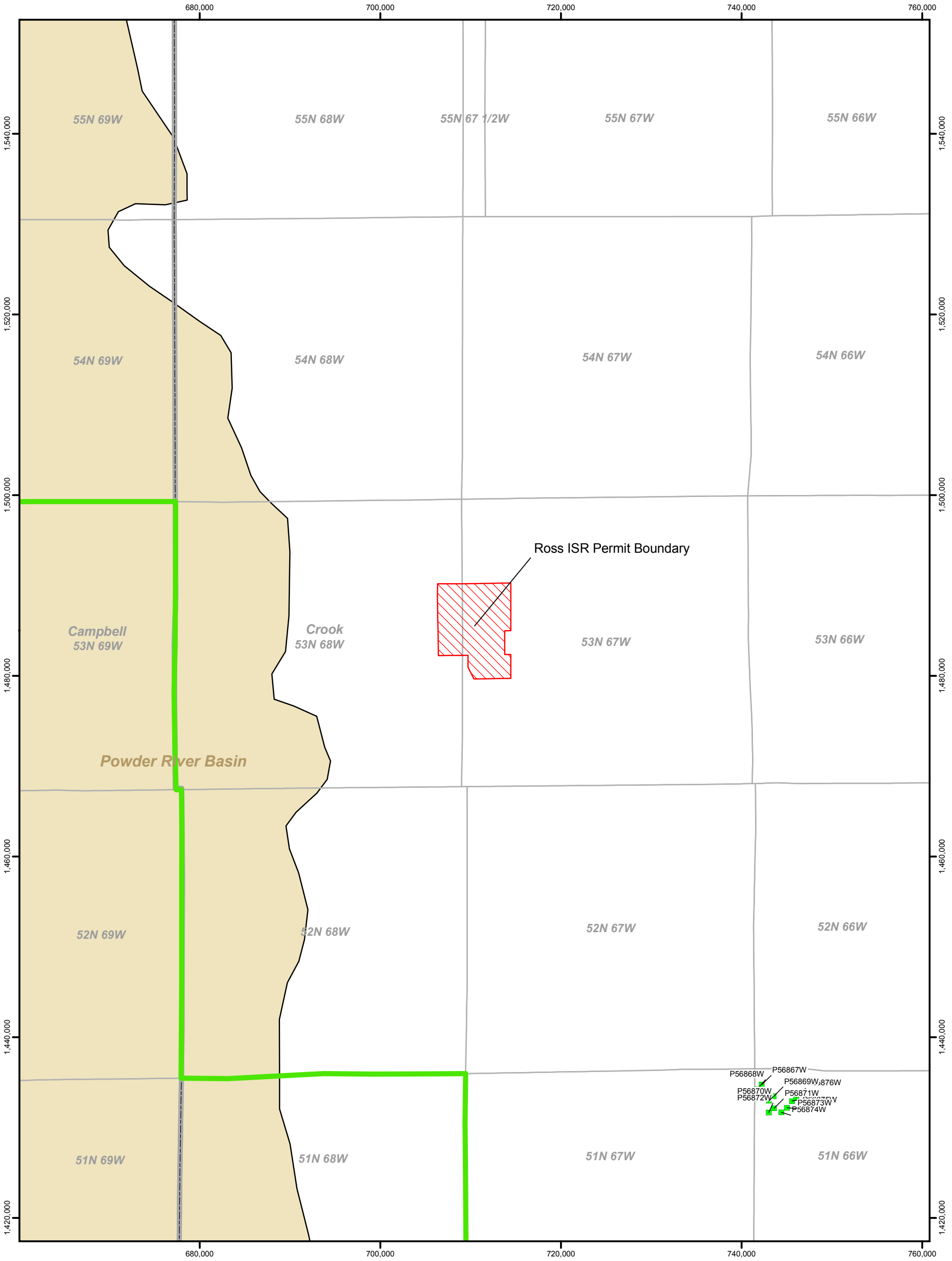


Figure 36
 Dissolved Solids in the
 Minnelusa Aquifer
 2010 Ross ISR Class I Permit Application

Scale: 1:600,000	Date: May 2010
2010_Ross_CIPA_Fig_36.mxd	By: JLM Checked: KC

10288 West Chatfield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414 www.petrotek.com

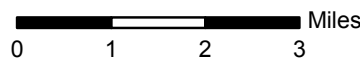
Projection: Wyoming State Plane East, NAD 83, (feet)



Legend

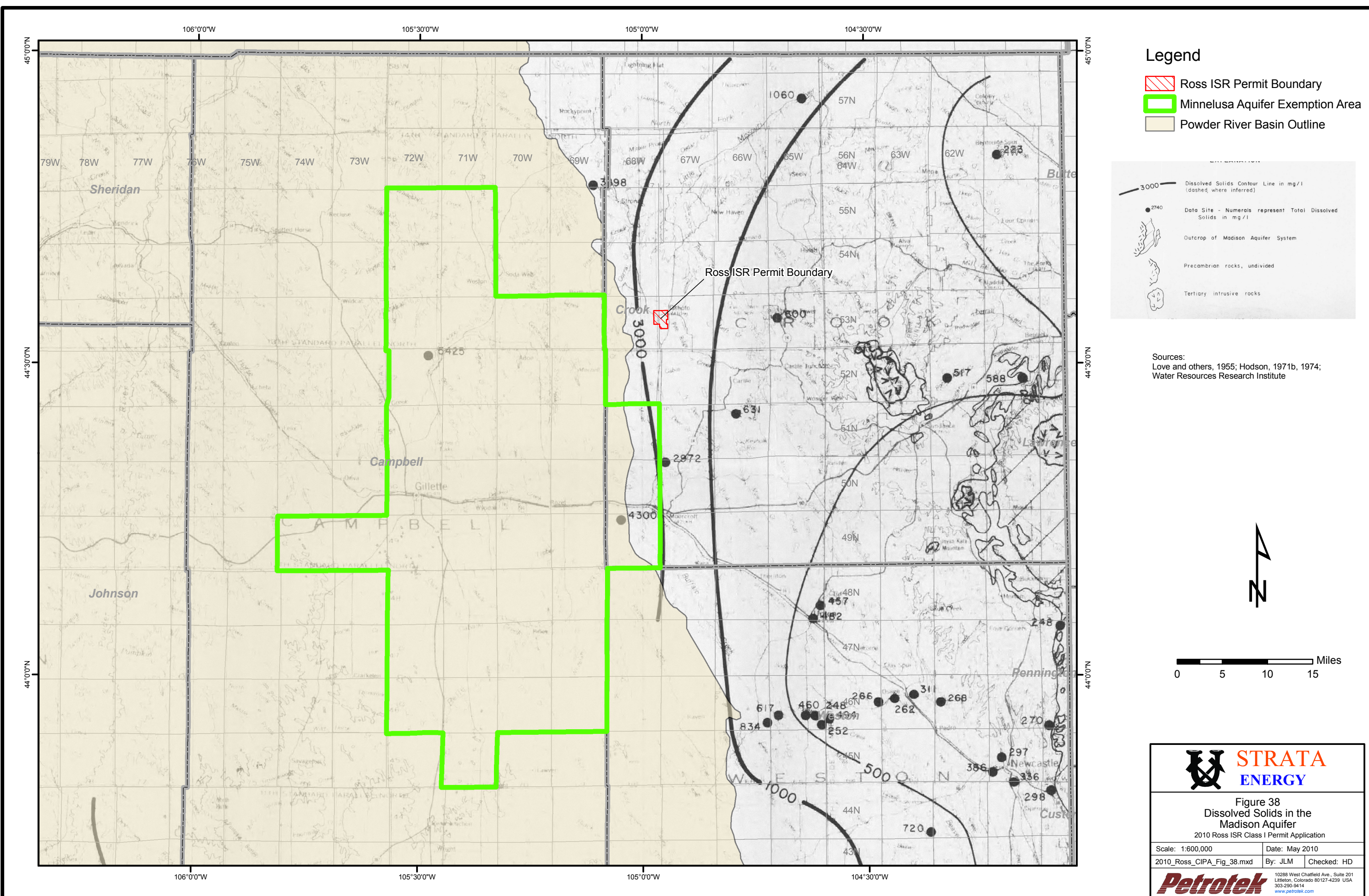
- | | |
|---|--------------------------------|
| USGS_WY_PW_TDS_Amsden_Madison_Formation | Gillette_Muni_Wells_Madison_FM |
| TDS | TDS_mg_L |
| ▲ 0 - 3,000 | ■ 0 - 3,000 |
| ▲ 3,001 - 10,000 | ■ 3,000 - 10,000 |
| ▲ 10,001 - 20,000 | ■ 10,000 - 20,000 |
| ▲ 20,001 - 400,000 | ■ 20,000 - 400,000 |
| ■ Powder River Basin Outline | |
| ■ Minnelusa Aquifer Exemption Area | |

Projection: Wyoming State Plane East, NAD83 (feet)






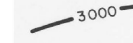


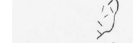

Note: Well Data is current through 1/26/2009

Figure 37 Local TDS of the Madison Formation USGS, WOGCC and NWIS Data	
2010 Ross ISR Class I Permit Application	
Scale: 1:125,000	Date: May 2010
2010_Ross_CIPA_Fig_37.mxd	By: JLM Checked: HD
10288 West Chatfield Ave., Suite 201 Littleton, Colorado 80127-4239 USA 303-290-9414 www.petrotek.com	

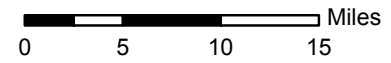


Legend

-  Ross ISR Permit Boundary
-  Minnelusa Aquifer Exemption Area
-  Powder River Basin Outline

 3000 Dissolved Solids Contour Line in mg/l (dashed where inferred)
 Data Site - Numerals represent Total Dissolved Solids in mg/l
 Outcrop of Madison Aquifer System
 Precambrian rocks, undivided
 Tertiary intrusive rocks

Sources:
 Love and others, 1955; Hodson, 1971b, 1974;
 Water Resources Research Institute





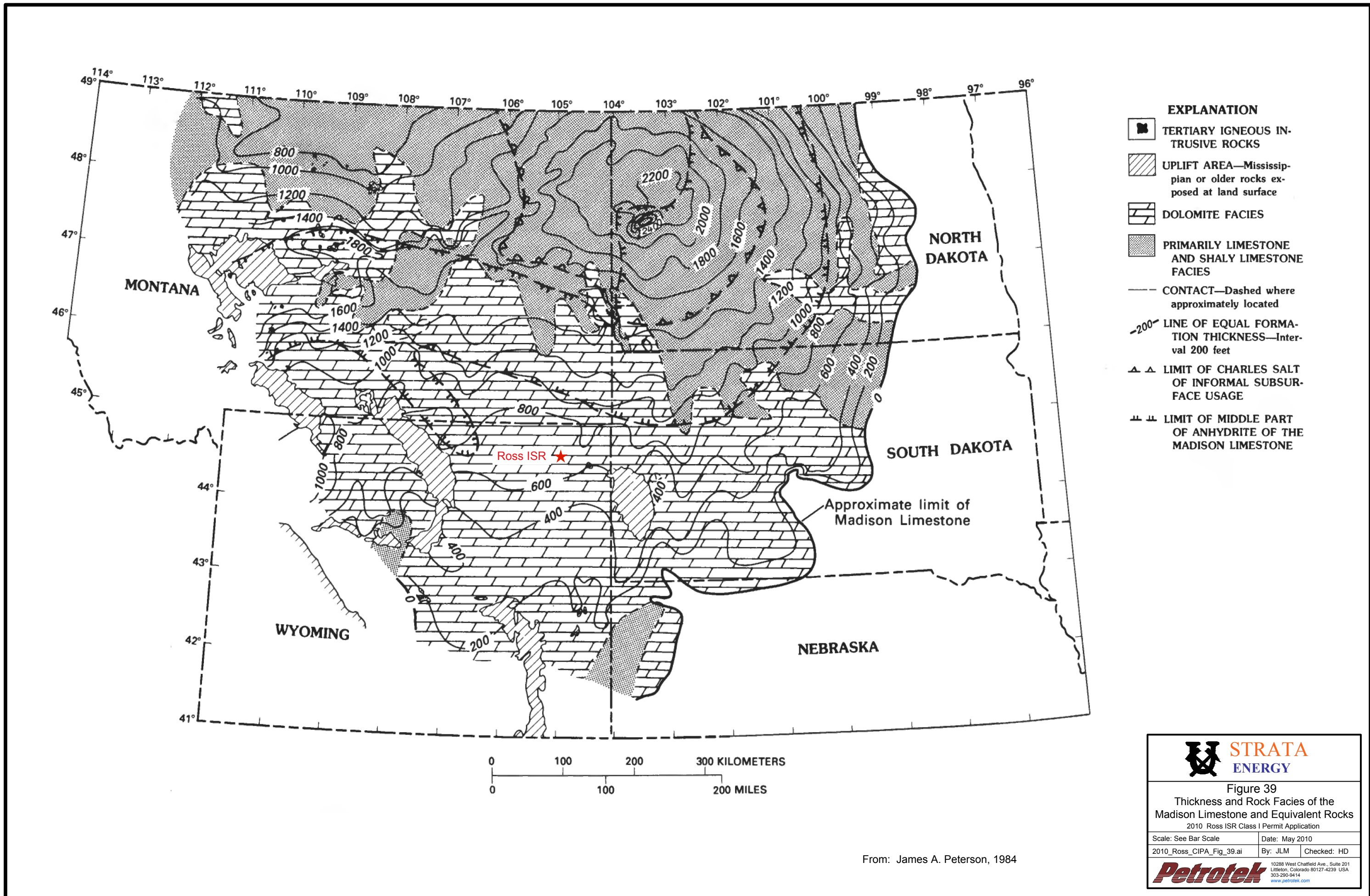
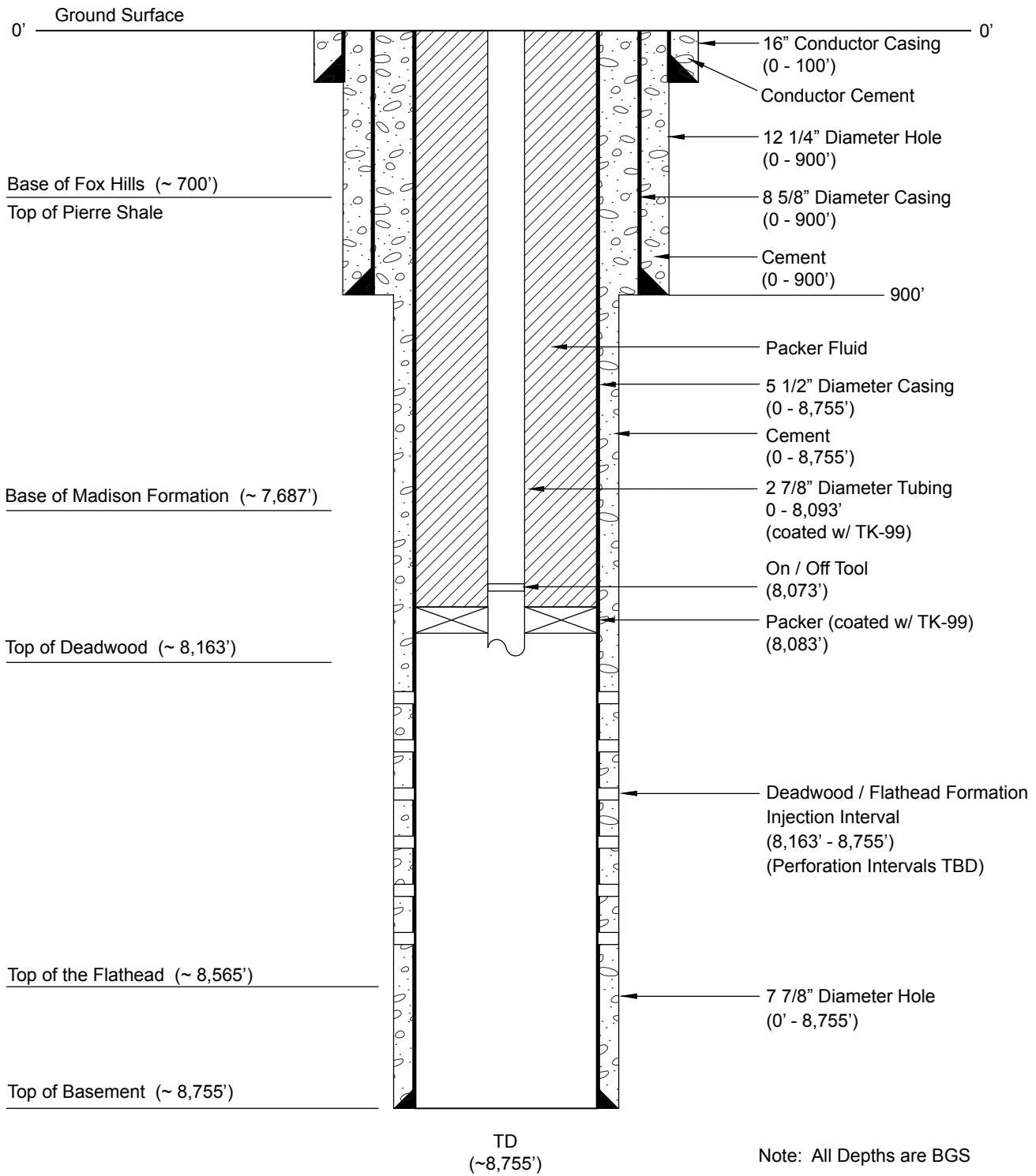


Figure 38
 Dissolved Solids in the
 Madison Aquifer
 2010 Ross ISR Class I Permit Application



Scale: 1:600,000	Date: May 2010
2010_Ross_CIPA_Fig_38.mxd	By: JLM Checked: HD

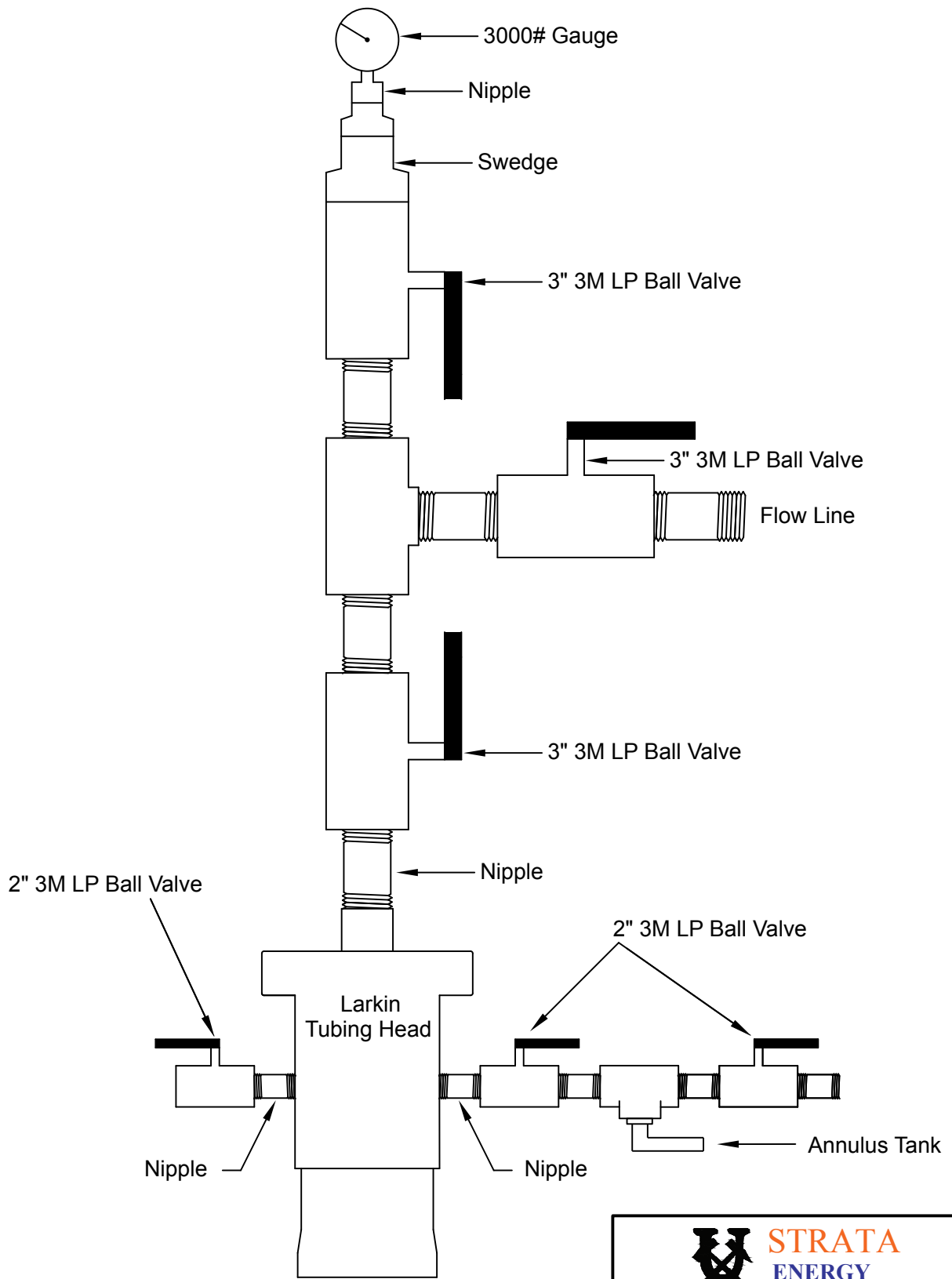

 10288 West Chaffield Ave., Suite 201
 Littleton, Colorado 80127-4239 USA
 303-290-9414
www.petrotek.com







Not to Scale

		
Figure 40 Proposed Well Schematic, Ross Disposal Wells		
2010 Ross ISR Class I Permit Application		
Scale: NTS	Date: May 2010	
2010_Ross_CIPA_Fig_40.ai	By: JLM	Checked: HD
		
10288 West Chatfield Ave., Suite 201 Littleton, Colorado 80127-4239 USA 303-290-9414 www.petrotek.com		



NOT TO SCALE

	
Figure 41 Proposed Wellhead (Tree) Schematic, Ross Disposal Wells 2010 Ross ISR Class I Permit Application	
Scale: Not to Scale	Date: May 2010
2010_Ross_CIPA_Fig_41.ai	By: JLM Checked: HD
	
10288 West Chatfield Ave., Suite 201 Littleton, Colorado 80127-4239 USA 303-290-9414 www.petrotek.com	