

APPENDIX B
Lamb Madison Well Information
(DENR, 2012)



SOUTH DAKOTA WATER WELL COMPLETION REPORT

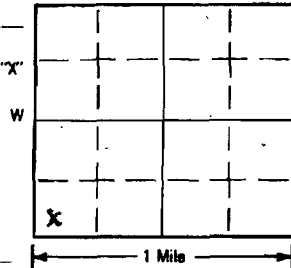
RECEIVED

Location SW 1/4 SW 1/4 Sec 9 Twp 55 Rg 1E
County Custer

Please mark well location with an "X"

Well Completion Date

May 9, 07



LOCATION:
Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.) 150 ft. from septic (identify source).

PROPOSED USE:

☒ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Rotary - Air + Mud

CASING DATA: ☒ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>23</u> LB/FT	<u>7</u> IN	<u>+2</u> FT	<u>1030</u> FT	<u>8 3/4</u> IN
<u>15.5</u> LB/FT	<u>5.5</u> IN	<u>1008</u> FT	<u>1718</u> FT	<u>6 1/4</u> IN
<u>-</u> LB/FT	<u>0. H.</u> IN	<u>1718</u> FT	<u>1820</u> FT	<u>4 3/4</u> IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Portland</u>	<u>220</u>	<u>14</u> lb./gal	<u>0</u> ft.	<u>1030</u> ft.
<u>Portland</u>	<u>75</u>	<u>14</u> lb./gal	<u>1008</u> ft.	<u>1718</u> ft.

Describe grouting procedure 7" casing see REMARKS
5" Pressure grouted through casing

SCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: chlorine
☐ NO, Why Not? saline

Laboratory sent to for water quality analysis

Mid continent

Well Owner: David Lamb

Business Name: _____

Address: 4555 Reservoir Road

Rapid City, SD 57703

MAY 18 2007

WATER RIGHTS PROGRAM

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Tan Sandy clay</u>	<u>0</u>	<u>30</u>
<u>Speck Fish</u>	<u>30</u>	<u>420</u>
<u>Minnekahta</u>	<u>420</u>	
<u>4' Void - lost Return</u>	<u>420</u>	<u>424</u>
<u>No Samples until 1030'</u>		
<u>Minnekahta</u>		<u>1681</u>
<u>Madison</u>	<u>1681</u>	<u>1820</u>

STATIC WATER LEVEL 562 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped Describe: Air Developed
☐ Bailed
☒ Other

Pumping Level Below Land Surface

980 ft. After 4 Hrs. pumped 75 GPM

680 ft. After 1 Hrs. pumped 27 GPM

If pump installed, pump rate _____ GPM

REMARKS Pressure grouted through 7" casing w/ 100 SK - Added 95 SK From surface to Fill up.

This well was drilled under license # 331

And this report is true and accurate.

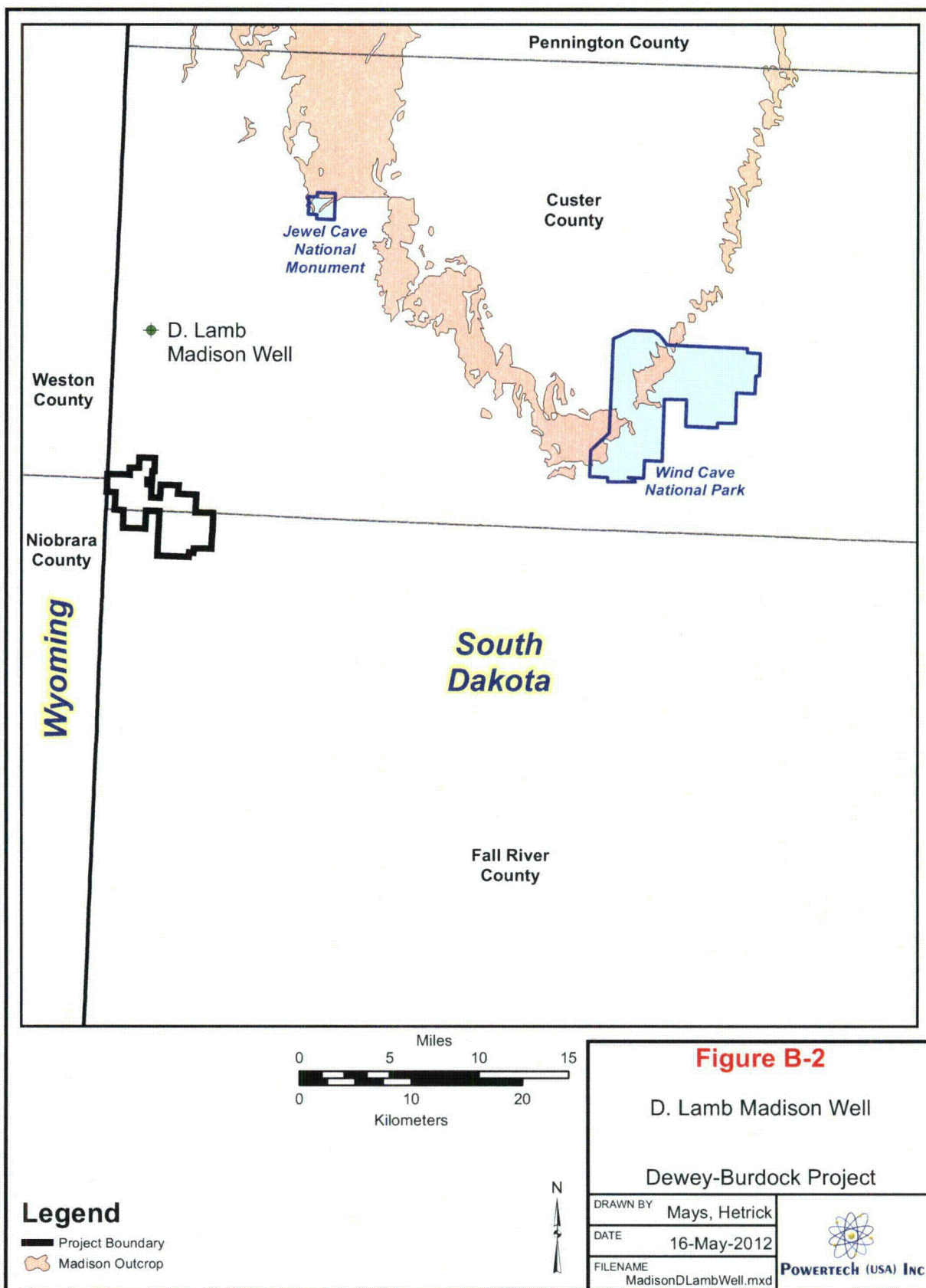
Drilling firm Taylor Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

Figure B-1. Lamb Madison Well Completion Report





POWERTECH (USA) INC.



MIDCONTINENT
TESTING LABORATORY

Lab Number 2W70509821
20070604863

NEW WELL SAMPLING PROGRAM

Please provide the following information about your new well. This form, along with a copy of your sample results will be supplied to the State in order to comply with the Centennial Environmental Protection Act of 1989. Thank you.

Well owner: Dave Lamb
Mailing address: 4555 Reservoir Rd
City: RC State: SD Zip Code: 57703
Daytime phone number: 605 393 0093

For all Wells:

Date sample collected: 5-8-07 Time: 1:00 PM
Sample collector: Kim Taylor
Well drilled by: Taylor Drilling Date: 5-8-07
Pump installed by: _____ Date: _____
Depth of well: 1820 FT Diameter of well: 7" + 5/8"

For Private Wells, please also complete the following location information:

County: Custer
Township: 5
Range: 1
Section: 9
Quarter: SW 1/4
Distance from nearest town: 8 miles N or S
22 miles E or W
of: Custer
(town)

Please return to Mid-Continent Testing at the time of sample submittal.

2381 South Plaza Drive
P.O. Box 3388
Rapid City, SD 57709
Ph 605/348-0111
www.ThisIsMidContLab.com

Figure B-3. Lamb Madison Well Water Quality Report (page 1 of 3)



MIDCONTINENT

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 ~ www.thechemistrylab.com

Page 1 of 1

Custom Go

Sample Site: David Lamb
Sampled: 06/03/07 at 02:00 PM
by Kim Taylor
Sample Matrix: Water

Lab ID#: 20070604803
Received: 06/04/07 at 08:45 AM
by Steve Ristau
Account: 1576
Taylor Drilling Company

TAYLOR DRILLING
PO BOX 7738
RAPID CITY, SD 57702

Parameter	Result	Units	Method	Analyst/Date
Bacteria				
Fecal Coliform	Absent		SM 9223 P/A KLS	06/04/07
Total Coliform	Absent		SM 9223 P/A KLS	06/04/07

Approved By:

Steve Ristau

Approved On: 6/5/2007 5:38:47 PM

Figure B-3. Lamb Madison Well Water Quality Report (page 2 of 3)



POWERTECH (USA) INC.



MIDCONTINENT
TESTING LABORATORIES

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site: David Lamb
Sampled: 05/08/07 at 01:00 PM
by Kim Taylor
Sample Matrix: Water

Lab ID#: 20070509821
Received: 05/09/07 at 08:30 AM
by Kate Shreves
Account: 1578
Taylor Drilling Company

TAYLOR DRILLING
PO BOX 7738
RAPID CITY, SD 57702

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Physical Properties							
Electrical Conductivity	446	µmhos/cm	1	0.188	5.00	EPA 120.1	JAM 05/10/07
Non-Metallics							
Nitrogen, Nitrate (NO3)	0.442	mg/L	1	0.014	0.050	EPA 353.2	DES 05/10/07
Sulfate (SO4)	< 10.0	mg/L	1	3.41	10.0	EPA 375.2	DES 05/10/07
Metals - Dissolved							
Sodium (Na)	2.42	mg/L	1			EPA 273.1	SAC 05/10/07

Approved By: Steve Pistan

Approved On: 5/11/2007 9:30:31 AM

Figure B-3. Lamb Madison Well Water Quality Report (page 3 of 3)