

RECEIVED

MAR - 7 2006

Permit No: 65-13886

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STATE OF IDAHO DEPARTMENT OF WATER RESOURCES
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13886

Exam Date: 6/13/2002

1. Current Owner: EMMETT SCHOOL DISTRICT #221
601 E 3RD ST
EMMETT ID 83617
(208)365-6301
2. Accompanied by: Mike Fisher
Phone No: (208) 365-2022, Cell (208) 365-8648, Fax (208) 365-7804
Address: 722 S Wardwell, Emmett ID 83617
Relationship to Permit Holder: Maintenance Supervisor

3. SOURCE TRIBUTARY
GROUND WATER N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Emmett Irrigation District
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	SW1/4SW1/4SW1/4	Sec. 34, Twp 07N, Rge 02W, B.M.
GEM County		
GROUND WATER	SW1/4SW1/4SW1/4	Sec. 34, Twp 07N, Rge 02W, B.M.
GEM County		

Method of Determination: Visual Inspection, and use of 2004 aerial photography

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	02W	34												X					

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	02W	34												X					

Method of Determination: Visual Inspection, and use of 2004 aerial photography

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

YES Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

YES Aerial Photo Attached (required for irrigation of 10+ acres).

YES Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Domestic Well	Franklin	7.5 Hp	8007 8-18-00-20	Franklin	model 5MC-110-7 4 inch discharge
Fire Well	US Motors	250 Hp	H0250V251I	Floway	41114-1-1

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
N/A						

2. Measurements:

No flow measurements were possible at the time of the exam, because the systems were field examined during the summer months and were not being operated at full capacity. The fire well had a pump test done on it and I performed a theoretical calculation. Both of these calculations were very similar, so they are assumed accurate. The flow in the domestic well was calculated using a pump curve and theoretical calculation. Both of these match exactly, also suggesting they were fairly accurate.

E. FLOW CALCULATIONSYES Additional Computation Sheets Attached

Measured Method:

Domestic use = 0.21 cfs (see attached sheets for calculations)

Fire Protection use = 3.34 cfs (see attached sheets for calculations)

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

Domestic use volume = 6.3 afa (see attached sheets for calculations)

G. NARRATIVE/REMARKS/COMMENTS

The water for this permit is diverted from two wells in the SWSWSW T7N R2W S34 near the southwest corner of the school. The first well is designated as the domestic well. This well has a 7½ Hp submersible pump that is located just north of the well house. The water is pumped from the well to the well house where it is treated and sent to the school for the use of the students and teachers.

This permit was amended to add this well after proof was due. Part of my exam was to determine if this well was in use as of 8/31/2000. This well was originally drilled as a monitoring well, and was actually used during the construction of the school. Stevens and Sons completed the well on 8/30/1999, and the chemistry tests for DEQ were completed on 8/24/2000. I have spoken with Rob Whitney concerning this well, and he has looked at the diagrams submitted as proof the well was completed before the proof due date of 8/31/2000. Mr. Whitney informed me that the well was constructed using cement grout, which suggests it was constructed in accordance with Public Drinking Water Standards. Normally monitoring wells do not have cement grout, so appears as though the intent all along was to use this well for the domestic use. Therefore, I have determined that this well can be included in the licensing of this permit, since it was constructed and tested almost a year before proof was due.

The second well is the Fire Well. This well is located in the well house. It has a 250 Hp pump that is connected to the fire suppression system for the school. This well is connected to the Domestic well for backup purposes, but it would be extremely inefficient to use this large well for such a small use. The well is designed to run at fairly high pressure, 105 psi, so the pressure and flow have to be restricted and reduced to use it in the domestic system. Therefore, this well was designed mainly for fire suppression purposes.

The school is also using these wells to irrigate the school grounds. The ditches that supplied the Emmett Irrigation District water have long been destroyed, and they would need to attain easements and other approvals to get that water back to the property. This permit doesn't have an irrigation component, so I have worked with the school to file a new application for the irrigation use. This application has been received by the Western Region office, and has been put into the processing hopper. There are other overlapping water rights for domestic purposes in this area, but they are all from other water systems.

It was difficult to find records to properly determine the volume needed for the domestic portion of this recommendation. The only accurate information that I could find was the student enrollment and teacher lists from the 2004-2005 year. This information shows that there were 409 students and 39 teachers for a total of 448 occupants. The school has a gym and showers for their Physical Education program, so I used 25 gallons per day per occupant listed in the Field Examiner's Handbook. Using this amount the volume recommendation would be 6.3 afa or 11,200 gallons per day for 183 days. The school has the capability to handle up to 650 occupants, therefore, it may be necessary for the school to monitor their water use to ensure they don't exceed this volume amount.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.210 CFS	6.30 AF
FIRE PROTECTION	01/01 to 12/31	3.340 CFS	
	<u>Totals:</u>	3.550 CFS	6.30 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

DANIEL A. NELSON – SENIOR AGENT

Field Examiner's Name Daniel A. Nelson Date 3-2-2006

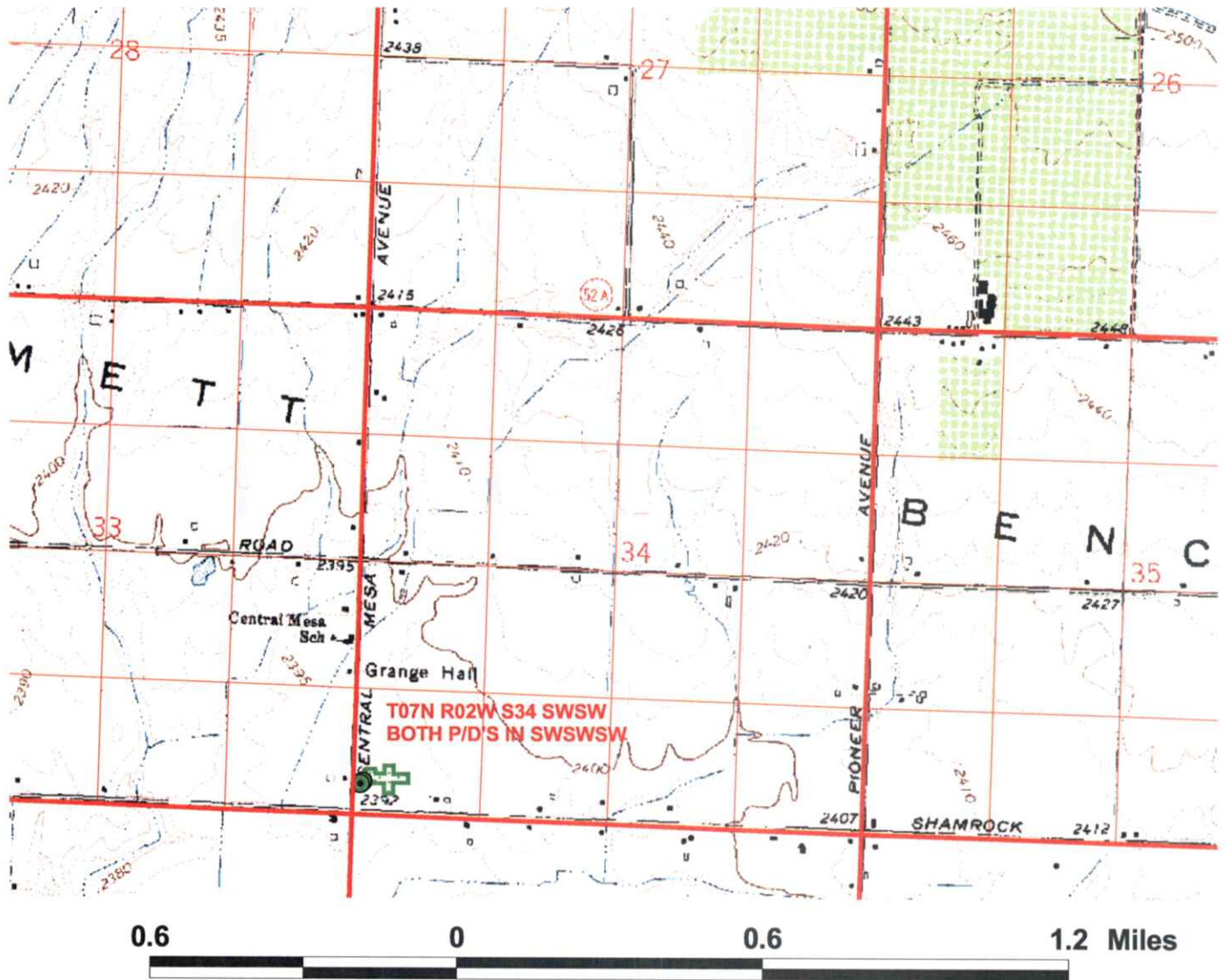
Reviewer _____ Date _____

SEAL

FIELD EXAM 65-13886

QUADRANGLE MAP

BY DAN NELSON



- POINTS OF DIVERSION
- PLACE OF USE (SCHOOL)
- 1/4 1/4 LINES
- SECTION LINES

PLEASE NOTE:

The school is the place of use for both the domestic and fire protection uses. There are two points of diversion, the fire well and the domestic well. Both wells are located in the SWSWSW.



FIELD EXAM 65-13806

2004 AERIAL PHOTO

BY DAN NELSON



0.09 0 0.09 0.18 Miles

A horizontal scale bar with alternating black and white segments. The segments are labeled with the values 0.09, 0, 0.09, and 0.18 Miles.

-  POINTS OF DIVERSION
-  PLACE OF USE (SCHOOL)
-  1/4 1/4 LINES
-  SECTION LINES

PLEASE NOTE:

The school is the place of use for both the domestic and fire protection uses. There are two points of diversion, the fire well and the domestic well. Both wells are located in the SWSWSW.



Record ID 65-13886		Measured Flow:	
Water Right No. 65-13886		Designed Flow:	4.46 cfs <<--Max
Name Emmett School District		HP/Eff Flow:	4.28 cfs
pod Fire Well		Sprinkler Flow:	
year:		Pivot/System Flow:	
Flow Measurement: gpm =			
Curve/Pump Design: 2000 gpm = 4.46 cfs			
Horsepower / Efficiency Method			
Horsepower	250 hp		
PWL	118 ft		
Disch Psi	105 psi		
PUMP Eff Estimate	0.70 %		
TDH	361 ft		
OHP	175 hp		
Flow	1922 gpm	=	4.28 cfs
System Method:			
No Lines		Nozzle Equation: $Q=C*A*\sqrt{2*g*h} / \sqrt{1-r^4}$	
Birds per line		C=	1.00 Nozzle coefficient; typical 0.97 to 1.00
Ttl no nozzles	0	r=	0.0000 ft Nozzle radius
Nozzle size		A=	0.00000 ft^2 Nozzle area
Nozzle pressure		h=	0 ft Head
Flow per nozzle	0.00 gpm	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	0 gpm	Q=	0.000 cfs Flow per nozzle
Percent Leaks	%	=	0.000 gpm Flow per nozzle
Total Flow	0 gpm		
Pivot / System rating			

Comments / Data Supplied:

The pump test data supplied by the school shows this pump as diverting approximately 2,000 gpm. No pump curve was supplied with the school's information. The above theoretical calculation shows that the pump diverts approximately 1,922 gpm. This permit limits the fire protection use to 3.34 cfs or 1,500 gpm. Therefore, the pumping system for the fire protection system seems adequate to cover the 3.34 cfs allowed in the permit. The pressure amounts included in the pump test seemed very high to me, but I am also aware that the school is required to maintain certain pressure amounts throughout the fire suppression system per fire marshall standards. With a pressure of 40 psi at this pumping water level this pump could easily pump more than 3,000 gpm. The Pump capacity at the higher pressure is still above the amount allowed by this permit, so it is very safe to assume that this pump can easily provide the 3.34 cfs allowed for fireprotection under this permit.

Estimated Pumping Rate Computer

Flow Analysis Performed by: Dan Nelson

Date: 3/1/2006

Page 1 of 1

Record ID 65-13886		Measured Flow:	
Water Right No. 65-13886		Designed Flow: 0.21 cfs <<--Max	
Name Emmett School District		HP/Eff Flow: 0.21 cfs	
pod Domestic Well		Sprinkler Flow:	
year:		Pivot/System Flow:	
Flow Measurement: gpm =			
Curve/Pump Design: 95 gpm = 0.21 cfs			
Horsepower / Efficiency Method			
Horsepower	7.5 hp		
PWL	84 ft		
Disch Psi	58.9 psi		
PUMP Eff Estimate	0.70 %		
TDH	220 ft		
OHP	5.25 hp		
Flow	94 gpm = 0.21 cfs		
System Method:			
No Lines		Nozzle Equation: $Q=C*A*\sqrt{2*g*h} / \sqrt{1-r^4}$	
Birds per line		C=	1.00 Nozzle coefficient; typical 0.97 to 1.00
Ttl no nozzles	0	r=	0.0000 ft Nozzle radius
Nozzle size	in	A=	0.00000 ft^2 Nozzle area
Nozzle pressure	psi	h=	0 ft Head
Flow per nozzle	0.00 gpm	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	0 gpm	Q=	0.000 cfs Flow per nozzle
Percent Leaks	%	=	0.000 gpm Flow per nozzle
Total Flow	0 gpm =		
Pivot / System rating	gpm =		

Comments / Data Supplied:

The data supplied by the school shows this pump as diverting approximately 90 gpm. However, the pump curve supplied shows the diversion rate at approximately 95 gpm. The theoretical calculation also shows the diversion rate at close to 94 gpm. Therefore, I am recommending this permit for 0.21 cfs for the domestic portion of the right. This well is used exclusively for the domestic use, even though the fire well is connected to the same system, it is only used in cases of emergency. Therefore, it makes more sense to recommend the domestic use for the capacity of the domestic well only or 0.21 cfs. The permit requested 0.22 cfs, but I don't feel this pump is capable of producing that amount of water. I am confident that 0.21 cfs is the proper rate of diversion for this use. The TDH of 220 feet was calculated using the owner's design numbers and the well log. The well log shows a water pumping level of 84 feet after 7 hours of operation at 400 gpm. By subtracting the well log pumping level from the TDH supplied in the paperwork, this leaves a pressure of 58.9. I would have estimated the pressure between 40 and 60 psi, so these numbers sound reasonable.

ELECTRIC DRIVEN FIRE PUMP STARTUP AND FIELD TEST DATA REPORT
NICKERSON CO. INC., 2143 W. INDIANA AVE., SALT LAKE CITY, UT 84104 (801) 973-8888

EQUIPMENT SYMBOL OR REFERENCE #: _____

DATE: 8/29/00 NICO REF. #: 00-415 TESTED BY: Russ Bartlett
 INSTALLING CONTRACTOR: Turn Key Const END USER: Emmett School

PUMP MANUFACTURER: Floway S/N: 41114-1-1 MODEL: 15DKH-FP
 SIZE: SUCTION _____ DISCHARGE 8"
 RATINGS: GPM 2000 PSI 132 TDH/HF _____ RPM 1770
 CERTIFIED FACTORY TEST CURVE # 41114-1-1-T1 TEST CURVE S.O.H. PSI: 160 HF: 370'
 MOTOR MANUFACTURER: USEM S/N: H025012513 MODEL: R489A
 FULL LOAD RPM: 1780 VOLTAGE: 460 FULL LOAD AMPS: 291 HORSE POWER: 250
 CONTROLLER MANUFACTURER: Firrol S/N: 92489-001-01-01 MODEL: FTA1900
 COMPLETE MODEL NUMBER: FTA1900-AD250B-DX-P

FLOW TEST CONDUCTED WITH: ③ 2 1/2" Nozzles MODEL #: _____ PIPE SIZE: _____
 STATIC SUCTION PRESSURE: Deep Well SUCTION SOURCE: Deep Well / 180' set
 STATIC VOLTS (AVERAGE): 478 OVERALL INSTALLATION: Excellent ALIGNMENT: None
 BEARINGS: ok CCRV SET: None STUFFING BOXES ADJUSTED: Yes
 Surface: _____ (Bowls)

CAPACITY POINT	GPM POINT	FLOWMETER GPM RDG	PITOT RDG	DISCH. PSI	Drawdown	NET PSI PSI/HF	RPM	AMPS	VOLTS (AVE.)
CHURN 1ST	-0-	X	0	132	115' / 50	182 / 420'	1791	214 / 214 / 211	466
2000 1ST	2000		③ 35	105	118' / 50	155 / 358'	1790	240 / 230 / 230	466
3000 1ST	3000		③ 35	80	121' / 52	132 / 205'	1788	270 / 263 / 263	466
1ST									
1ST									
CHURN 2ND	-0-								

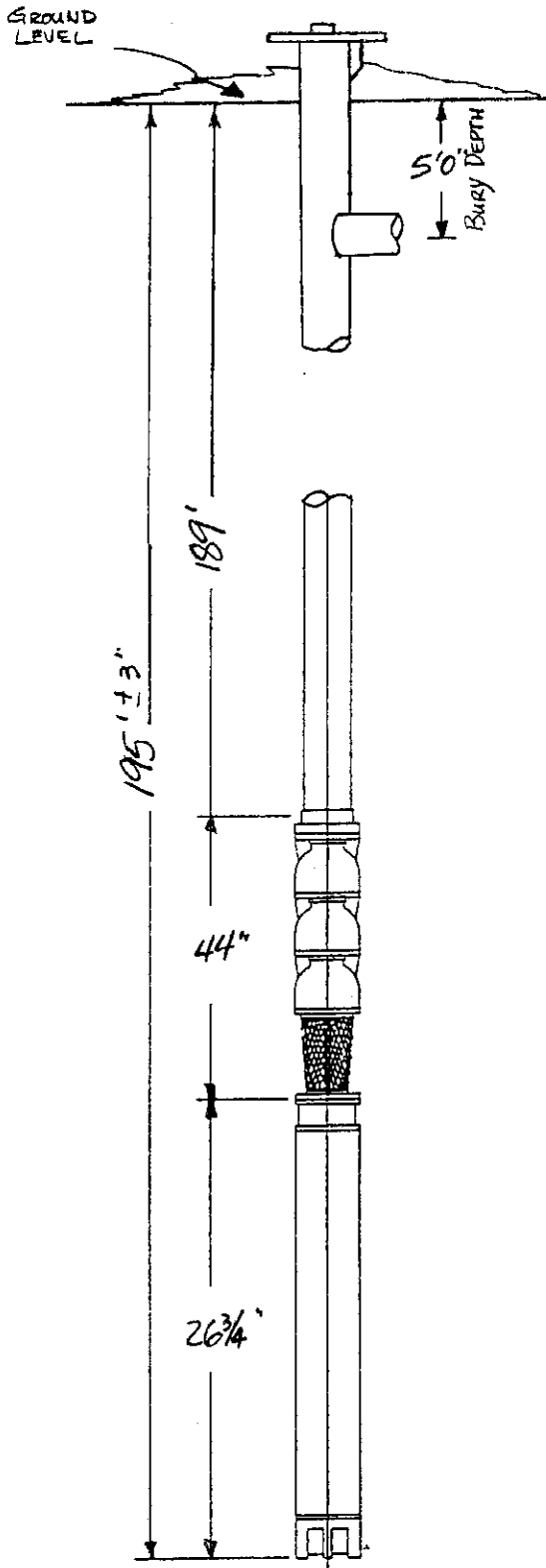
STARTS (A) MANUAL: 0000000000 (B) AUTOMATIC: 0000000000 STOP: Auto / 60 minutes.
 PRESSURE SETTINGS: (A) JOCKEY PUMP: STOP 75 PSI (B) FIRE PUMP: STOP 55 PSI
 START 65 PSI START 45 PSI

MAIN RELIEF VALVE SETTING: 140 PSI JOCKEY PUMP RELIEF VALVE SETTING: _____ PSI
 JOCKEY PUMP RUN PERIOD TIMER SETTING: _____ SECONDS
 CONTROLLER ALARM CONTACTS CHECKED: Yes REMOTE ALARMS CHECKED: Not Connected.

Notes: A) Sensing line to Controller needs to be completed.
B) Wire solenoid switch needs to be wired, and oiler turned on.
C) Provide cap for oiler reservoir.
D) No remote alarms are connected.
E) Replace broken contactor in Controller.

PUMP MANUFACTURER'S REP. SIGNATURE: _____
 CONTROLLER MANUFACTURER'S REP. SIGNATURE: _____

SUBMERSIBLE PUMP W/ PITLESS ADAPTER



DATE OCT. 10, 2000
 CUSTOMER TURNKEY CONT.
 JOB NAME EMMETT SCHOOL DIST. #221
DOMESTIC WELL PUMP
 MOTOR

H.P. 7 1/2 HP MFG. FRANKLIN
 R.P.M. 3500 SIZE 6"
 PHASE/CYCLE/VOLTS 3ph/60cy/460v

DISCHARGE ELBOW

SIZE 4"
 MATERIAL Steel - (coated)

COLUMN ASSEMBLY

PIPE SIZE/LENGTH 4" - 189'
 PIPE WALL SCHEDULE 40

CABLE

SIZE # 12 AWG 3COND. w/GRD.
 MATERIAL NEOPRENE - FLAT
 LENGTH 200'

BOWL ASSEMBLY

MODEL CROWN MODEL SMC-110-7
 NO. OF STAGES 7
 G.P.M. 90 T.D.H. 220'
 MATERIAL:
 BOWL CAST IRON IMPELLER BRONZE
 SHAFT 416 SS BEARING RUBBER
 COLLET 416 SS BOLTS 316 SS
 BOWL W.R. MATERIAL N/A
 IMPELLER W.R. MATERIAL N/A

MOTOR ADAPTER

TYPE Flanged
 SIZE 6"

SHROUD

MATERIAL N/A
 SIZE N/A

COMMENTS: ① 4" BRONZE CHECK VALVE LOCATED 20' ABOVE BOWL



CROWN

5MC-110

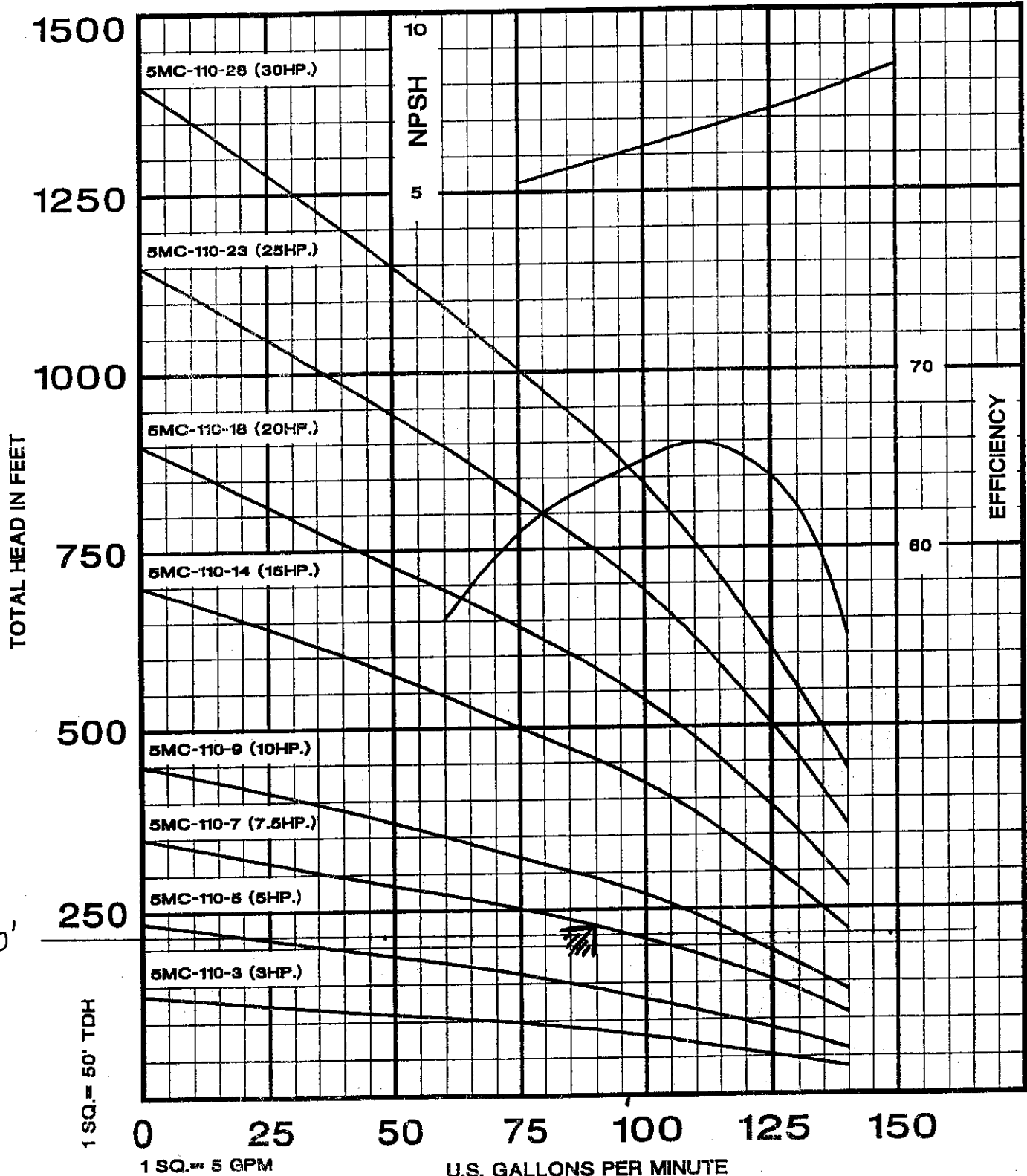
1/98

MODEL 5MC-110

PERFORMANCE CHARACTERISTICS

MINIMUM WELL SIZE 8"

90 GPM @ 220' TDH 1 STAGE



CROWN PUMP CORPORATION, HIGHWAY 18 & BIVAR, DE LEON, TEXAS

per pump curve 90-95 gpm
OAN 3-1-06.

Emmett School District #221 - Westside Elementary School Well

NE corner of Idaho Blvd. and Mesa

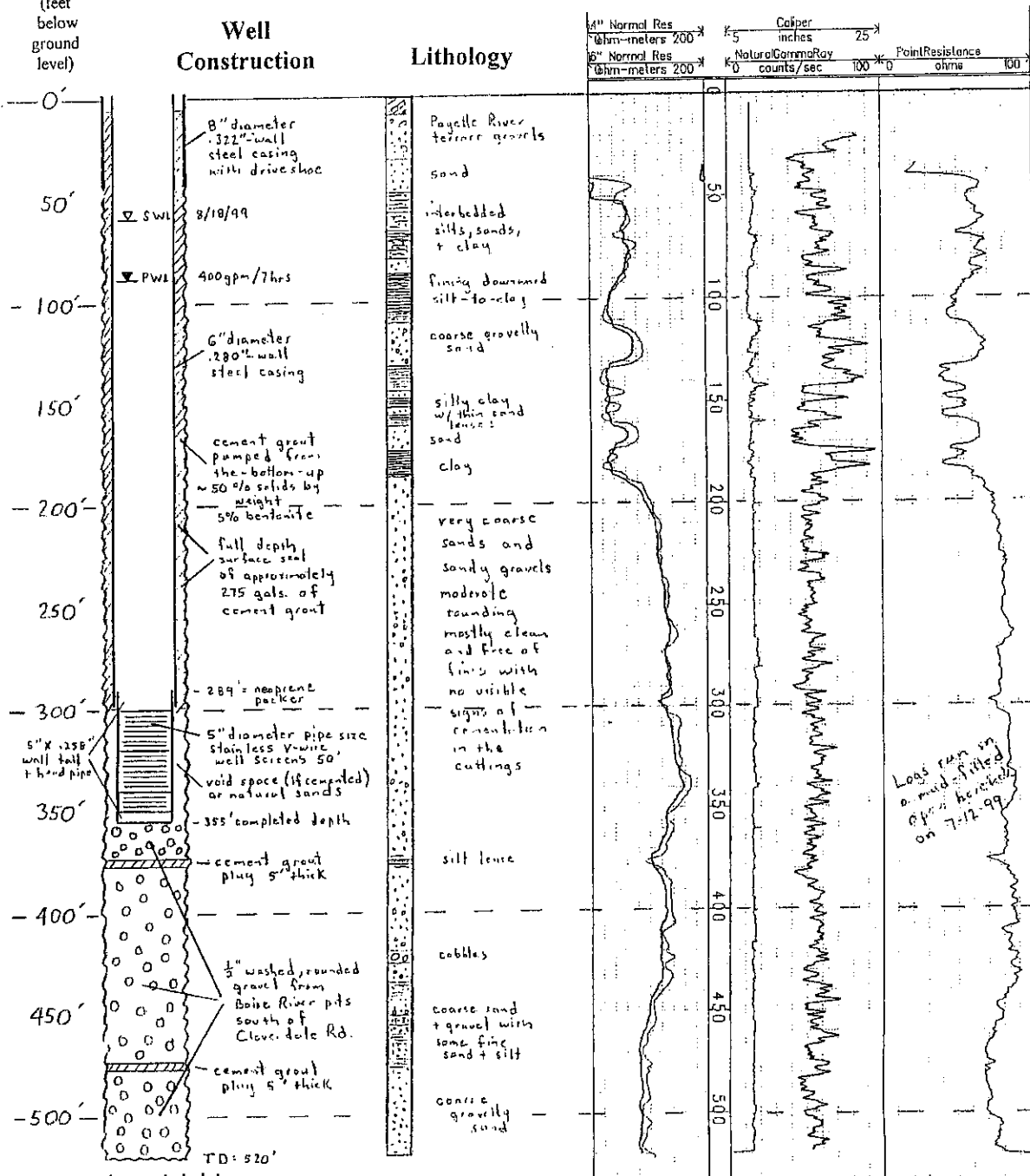
T7N, R2W, Sec 34, SW, SW

Depth
(feet
below
ground
level)

Well Construction

Lithology

Geophysics



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
m918

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	Phosphorous	0.030
Chloride	1.16	Potassium	0.77
Conductivity, Lab uS/cm	440.0	Radiology (gross Alpha) pCi/l	3+/ 2
Conductivity, Field uS/cm	337	Radiology (gross Beta) pCi/l	3+/ 2
Corrosivity, Lab (Langlier)	-0.07	Silica	20.4
Corrosivity, Field (Langlier)	0.14	Sodium	57.6
Fluoride	0.30	Sulfate	17.5
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?

OVERFLOWED

2nd
340

EXTRA 100'

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.



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	08/19/1999	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	CE
SULFIDE	(0.05	08/18/1999	PM
MAGNESIUM	4.25	08/19/1999	PM
MANGANESE	0.12	08/18/1999	PM
MANGANESE (DISS.)	0.13	08/18/1999	HG
NITRATE as N	(0.10	08/18/1999	MM
POTASSIUM	0.77	08/27/1999	MM
SILICA	20.4	08/20/1999	PM
SODIUM	57.6	08/20/1999	HG
SULFATE	17.5	08/18/1999	NH
TOTAL DISS. SOLIDS	340.0	08/20/1999	TK
TOTAL PHOSPHORUS as P	0.030	08/26/1999	TK
pH (SU)	7.86	08/17/1999	

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.

Suzanne Howell
Suzanne Howell, Laboratory Manager



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
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

Jennifer Dorman for S.H.
Suzanne Howell, Laboratory Manager

REPORT CONTINUED



Alchem Laboratories, Inc.

104 West 31st Street
Boise, Idaho 83714

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

Water, Waste Water
and Soil Analysis

REPORT CONTINUED

LAB SAMPLE NO. - 69878

PAGE 2

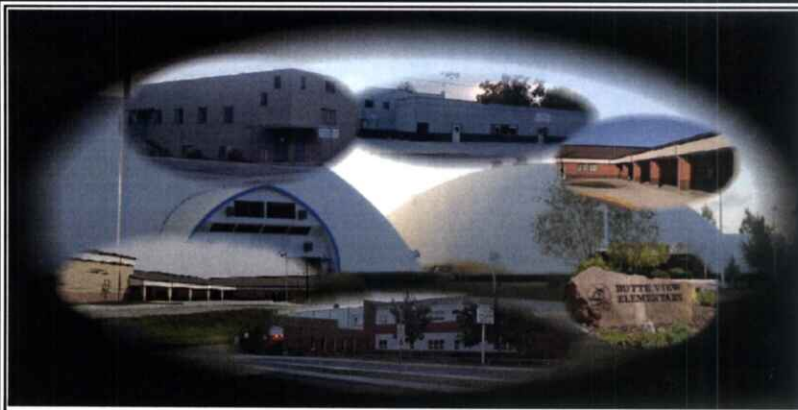
UNREGULATED VOC's

<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

This report is for the exclusive use of the client(s) to whom it is addressed. It's 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.

-box in



Independent School District #221

"Emmett School District"

601 E. 3rd. Street
Emmett, ID 83617

208-365-6301

[Schools](#) [District Info](#) [Employment](#) [Curriculum](#) [School Board](#) [Calendars](#)

Enrollment for 2004-2005

GRADE	OLA	SWEET	BV	CARB	SHADOW	EJHS	EHS	BCHS	TOTAL/ GRADE
Pre-Sch	-	-	36	-	-	-	-	-	36
K	3	15	137	-	47	-	-	-	202
1	5	11	119	-	43	-	-	-	178
2	1	8	133	-	74	-	-	-	216
3	4	12	143	-	55	-	-	-	214
4	4	4	-	120	59	-	-	-	187
5	1	8	-	122	59	-	-	1	191
6	3	12	-	152	72	-	-	1	240
7	-	-	-	-	-	237	-	3	240
8	-	-	-	-	-	239	-	5	244
9	-	-	-	-	-	243	-	33	276
10	-	-	-	-	-	-	260	24	284
11	-	-	-	-	-	-	201	14	215
12	-	-	-	-	-	-	222	33	255
TOTAL/ SCHOOL	21	70	568	394	409	719	683	114	2,978

School Capacity 650 students

CURRENT Numbers

409 students

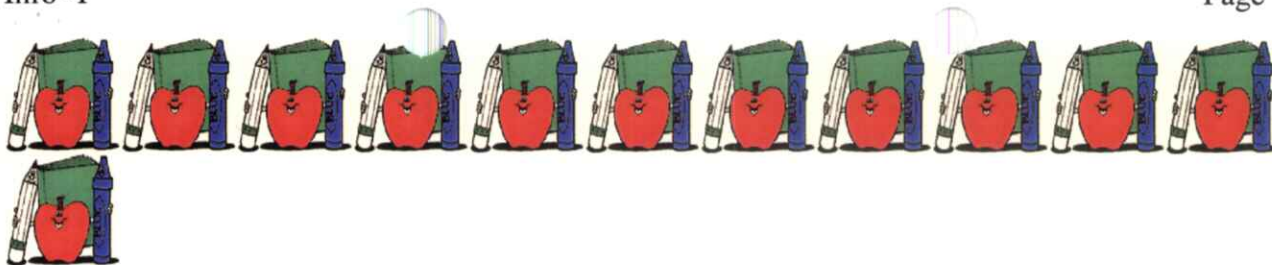
39 Teachers & Staff.

448 current occupancy.

$448 \times 25 \text{ gal} \times 183 \text{ Days} = 6.3 \text{ gfa.}$
325850

* Gallons per day Based on
Field Examiner's Handbook
School with gym & Showers.

3/1/2006



Butte View Elementary

400 S. Pine
Emmett, ID 83617
208-365-4691
Fax- 208-398-8282

Office Staff



[Linda Larson](#) - Principal



[Nora Nebeker](#)- Head Secretary



[Kathy Swanson](#)- Secretary



[Registration Information](#)



[Supply List](#)



[Bus Information](#)

39 Teachers & Staff

[Pre-School](#)[Kindergarten](#)[First Grade](#)[Second Grade](#)[Third Grade](#)

Ancillary	Mrs. Barrie Vocal music	Mrs. Belnap Speech	Mrs. Dutton Tech/gifted	Mrs. Young Librarian
Mrs. Taylor Extended Resource	Mrs. Higley S.E. Resource	Mrs. Thomson S. E. Resource	Mrs. Corn Title I	Ms. Johns Phys. Ed.
Mrs. Hodges LEP	Mrs. Warner OT	Mrs. Kennedy Nurse	Gwen Willis Reading Coach	Mr. Rogers Custodian

[Back to Butte View](#)

Parents check this out	Preschool Teachers Go to teachers home page by clicking on the image
Schedule	Mrs. King  A cartoon illustration of a purple, round, fuzzy creature with small white eyes and a small black mouth, standing on two small legs.
Discipline	Mrs. Newton  A cartoon illustration of a green, round, fuzzy creature with small white eyes and a small black mouth, standing on two small legs.
Reading Tips	
Language Development	

[Back to Butte View](#)

Parents check this out	Kindergarten Teachers Go to teachers home page by clicking on the image
Schedule	Mrs. Buck 
Discipline	Mrs. Manwaring 
Reading Tips	Mrs. Montgomery 
Language Development	
Supplies	

[Back to Butte View](#)

Parents check this out	First Grade Teachers Go to teachers home page by clicking on the image 
Schedule	Mrs. Brown 
Discipline	Mrs. Browne 
Reading Tips	Mrs. Gerrard 
Star Readers	Mrs. Riffie 
<u>Supplies</u>	Mrs.Schneider 

[Back to Butte View](#)

Parents check this out	Second Grade Teachers Go to teachers home page by clicking on the image
Subjects	Mrs. Alexander 
Projects	Mrs. Goff 
Discipline	Mrs. Hoverson 
Concepts	Mrs. Johnston 
Supplies	Mrs. Mathews 
	Ms. Nguyen 

Parents check this out	Third Grade Teachers Go to teachers home page by clicking on the image
Projects	Mrs. Cronquist 
Discipline	Mrs. Dresen 
Reading	Mrs. Gurney 
Math	Mrs. Kaskel 
Supplies	Mrs. Vogler 
	Mrs. Weers 

**EMMETT SCHOOL DISTRICT #221
EMMETT, ID - GEM COUNTY
ELEMENTARY 2005 - 2006 CALENDAR**

AUGUST 2005								JANUARY 2006							
EVENTS	S	M	T	W	T	F	S	EVENTS	S	M	T	W	T	F	S
19th - New Teachers		1	2	3	4	5	6	2nd - Students Return	1	2	3	4	5	6	7
22nd All-Staff Meetings	7	8	9	10	11	12	13	13th - K-6 Collaboration, 2hr.	8	9	10	11	12	13	14
and 3 hr inservice	14	15	16	17	18	19	20		15	♥	✍	18	19	20	21
23rd - Workday	21	✍	◆	◆	☀	26	27	16th - ML King, Jr. Day	22	23	24	25	26	27	28
24th - Workday	28	29	30	31				17th - Inservice 6 hr.	29	30	31				
25th - Students 1st day															
SEPTEMBER								FEBRUARY							
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
					1	2	3	17th - End of 2nd Trimester				1	2	3	4
5th - Labor Day	4	♥	6	7	8	9	10	20th - President's Day	5	6	7	8	9	10	11
	11	12	13	14	15	16	17	21st - Workday/conf prep	12	13	14	15	16	◆	18
	18	19	20	21	22	23	24	22nd - Conf 8 am - 7:30 pm	19	♥	◆	◆	◆	✍	25
Sept 19 - Oct 28 ISAT	25	26	27	28	29	30		23rd - Conf 5-8 pm	26	27	28				
Testing Window								24th - Inservice 6 hr.							
OCTOBER								MARCH							
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
							1					1	2	3	4
5 - K-6 Collaboration, 2 hr.	2	3	4	☀	✍	♥	8		5	6	7	8	9	10	11
6-7th State Teachers Conf.	9	10	11	12	13	14	15		12	13	14	15	16	17	18
6th - Inservice 6 hr.	16	17	18	19	20	21	22		19	20	21	22	23	24	25
	23	24	25	26	27	28	29	27th - 31st Spring Break	26	♥	♥	♥	♥	♥	
	30	31													
NOVEMBER								APRIL							
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
4 - K-6 Collaboration, 2 hr.				1	2	3	☀								1
17th - End of 1st Trimester							5		2	3	4	5	6	7	8
18th - Workday/conf prep	6	7	8	9	10	11	12		9	10	11	12	13	14	15
21st - Conf 8 am - 8 pm	13	14	15	16	◆	◆	19		16	17	18	19	20	21	22
22nd - Conf 12 pm - 8 pm	20	◆	◆	◆	♥	♥	26	April 10 - May 19 ISAT	23	24	25	26	27	28	29
	27	28	29	30				Testing Window	30						
24-25th Thanksgiving Vac															
DECEMBER								MAY							
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
					1	2	3				1	2	3	4	5
	4	5	6	7	8	9	10		7	8	9	10	11	12	13
	11	12	13	14	15	16	17		14	15	16	17	18	19	20
19-30th Christmas Break	18	♥	♥	♥	♥	♥	24		21	22	23	24	25	26	27
	25	♥	♥	♥	♥	♥	31	29th - Memorial Day	28	♥	30	31			
LEGEND								JUNE							
First / Last day of school ☀ (early release)								S M T W T F S							
Collaboration Day ☀								1st - Last Day of School ☀ ◆ 3							
Teacher In-Service - No School ✍								2nd - Teacher Work Day							
Vacation Day ♥								*All early release times are 12:45 for Butte View, Carberry and							
Teacher Work Day / Student Vacation ◆								Shadow Butte; Sweet and Ola School's Early Release time is 11:45							
End of Trimester ◆								BV Kindergarten Early Release: AM 8:50-10:35, PM 11:05-12:45							
Early Release ☀								SB Kindergarten Early Release: AM 9:00-10:40, PM 11:05-12:45							

Adopted by the ESD Board of Trustees 03-10-05

183 Days of School

IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

Domestic well

DO009711

1. DRILLING PERMIT NO: 65-99-W-0110-001 OTHER APPLICABLE NO: 65-13886

2. OWNER: EMMETT School Dist. #221 Phone: (208) 365-6301
Address: 601 E 3RD ST, EMMETT, ID 83617

3. WELL LOCATION: Twp 7N, Rge. 2W, Sec. 34, SW 1/4 SW 1/4
County GEM (Provide sketch map and photo on reverse.)

4. DRILLER: STEVENS SONS Lic. No. 153
When Drilled? 8-17-1999 (completion date)

5. WELL CONSTRUCTION:

Casing Diameter 8 inches Water tight cap? ☒ Yes ☐ No Access Port: ☐ Yes ☒ No

Casing $\geq$ 12 inches above ground? ☒ Yes ☐ No - Describe _____

Depth of Casing UNKNOWN ft. Method Drilled UNKNOWN

Condition of Well Casing: ☒ Good ☐ Fair ☐ Poor Describe _____

Control Valve? ☒ Yes ☐ No Pressure Gauge: ☐ Yes ☒ No

Condition of Piping and Valving GOOD

Auger to a depth of -0- ft. Evidence of Annular Seal ☐ Yes ☒ No

Are there obvious construction problems that may be a source for contamination or waste of water?
☐ Yes ☒ No (Describe in Remarks and Attach Photo - On Reverse)

6. HYDROLOGIC INFORMATION:

Depth to Static Water UNKNOWN ft. Water Temperature UNKNOWN °F

Flowing Artesian ☐ Yes ☒ No Pressure: UNKNOWN (psi)

Water Sample Taken? ☐ Yes ☒ No If yes, describe purpose (see city's water samples in Exam.)

Water Quality Measurements/Observations (Describe) None

7. WELL USE:

☒ Domestic ☐ Irrigation ☐ Stock

☐ Test ☐ Municipal ☐ Industrial

☐ Abandoned ☐ Waste Disposal/Injection ☐ Not Used

☐ Other: _____

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Chemigation? ☐ Yes ☒ No

If yes, is there a check-valve present? ☒ Yes ☐ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? _____

How far away from the well is this source? _____

9. REMARKS:

This well was originally drilled
as a monitoring well & converted to a
domestic well. Rob Whitney is aware
of this situation and is on top of
it.

Daniel H. Nelson, Senior Agent
Signature of Dept. Representative & Title

6-13-02.
Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

see Field Exam

IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

Fire well

1. DRILLING PERMIT NO: D0012674 OTHER APPLICABLE NO: 65-13886
2. OWNER: Emmett School Dist. #221 Phone: (208) 365-6301
Address: 601 E 3rd St., Emmett, ID 83617
3. WELL LOCATION: Twp 7N, Rge. 2W, Sec. 34, SW 1/4 SW 1/4
County Gem (Provide sketch map and photo on reverse.)
4. DRILLER: River side Inc. Lic. No. 333
When Drilled? 4-20-2000
5. WELL CONSTRUCTION: TURBINE
Casing Diameter 18 inches Water tight cap? ☐ Yes ☒ No Access Port: ☒ Yes ☐ No
Casing $\geq$ 12 inches above ground? ☒ Yes ☐ No - Describe _____
Depth of Casing UNKNOWN ft. Method Drilled UNKNOWN
Condition of Well Casing: ☒ Good ☐ Fair ☐ Poor Describe _____
Control Valve? ☒ Yes ☐ No Pressure Gauge: ☐ Yes ☒ No
Condition of Piping and Valving GOOD
Auger to a depth of 0 ft. Cement Pad. Evidence of Annular Seal ☐ Yes ☒ No Cement Pad
Are there obvious construction problems that may be a source for contamination or waste of water?
☐ Yes ☒ No (Describe in Remarks and Attach Photo - On Reverse)
6. HYDROLOGIC INFORMATION:
Depth to Static Water UNKNOWN ft. Water Temperature UNKNOWN °F
Flowing Artesian ☐ Yes ☒ No Pressure: UNKNOWN (psi)
Water Sample Taken? ☐ Yes ☒ No If yes, describe purpose _____
Water Quality Measurements/Observations (Describe) _____
7. WELL USE:
☐ Domestic ☐ Irrigation ☐ Stock
☐ Test ☐ Municipal ☐ Industrial
☐ Abandoned ☐ Waste Disposal/Injection ☐ Not Used
☒ Other: FIRE PROTECTION

8. POSSIBLE CONTAMINATION SOURCES:

Is there evidence of Chemigation? ☐ Yes ☒ No

If yes, is there a check-valve present? ☒ Yes ☐ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? _____

How far away from the well is this source? _____

9. REMARKS: This is a nicely constructed
well.

Daniel A. Nelson - Senior Agent.
Signature of Dept. Representative & Title

8-13-2002.
Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

See Field Exam

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 2/16/2002

FILE NUMBER 65-13886

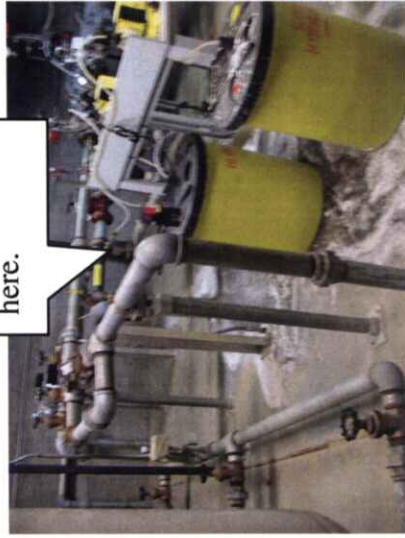


These are photos of the wells and the well house. The domestic well is located outside the well house and the fire well is located inside the well house. The domestic well is a 7 1/2 Hp submersible pump and the fire well is a 250 Hp turbine pump. The domestic well is located approximately 30 feet from the well house and the fire well is located inside of the well house.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 2/16/2002

FILE NUMBER 65-13886

Domestic
well enters
here.



Line out to
school.



These are photos of the well house. The fire well diverts into a main line that travels along the southern wall of the well house and then exits into the fire distribution system. The domestic well enters the well house from the floor on the east wall of the well house. From this point the domestic well goes through a flow meter and then splits. The first portion of the split goes to the south and is delivered to the irrigation system and then continues on to the south and connects with the fire well. The domestic well is used to maintain pressure in the fire well lines. This allows the fire department to start pumping immediately upon arrival. Once the pressure in the fire line drops below 40 psi the fire well kicks on to operate without a major loss in water pressure for the fire suppression. The irrigation line is kept separated from the pressure tanks so it isn't treated under the public drinking supply standards. The lines to pressure tanks are designated for the in-school use. It is run into the 3 large pressure tanks and is withdrawn for school use. The water coming out of the pressure tanks is treated to maintain public drinking water standards. The water being treated is measured and the total amount of water being diverted out of the well is being measured.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 2/16/2002

FILE NUMBER 65-13886

WELL
HOUSE



WELL
HOUSE



These are photos of the school. The top photo is taken from the southeast corner of the school. The middle photo is taken at the northwest corner of the school. The bottom photo is taken at the southwest corner of the school. Please note the well house in the top and bottom picture.