



POWERTECH (USA) INC.

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

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
TAN SANDY clay	0	30
SPEAR FISH	30	420
MINNEKAHTA	420	
4' Void - lost Return	420	424
No Samples until 1030'		
MINNEKAHTA		1681
MADISON	1681	1820

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
23 LB/FT	7 IN	+2 FT	1030 FT	8 3/4 IN
15.5 LB/FT	5.5 IN	1008 FT	1718 FT	6 1/4 IN
- LB/FT	0. H.	1718 FT	1820 FT	4 3/4 IN

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? _____

GROUTING DATA

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

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

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

SCREEN: Perforated pipe Manufactured
 Diameter _____ IN Length _____ FEET
 Material _____
 Slot Size _____ Set From _____ Feet to _____ Feet
 Other information _____

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

WAS A PACKER OR SEAL USED? YES NO
 If so, what material? _____
 Describe packer(s) and location? _____

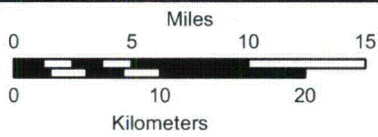
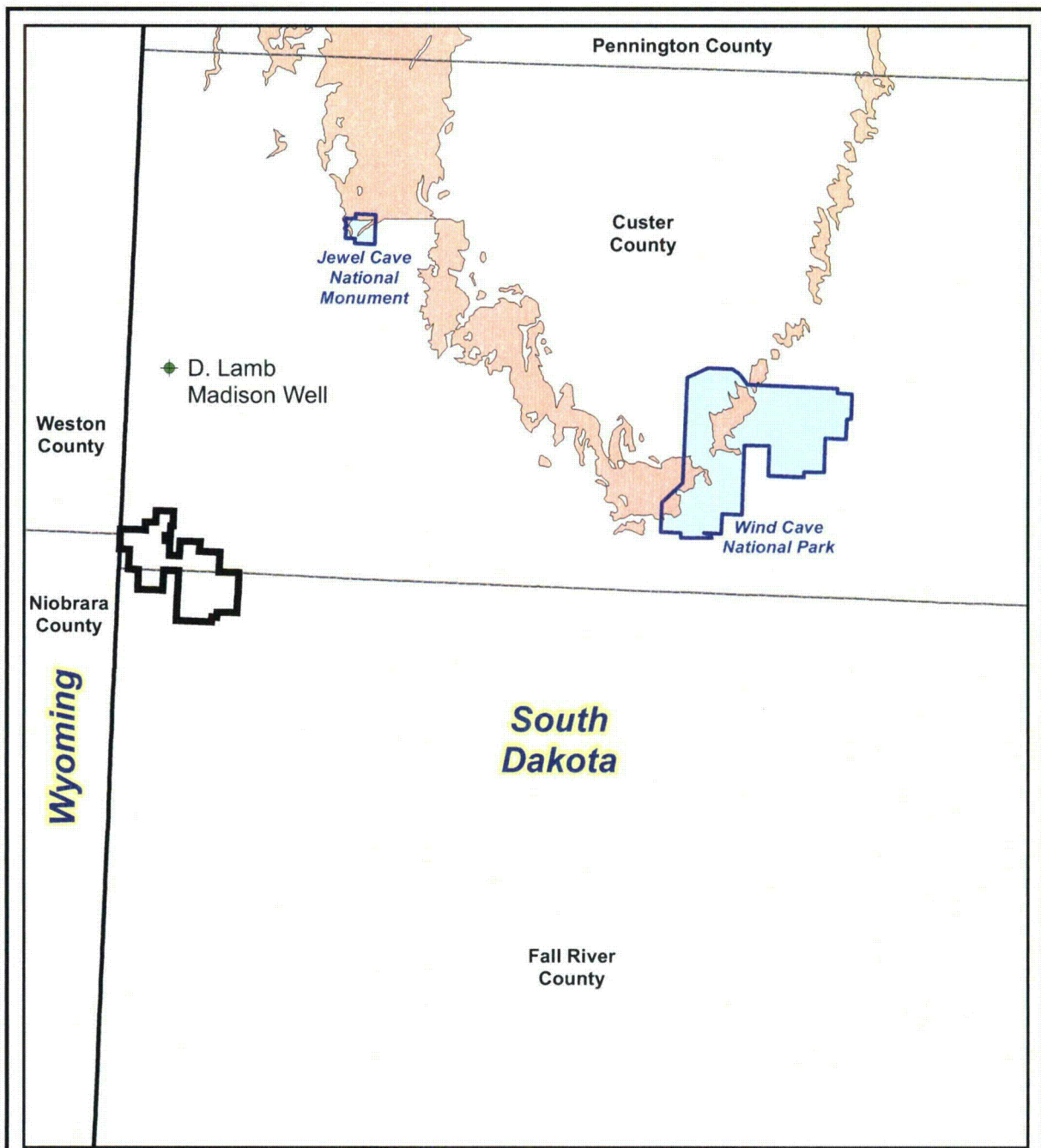
This well was drilled under license # 331
 And this report is true and accurate.
 Drilling firm Taylor Drilling
 Signature of License Representative: _____

DISINFECTION: Was well disinfected upon completion?
 YES, How: chlorine solution
 NO, Why Not? _____

Signature of Well Owner or Equitable Property Holder: _____
 Date: _____

Laboratory sent to for water quality analysis
Mid continent

Figure B-1. Lamb Madison Well Completion Report



Legend
 — Project Boundary
 Madison Outcrop



Figure B-2

D. Lamb Madison Well

Dewey-Burdock Project

DRAWN BY	Mays, Hetrick
DATE	16-May-2012
FILENAME	MadisonDLambWell.mxd



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MIDCONTINENT
TESTING LABORATORY

Custer Co

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)



Austin Co

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

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 5:39:47 PM

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



Handwritten signature
Page 1 of 1

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: 1576
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	445	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)