

Petrotek
10200 West Chalk Creek Ave. Suite 201
 Ureah, Colorado 81629-4201
 970.293.6676
 www.petrotek.com

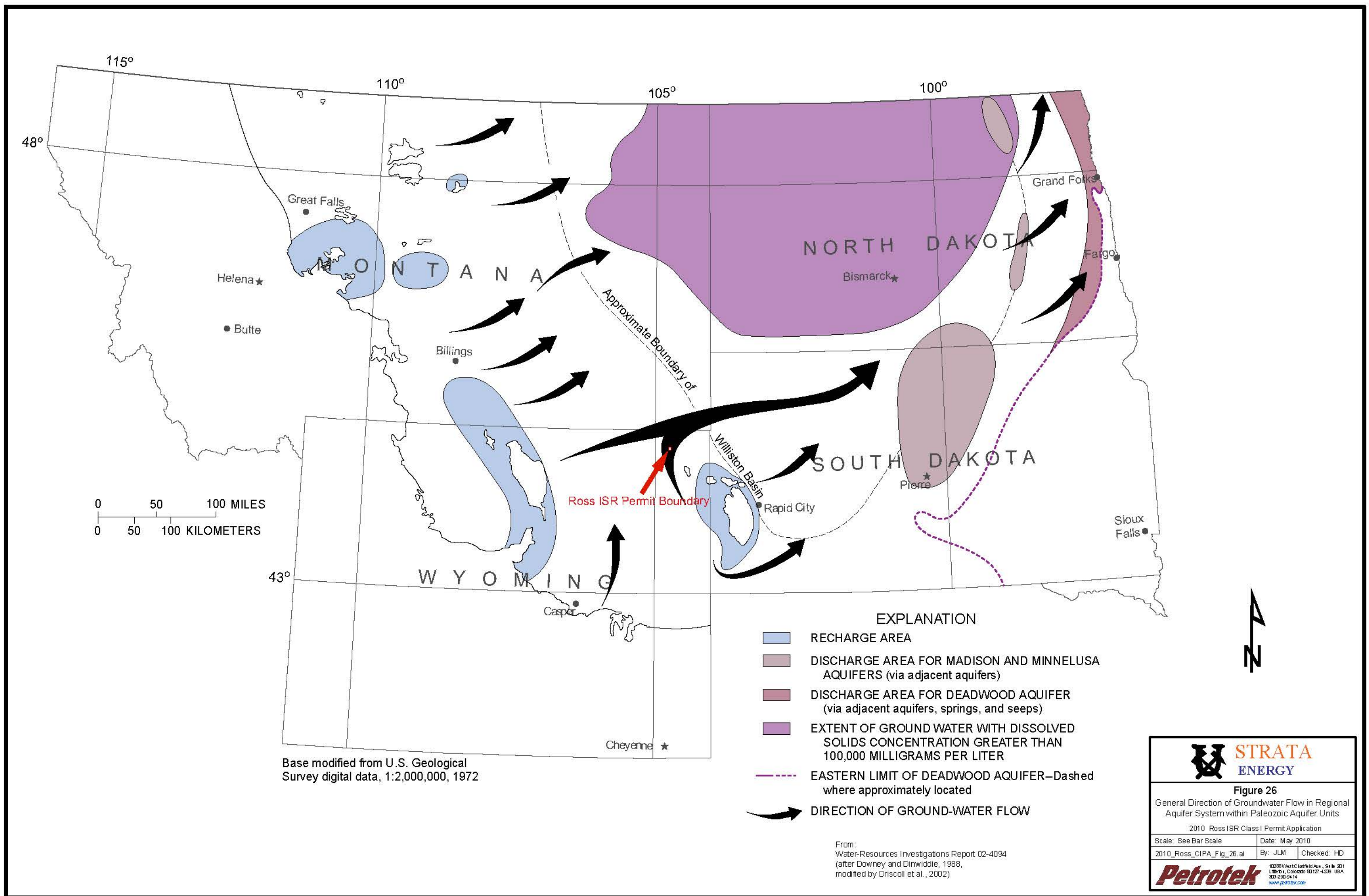
Ross Uranium Project

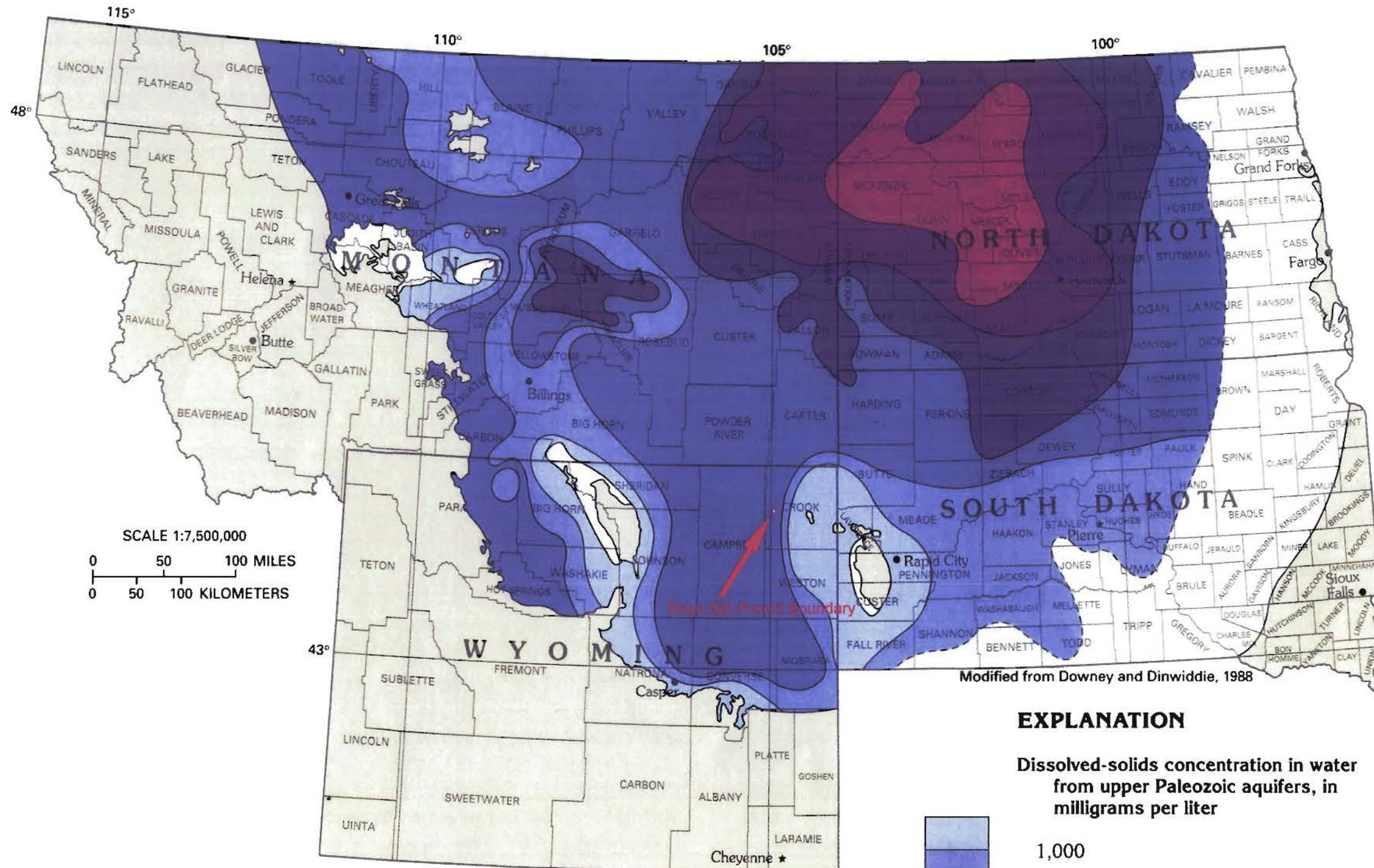
2010 Ross ISR Class I Permit Application

Figure 24

Structural Cross-section A - A'

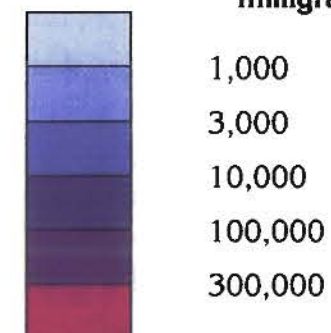
By: KRS Checked: WJ





EXPLANATION

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



Aquifers absent

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



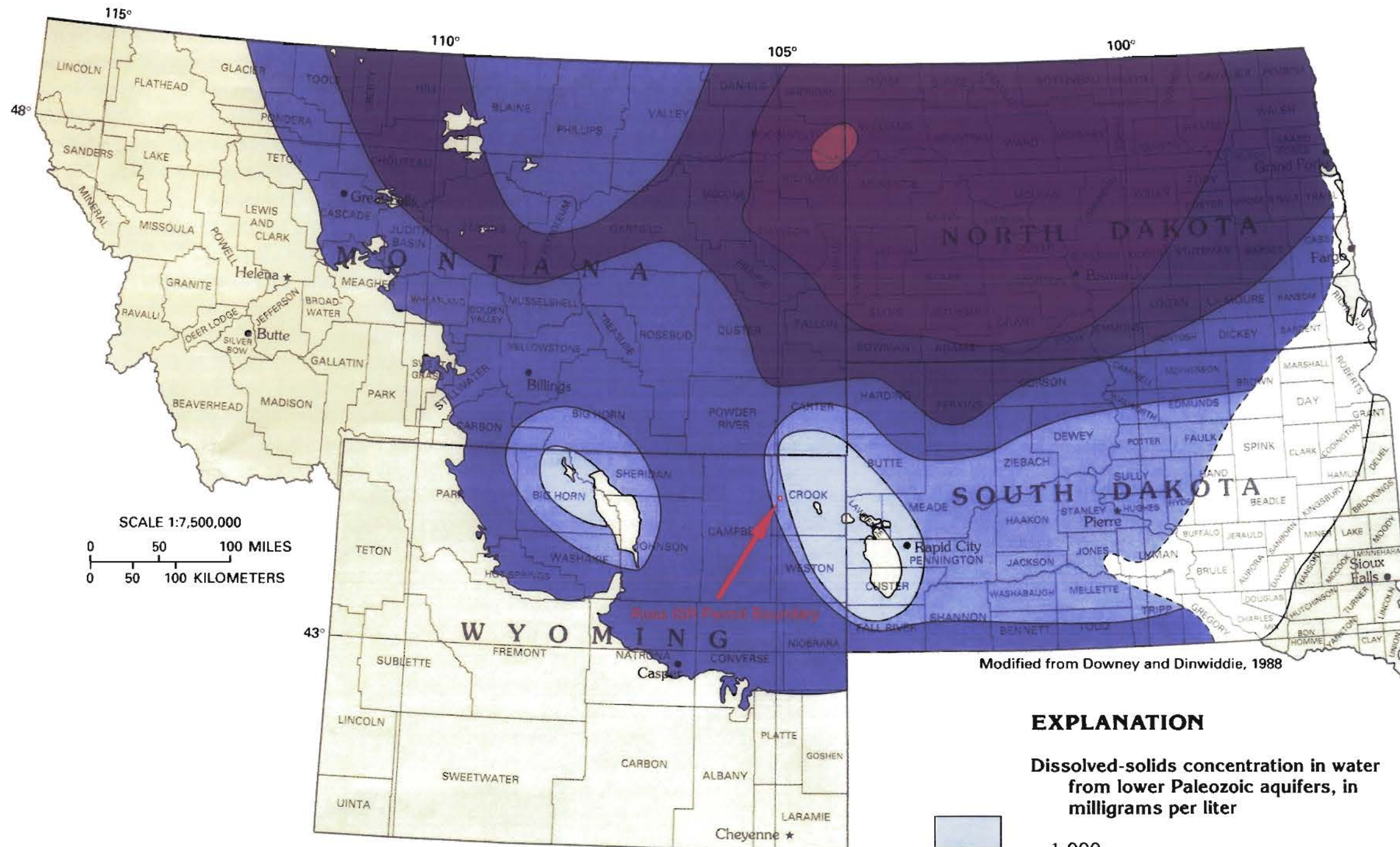
Figure 27

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



Modified from Downey and Dinwiddie, 1988

EXPLANATION

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



1,000
3,000
10,000
100,000
300,000



Aquifers absent

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

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



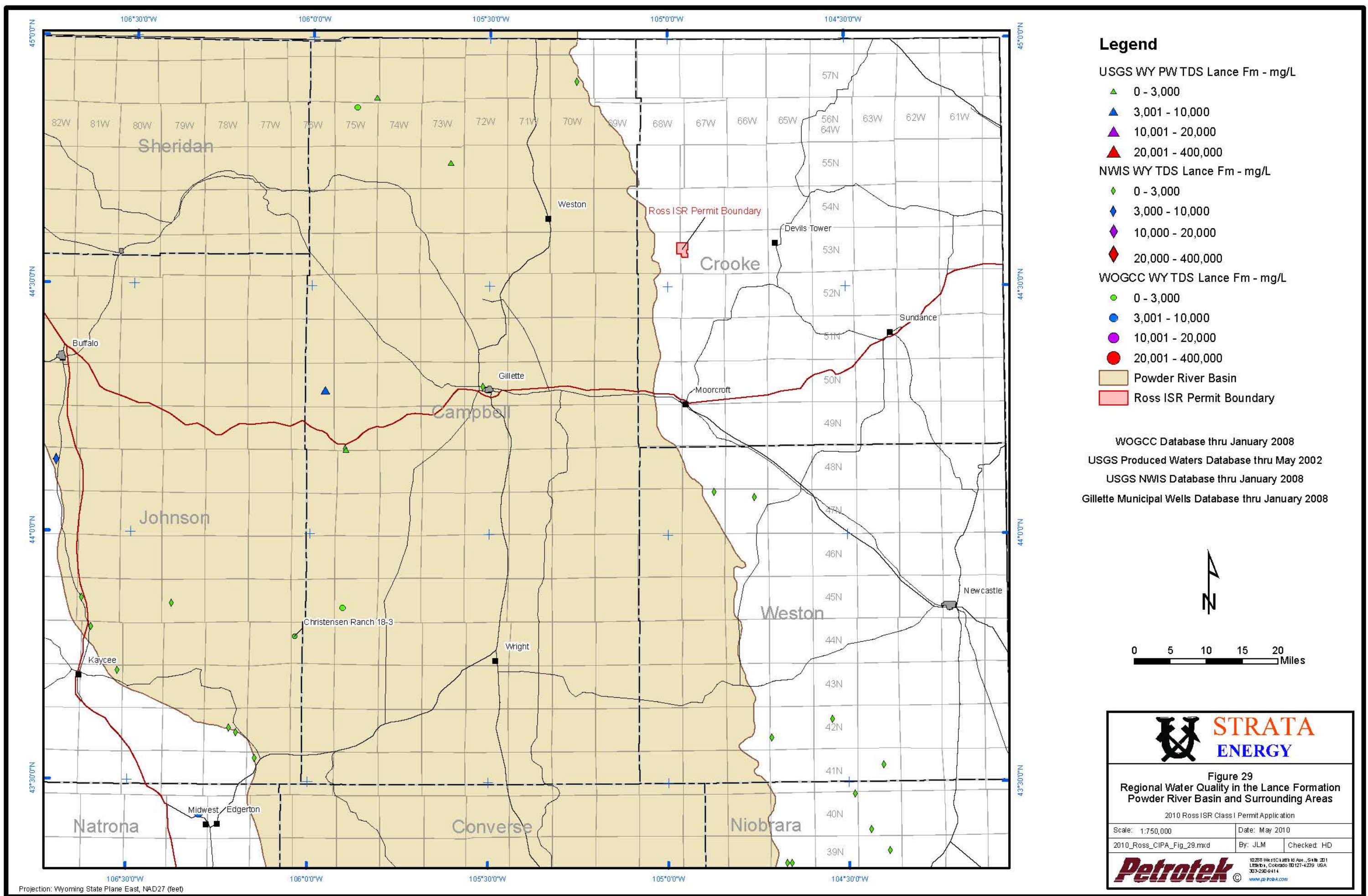
Figure 28

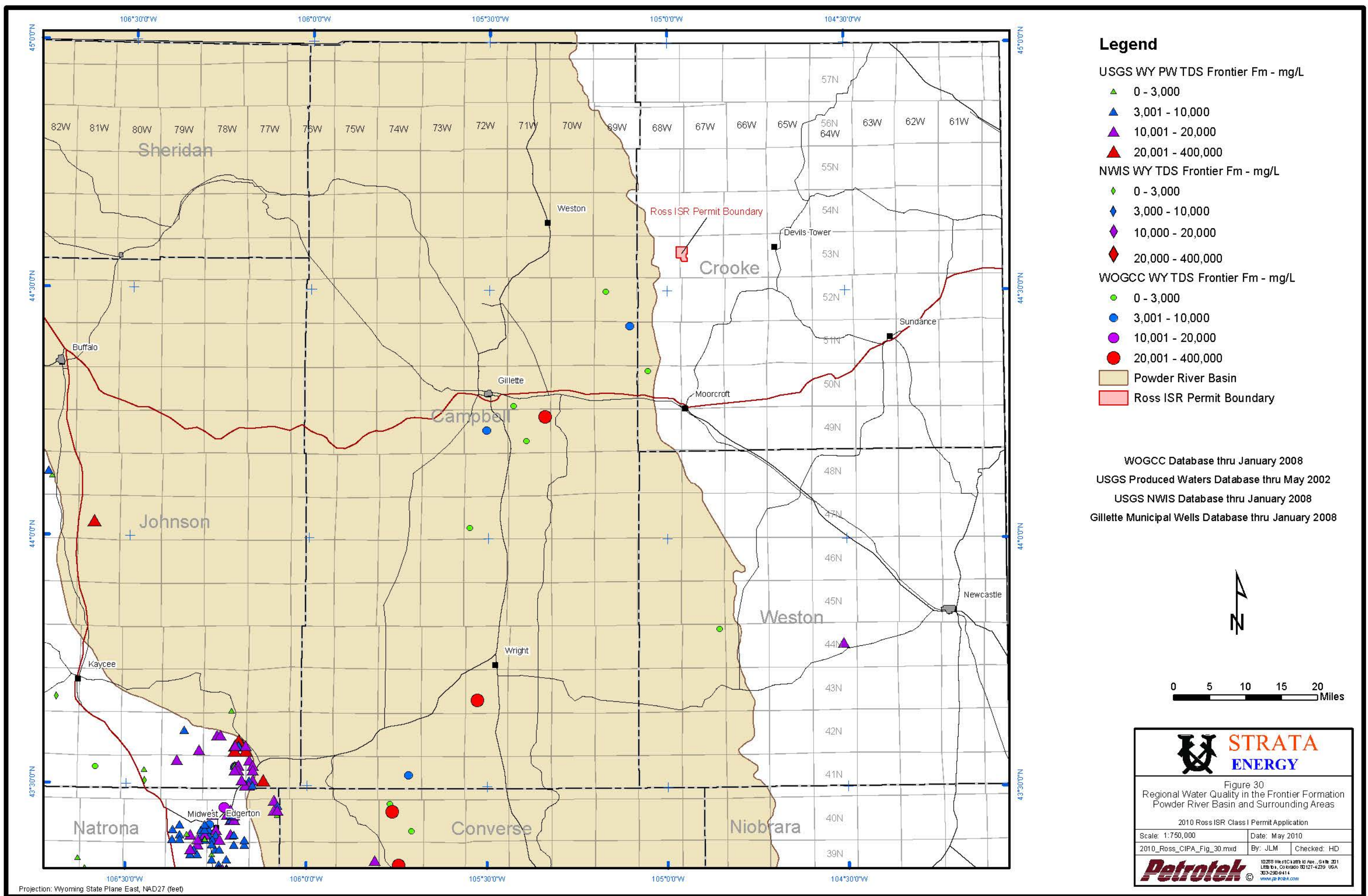
Dissolved Solids Concentrations in Lower Paleozoic
Aquifer System, Powder River and Williston Basins

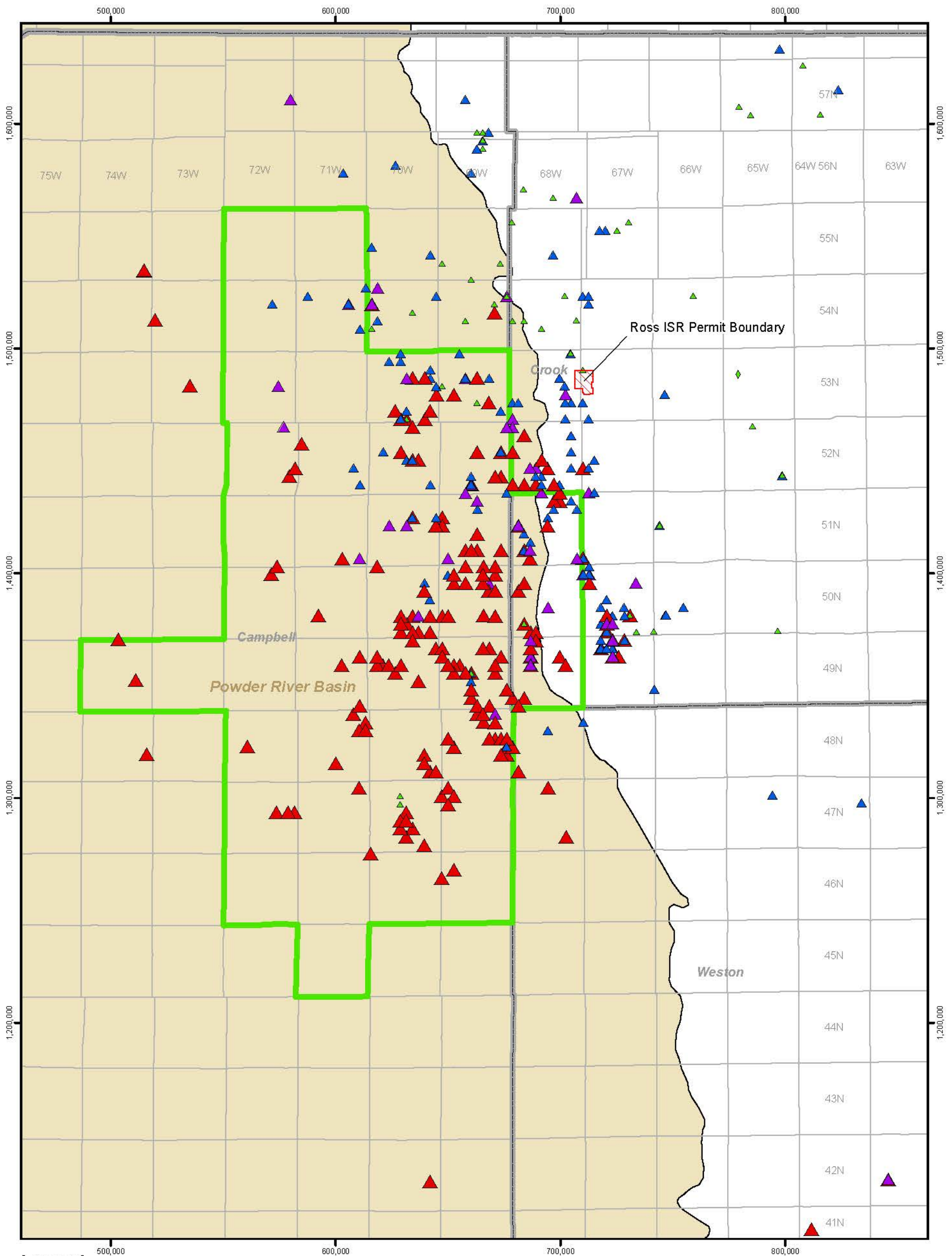
2010 Ross ISR Class I Permit Application

Scale: See Bar Scale	Date: May 2010
2010_Ross_CIPA_Fig_28.ai	By: JLM Checked: HD

Petrotek
10258 West Charfield Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-290-9414
www.petrotek.com

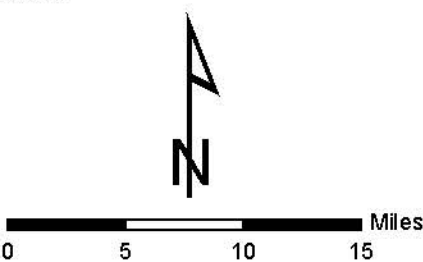






Legend

- USGS_WY_PW_TDS_Minnelusa_Formation NWIS_WY_TDS_Minnelusa_Formations
- TDS
- 0 - 3,000
 - 3,001 - 10,000
 - 10,001 - 20,000
 - 20,001 - 400,000
- Param_Resu
- 0 - 3,000
 - 3,000 - 10,000
 - 10,000 - 20,000
 - 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)

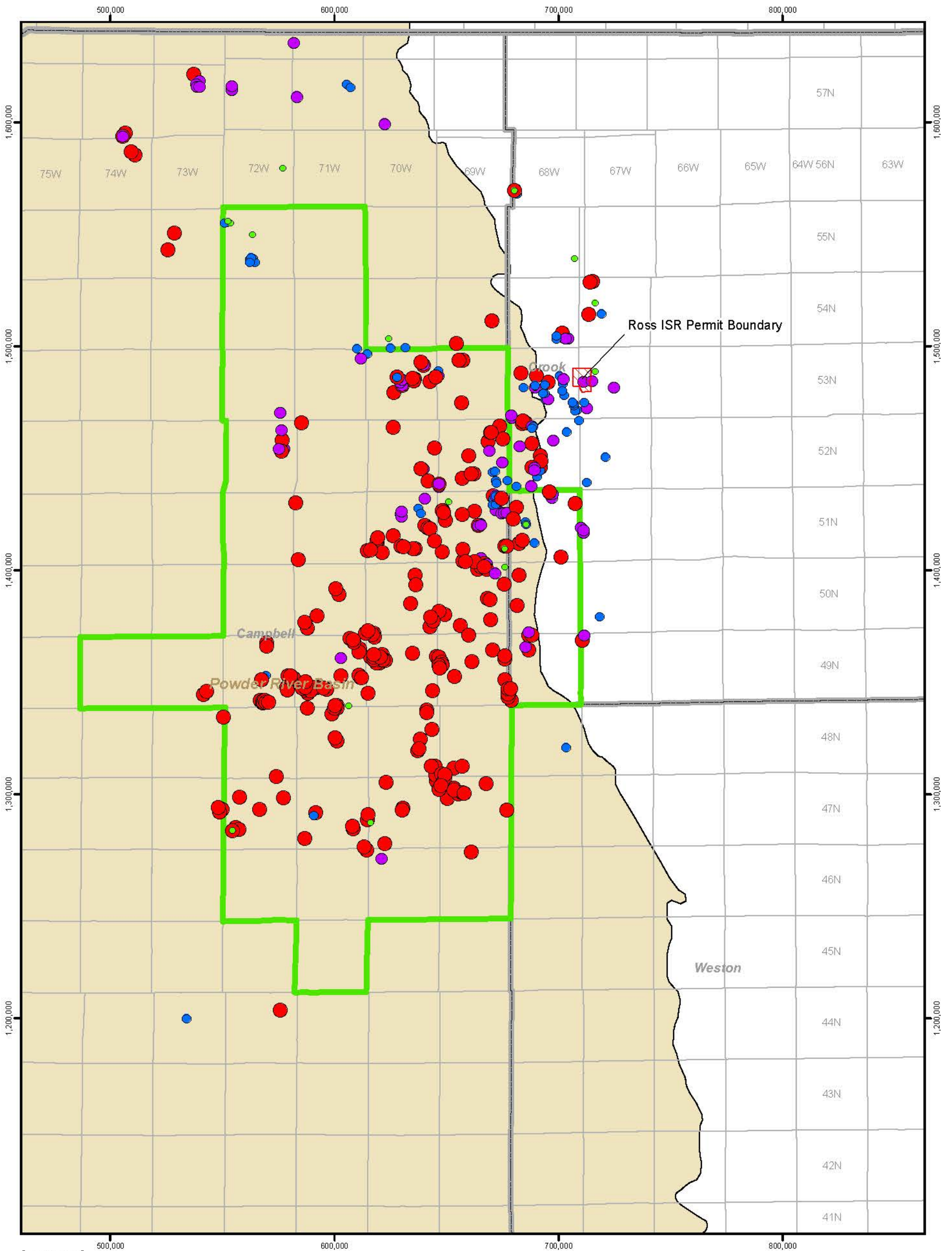
**STRATA
ENERGY**

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

Petrotek 10288 West Clark Ave., Suite 201
Littleton, Colorado 80121-4239 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




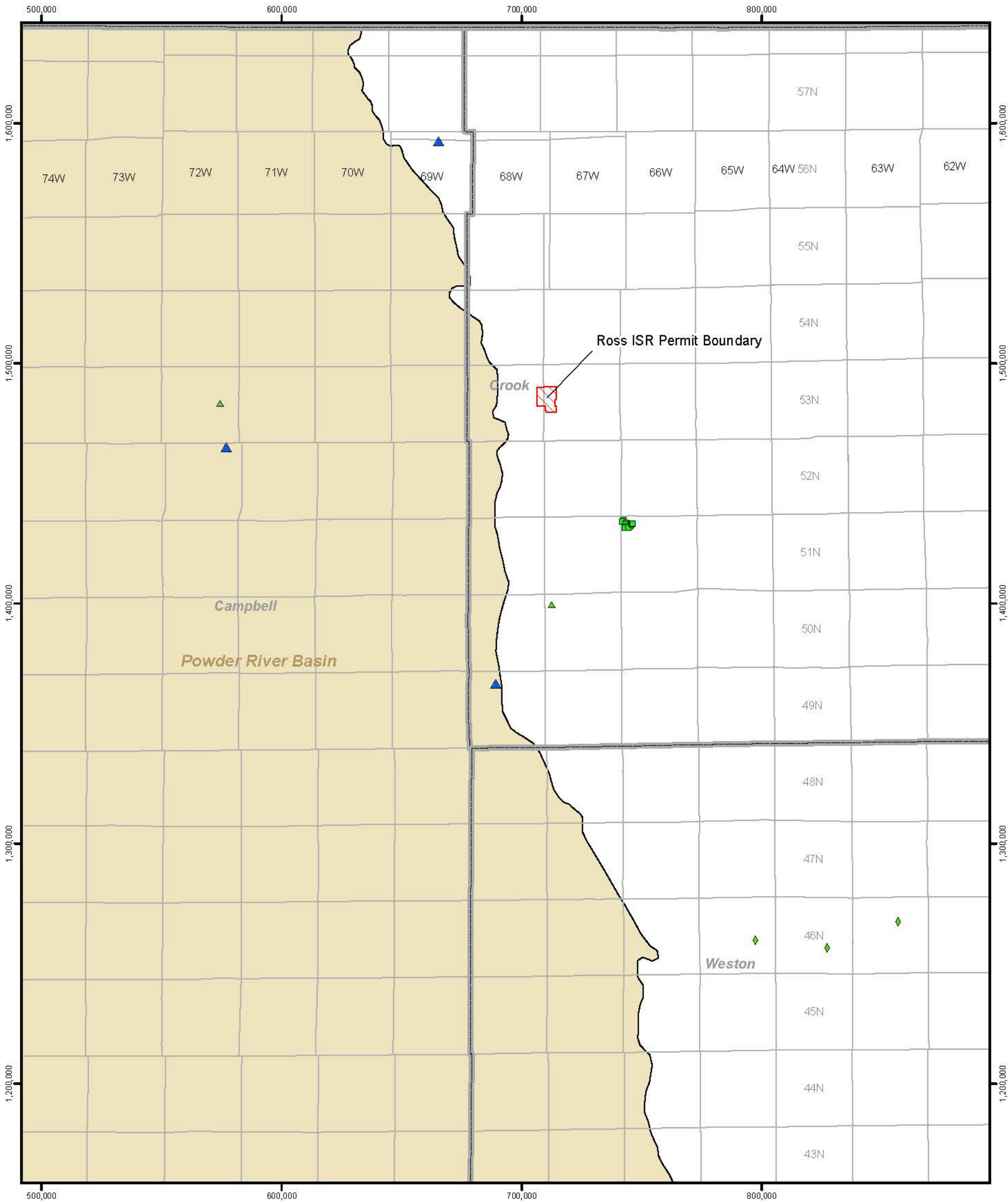
**STRATA
ENERGY**

Figure 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 10th Ave., Suite 201
Littleton, Colorado 80120-4239 USA
303-290-9414
www.petrotek.com



Legend

- USGS_WY_PW_TDS_Amsden_Madison_Formation

TDS

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

Param_Resu

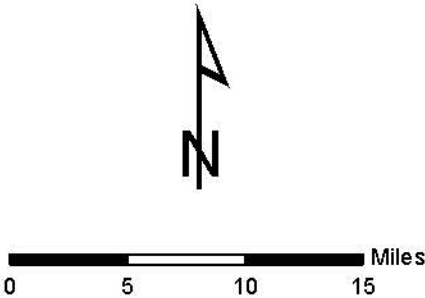
 - 0 - 3,000
 - 3,000 - 10,000
 - 10,000 - 20,000
 - 20,000 - 400,000
- WOGCC_WY_TDS_Amsden_Darwin_Formations

TDS

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

TDS_mg_L

 - 0 - 3,000
 - 3,000 - 10,000
 - 10,000 - 20,000
 - 20,000 - 400,000
- Powder River Basin Outline



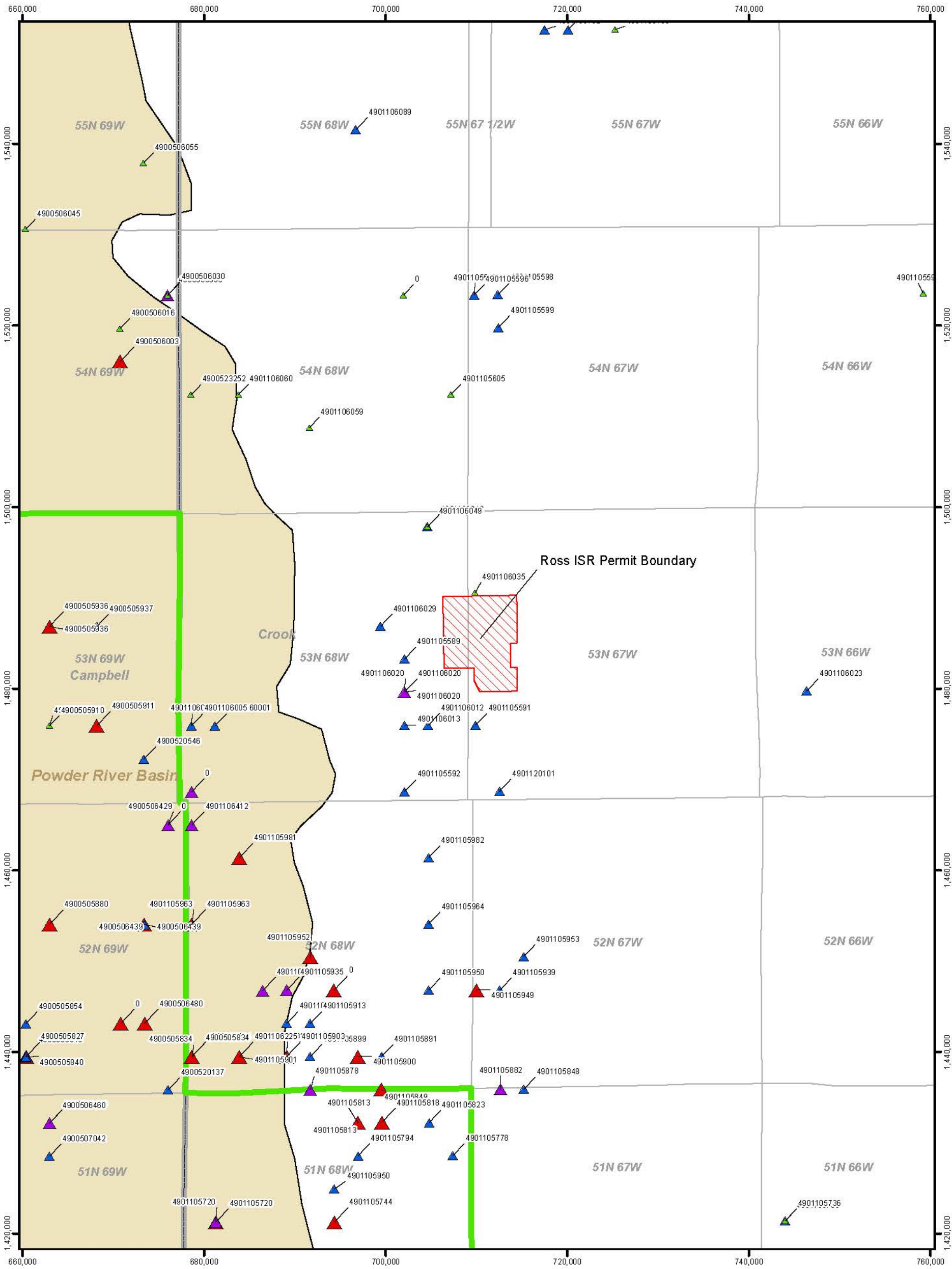
Note: Well Data is current through 1/26/2009

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 Clark Ave., Suite 201
Littleton, Colorado 80121-4239 USA
303-290-9414
www.petrotek.com



Legend

- USGS_WY_PW_TDS_Minnelusa_Formation

TDS

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

Param_Resu

 - 0 - 3,000
 - 3,000 - 10,000
 - 10,000 - 20,000
 - 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

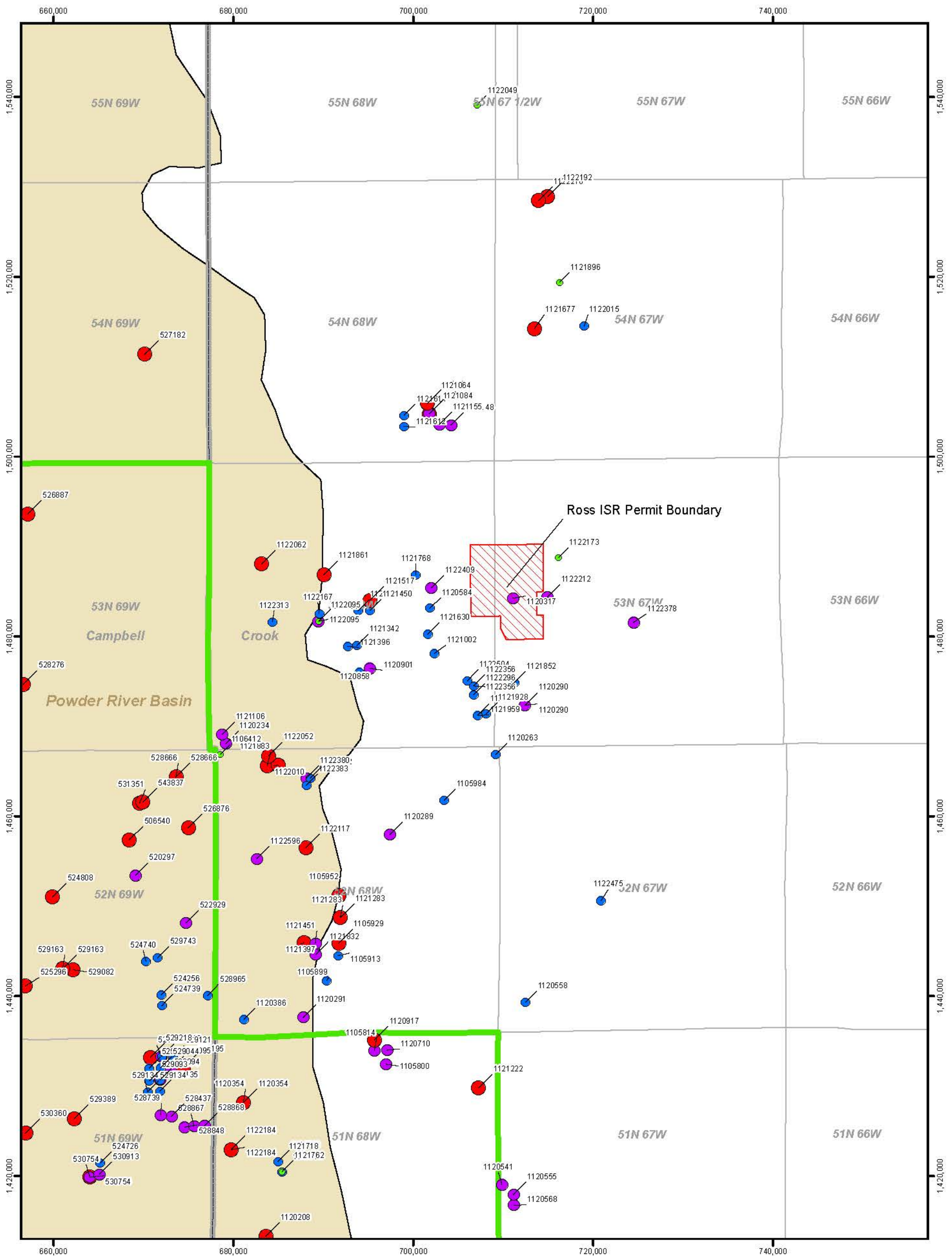
**STRATA
ENERGY**

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 Clark Ave., Suite 201
Littleton, Colorado 80120-4239 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)



0 1 2 3 Miles

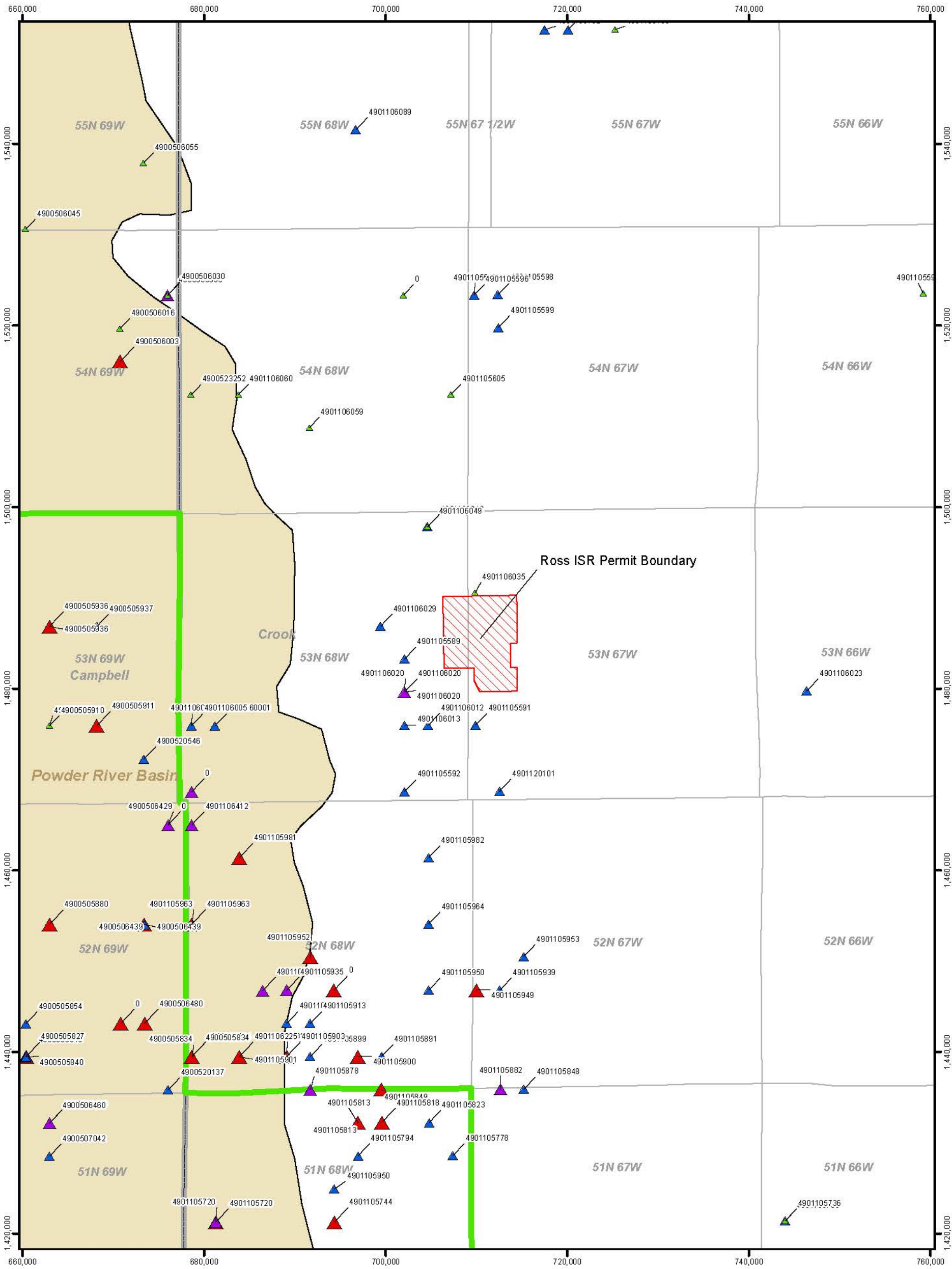
Note: Well Data is current through 1/26/2009

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 Clinton Ave., Suite 201
Littleton, Colorado 80121-4239 USA
303-290-9414
www.petrotek.com



Legend

- USGS_WY_PW_TDS_Minnelusa_Formation

TDS

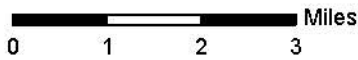
 - 0 - 3,000
 - 3,001 - 10,000
 - 10,001 - 20,000
 - 20,001 - 400,000
- NWIS_WY_TDS_Minnelusa_Formations

Param_Resu

 - 0 - 3,000
 - 3,000 - 10,000
 - 10,000 - 20,000
 - 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

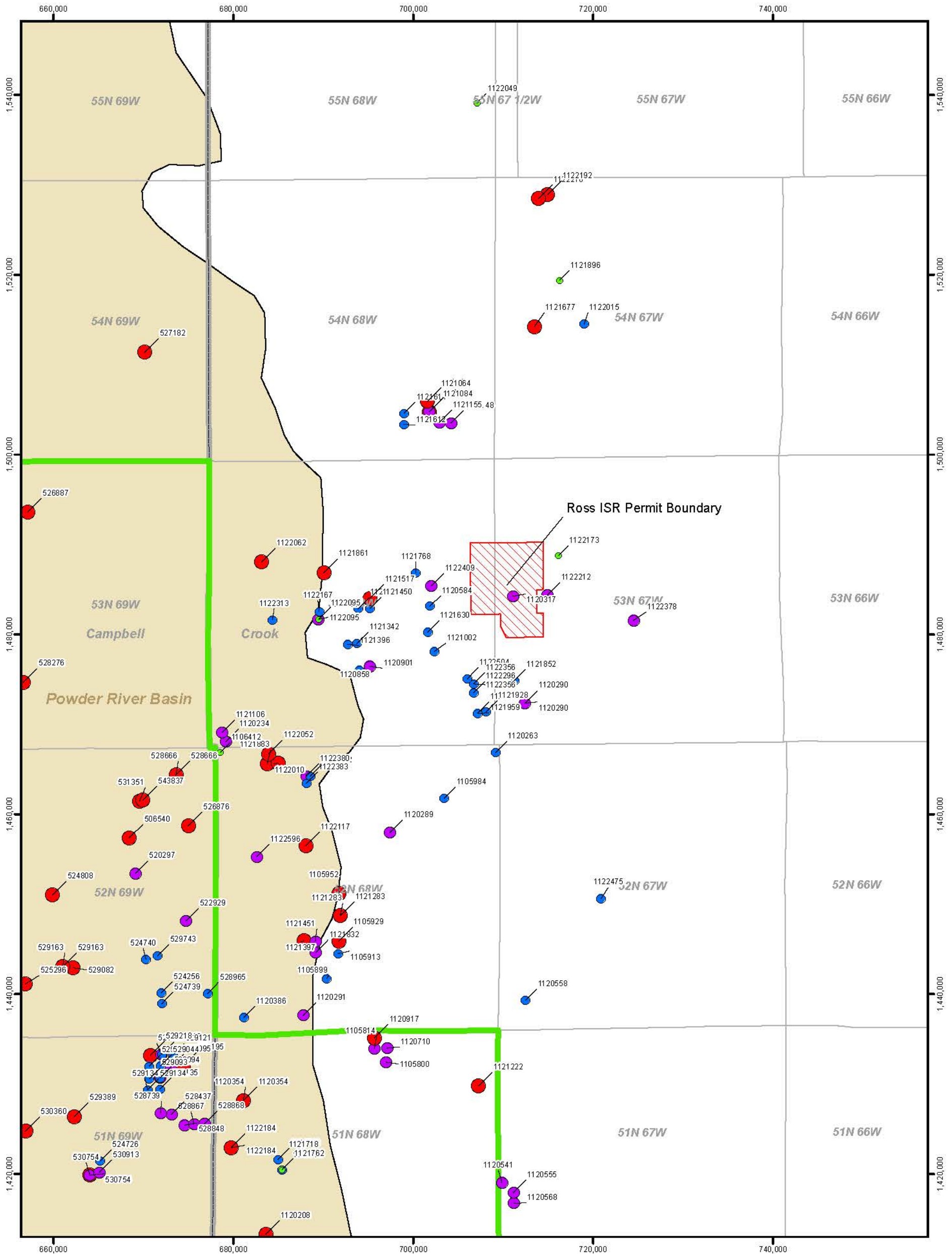
**STRATA
ENERGY**

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

Petrotek 10288 West Clark Ave., Suite 201
Littleton, Colorado 80121-4239 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)



0 1 2 3 Miles

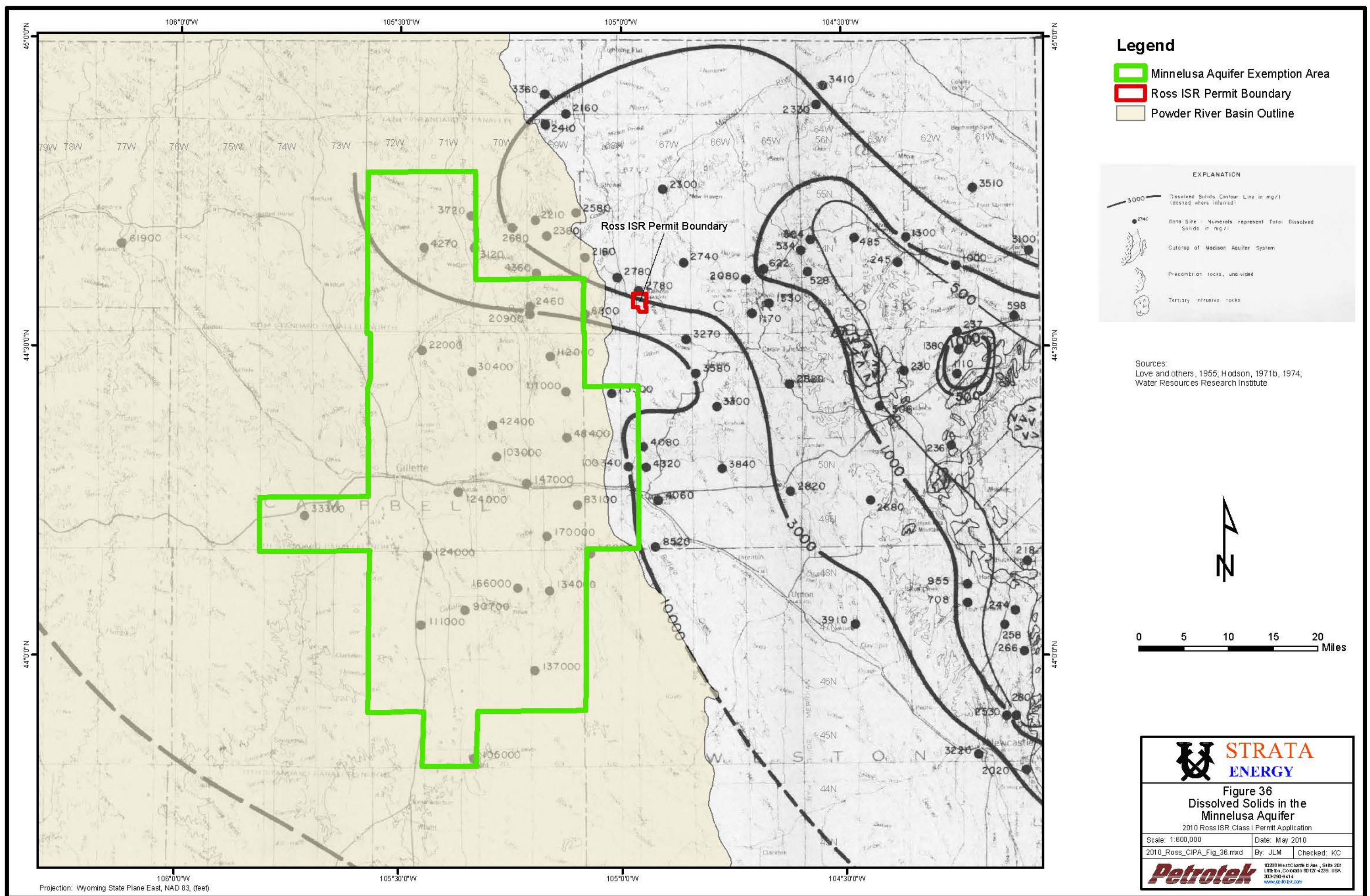
Note: Well Data is current through 1/26/2009

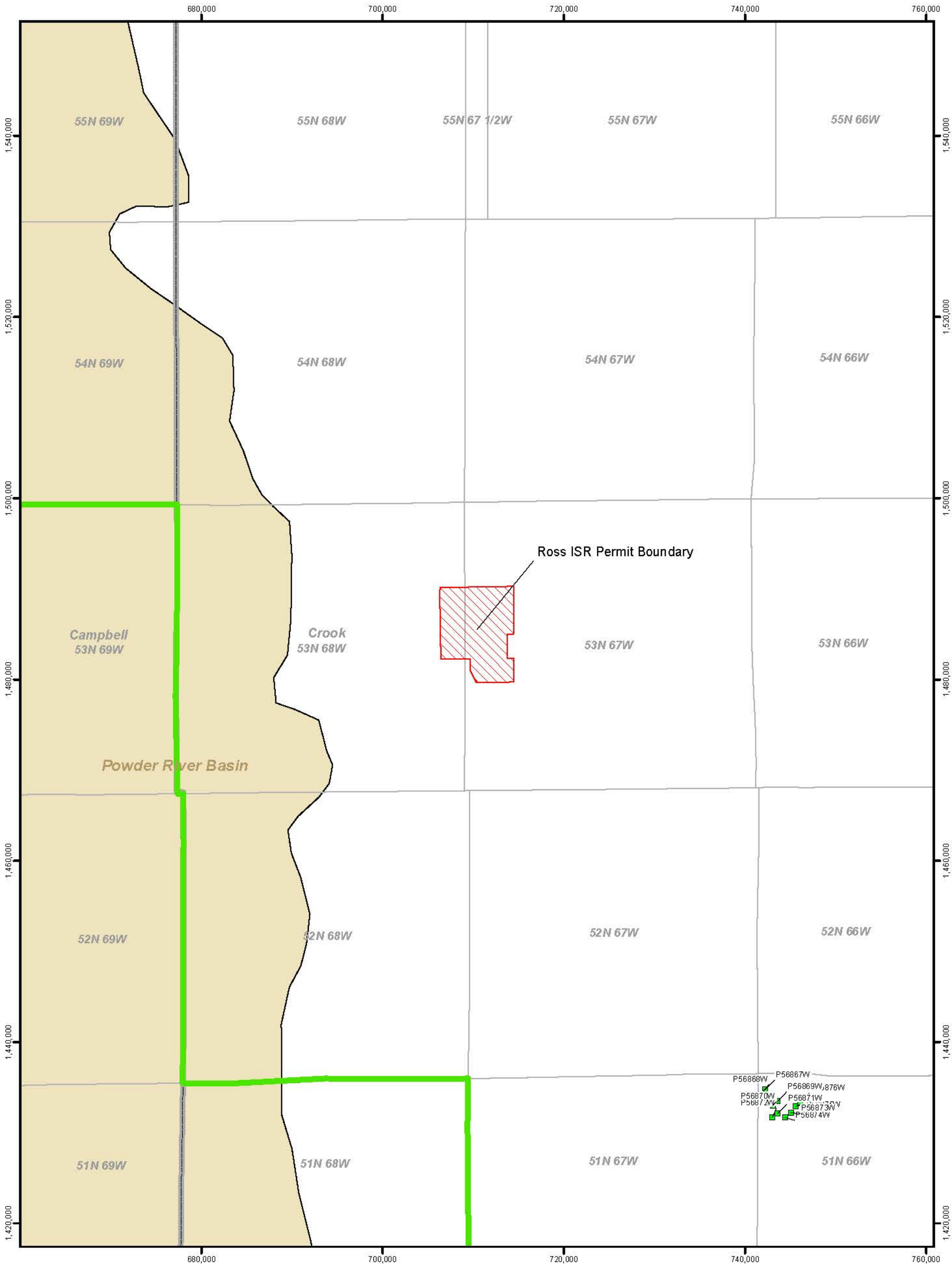
Figure 35
Local TDS of the Minnelusa Formation
WOGCC Data

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 Clinton Ave., Suite 201
Littleton, Colorado 80121-4239 USA
303-290-9414
www.petrotek.com





Legend

- USGS_WY_PW_TDS_Amsden_Madison_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
- Gillette_Muni_Wells_Madison_FM

TDS_mg_L

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

Projection: Wyoming State Plane East, NAD83 (feet)

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



**STRATA
ENERGY**

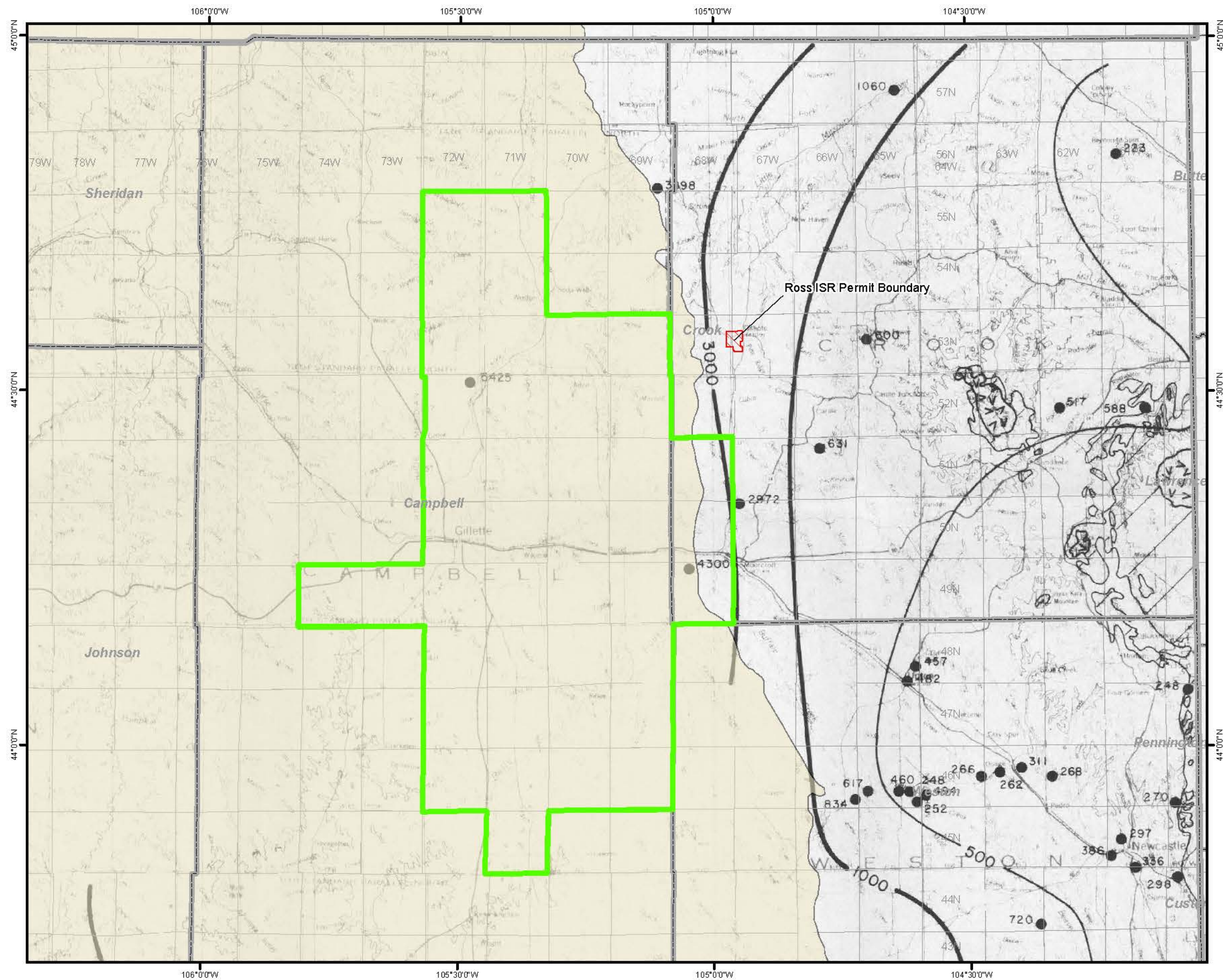
Figure 37
Local TDS of the Madison Formation
USGS, WOGCC and NWS Data

2010 Ross ISR Class I Permit Application

Scale: 1:125,000	Date: May 2010
2010_Ross_CIPA_Fig_37.mxd	By: JLM Checked: HD

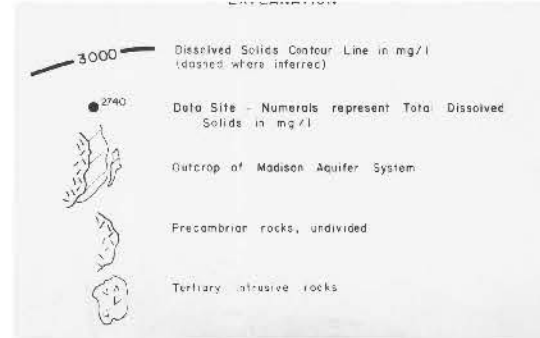


10288 West Clarksburg Ave., Suite 201
Littleton, Colorado 80121-4239 USA
303-290-9414
www.petrotek.com

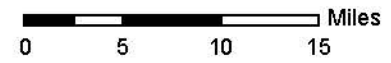


Legend

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



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

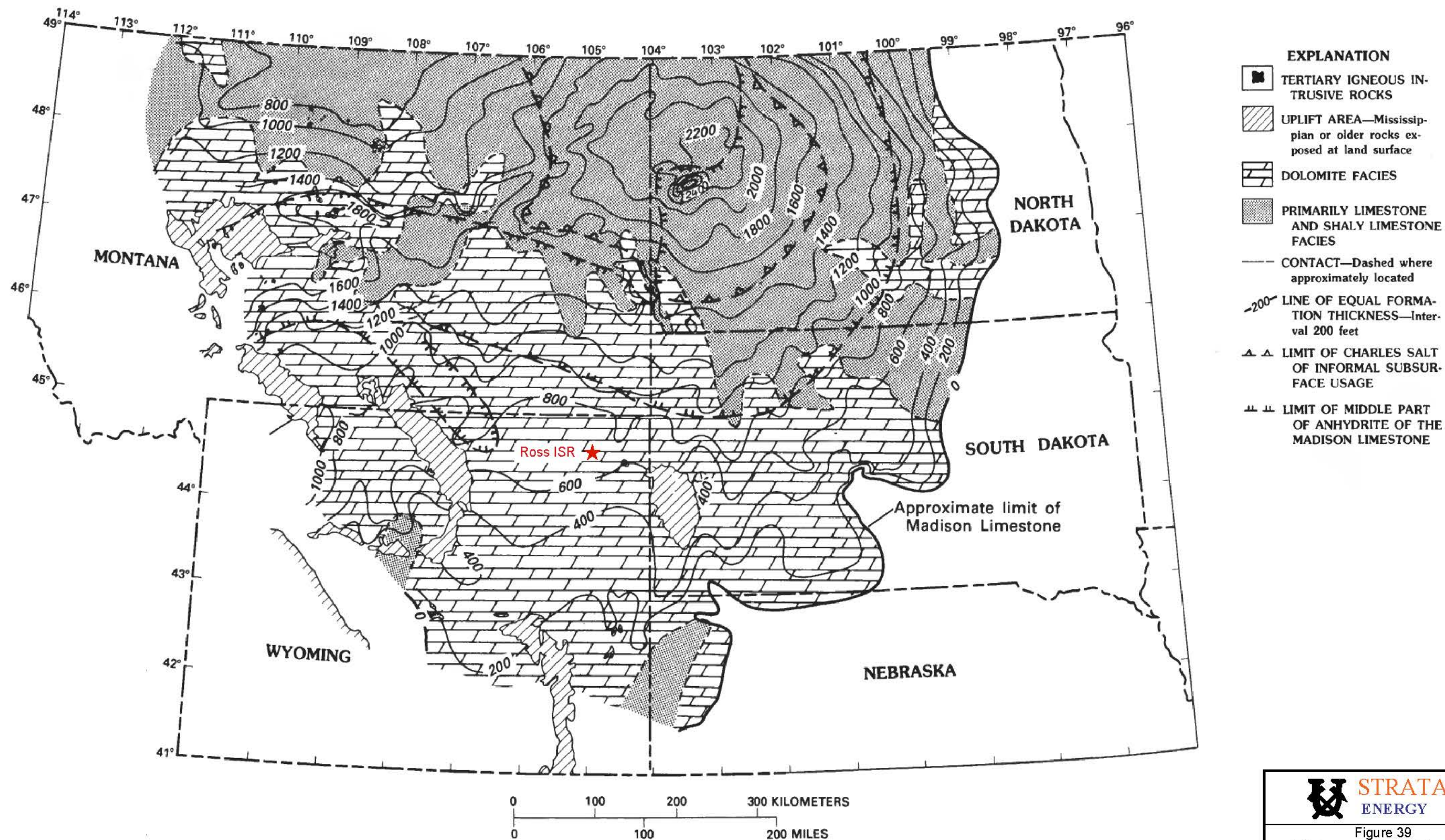


STRATA
ENERGY

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 10th Ave., Suite 201
Littleton, Colorado 80120-4239 USA
303-290-9414
www.petrotek.com



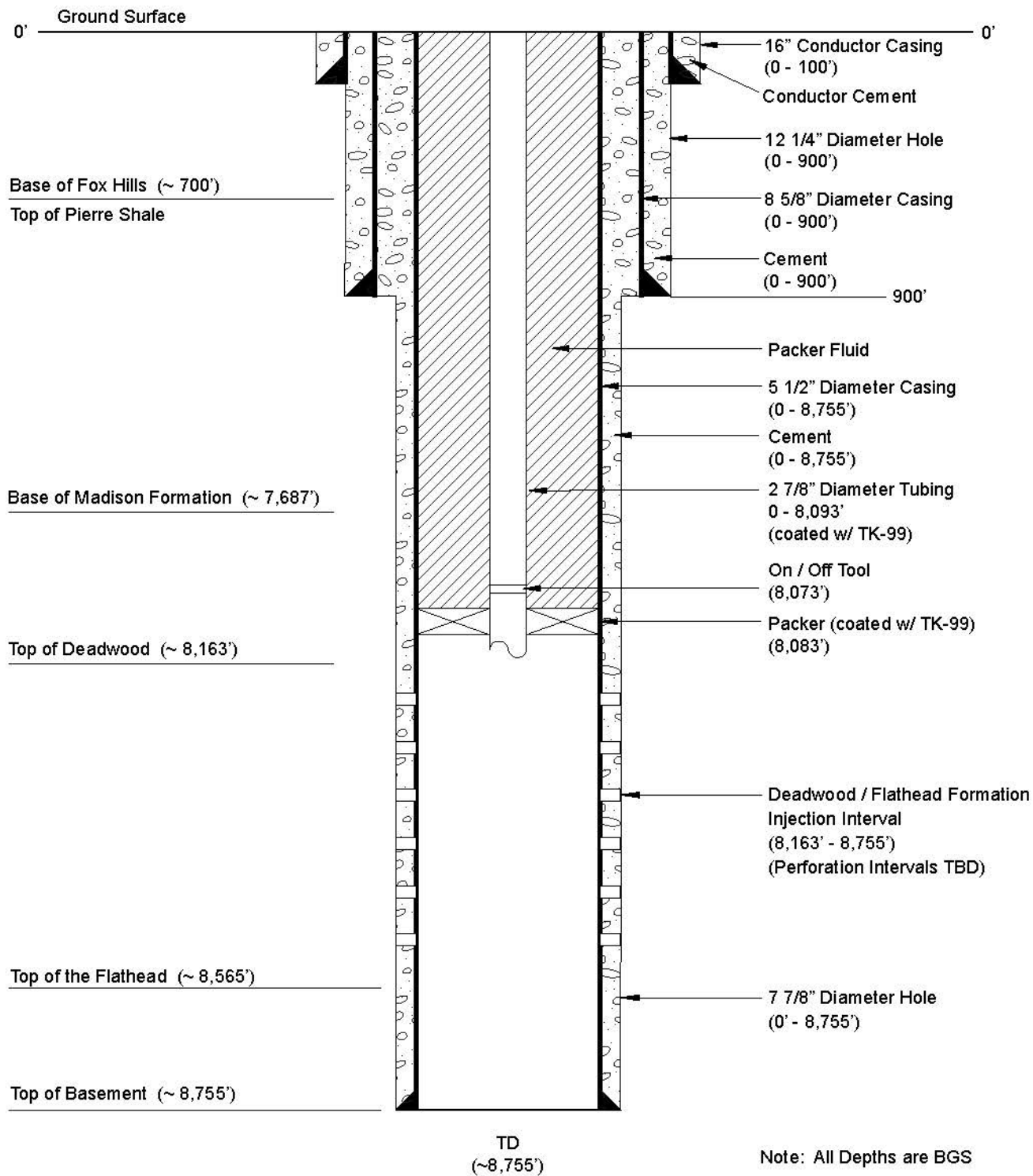
From: James A. Peterson, 1984

STRATA
ENERGY

Figure 39
Thickness and Rock Facies of the
Madison Limestone and Equivalent Rocks
2010 Ross ISR Class I Permit Application

Scale: See Bar Scale	Date: May 2010
2010_Ross_CIPA_Fig_39.ai	By: JLM Checked: HD

10288 West Cattle K Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-250-9414
www.petrol.com





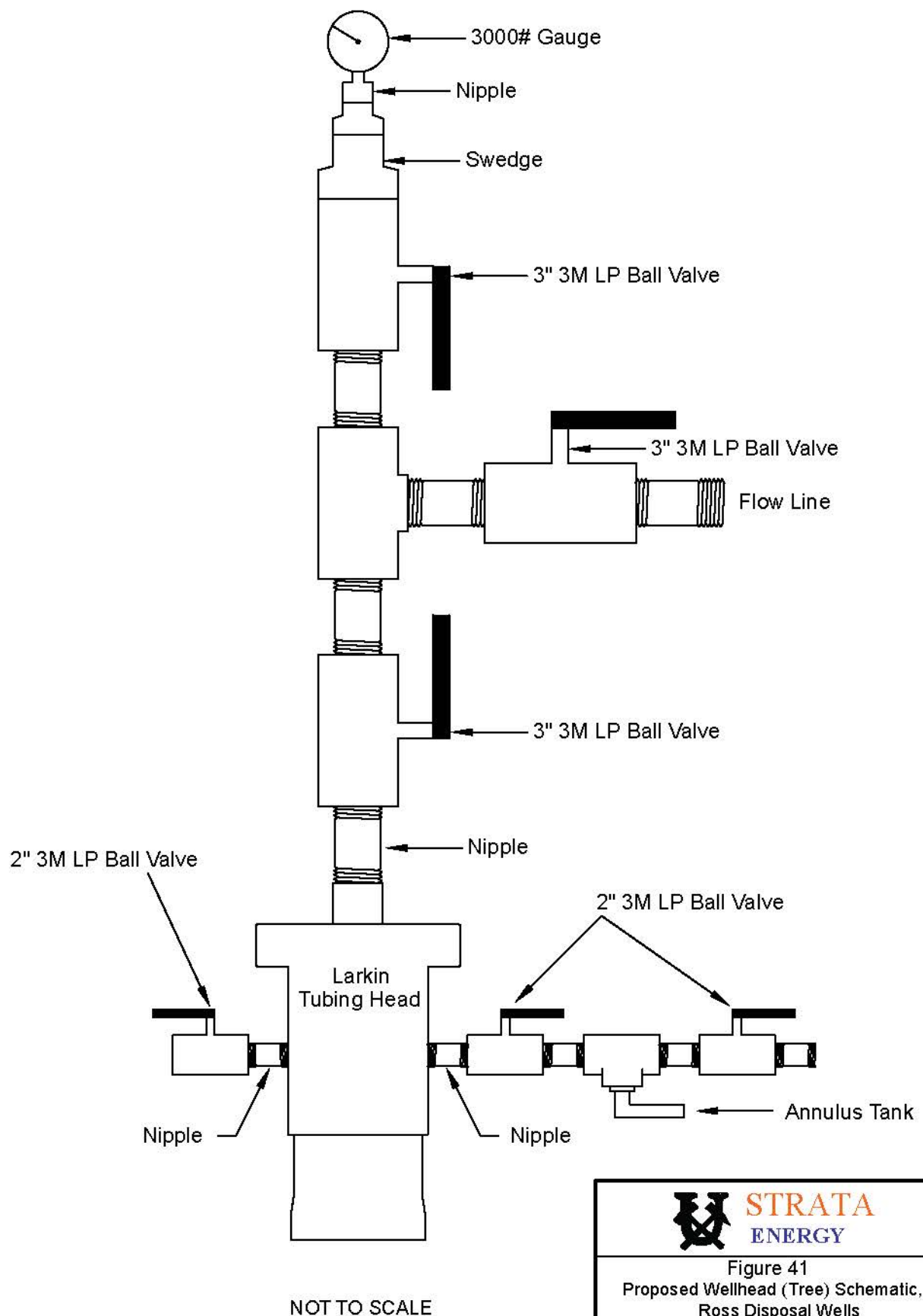

**STRATA
ENERGY**

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



10289 West Clarksburg Ave., Suite 201
 Littleton, Colorado 80120-4239 USA
 303-280-9414
www.petrotek.com



STRATA
ENERGY

Figure 41
Proposed Wellhead (Tree) Schematic,
Ross Disposal Wells

2010 Ross ISR Class I Permit Application

Scale: Not to Scale

Date: May 2010

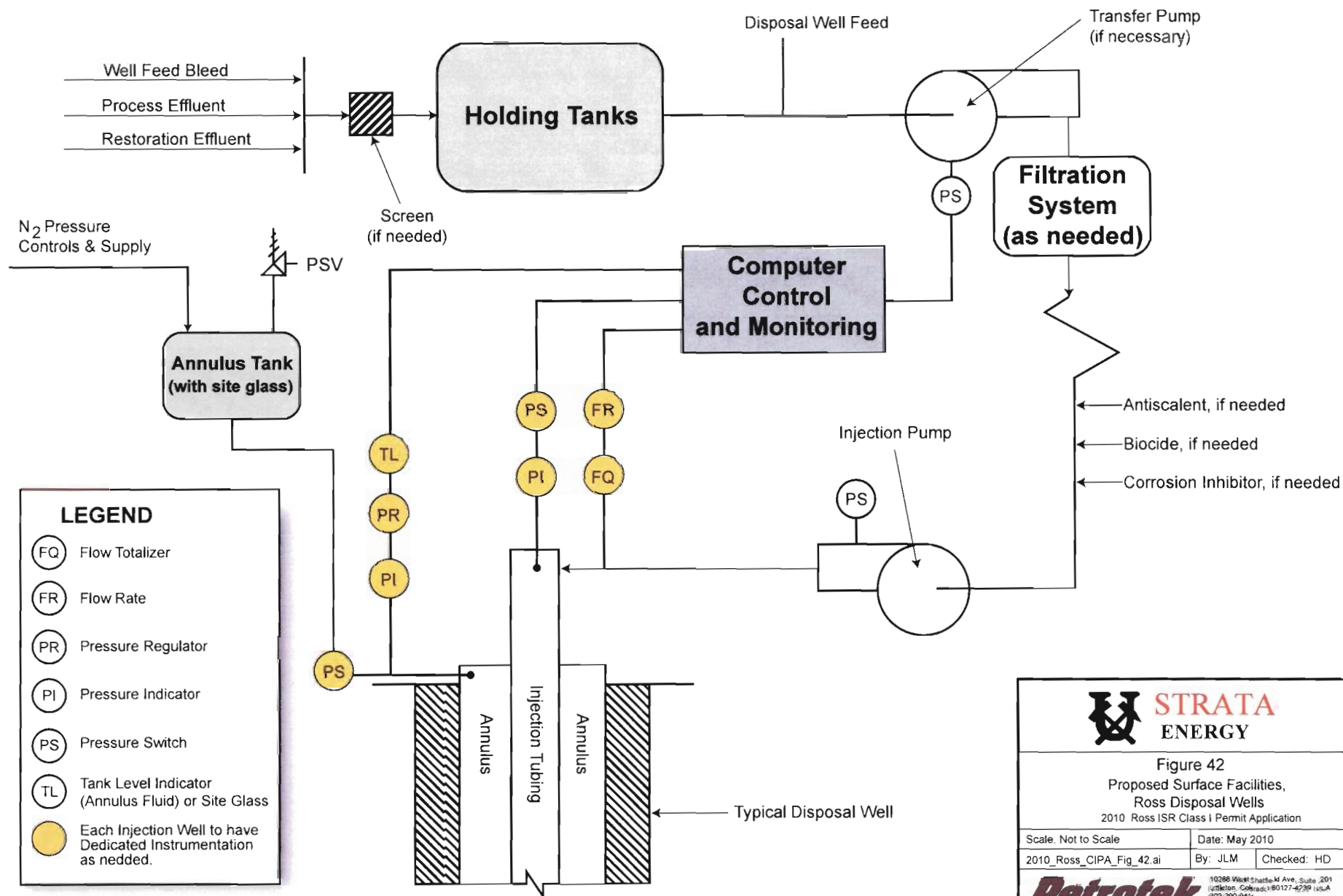
2010_Ross_CIPA_Fig_41.ai

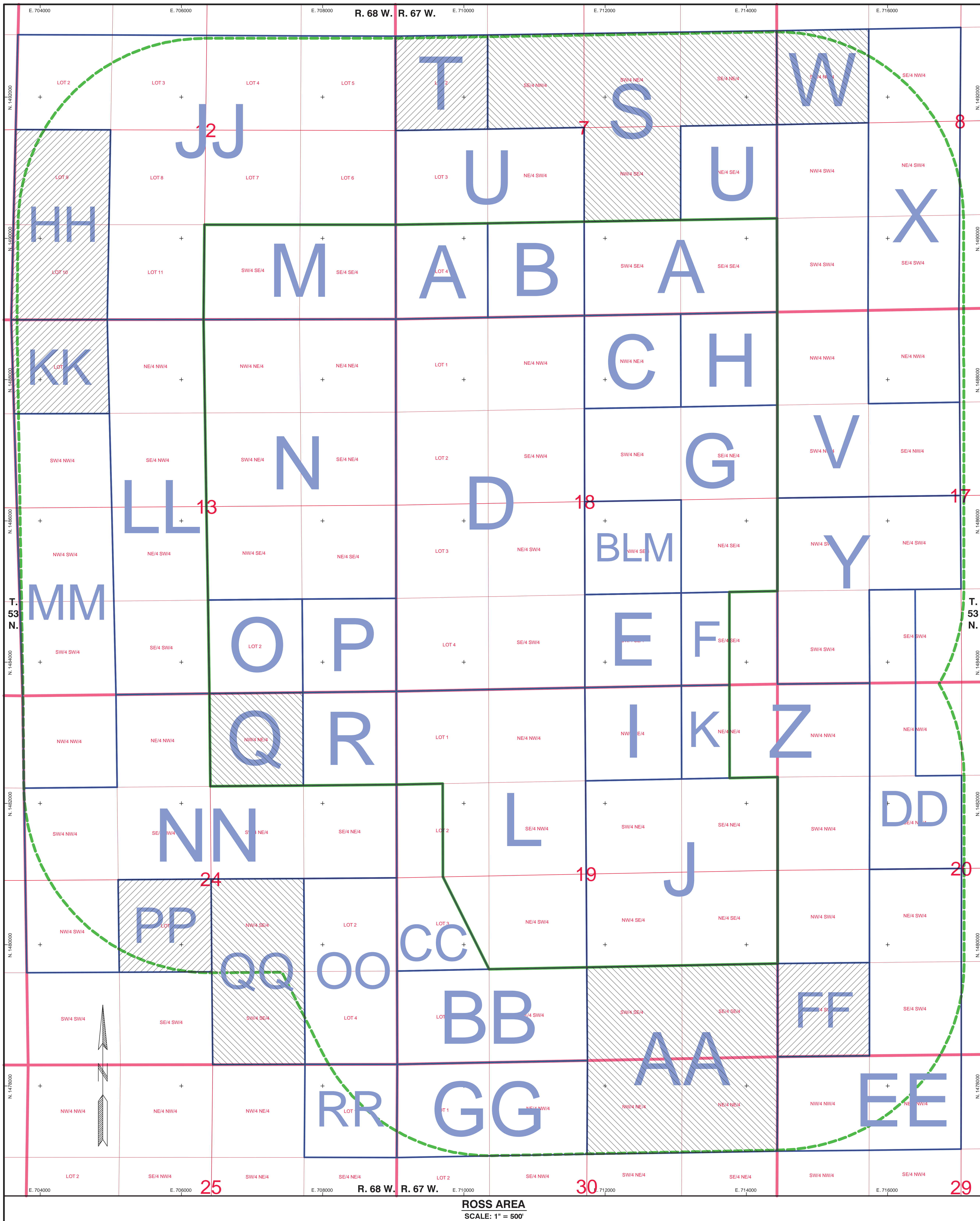
By: JLM

Checked: HD

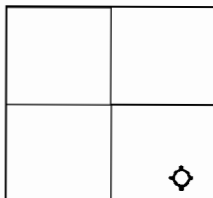
Petrotek

10288 West Clarksburg Ave., Suite 201
Littleton, Colorado 80127-4239 USA
303-230-6114
www.petrotek.com



[illegible][illegible][illegible][illegible]

APPENDIX A
ABANDONMENT AND COMPLETION
RECORDS, OIL AND GAS WELLS



Api Number

49-011-20325

Well Name

FEDERAL 44-13

Surface Location

SE SE 13 TOWNSHIP 53 NORTH RANGE 68 WEST

Spud

05/18/1973

Operator

BURLINGTON RESOURCES OIL & GAS COMPANY L

Elevation GR

0

Elevation KB

4207 KB

Surface Location

460 FSL and 460 FEL

Longitude

-104.96476

Field

DEADMAN CREEK

County

CROOK

Well Class

OIL WELL

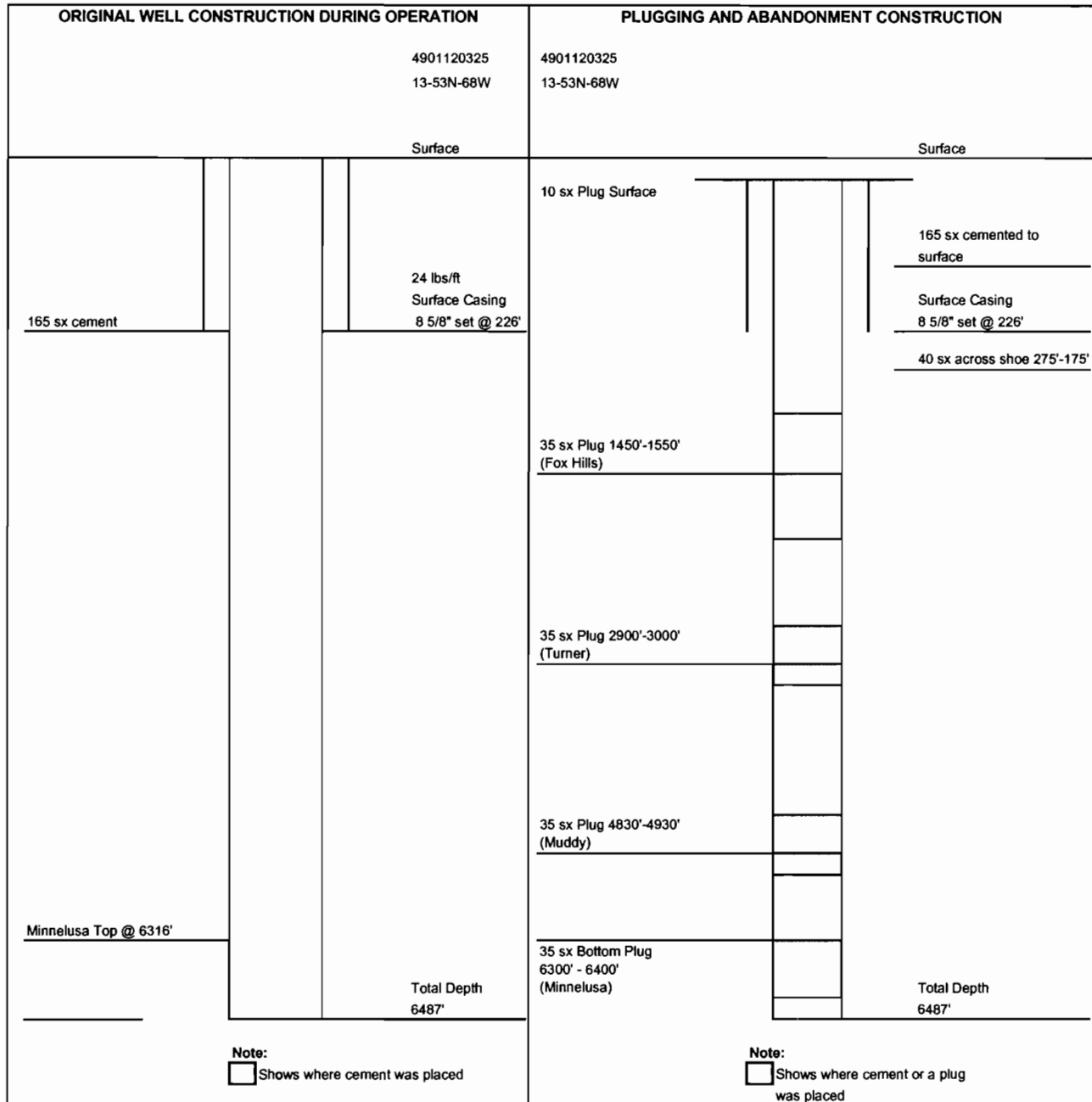
Status from Well Files

PA

Total Depth

6487

01/11/10



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. W-048996A	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME --	
2. NAME OF OPERATOR BURLINGTON NORTHERN INC.				7. UNIT AGREEMENT NAME --	
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103				8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface SE SE 13-53N-68W (460 FSL - 460 FEL) At top prod. interval reported below same At total depth same				9. WELL NO. 44-13	
14. PERMIT NO. 20325 DATE ISSUED _____				10. FIELD AND POOL, OR WILDCAT Deadman Creek	
15. DATE SPUDDED 5-18-73				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 13-53N-68W	
16. DATE T.D. REACHED 5-27-73				12. COUNTY OR PARISH Crook	
17. DATE COMPL. (Ready to prod.) 5-28-73				13. STATE WY	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4207 KB				19. ELEV. CASINGHEAD 4196	
20. TOTAL DEPTH, MD & TVD 6490 (SW)		21. PLUG, BACK T.D., MD & TVD --		22. IF MULTIPLE COMPL., HOW MANY? --	
23. INTERVALS DRILLED BY --		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL 6490-200, BHC/GR/Cal 6490-4300, GR 550-GL				27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE 8-5/8	WEIGHT, LB./FT. 24	DEPTH SET (MD) 226	HOLE SIZE 12-1/4	CEMENTING RECORD 165 sx + 3% CaCl	AMOUNT PULLED None
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
		None			
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
	None				
31. PERFORATION RECORD (Interval, size and number)					
None					
32. PLUGS, ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
6400-6300		35 sx 275-175 40 sx			
4930-4830		35 sx surface 10 sx			
3000-2900		35 sx			
1550-1450		35 sx			
33.* PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY
35. LIST OF ATTACHMENTS Geologist's Report					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED (Signed) Earl J. Whitaker		TITLE Production Manager		DATE May 31, 1973	

*(See Instructions and Spaces for Additional Data on Reverse Side)

LOG TOPS

Muddy	4570	(- 363)
Dakota	4836	(- 625)
Minnekahta	6200	(-1993)
Opeche	6232	(-2025)
Minnelusa Transition	6294	(-2087)
Minnelusa	6316	(-2109)

DRILL STEM TESTS

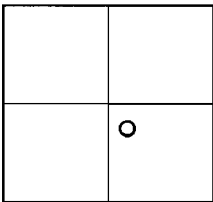
DST #1, 6338-6364, Minnelusa

Open 15, SI 30, open 30, SI 30

Opened tool with strong blow from bottom of 5 gallon bucket in two minutes - closed tool - blow died in 1 minute. Second open - open tool with very strong blow from bottom of bucket in 2 minutes - decreased in 20 minutes to 2 inch blow - decreased in 30 minutes to 1 inch blow in bucket.

Recovered 3113 feet sulfurous water. No show gas or oil.

HP 3576-3618
FP 839-930, 1109-1439
SIP 2367-2358



Api Number
49-011-20328
Well Name
FEDERAL W-34679 33-18
Surface Location
NW SE 18 TOWNSHIP 53 NORTH RANGE 67 WEST
Spud
06/23/1973

Operator
MERIT ENERGY COMPANY
Elevation GR
4172 GL
Surface Location
1997 FSL and 2026 FEL
Field
DEADMAN CREEK
Well Class
OIL WELL
Target Formation
MINNELUSA
Produced Formation
MINNELUSA
Group No MINNELUSA
7189
Communitization Agreement MINNELUSA π
WYW 110056
Cum Production After 1978
Oil Bbls
121,823

Elevation KB
4183 KB
Longitude
-104.95022
County
CROOK
Status from Form 2
PH
Total Depth
6360

Unit Number π
WYW109481X

Gas Mcf
21,351

01/11/10

WELL CONSTRUCTION DURING OPERATION

4901120328

18-53N-67W

Surface

Surface Casing
8 5/8" @ 228'

24 lbs/ft., 160 sx
to surface

Hole Size
12 1/4", 7 7/8"

Producing Formation:

Minnelusa top @ 6149'

Packer Depth:

Perforations

6235'-6267'

6246'-6250'

6252'-6257'

5 1/2" csg @

6360'

14 & 15.5 lbs/ft.

250 Lite + 125 Poz

6180'

Tubing: 2 7/8",
Depth Unknown
Plugback Depth
6322'

Total Depth

6360'

Note:

☐ Shows where cement was placed

From Jan 1978-Nov 2009 the well produced 122K BBLs of oil

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)

Form approved.
Budget Bureau No. 42-R355.8.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. W-34679	
1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. GESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----	
2. NAME OF OPERATOR Burlington Northern Inc.				7. UNIT AGREEMENT NAME -----	
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, Montana 59103				8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface NW SE 18-T53N-R67W (1997 FSL - 2026 FEL) At top prod. interval reported below same At total depth same				9. WELL NO. #33-18	
14. PERMIT NO. 11-20328				10. FIELD AND POOL, OR WILDCAT Deadman Creek	
DATE ISSUED				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 18-T53N-R67W	
15. DATE SPUNDED 6-23-73		16. DATE T.D. REACHED 7-2-73		12. COUNTY OR PARISH Crook	
17. DATE COMPL. (Ready to prod.) 8-25-73		18. ELEVATIONS (OF, RHE, RT, OR, ETC.)* 4183 KB		13. STATE Wyoming	
19. ELEV. CASINGHEAD 4172		20. TOTAL DEPTH, MD & TVD 6360		21. PLUG, BACK T.D., MD & TVD 6322	
22. IF MULTIPLE COMPL., HOW MANY* ---		23. INTERVALS DRILLED BY ---		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Minnelusa 6246-50, 6252-57	
25. ROTARY TOOLS all		26. CABLE TOOLS 0		27. WAS DIRECTIONAL SURVEY MADE no	
28. TYPE ELECTRIC AND OTHER LOGS RUN DIL, BHC				29. WAS WELL CORED no	
23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	228	12 1/4	160 reg # 3% CaCl	0
5-1/2	14 & 15.5	6360	7-7/8	250 lite followed by 125	Poz. 0
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2-7/8	6725	--			
31. PERFORATION RECORD (Interval, size and number)					
6246-50 & 6252-57 w/4 JPF					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)			AMOUNT AND KIND OF MATERIAL USED		
6246-57			250 gal 7 1/2% HCL		
33. PRODUCTION					
DATE FIRST PRODUCTION 8-25-73		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping, 1 1/2 X 16' API			WELL STATUS (Producing or shut-in) P
DATE OF TEST 8-31-73	HOURS TESTED 24	CHOKE SIZE --	PROD'N. FOR TEST PERIOD -->	OIL—BSL. 67	GAS—MCF. TSTM
WATER—BSL. trace		GAS-OIL RATIO ---		OIL GRAVITY-API (CORR.) 20.6	
FLOW. TUBING PRESS. ---	CASING PRESSURE ---	CALCULATED 24-HOUR RATE -->	OIL—BSL. 67	GAS—MCF. TSTM	WATER—BSL. 0
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented				TEST WITNESSED BY Pumper	
35. LIST OF ATTACHMENTS Geologists Report					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <i>[Signature]</i>		TITLE Production Manager		DATE 9-4-73	

*(See Instructions and Spaces for Additional Data on Reverse Side)

LOG TOPS

Muddy	4427	(- 244)
Dakota	4696	(- 513)
Minnekahta	6075	(-1892)
Opeche	6108	(-1925)
Minnelusa	6149	(-1966)
A sand	6158-72	(-1975)
Upper "B" sand	6196-6214	(-2013)
Lower "B" sand	6234-6266	(-2051)

DRILL STEM TESTS

DST #1, 6155-6176

Open 15, SI 30, open 30, SI 30

Recovered 5170' water

Schlumberger checked Rw from sampler - Rw 0.408 @ 68° F. -
0.24 @ 120° F.

HP 3122-3085

FP 1770-1937, 2011-2307

SIP 2493-2474

BHT 117°

DST #2, 6198-6221

Open 15, SI 60, open 60, SI 180

Recovered 843' salty water

Schlumberger checked Rw in sample taken 1 stand above test tool.
Rw 0.444 @ 68° F. - .26 @ 120° F.

HP 3192-3191

FP 63-173, 210-442

SIP 2491-2491

DST #3, 6238-6280

Open 15, SI 60, open 60, SI 90

Recovered 1158' heavy gas cut oil - 20° API @ 60°

HP 3177-3140

FP 56-187, 187-393

SIP 2141-2085

BHT 118°

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input checked="" type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. REVR. <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR Meridian Oil Inc.						5. LEASE DESIGNATION AND SERIAL NO. W-34679	
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103-1855						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1997' FSL, 2026' FEL (NWSE) At top prod. interval reported below Same At total depth Same						7. UNIT AGREEMENT NAME	
14. PERMIT NO. 49-011-20328						8. FARM OR LEASE NAME Federal	
DATE ISSUED 6/15/73						9. WELL NO. 33-18	
15. DATE SPUDDED						10. FIELD AND POOL, OR WILDCAT Deadman Creek	
16. DATE T.D. REACHED						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 18, T53N-R67W	
17. DATE COMPL. (Ready to prod.)						12. COUNTY OR PARISH Crook	
18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 4172' GL; 4183' KB						13. STATE Wyoming	
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		19. ELEV. CASINGHEAD	
						23. INTERVALS UNILED BY ROTARY TOOLS CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6235'-67', Minnelusa B; 6246'-50', 6252'-57' (Original perms)						25. WAS DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORRED	

28. CASING RECORD (Report all strings set in hole)				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	AMOUNT PULLED

29. LINER RECORD				30. TUBING RECORD	
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 6235'-67', 4 spf, 129 holes, 4" HSC		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) 6235'-6267' AMOUNT AND KIND OF MATERIAL USED Stress Frac	
---	--	---	--

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 7/24/86	HOURS TESTED 24	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
				20	0	24	0
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
			20	0	24	20.6	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	TEST WITNESSED BY Steve Mansur
--	-----------------------------------

35. LIST OF ATTACHMENTS

Chronological well history

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED M. J. Stedulis TITLE Sr. Staff Engineer DATE 7/28/86

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

0489n

MERIDIAN OIL INC.
P. O. Box 1855
Billings, Montana 59103-1855
Telephone (406) 256-4000
Well Reports 256-4005

"TIGHT HOLE"

33-18 Federal, NWSE Section 18-53N-67W, Crook County, Wyoming, Deadman Creek Unit, 1997' FSL - 2026' FEL, Prop No.

APE No: - MOI Working Interest 0.61179217% - (\$12,090) - REPERF THE WHOLE MINNELUSA "B" ZONE W/4 JSPF. STRESS FRAC TO STIMULATE WITHOUT BREAKING OUT OF ZONE.

DAILY WORKOVER REPORT

- 7-8-86 TOH W/TUBING AND ANCHOR CATCHER. MIRU swbg unit, pull rods & pump. RU tbg equipment and SDFN. DC \$955, Cum \$955.
- 7-9 WELL SHUT IN. Prep to MIRU rig. DC \$0, Cum \$955.
- 7-10 FINISH TIH W/ANCHOR CATCHER AND SN. Release anchor catcher and TOH w/200 jts tbg (198 jts above SN), anchor catcher, SN, & perf sub. RU Gearhart & perf w/4" HSC, 4 spf 6235'-6267' (32') 129 holes. Found FL @ 3020' & PBD @ 6275' KB WL measure, RD Gearhart, WO tbg bailer for 1 hr, TIH w/Baker tbg bailer (tally in hole) & clean out to 6315' KB. TOH w/tbg bailer, rec approx 30' of scale, RU Gearhart & make 3 runs w/stress-frac tools. 1st run 6255'-6267', 2nd run 6244'-6256', 3rd run 6235'-6245', RD Gearhart, start TIH w/anchor catcher and SN, ran 60 stds tbg and SWIFN. Rods pulled out of hole yesterday: 83 7/8", 163 3/4", 1 2' x 3/4" sub on top of pump, 2-1/2" x 1-1/4" x 12' x 15' x 18' RHBC pump, 1-1/2" x 12' gas anchor. DC \$10,632, Cum \$11,587.
- 7-11 WELL RETURNED TO PRODUCTION. Finish TIH w/anchor catcher & SN, tag top of junk from frac tools @ 6274' KB, set anchor catcher @ 6181', SN @ 6180' and btm of TP @ 6250'. Run rods & pump, hang well on and put well to pmpg, RD & release unit.

TBG STRING

Top: 198 jt tbg 6167.61'
2-7/8" cup type SN 1.10'
Baker anchor catcher 2.74'
4' perf sub 4.00'
2 jts 2-7/8" tbg 62.42'
2-7/8" female BP

ROD STRING

Top: 1-1/4" x 28' polished rod
83 7/8" rods
163 3/4" rods
1 2' x 3/4" sub
2-1/2" x 1-1/4" x 12' x 15' x 18' RHBC pump
1-1/2" x 12' gas anchor
Pumping. Start-up @ 2:00 PM 7-10-86. P 41 BO & 23 BW/16 hrs.
DC \$1,531, Cum \$13,118.

0489n

"TIGHT HOLE"

MERIDIAN OIL INC.
P. O. Box 1855
Billings, Montana 59103-1855
Telephone (406) 256-4000
Well Reports 256-4005

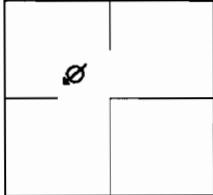
33-18 Federal, NWSE Section 18-53N-67W, Crook County, Wyoming, Deadman Creek Unit, 1997' FSL - 2026' FEL, Prop No. 80A001700

AFE No: - MOI Working Interest 0.61179217% - (\$12,090) - REPERF THE WHOLE MINNELUSA "B" ZONE W/4 JSPF. STRESS FRAC TO STIMULATE WITHOUT BREAKING OUT OF ZONE.

DAILY WORKOVER REPORT

7-12 PUMPING. P 75 BO & 10 BWP. D.
7-13 PUMPING. P 20 BO & 29 BWP. D.
7-14 PUMPING. P 41 BO & 33 BWP. D.
7-15 PUMPING. P 27 BO & 10 BWP. D. Total fluid 7/10 - 7/15 = 309 bbls, 66% oil, 33% wtr.
7-16 PUMPING. P 29 BO & 14 BWP. D.
7-17 PUMPING. P 29 BO & 14 BWP. D.
7-18 PUMPING. P 28 BO & 16 BWP. D.
7-19 PUMPING. P 28 BO & 16 BWP. D.
7-20 PUMPING. P 28 BO & 16 BWP. D.
7-21 PUMPING. P 28 BO & 16 BWP. D.
7-22 PUMPING. No gauge.
7-23 PUMPING. No gauge.
7-24 PUMPING. Recycled tank, production avg 20 BO & 24 BWP. D. Previous reports were based upon avg wellhead cuts.
IPP: 20 BO, 24 BW & 0 MCFPD.

"FINAL REPORT"



Api Number

49-011-20332

Well Name

REYNOLDS 22-19

Surface Location

SE NW 19 TOWNSHIP 53 NORTH RANGE 67 WEST

Spud

07/06/1973

Operator

MERIT ENERGY COMPANY

Elevation GR

4218

Surface Location

1796 FNL and 1781 FWL

Field

DEADMAN CREEK

Well Class

DISPOSAL WELL

Target Formation

MINNELUSA

Unit Number

WYW109481X

Elevation KB

4229

Longitude

-104.95619

County

CROOK

Status from Form 2

AI

Total Depth

6450

01/11/10

Form 1
(January, 1968)

STATE OF WYOMING
OIL AND GAS CONSERVATION COMMISSION
Office of State Oil and Gas Supervisor
E.S.C. Building
Casper, Wyoming 82601

5. State Lease No. **6**

6. Unit Agreement **X**

7. Farm or Lease Name **Reynolds**

8. Well No. **22-19**

9. Reservoir **Minnelusa**

10. Field Name **Deadman Creek**

11. Section, Township and Range **19-53N-67W**

12. County **Crook**

13. State **Wyoming**

1. **WELL COMPLETION OR RECOMPLETION REPORT AND LOG**
(Submit in Duplicate, Triplicate on State Lands)

Designate type of completion
 OIL WELL ☐ GAS WELL ☐ OTHER ☒ DRY ☒
 NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ OTHER ☐ SAME RESVR. ☐ DIFF. RESVR. ☐

2. OPERATOR
BURLINGTON NORTHERN/CARDINAL/HUDSON/TROTTER

3. ADDRESS
P. O. Box 1855, Billings, MT 59103

4. LOCATIONS (Show quarter-quarter description and footage measurements.)
 At surface **SE NW 19-53N-67W (1796 FNL - 1781 FNL)**
 At top prod. interval, reported below **Same**
 At total depth **Same**

14. Permit No. **20332** Date Issued _____ Previous Permit No. _____ Date Issued _____

15. Date Spudded **July 6, 1973** 16. Date T.D. Reached **July 13, 1973** 17. Date Compl. (Ready to Prod.) **July 15, 1973** 18. Elevations (DF, RKB, RT, GR, etc.)* **4229 KB** 19. Elev. Casinghead Flg. **4218**

20. Total Depth (MD & TVD) **6449 SWS** 21. Plug. Back T. D. (MD & TVD) **-** 22. If Multiple Compl., How Many* **-** 23. Intervals Drilled By **ALL** 24. Rotary Tools **ALL** 25. Cable Tools **None**

24. PRODUCING INTERVAL(S). THIS COMPLETION, TOP, BOTTOM, NAME (MD & TVD)*
None

25. Date Directional Survey Submitted
None

26. TYPE ELECTRIC AND OTHER LOGS RUN (Circle those filed)
DIL, BHC/GR

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

Casing Size	Depth Set (MD)	Hole Size	Weight Lbs./Ft.	Purpose	Sacks Cement	Amount Pulled
8-5/8	223	12-1/4	24	sfc	185	0

29. LINER RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cement*	Screen (MD)

30. TUBING RECORD

Size	Depth Set (MD)	Packer Set (MD)

31. PERFORATION RECORD

Depth Interval (MD)	Holes per ft.	Size and Type	Purpose

32. ACID, SHOT, FRAC., CEMENT SQUEEZE, Etc. **PLUGS:**

Amt. & Kind of Material Used	Depth Interval (MD)
35 sx 6270-6370	25 sx across shoe
35 sx 4770-4870	10 sx surface
35 sx 2830-2930	
35 sx 650-750	

33. PRODUCTION

Date First Production _____ Producing Method (Flowing, gas, lift, pumping—size & type of pump) _____ Well Status (Prod. or shut-in) _____

Date of Test	Hours Tested	Choke Size	Production For Test	Oil, Bbls.	Gas, Mcf.	Water, Bbls.	Gas-Oil Ratio

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ Test Witnessed By _____

35. LIST OF ATTACHMENTS
Geologist's Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED **[Signature]** TITLE **Production Manager** DATE **8/10/73**

* See Instructions On Reverse Side

INSTRUCTIONS

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see space 38.

Space 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements.

Space 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Spaces 22 and 24: If this well is completed for separate production from more than one zone (multiple-zone completion), so state in space 22, and in space 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the zone reported in space 33. Submit a separate completion report on this form for each interval (zone) to be separately produced.

Space 28: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Space 33: Submit a separate completion report on this form for each interval (zone) to be separately produced. (See instruction for spaces 22 and 24 above.)

SUMMARY OF SIGNIFICANT WATER ZONES AND OIL AND GAS ZONES (Except as shown on the front hereof)

(Note: If well was directionally drilled, show both measured and true vertical depths for zones and markers listed)

GEOLOGIC MARKERS

Kind of Formation (Sandstone, limestone, shale, etc.)	Depth to Top of Zone		Depth to Bottom of Zone		Contents; Productive Rate, if known	Name	Depth to Top	
	Meas. Depth	True Vertical	Depth	Meas. Depth			Meas. Depth	True Vertical
						Base Fox Hills	695	
						Niobrara	2835	
						Muddy	4529	
						Dakota	4794	
						Minnekahta	6164	
						Opeche	6197	
						Minnelusa	6265	

Form 3
(Jan. 27, 1966)

STATE OF WYOMING
OIL AND GAS CONSERVATION COMMISSION
Office of State Oil and Gas Supervisor
E.S.C. Building
Casper, Wyoming 82601

(H) 2

1. **WELL COMPLETION OR RECOMPLETION REPORT AND LOG**
(Submit in Duplicate, Triplicate on State Lands)

Designate type of completion
 OIL WELL ☐ GAS WELL ☐ OTHER Water Source DRY ☐
 NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ OTHER Redrill ☐ SAME RESVR. ☐ DIFF. RESVR. ☒

2. OPERATOR
Burlington Northern Inc.

3. ADDRESS
P. O. Box 1855, Billings, MT 59103

4. LOCATIONS (Show quarter-quarter description and footage measurements.)
 At surface 1796' FNL 1781' FWL
 At top prod. interval, reported below Same
 At total depth Same (6)

5. State Lease No. 1000

6. Unit Agreement ☒

7. Farm or Lease Name
Deadman Creek Unit

8. Well No.
22-19

9. Reservoir
Minnelusa "C"

10. Field Name
Deadman Creek

11. Section, Township and Range
19 T53N R67W

12. County
Crook

13. State
Wyoming

14. Permit No. 20332 Date Issued 011-20332 Previous Permit No. 011-20332 Date Issued

15. Date Spudded 4/18/79 16. Date T.D. Reached 5/17/79 17. Date Compl. (Ready to Prod.) 6/9/79 18. Elevations (DP, RKB, RT, GR, etc.)* 4229' 19. Elev. Casinghead Flg. 4219'

20. Total Depth (MD & TVD) 6453 21. Plug Back T.D. (MD & TVD) 6453 22. If Multiple Compl., How Many* --- 23. Intervals Drilled By ALL Rotary Tools ALL Cable Tools ---

24. PRODUCING INTERVAL(S), THIS COMPLETION, TOP, BOTTOM, NAME (MD & TVD)*
6338 - 6442 Minnelusa "C"

25. Date Directional Survey Submitted

26. TYPE ELECTRIC AND OTHER LOGS RUN (Circle those filed)
No logs run

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)

Casing Size	Depth Set (MD)	Hole Size	Weight Lbs./Ft.	Purpose	Sacks Cement	Amount Pulled
8 5/8	223' KB	12 1/4	24#	Surface	185	0
5 1/2	6346 KB	7 7/8	15.5#	Prod'n	100	0

29. LINER RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cement*	Screen (MD)
Open Hole	6346'	6453'	KB	

30. TUBING RECORD

Size	Depth Set (MD)	Packer Set (MD)
2 7/8	2974'	N/A

31. PERFORATION RECORD

Depth Interval (MD)	Holes per ft.	Size and Type	Purpose
N/A			

32. ACID, SHOT, FRAC., CEMENT SQUEEZE, Etc.

Amt. & Kind of Material Used	Depth Interval (MD)
N/A	

33. PRODUCTION

Date First Production 6/10/79 Producing Method (Flowing, gas, lift, pumping—size & type of pump) Submersible pump Well Status (Prod. or shut-in) Shut in

Date of Test	Hours Tested	Choke Size	Production For Test	Oil, Bbls.	Gas, Mcf.	Water, Bbls.	Oil Gravity—API (Corr.)
6/10/79	1	N/A	---	N/A	N/A	130 bbls	N/A

Flow, Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil, Bbls.	Gas, Mcf.	Water, Bbls.	Gas-Oil Ratio
N/A	N/A	---	N/A	N/A	320	N/A

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
N/A

35. LIST OF ATTACHMENTS
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Wm. Stuart Deans TITLE Sr. Petroleum Engineer DATE 6/21/79

* See Instructions On Reverse Side

RECEIVED
JUN 27 1979
WYOMING STATE OIL & GAS

Wyoming Oil and Gas Comission 10/26/2009

49-011-20856

Operator:

PRENALTA CORPORATION

Elevation: 7000

0

Surface: 660 FSL

660 FSL and 660 FWL

and

WC

well: 660 FSL

OIL WELL

to: 660 FSL

6401

PRENALTA CORPORATION

WESLEY 14-7-5

4198 KB

4198 KB

4198 KB

-104.96054

County:

CROOK

status: from Well 14-7-5

PA

SW SW 7 T 53 N R 67 W

11/12/1980

11/12/1980

44.58733

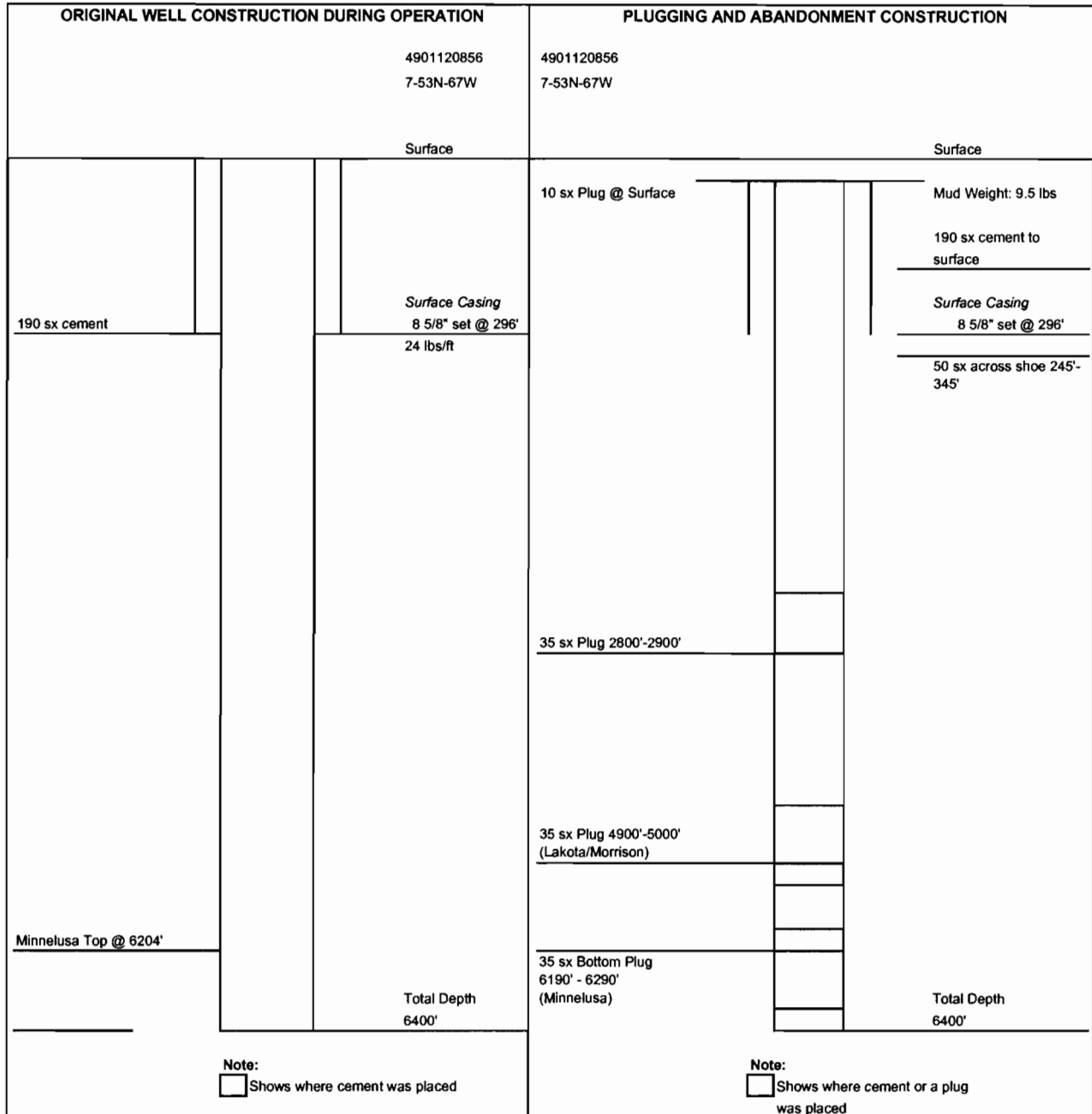
Basin:

POWDER RIVER

11/21/1980

11/21/1980

11/12/1980



Form 3
(June, 1975)

STATE OF WYOMING
OIL AND GAS CONSERVATION COMMISSION
Office of State Oil and Gas Supervisor
P. O. Box 2640
Casper, Wyoming 82601

5. State Lease No.

6. Unit Agreement

7. Farm or Lease Name
Wesley Fee

8. Well No.
14-7-53-67

9. Reservoir
Minnelusa

10. Field Name
Wildcat

11. Section, Township and Range
Sec. 7, T53N, R67W

12. County
Crook

13. State
WY

1. WELL COMPLETION OR RECOMPLETION REPORT AND LOG

(Submit in Duplicate, Triplicate on State Lands)

Designate type of completion

OIL WELL ☐ GAS WELL ☐

OTHER ☐

DRY ☒

NEW WELL ☐ WORK OVER ☐

DEEPEN ☐ PLUG BACK ☐

OTHER ☐

SAME RESVR. ☐ DIFF. RESVR. ☐

2. OPERATOR

Prenalta Corporation

3. ADDRESS

P. O. Box 2514, Casper, WY 82601

4. LOCATIONS (Show quarter-quarter description and footage measurements.)

At surface 660' FS, 660' FWL, SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 7, T53N, R67W NOV 26 1984

At top prod. interval, reported below

At total depth Same as above

14. Permit No.

Date Issued

Previous Permit No.

49-011-20856

10/16/80

15. Date Spudded

11/12/80

16. Date T.D. Reached

11/18/80

17. Date Compl.

(Ready to Prod.)

P&A 11/20/80

18. Elevations

(DF, RKB, RT, OR, etc.)

4186' Gr, 4198' KB

19. Elev. Casinghead Flg.

20. Total Depth (MD & TVD)

6400' KB

21. Plug. Back T. D.

(MD & TVD)

NA

22. If Multiple Compl.,

How Many?

NA

23. Intervals

Drilled By

NA

Rotary Tools

0-6400' KB

Cable Tools

24. PRODUCING INTERVAL(S). THIS COMPLETION. TOP, BOTTOM, NAME (MD & TVD)*

NA

25. Date Directional

Survey Submitted

NA

26. TYPE ELECTRIC AND OTHER LOGS RUN (Circle those filed)

DISFL/SP, BHC/GR/CAL

27. Was Well Cored

No

28. CASING RECORD (Report all strings set in well)

Casing Size	Depth Set (MD)	Hole Size	Weight Lbs./Ft.	Purpose	Sacks Cement	Amount Pulled
8-5/8"	296'	12 1/4"	24#	Surface	190, Circ to surface	0'

29. LINER RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cement*	Screen (MD)
NA				

30. TUBING RECORD

Size	Depth Set (MD)	Packer Set (MD)
NA		

31. PERFORATION RECORD

Depth Interval (MD)	Holes per ft.	Size and Type	Purpose
NA			

32. ACID, SHOT, FRAC., CEMENT SQUEEZE, Etc.

Amt. & Kind of Material Used	Depth Interval (MD)
NA	

33. PRODUCTION

Date First Production	Producing Method (Flowing, gas, lift, pumping—size & type of pump)	Well Status (Prod. or shut-in)
NA		P&A
Date of Test	Hours Tested	Choke Size
		Production For Test
		Oil, Bbls.
		Gas, Mcf.
Flow, Tubing Press.	Casing Pressure	Calculated 24-Hour Rate
		Oil, Bbls.
		Gas, Mcf.
		Water, Bbls.
		Gas-Oil Ratio

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Test Witnessed By

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED

TITLE Manager, Production & Drilling

DATE 11/21/84

* See Instructions On Reverse Side

Verbal Approval For Well Abandonment

11208540

Date 11-20-80 Time 8:15 A.M. P.M.
 Operator Pernatta
 Representative John Kock
 Well Name and No. 14-7 Wesley
 Located 1/4 SW 1/4 SW 1/4 Sec. 7 Twp. 53 Range 67
 Field Weldcat County Cook

Plugging Data

Total Depth 4400 Size Hole 7 7/8 Mud Weight 9.3
 Surface Casing; Size 8 5/8 Depth 295'

FORMATION TOP (In Feet)		PLUGS		
		From	To	Sax Cement
<u>Fox Hills</u>	<u>700</u>	<u>10 SX</u>	<u>at s/c</u>	<u>with napa</u>
<u>Pine Shale</u>	<u>715</u>	<u>245</u>	<u>345</u>	<u>1/2" port 50 SX5</u>
<u>Muddy</u>	<u>4480</u>			
<u>Dakota</u>	<u>4746</u>	<u>2800</u>	<u>2900</u>	<u>35 SX5</u>
<u>Dakota</u>	<u>4818</u>			
<u>Morison</u>	<u>4948</u>	<u>4900</u>	<u>5000</u>	<u>35 SX</u>
<u>Sundance</u>	<u>5195</u>			
<u>Manlius</u>	<u>6200</u>	<u>6190</u>	<u>6290</u>	<u>35 SX</u>
<u>"B" Sand</u>	<u>6208276</u>			
<u>Shale + tight sand below</u>				

REMARKS

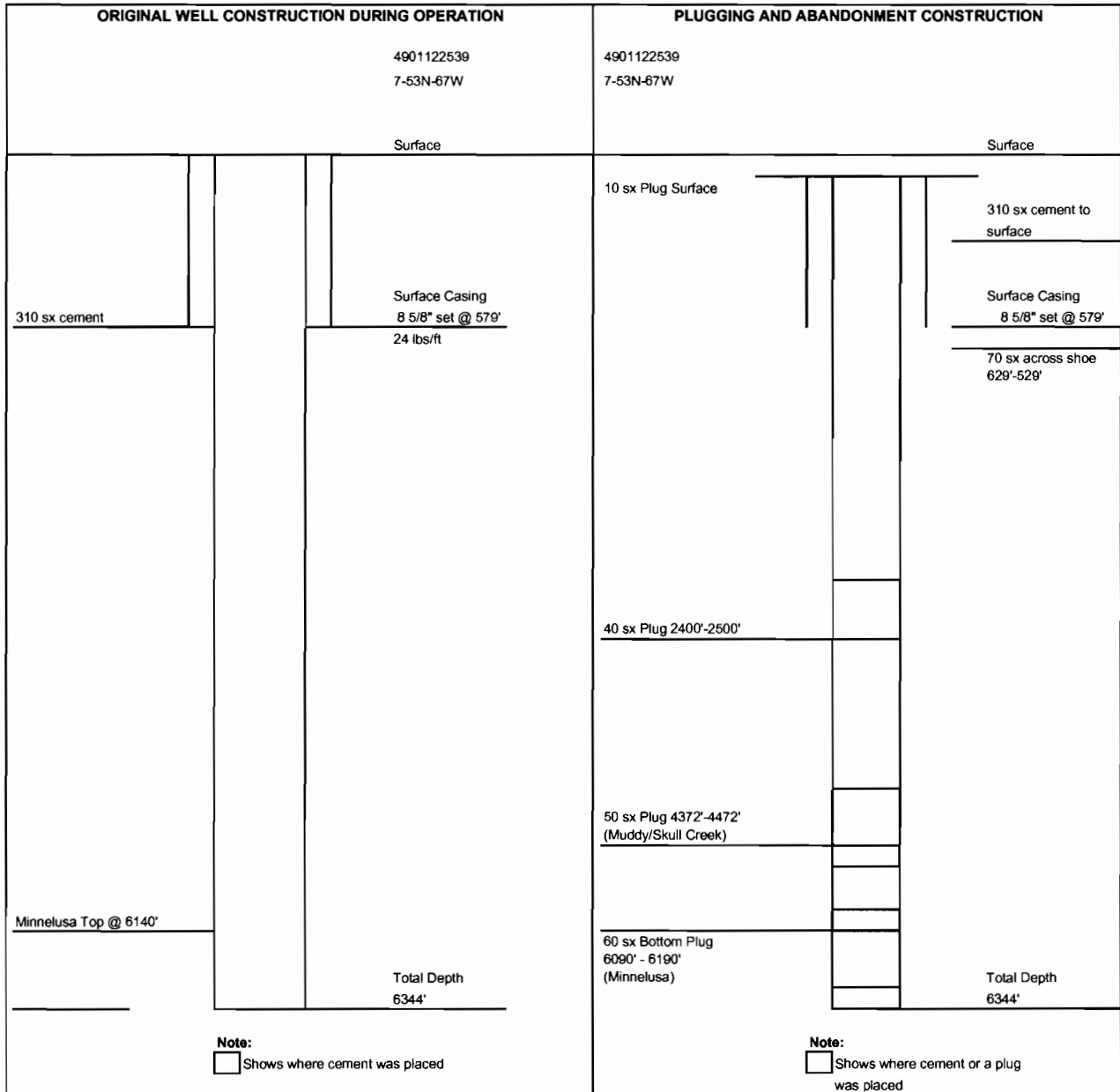
11:00 A.M.
 11-20-80
 Exeter Rig

Approved By

Jim Hennessey

Wyoming Oil and Gas Comission 10/23/2009

49-011-22539	WESLEY 34-7	SW SE 7 T 53 N R 67 W	
MAXIM DRILLING & EXPL INC		FEE	
4204	0	03/27/1994	
557 FSL and 2214 FEL	-104,95090	44,58719	
WC	CROOK	POWDER RIVER	
OIL WELL	SR	05/07/1998	
6344			
04/06/1994	05/09/1994	05/07/1998	04/06/1994
1998/04/06	FINAL ABANDONMENT NOTICE	READY FOR INSPECTION	
1994/05/09	NOTICE OF INTENT	PLUG AND ABANDON	
1994/04/06	NOTICE OF INTENT	VERBAL PLUG AND ABANDON	
MAXIM DRILLING & EXPL INC	03/07/1994	03/09/1994	



Form 3
(June, 1975)

STATE OF WYOMING
OIL AND GAS CONSERVATION COMMISSION
Office of State Oil and Gas Supervisor
P. O. Box 2640
Casper, Wyoming 82601

1. State Lease No.

Fee Lease *Wp*

6. Unit Agreement

N/A

7. Farm or Lease Name

Wesley

8. Well No.

#34-7

9. Reservoir

Minnelusa

10. Field Name

Wildcat

11. Section, Township and Range

Sec. 7: T53N-R67W

12. County

Crook

13. State

Wyoming

1. WELL COMPLETION OR RECOMPLETION REPORT AND LOG

(Submit in Duplicate, Triplicate on State Lands)

Designate type of completion

OIL WELL ☒

GAS WELL ☐

OTHER ☐

DRY ☒

NEW WELL ☐

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

OTHER ☐

SAME RESVR. ☐

DIFF. RESVR. ☐

2. OPERATOR

MAXIM DRILLING & EXPLORATION, INC.

3. ADDRESS

216-16th Street, Suite 900, Denver, Colorado 80202

4. LOCATIONS (Show quarter-quarter description and footage measurements.)

At surface

Section 7: SW/4 SE/4 (557' FSL, 2214' FEL)

At top prod. interval, reported below

Same as above

At total depth

Same as above

MAY 27 1994

WYOMING OIL & GAS

CONSERVATION COMMISSION

14. Permit No.

49-011-22539

Date Issued

March 9, 1994

Previous Permit No.

N/A

Date Issued

N/A

15. Date Spudded

March 27, 1994

16. Date T.D. Reached

April 4, 1994

17. Date Compl. (Ready to Prod.)

N/A

18. Elevations (DP, RKB, RT, GR, etc.)

4202' Ground ungraded

19. Total Depth (MD & TVD)

6344'

20. Plug Back T.D. (MD & TVD)

Surface

21. If Multiple Compl. How Many

22. Intervals Drilled By

Rotary Tools

23. Rotary Tools

X

24. Cable Tools

N/A

25. PRODUCING INTERVAL(S). THIS COMPLETION. TOP, BOTTOM, NAME (MD & TVD)*

N/A

26. TYPE ELECTRIC AND OTHER LOGS RUN (Circle those filed)

Logged by Schlumberger with DI, Sonic

27. CASING RECORD (Report all strings set in well)

Casing Size	Depth Set (MD)	Hole Size	Weight Lbs./Ft.	Purpose	Sacks Cement	Amount Pulled
8-5/8"	578.77' K.B.	12-1/4"	24#	Surface	310sx	none

28. LINER RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cement*	Screen (MD)

29. TUBING RECORD

Size	Depth Set (MD)	Packer Set (MD)

30. PERFORATION RECORD

Depth Interval (MD)	Holes per ft.	Size and Type	Purpose

31. ACID, SHOT, FRAC, CEMENT SQUEEZE, Etc.

Amt. & Kind of Material Used	Depth Interval (MD)

32. PRODUCTION

Date First Production Producing Method (Flowing, gas, lift, pumping—size & type of pump) Well Status (Prod. or shut-in)

Date of Test	Hours Tested	Chart Size	Production For Test	Oil, Bbls.	Gas, Mcf.	Water, Bbls.	Gas-Oil Ratio

33. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Test Witnessed By

N/A

34. LIST OF ATTACHMENTS

Geological Report by Paul B. Slack, Consulting Geologist, and Sundry Notice.

35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED

Bill Hammond

TITLE President

DATE

5-3-94

* See Instructions On Reverse Side

FORMATION TOPS

<u>ZONE</u>	<u>SAMPLE TOP</u>	<u>LOG TOP</u>	<u>SEA LEVEL DATUM (LOG)</u>
Mowry		4235	(-23)
Muddy		4422	(-210)
Skull Creek	4463	4468	(-256)
Dakota	4703	4699	(-487)
Lakota	4784	4780	(-568)
Morrison	4880	4874	(-662)
Sundance	5134	5129	(-917)
Hulett	5294	5290	(-1078)
Spearfish	5550	5538	(-1326)
Goose Egg	5882	5878	(-1666)
Minnekahta	6068	6067	(-1855)
Opeche	6104	6092	(-1880)
Minnelusa	6144	6140	(-1928)
'A' Sand	6144	6140	(-1928)
'A' dolomite	6154	6149	(-1937)
Mid 'B' Dolomite	6174	6170	(-1958)
Lower 'B' Sand	6200	6193	(-1981)
'B' Dolomite	6258	6256	(-2044)
'C' Sand	6315	6310	(-2098)

DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEVIATION°</u>	<u>DEPTH</u>	<u>DEVIATION°</u>
194'	3/4	4918'	1 1/4
371'	3/4	5033'	3/4
579'	3/4	5186'	3/4
995'	2 1/4	5341'	3/4
1597'	1 1/2	5511'	1/4
2062'	1 3/4	5900'	3 1/4
2375'	2 1/4	5904'	3/4
2932'	1 3/4	5930'	2 3/4
3209'	3/4	5947'	2 3/4
3890'	3/4	5960'	2 1/4
4168'	1 1/4	6053'	2 1/4
4571'	3/4	6162'	2 3/4

STATE OF WYOMING
OIL AND GAS CONSERVATION COMMISSION
Office of State Oil and Gas Supervisor
P. O. Box 2640
Casper, Wyoming 82601

5. State Lease No.

Fee Lease

6. Unit Agreement
N/A

7. Farm or Lease Name
Wesley

8. Well No.
#34-7

9. Reservoir
Mingelusa

10. Field Name
Wildcat

11. Section, Township and Range
Sec. 7: T53N-R67W

1. SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill, deepen, or plug-back. Form 1 is provided for such proposals.)

OIL WELL ☒ GAS WELL ☐ OTHER ☐

DRY ☒

2. OPERATOR

MAXIM DRILLING & EXPLORATION, INC.

3. ADDRESS

216-16th Street, Suite 900, Denver, CO 80202

4. LOCATION (Show quarter-quarter description and footage measurements. See also space 18 below)
At surface

Section 7: SW/4SE/4 (557' FSL, 2214' FEL)

14. ELEVATIONS
Derrick Floor

Rotary Kelly
Bushing

Rotary
Table

Ground
4204'
ungraded

Other

011-22539

12. County
Crook

13. State
Wyoming

15. INDICATE BELOW BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA

NOTICE OF INTENTION TO: (Submit in triplicate)

Test Water Shut-Off ☐ Pull or Alter Casing ☐
Fracture Treat ☐ Recomplete ☐
Shoot or Acidize ☐ Abandon ☒
Repair Well ☐ Change Plans ☐

SUBSEQUENT REPORT OF: (Submit in duplicate, triplicate on state lands)

Water Shut-Off ☐ Repairing Well ☐
Fracture Treatment ☐ Altering Casing ☐
Shooting or Acidizing ☐ Abandonment (Submit in triplicate) ☐

(Note: Report results of multiple completion on Well Completion or Recompletion and Log form.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.

This well was plugged and abandoned on April 6, 1994, as follows:

60 sacks	6190-6090'
50 "	4472-4372'
40 "	2500-2400'
70 "	629-529'
10 "	on top
230 sacks	Total

RECEIVED

MAY 09 1994

WYOMING OIL & GAS
CONSERVATION COMMISSION

Verbal permission by Rick Marvel of Wyoming Oil & Gas Conservation Commission at 9:00 a.m. on April 6, 1994.

Enclosure: Geological Report, Paul Slack, Consulting Geologist.
Completion Report.

17. I hereby certify that the foregoing as to any work or operation performed is a true and correct report of such work or operations.

SIGNED

Bill Hammel

TITLE President

DATE

5-3-94

(This space for State office use)

APPROVAL DATE

5/23/94

APPROVED BY

C.W. Farmer
State Oil and Gas Supervisor

Approvals sent

100

CONDITIONS OF APPROVAL, IF ANY

Verbal Approval For Well Abandonment

Date 4/6/91 Time 8:55 AM
 Operator Marian DeLore
 Representative Paul Plach
 Well Name and No. Wesley 34-7
 Located 1/4 Sec 7 Twp 53 Range 6
 Field W. Q County Coch

Plugging Data

Total Depth 6344 Size Hole 7 7/8 Mud Weight 10.0
 Surface Casing; Size 8 5/8 Depth 575'

FORMATION TOP (In Feet)		PLUGS		
		From	To	Sax C
Top hill behind surface		6150	6090	60
Moose	4235	4422	4372	50
Mudstone	4422	3500	2400	40
Shale	4466	629	529	20
Shale	4699	Day hole marker		100
Lehuta	4780			
Mosses	4874			
Spur fish	5538			
Goose egg	5878			
Mosses	6067			
Opelike	6092			
Mosses	6140			

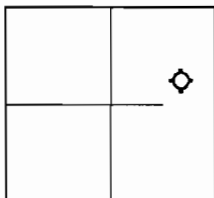
REMARKS

Today crane

1 DST 5' oil

Approved By

Paul Plach



Api Number

49-011-21701

Well Name

BERGER FEE 42-18

Surface Location

SE NE 18 TOWNSHIP 53 NORTH RANGE 67 WEST

Spud

04/01/1985

Operator

MILESTONE PETROLEUM

Elevation GR

4115 GR

Surface Location

1985 FNL and 878 FEL

Field

DEADMAN CREEK

Well Class

OIL WELL

Total Depth

6398

Verbal To Plug and Abandon

04/15/1985

Elevation KB

4129 KB

Longitude

-104.9458

County

CROOK

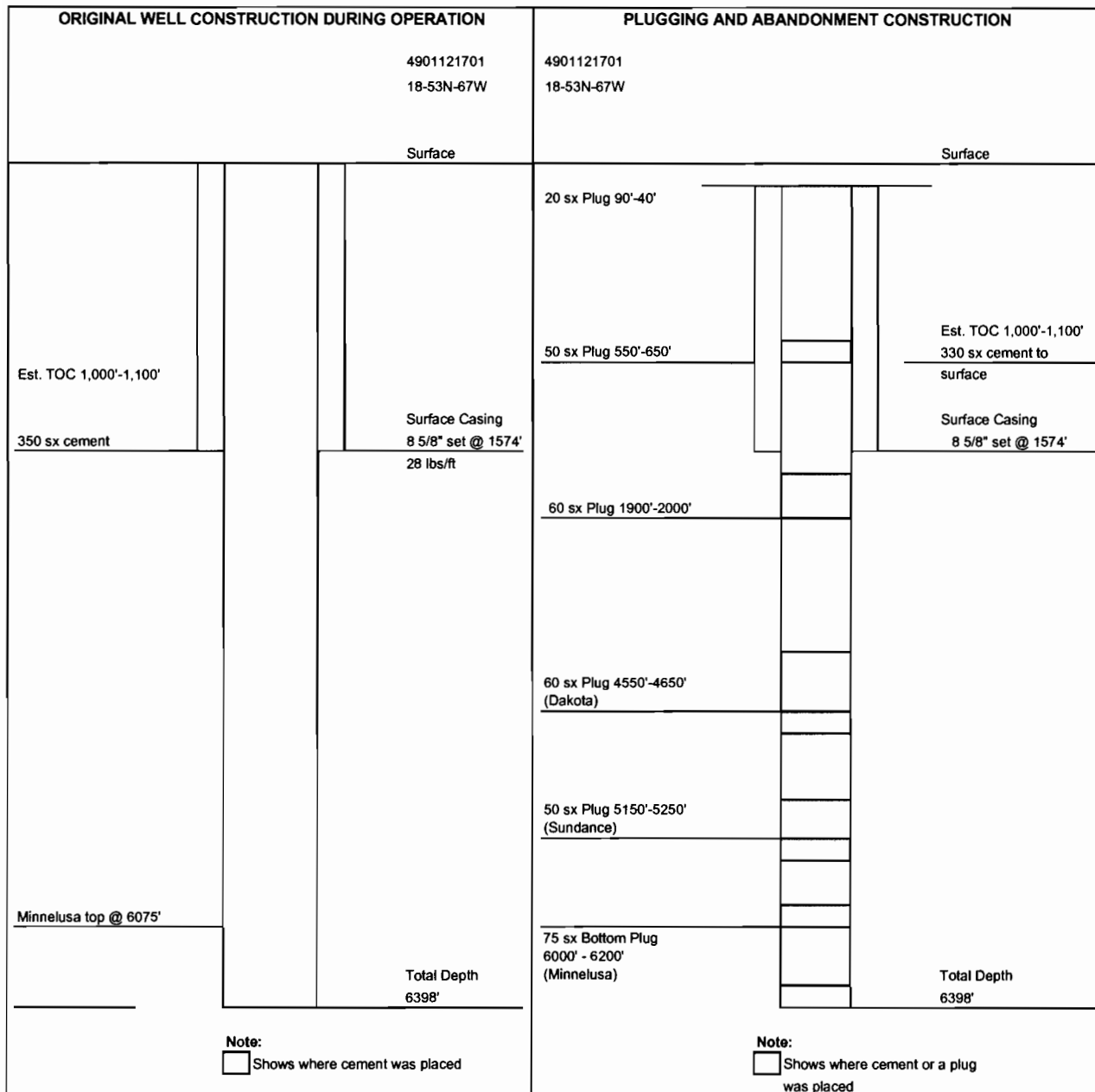
Status from Well Files

PA

Notice of Intent to Abandon

04/29/1985

01/11/10



Form 3
(June, 1975)

STATE OF WYOMING
OIL AND GAS CONSERVATION COMMISSION
Office of State Oil and Gas Supervisor
P. O. Box 2640
Casper, Wyoming 82601

CONFIDENTIAL

5. State Lease No. _____

6. Unit Agreement _____

7. Farm or Lease Name Berger

8. Well No. 42-18

9. Reservoir Minnelusa

10. Field Name Deadman Creek

11. Section, Township and Range Sec. 18-53N-67W

12. County Crook 13. State WY

1. **WELL COMPLETION OR RECOMPLETION REPORT AND LOG**
(Submit in Duplicate, Triplicate on State Lands)

Designate type of completion OIL WELL ☐ GAS WELL ☐ OTHER ☐ DRY ☒
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ OTHER ☐ SAME RESVR. ☐ DIFF. RESVR. ☐

2. OPERATOR
Milestone Petroleum Inc.

3. ADDRESS
P.O. Box 1855, Billings, MT 59103

4. LOCATIONS (Show quarter-quarter description and footage measurements.)
At surface SENW (1985' FNL - 878' FEL)
At top prod. interval, reported below _____
At total depth Same

14. Permit No. 49-011-21701 Date Issued 2-15-85 Previous Permit No. _____ Date Issued _____

15. Date Spudded 4-1-85 16. Date T.D. Reached 4-14-85 17. Date Compl. (Ready to Prod.) N/A 18. Elevations (DP, RKB, RT, OR, etc.)* 4115' GL 19. Elev. Casinghead Flgs. 4129' KB

20. Total Depth (MD & TVD) 6398' 21. Plug Back T.D. (MD & TVD) _____ 22. If Multiple Compl. How Many* N/A 23. Intervals Drilled By Rotary Tools Cable Tools _____

24. PRODUCING INTERVAL(S). THIS COMPLETION. TOP, BOTTOM, NAME (MD & TVD)*
N/A

25. Date Directional Survey Submitted _____

26. TYPE ELECTRIC AND OTHER LOGS RUN (Circle those filed)
DIL/SFL, BHC Sonic, CNL/LDT, Dipmeter, Microlog

27. Was Well Cored No

28. **CASING RECORD (Report all strings set in well)**

Casing Size	Depth Set (MD)	Hole Size	Weight Lbs./Ft.	Purpose	Sacks Cement	Amount Pulled
8-5/8"	1574'	12-1/4"	28#	Sfc	350	None

29. **LINER RECORD**

Size	Top (MD)	Bottom (MD)	Sacks Cement*	Screen (MD)

30. **TUBING RECORD**

Size	Depth Set (MD)	Packer Set (MD)
N/A		

31. **PERFORATION RECORD**

Depth Interval (MD)	Holes per ft.	Size and Type	Purpose
6,200'-6,000' w/75 sxs (Minnelusa)		Plug #1	650'-550' w/50 sxs (Base Sfc) Plug #5
5,250'-5,150' w/50 sxs (Sundance)		Plug #2	90'-40' w/20 sxs (Sfc) Plug #6
4,650'-4,550' w/60 sxs (Dakota)		Plug #3	
2,000'-1,900' w/60 sxs (Stabilizer)		Plug #4	

32. **ACID, SHOT, FRAC., CEMENT SQUEEZE, Etc.**

Amt. & Kind of Material Used	Depth Interval (MD)

33. **PRODUCTION**

Date First Production N/A Producing Method (Flowing, gas, lift, pumping—size & type of pump) N/A Well Status (Prod. or shut-in) N/A

Date of Test	Hours Tested	Choke Size	Production For Test	Oil, Bbls.	Gas, Mcf.	Oil Gravity—API (Corr.)
N/A	N/A	N/A		N/A	N/A	N/A

Flow, Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil, Bbls.	Gas, Mcf.	Water, Bbls.	Gas-Oil Ratio
N/A	N/A		N/A	N/A	N/A	N/A

34. **DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)**
N/A Test Witnessed By N/A

35. **LIST OF ATTACHMENTS**
N/A

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED [Signature] TITLE Drilling Manager DATE 4-23-85

* See Instructions On Reverse Side

INSTRUCTIONS

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see space 36.

Space 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements.

Space 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Spaces 22 and 24: If this well is completed for separate production from more than one zone (multiple-zone completion), so state in space 22, and in space 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the zone reported in space 33. Submit a separate completion report on this form for each interval (zone) to be separately produced.

Space 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Space 33: Submit a separate completion report on this form for each interval (zone) to be separately produced. (See instruction for spaces 22 and 24 above.)

SUMMARY OF SIGNIFICANT WATER ZONES AND OIL AND GAS ZONES (Except as shown on the front hereof)						GEOLOGIC MARKERS		
(Note: If well was directionally drilled, show both measured and true vertical depths for zones and markers listed)								
Kind of Formation (Sandstone, limestone, shale, etc.)	Depth to Top of Zone		Depth to Bottom of Zone		Contents; Productive Rate, if known	Name	Depth to Top	
	Meas. Depth	True Vertical	Depth	Meas. Depth			Meas. Depth	True Vertical
DST #1, 6058'-6078', Minnelusa "A". DST Times: 30-30-85-185. BHT: 126°F. No Cushion. Pipe Recovery: 560" SOCW, 4033' wtr, 1485' SOCW. Sample Chamber: 110# psi, 2150 cc SOCW, tr oil, tr gas. Pressures:					Inside Outside	Niobrara	2655'	
					HP: 2934, 2901 2085, 2896	Mowry	4204'	
					FP: 2133-2444 2146-2450	Muddy	4340'	
					2608-2926 2620-2293	Skull Creek	4384'	
					SIP: 3213, 3247 3217, 3252	Dakota	4614'	
						Fuson	4751'	
						Lakota	4757'	
						Morrison	4886'	
						Sundance Sand	5226'	
						Sypsum Spring	5420'	
DST #2, 6148'-6169', Minnelusa "B". DST Times: 15-60-60-120. BHT: 125°F. No Cushion. Pipe Recovery: 270' MW, 3075' SGCW. Sample Chamber: 22# psi, rainbow of oil, 2200 cc wtr, tr gas. Pressures:					Inside Outside	Spearfish	5468'	
					HP: 3296-3280 3297-3234	Goose Egg	5806'	
					FP: 720-745 717-750	Minnekahta	5988'	
					969-1573 973-1573	Opeche	6030'	
					SIP: 2477-2461 2476-2460	Minnelusa	6075'	
						"A" Sand	6077'	
						"B-1" Dolomite	6115'	
						"B" Sand	6141'	
						"B" Dolomite	6180'	
						"C" Sand	6238'	