



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

FAX (208) 334-2348

January 9, 2006

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

KELLER ASSOCIATES
ATTN DONN R CARNAHAN PE
131 S 5TH AVE, STE A
MERIDIAN ID 83642

RECEIVED

FEB 16 2006

WATER RESOURCES
WESTERN REGION

**RE: FIELD EXAM FOR WATER RIGHT 65-13886 EMMETT
SCHOOL DISTRICT, WEST SIDE ELEMENTARY SCHOOL**

Dear Mr. Carnahan,

On 6/12/2002, I performed a field exam on the West Side Elementary School, Emmett School District #221. You accompanied me on this field exam. During the exam, you agreed to attain some additional information for me. This information is as follows:

- 1.) Pump test for the domestic well, or other proof showing the well was in place and operational by 8/31/2000. - PROVIDES PUMP TEST & QUALITY TEST.
- 2.) Water use calculations showing the entire domestic water use needs of the school. → SCHOOL WILL PROVIDE WATER METER READING (WINTER MONTHS)
- 3.) The wells ^{DOMESTIC IS} were being used to irrigate the school grounds. You were going to file an application for permit for irrigation from the wells. → SCHOOL WILL APPLY FOR AN IRRIGATION WATER RIGHT.

I contacted you several time to attain the information after the field exam, but didn't receive any of the requested items. It seemed as though some of the information was missing from your records, and you were trying to contact other companies to attain all of the necessary information. Unfortunately, this field exam was set aside while I worked on other things, and it was never completed. I have picked this file back up and hope to have it completed as soon as possible. It is my goal to complete the report for this field exam by the end of February of 2006.

According to the records currently before the department, only the fire well was completed by the time that proof of beneficial use was due or 8/31/2000. The school started using a separate well for domestic uses, which was not on the original water right permit. After proof of beneficial use was filed, an amendment to the permit was filed to add the domestic well. A fax was sent by you that domestic well was in place and operational on 8/29/200. You stated that a pump test was done on both the domestic well and the fire protection well, but you only supplied the pump test on the fire protection well.

2/15/06 Provided Info. to DAN NELSON
Thanks
Mike Fisher
Emmett School 221
208-365-8648

Without any proof to the contrary, I have to assume that the fire protection use associated with this permit was the only use developed by the 8/31/2000 deadline. What this would mean is that the school district would need to file a new permit for the domestic use. I also discovered during the field exam that the irrigation system was using these wells for the irrigation of the school grounds. There is no water right that allows irrigation from the wells, so you would also need to file a permit for this as well.

Taking all of this information into account, it might be best all the way around to just license the fire protection use with this permit, and then file a new permit that would cover all of the domestic use and the irrigation at the same time.

Whatever direction you choose to take, it is very important that we get this permit licensed as soon as possible, and file any subsequent permits to get your use legally covered by a water right.

Please contact me as soon as possible to go over this information, so we can get this school's water system legally operating.

Respectfully,

A handwritten signature in black ink, appearing to read "Daniel A. Nelson", with a long, sweeping horizontal line extending to the right.

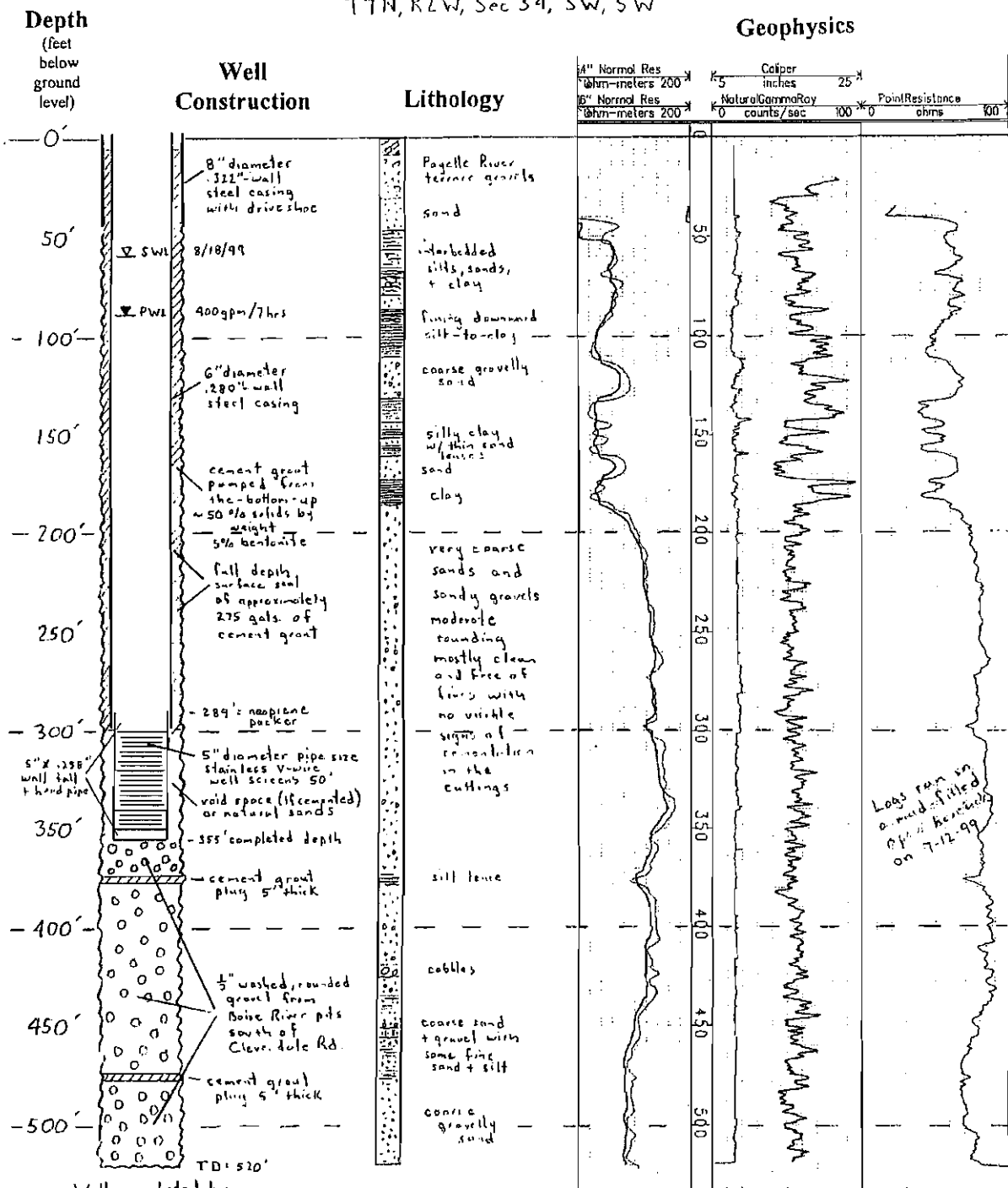
Daniel A. Nelson
Senior Agent
Western Region Office - IDWR

CC Dr. Bob Fontaine, Independent School Dist. #221

Emmett School District #221 - Westside Elementary School Well

NE corner of Idaho Blvd. and Mesa

T1N, R2W, Sec 34, SW, SW



Well completed by
Stevens & Sons Well
Drilling 8/17/99

Vertical Scale: 1"=50'
Horizontal Scale: 1"=1'

Specific Capacity = 13 gpm/ft

Strong H₂S odor evident
in discharge

ES 9-24-99
Hydro Logic

Water Chemistry

Analyses by Alchem Laboratories
mglr

Constituent/Parameter	Result	Constituent/Parameter	Result
Alkalinity	219	Nitrate (N)	<0.10
Ammonia (N)	0.64	pH (SU), field	8.07
Arsenic	<0.005	pH (SU), lab	7.86
Calcium	27.3	Phosphorus	0.030
Chloride	1.16	Potassium	0.77
Conductivity, Lab uS/cm	440.0	Radiology (gross Alpha) pCi/l	34/ 2
Conductivity, Field uS/cm	337	Radiology (gross Beta) pCi/l	34/ 2
Corrosivity, Lab (Langlier)	-0.07	Silica	20.4
Corrosivity, Field (Langlier)	0.14	Sodium	57.6
Fluoride	0.30	Sulfate	17.3
Hardness	85.6	Sulfide	<0.05
Iron (filtered)	0.11	Temperature (field)	56.5 °F
Magnesium	4.25	Total Dissolved Solids	340.0
Manganese (filtered)	0.13	VOC	N/D

Hydro Logic, Inc.

August 24, 1999

220 PM

Field Notes From Downhole Camera Survey of Idaho Blvd + Mesa Test Well - Emmett

Purpose of this survey was to examine details of well construction of the newly completed well by Stevens.

Datum = top of 6" steel casing = 1 ft above ground
53' 4" - static water level 225 PM.

236' - - remnants of concrete grout visible on inside of casing

246' - begin spiral pattern of drilling concrete grout

289' 10" - packer/reducer with two lowering hooks  at top of 5" head pipe.
- chunks of concrete near hooks.

300' - top of 5" diameter screens

320' 6" - screen joint

340' 11" - screen joint

335' - begin some blockage of screen openings (20%)

351' - bottom of screen / top of tailpipe

353' 6" TD rubbery soft growth?

Concrete grout apparently filled the 6-inch pipe up to 235-245 feet and had to be drilled out prior to screen placement. A grout coating is present from 235- to 290 feet which may effect water chemistry analyses (esp. pH). The tail pipe is unusually encrusted with a soft ? growth? of nodules and the bottom of the well appears to have a light-colored ? rubbery? growth? as well. The lower 15 feet of screen appears partially blocked (20%) and not entirely developed.

OVERFLOWED
240 g
340
ENTER 100'



Alchem Laboratories, Inc.

104 West 31st Street
Boise, Idaho 83714

Phone (208) 336-1172
FAX (208) 336-7124

Water, Waste Water
and Soil Analysis

LABORATORY REPORT

ED SQUIRES & ASSOCIATES
1530 KNIGHTS DR.
BOISE, IDAHO

83712

ATTENTION: ED SQUIRES
SOURCE -: EMMETT #10 TEST

DATE COLLECTED - - - 08/17/1999
TIME COLLECTED - - - 1420
DATE RECEIVED - - - 08/17/1999
DATE REPORTED - - - 08/31/1999
SUBMITTED : BRIAN CAVANAGH

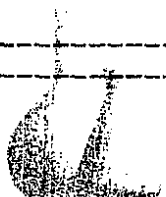
LAB SAMPLE NUMBER - 69877

Results reported unless noted: (Chemistry Analysis as mg/l) (Bacteria as organisms/100 ml)

ANALYSIS	RESULTS	DATE ANALYZED	ANALYST
ALKALINITY	219.0	08/25/1999	CE
AMMONIA as N	0.64	08/30/1999	SQ
ARSENIC	0.005	08/18/1999	PM
CALCIUM	27.3	08/18/1999	PM
CHLORIDE	1.16	08/18/1999	HG
CONDUCTIVITY (umhos/cm)	440.0	08/17/1999	NH
CORROSIVITY	-0.07	08/30/1999	JD
FLUORIDE	0.30	08/25/1999	CE
HARDNESS	85.6	08/18/1999	PM
IRON	0.11	08/18/1999	PM
IRON (DISS.)	0.11	08/18/1999	PM
SULFIDE	0.05	08/18/1999	CE
MAGNESIUM	4.25	08/18/1999	PM
MANGANESE	0.12	08/19/1999	PM
MANGANESE (DISS.)	0.13	08/18/1999	PM
NITRATE as N	0.10	08/18/1999	HG
POTASSIUM	0.77	08/27/1999	MM
SILICA	20.4	08/20/1999	MM
SODIUM	57.6	08/20/1999	PM
SULFATE	17.5	08/18/1999	HG
TOTAL DISS. SOLIDS	340.0	08/20/1999	NH
TOTAL PHOSPHORUS as P	0.030	08/26/1999	TK
pH (SU)	7.86	08/17/1999	TK

COMMENTS: FIELD TEMP=56.5 F, FIELD COND=337 uS/CM, FIELD pH=8.07
CORROSIVITY: THE WATER IS MODERATELY AGGRESSIVE ACCORDING
TO THE LANGLIER INDEX.
FIELD CORROSIVITY = 0.14

This report for the exclusive use of the client(s) to whom it is addressed. Its disclosure to others for use in advertising is not authorized. These results refer only to the specific sample tested and no interpretation is intended or implied.



Jennifer Dorman for S&B
Suzanne Howell, Laboratory Manager



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Water, Waste Water
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LABORATORY REPORT

ED SQUIRES
ATTN:
1530 KNIGHTS DR.
BOISE, IDAHO 83712

DATE COLLECTED: 08/17/99
TIME COLLECTED: 14:20
DATE RECEIVED: 08/17/99
DATE REPORTED: 08/23/99
SAMPLED BY: _____

PROJECT: EMMETT #10 TEST
SOURCE: EMMETT #10 TEST
MATRIX WATER

VOLATILE AROMATIC COMPOUNDS by 503.1

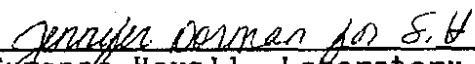
LAB SAMPLE NUMBER - 69878

COMPOUND	METHOD DETECTION LEVEL (ug/L)	MAX. CONTAMINANT LEVEL (ug/L)	ANALYTICAL RESULTS (ug/L)
=====			
<u>REGULATED VOC'S</u>			
BENZENE	0.5	5.0	ND
CHLOROBENZENE	0.5	100.0	ND
p-DICHLOROBENZENE	0.5	75.0	ND
o-DICHLOROBENZENE	0.5	600.0	ND
1,1-DICHLOROETHYLENE	0.5	7.0	ND
cis-1,2-DICHLOROETHENE	0.5	70.0	ND
trans-1,2-DICHLOROETHENE	0.5	100.0	ND
ETHYLBENZENE	0.5	700.0	ND
STYRENE	0.5	100.0	ND
TETRACHLOROETHYLENE	0.5	5.0	ND
TOLUENE	0.5	1,000.0	ND
1,2,4-TRICHLOROBENZENE	0.5	9.0	ND
TRICHLOROETHYLENE	0.5	5.0	ND
VINYL CHLORIDE	0.2	2.0	ND
TOTAL XYLENES	0.5	10,000.0	ND

=====

ND = None Detected

DATE ANALYZED: 08/20/99
ANALYST: G. HAGEN


Suzanne Howell, Laboratory Manager


REPORT CONTINUED



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REPORT CONTINUED

LAB SAMPLE NO. - 69878

PAGE 2

UNREGULATED VOC's

<u>COMPOUNDS</u>	<u>METHOD DETECTION RESULTS (ug/L)</u>	<u>ANALYTICAL RESULTS (ug/L)</u>
BROMOBENZENE	0.5	ND
n-BUTYLBENZENE	0.5	ND
sec-BUTYLBENZENE	0.5	ND
tert-BUTYLBENZENE	0.5	ND
2-CHLOROTOLUENE	0.5	ND
4-CHLOROTOLUENE	0.5	ND
1,3-DICHLOROBENZENE	0.5	ND
1,1-DICHLOROPROPENE	0.5	ND
cis-1,3-DICHLOROPROPENE	0.5	ND
trans-1-3-DICHLOROPROPENE	0.5	ND
HEXACHLOROBUTADIENE	0.5	ND
ISOPROPYLBENZENE	0.5	ND
p-ISOPROPYLTOLUENE	0.5	ND
NAPHTHALENE	0.5	ND
n-PROPYLBENZENE	0.5	ND
1,2,3-TRICHLOROBENZENE	0.5	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND

ND = None Detected

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From: Donn Carnahan [mailto:dcarnahan@kellerassociates.com]
Sent: Friday, February 10, 2006 3:32 PM
To: mfisher@isd221.net
Cc: dan.nelson@idwr.idaho.gov
Subject: West Side Elementary Well Issues

Mike,

Attached is a copy the Idaho Department of Water Resources (IDWR) January 9, 2006 letter. The letter requested three action items, *my response is in italics*, with your required action **bolded**.

Item 1: IDWR requested proof showing the well was in place and operational. *The attached "Emmett Proof of Beneficial Use" file contains information showing the well drilling was completed 8-17-99, well construction, lithology and geophysics information is included. The information indicates that the well was pump at 400 gpm for 7 hours, also included are water quality sample results from water pumped from the well.* **Please print this information and forward to IDWR.**

Item 2: IDWR requested calculations showing the domestic water use needs. *In talking with IDWR it was decide that actual water meter recordings would satisfy this requirement.* **Please forward actual meter readings and use for non-irrigation months to IDWR.**

Item 3: IDWR requested application for permit be filed for the irrigation use. I have filled out the Application for Permit, please review (it is for irrigating 8 acres of ground with a water right of 0.16 cfs or 72 gpm) if this is correct, **please print out the file called "Emmett New Application for Permit", review, get an authorized signature and submit to IDWR along with a check for \$100.**

I believe that by submitting the three requested items to IDWR all water rights issued should be resolved. Please don't hesitate to call me 288-1992 or Daniel Nelson at IDWR 334-2190.

Good luck,

Donn Carnahan, P.E.
Keller Associates, Inc
131 S.W. 5th Ave., Ste. A
Meridian, Idaho 83642
208.288.1992
dcarnahan@kellerassociates.com

2/13/2006

*This info e exam follow up for
65-13888 was submitted with
appl. received 2/16/06*

JZ