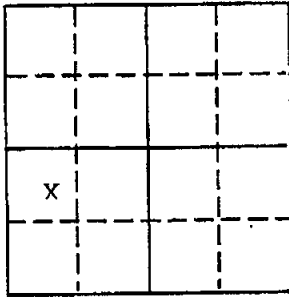


SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW SW SE Sec 6 Twp 11S Rg 4ECounty Fall River
Rumford WellPlease mark well
location with an "X"

Well Completion Date

5-1-17

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? ft from unknown (Identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Air rotaryCASING DATA: ☐ Steel ☒ Plastic ☐ OtherIf other describe Sch 40 PVC

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	10 IN	+2 FT	40 FT	14 7/8 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Portland	27	15.7 Lb/gal	0 Ft	18 Ft
Type II		Lb/gal	Ft	Ft

Describe grouting procedure

TremieSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 10 Inches Length 20 FeetMaterial Sch 40 PVCSlot Size 0.125 Set From 20 Feet to 40 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 Tablets☐ No, Why Not? _____
Lab sample sent to for water quality analysisWell Owner: Weinreis Brothers

Business Name:

Address: 230908 Highland Rd.City, State, Zip: Scottsbluff, NE 69361

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Topsoil-Brown Clay	0	15
Light brown clay	15	25
Gray-Black Clay	25	35
Sandy gray clay	35	45
Black sandy shale	45	55
Black Shale	55	65

STATIC WATER LEVEL 8.20 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe:
☐ Bailed
☒ Other
Airlift

Pumping Level Below Land Surface

38 Ft. After 3 Hrs. pumped 8.5 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

Calc'de Shale AmThis well was drilled under license # 604

And this report is true and accurate.

Drilling firm: Weston Engineering, Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 5-31-17

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FEB 23 2018

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MIDCONTINENT
TESTING LABORATORIES, INC.

Page 1 of 1

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

Sample Site: Weinreiss #2 - *Rumford*
Sampled: 05/09/17 at 08:30 AM
by Jerry Hunt
Sample Matrix: Water

Lab ID#: 20170509904
Received: 05/09/17 at 10:27 AM
by Dean Aurand
Account: 8066 - Weston Engineering Inc.

JERRY HUNT
WESTON ENGINEERING
PO BOX 260
UPTON, WY 82730

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Physical Properties								
Electrical Conductivity	5190	µmhos/cm	1	0.470	5.00	SM 2510B	JAM	05/11/17
Hardness	2140	mg/L	1			SM 2340 B	SCR	05/11/17
pH	7.93	S.U.	1			SM 4500-H+ B	JAM	05/12/17
Total Dissolved Solids	4850	mg/L	100ml	18.1	50.0	SM 2540 C	ELR	05/10/17
Non-Metallics								
Nitrogen, Nitrate (NO3)	0.297	mg/L	1	0.019	0.050	SM 4500-NO3 F	BLL	05/10/17
Sulfate (SO4)	3340	mg/L	100	30.1	100	SM 4500-SO4 E	BLL	05/11/17
Metals - Dissolved								
Calcium (Ca)	374	mg/L	12	0.374	12.0	SM 3111 B	TMS	05/10/17
Magnesium (Mg)	292	mg/L	9	0.367	4.50	SM 3111 B	TMS	05/10/17
Sodium (Na)	562	mg/L	35	5.30	17.5	SM 3111 B	TMS	05/10/17
Metals - Total								
Iron (Fe)	6.61	mg/L	100	0.021	0.500	EPA 200.8	TNA	05/11/17
Manganese (Mn)	0.319	mg/L	10	0.00004	0.010	EPA 200.8	TNA	05/11/17
Bacteria								
E. coli	Absent		1			SM 9223 B (P/A)	JMH	05/09/17
Total Coliform	Absent		1			SM 9223 B (P/A)	JMH	05/09/17

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Report Approved By:

Steve Distau

Report Approved On: 5/15/2017 1:17:01 PM