

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JUN 28 2010

DEPARTMENT OF
WATER RESOURCES

*Split +
Renumbered
63-33423*

A. GENERAL INFORMATION

Permit No. 63-33185 (Part B)

1. Owner: Gem State Academy Phone No.: 208-459-1627

Current Address: 16115 S. Montana Avenue, Caldwell, ID 83605

2. Accompanied by: _____ EXAM DATE: April 6, 2010

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

2. Other water rights with the same point of diversion: 63-11308

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			SE	SW	10	3N	3W	Canyon	Exam, 2009 Photo
			SW	SW	10	3N	3W	Canyon	Exam, 2009 Photo

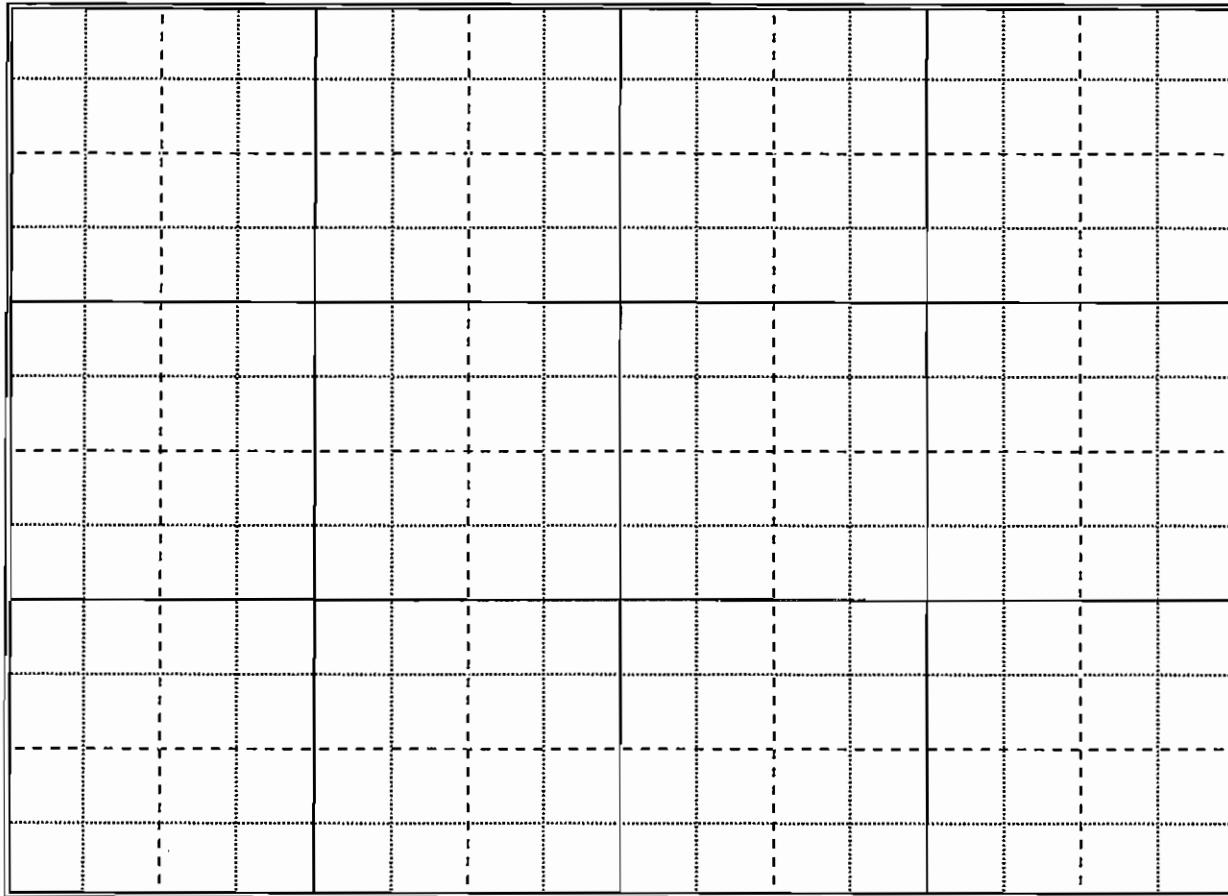
2. Place(s) of Use:

Indicate Method of Determination Exam, 2009 Photo

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	3W	10											1.5						1.5

Total 1.5

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe id as applicable. See Attachment C



Scale: 1" = _____

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

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

☒ 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
Primary Well (aka Well No. 5)	Unknown Submersible	30		Berkeley 6T-275	4-inch
Secondary Well (aka Well No. 1)	Unknown Submersible	10		Unknown Submersible	2-inch

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Well No. 5 Flowmeter	Propeller	McCrometer		79 4976	4"	

2. **Measurements:** _____ See Attached Flow Calculations

E. NARRATIVE/REMARKS/COMMENTS

Two separate systems supply irrigation water to the permitted acres. Four acres of field area are irrigated with a system licensed under right 63-7202 and 1.5 acres of landscape area are irrigated with a system licensed under right 63-11308. Two Beneficial Use Field Reports have been prepared for permit 63-33185; Part A describes the ground water system serving the 4.0 field acres and Part B describes the ground water system serving the 1.5 landscape acres associated with three homes.

Part B Narrative: The 1.5 acres of landscape area is irrigated with a two-well system that also supplies 0.62 cfs under right 63-11308. Internal domestic use for three residences associated with the 1.5 acres landscape area is authorized under right 63-11308.

The primary well (aka Well 5) is located on the east side of the tennis court in the SESW of Section 10. The well has a 16-inch diameter casing at the surface, and is equipped with a variable speed submersible pump. The well was constructed in 1995 to a total depth of 310 feet. Layne of Idaho installed the pump in Well No. 5 and provided the attached pump curve.

The secondary well (aka Well 1) is located in the SWSW of Section 10, near the northeast corner of the intersection of Karcher Road and 10th Avenue. This well is normally operated as a back-up source. In the event of a shutdown of Well 5, an isolation valve can be opened for use of Well 1. By process of elimination, it appears that this well probably corresponds with an attached Well Driller's Report indicating that the well was drilled in 1969 to a total depth of 304 feet. Kendall Thomas, Maintenance Supervisor for Gem State Academy, provided the attached flow test for Well No. 1 performed in 1970 that indicated specific capacity at 2 gpm/ft. Based on the attached flow calculations for Well Nos. 1 and 5, total system capacity is approximately 0.91 cfs. This capacity is more than adequate to provide the 0.62 cfs under 63-11308 and 0.03 cfs under 63-33185 Part B.

This right (Part B) is for primary ground water irrigation. Wilder irrigation District confirmed that the property is considered "high" ground and cannot receive surface water.

Attachment A is a copy of the permit and the proof of beneficial use.

Attachment B is the well drillers' reports, the 1970 Well No. 1 Pump Test Summary and Well No. 5 Pump Curve.

Attachment C is a topographical map and aerial photo.

Attachment D are photos of the place of use and point of diversion.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Y Additional Computation Sheets Attached

Measured Method:

Allow **0.03 cfs** (0.02 cfs/ac x 1.5 acres)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 4.5 \text{ afa} = 6.8 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.03 \text{ cfs} \times 260 \times 1.9835 = 15.5 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{6.8 \text{ afa}}$$

2. Volume Calculations for Other Uses:

n/a

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	3/1	11/15	0.03 cfs	6.8

2. Recommended Amendments

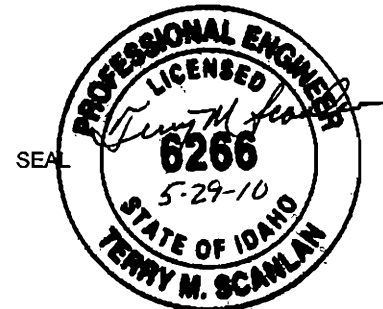
X Change P.D. as reflected above X Add P.D. as reflected above ___ None
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name Terry M. Scanlan, P.E., Certified Water Right Examiner 11-129 Date 5-29-10

Field Examiner's Signature 

Reviewer _____ Date _____



REPORT PAGE 4, ITEM F: FLOW CALCULATIONS

Permit (B Portion) allows 0.03 cfs or 14 gpm

Decree 63-11308 allows 0.62 cfs or 278 gpm

10 hp Pump Theoretical:

TDH = Assume *140' SWL + 105' (45 psi) + 10' H + **50' DD = 305'

$\frac{10 \text{ hp} \times 8.8 \times 0.75}{305'} = 0.22 \text{ cfs}$

*Well log indicates SWL at 133' in 1969. Assume 140' today.

**Attached Well Test conducted in 1970 indicates specific capacity at 2 gpm/ft

30 hp Pump

Pump Curve: 310 gpm @ 280' TDH

Static Water level = 120'

Specific Capacity = 400 gpm/58' DD = 6.9 gpm/ft (from well log)

Drawdown @ 310 gpm = 310 gpm/6.9 gpm/ft = 44.9'

Pumping Water Level @ 310 gpm = 120' + 44.9' = 164.9'

30-hp Pump Total Dynamic Head = 280' (165' PWL + 10' H + 105' (45 psi))

100 gpm (10 hp pump) + 310 gpm (30 hp pump) = 410 gpm = **0.91 cfs system capacity**

ATTACHMENT A
PERMIT RECORD

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-33185

Priority: March 09, 2009

Maximum Diversion Rate: 0.12 CFS

This is to certify, that GEM STATE ACADEMY
16115 S MONTANA AVE
CALDWELL ID 83605

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	03/01 to 11/15	0.12 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW 1/4 SW 1/4 SW 1/4 Sec. 10, Twp 03N, Rge 03W, B.M., CANYON County

PLACE OF USE: IRRIGATION

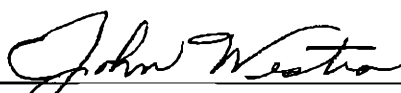
Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	03W	10																	6.0

Total Acres: 6

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before February 01, 2011.
2. Subject to all prior water rights.
3. This right does not grant any right of way or easement across the land of another.
4. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above.
5. Right 63-7202 is also diverted through the point(s) of diversion described above.
6. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 4th day of February, 2010.


JOHN WESTRA, Western Regional Manager

ATTACHMENT B

WELL LOGS

WELL NO. 1 PUMP TEST SUMMARY

WELL NO. 5 PUMP CURVE

Form 238-X
7/94IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUse Typewriter
or
Ball Point Pen

63491

1. DRILLING PERMIT NO. 63-95-W-0569-200
Other IDWR No. 63-113072. OWNER:
Name Gem State Academy
Address 16115 S Montana Ave
City Caldwell State Id. Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N					
W		E			
				S	

Twp. 3 North ☒ or South ☐
Rge. 3 East ☐ or West ☒
Sec. 10 1/4 SE 1/4 SW 1/4
Gov't Lot _____ County Canyon

Address of Well Site Same
City _____

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK

☐ New Well ☐ Modify or Repair ☒ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other Reverse Rotary

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
<u>Benonite Grout</u>	<u>0</u>	<u>215'</u>	<u>45,000</u>	<u>Overbore</u>

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____Was drive shoe seal tested? ☐ Y ☐ N ☐ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>16"</u>	<u>±2</u>	<u>222'</u>	<u>.375</u>	<u>Steel</u>	☒	☐	☒	☐
<u>14"</u>	<u>222'</u>	<u>232'</u>	<u>.375</u>	<u>Steel</u>	☒	☐	☒	☐
<u>14"</u>	<u>242'</u>	<u>261.5'</u>	<u>.375</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe 14" Length of Tailpipe "

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type Heli-burton wire wrap

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>232</u>	<u>242</u>	<u>.025</u>		<u>14"</u>	<u>Steel</u>	☒	☐
<u>261.5</u>	<u>271.5</u>	<u>.025</u>		<u>14"</u>	<u>Steel</u>	☒	☐
<u>292.9</u>	<u>297.5</u>	<u>.035</u>		<u>14"</u>	<u>Steel</u>	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

190 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices: Discharge head

11. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>400</u>	<u>178</u>		<u>2 hr.</u>
<u>690</u>	<u>189</u>		<u>2 hr.</u>

Water Temp. 58° Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>18"</u>	<u>0</u>	<u>3</u>	<u>Top Soil</u>		☒
"	<u>3</u>	<u>21</u>	<u>Clayey</u>		☒
"	<u>21</u>	<u>84'</u>	<u>Gravel & Sands</u>		☒
"	<u>84</u>	<u>90</u>	<u>Brown Clay</u>		☒
"	<u>90</u>	<u>95</u>	<u>Fine Sand</u>		☒
"	<u>95</u>	<u>110</u>	<u>Brown Clay streaks sand</u>		☒
"	<u>110</u>	<u>118</u>	<u>Fine to Med. Sand</u>		☒
"	<u>118</u>	<u>126</u>	<u>Brown Clay</u>		☒
"	<u>126</u>	<u>144</u>	<u>Sand & Clay</u>	☒	
"	<u>144</u>	<u>156</u>	<u>Open Clay</u>		☒
"	<u>156</u>	<u>188</u>	<u>Brown Sandy Clay</u>		☒
"	<u>188</u>	<u>206</u>	<u>Fine Sand with Gravel</u>	☒	
"	<u>206</u>	<u>222</u>	<u>Fine Sand with Clay</u>		☒
"	<u>222</u>	<u>245</u>	<u>Fine to Medium Sand</u>	☒	
"	<u>245</u>	<u>263</u>	<u>Tan Silty Clay</u>		☒
"	<u>263</u>	<u>274</u>	<u>Fine Sand</u>	☒	
"	<u>274</u>	<u>293</u>	<u>Brown Clay streaks Sand</u>		☒
"	<u>293</u>	<u>300</u>	<u>Fine to Medium Sand</u>	☒	
"	<u>300</u>	<u>310</u>	<u>Clay Blue at Bottom</u>		☒

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NOV 24 1995

Department of Water Resources

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NOV 09 1995

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NOV 13 1995

WATER RESOURCES
WESTERN REGION

NOV 07 1996

Completed Depth 302' (Measurable)
Date: Started 9-13-95 Completed 9-25-95

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Riverside Inc Firm No. 333Firm Official Tony Doughty Date 9/29/95

and _____

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

well 5

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7

REPORT OF WELL DRILLER
State of Idaho

JUL 29 1969

State law requires that this report shall be filed with the Department of Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:

Name Gene State Academy
Address Rt. 4 - Caldwell, Idaho.

Owner's Permit No. 63-7222
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐

Water is to be used for: Irrigation

METHOD OF CONSTRUCTION: Rotary ☒ Cable ☐
Dug ☐ Other ☐ (explain)

CASING SCHEDULE: Threaded ☐ Welded ☐
"Diam. from 0 ft. to 201 ft.
"Diam. from ft. to ft.
"Diam. from ft. to ft.
"Diam. from ft. to ft.
Thickness of casing: 1/4 Material:

Steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☐ No ☒ Type of perforator used:

Size of perforations: " by "
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

WAS SCREEN INSTALLED? Yes ☒ No ☐

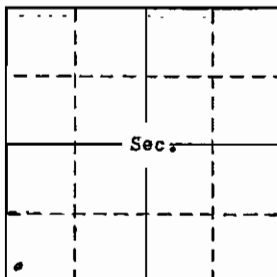
Manufacturer's name Johansen
Type 12" pipe Model No.
Diam. 12" Slot size 30 Set from 202 ft. to 222 ft.
Diam. 12" Slot size 25 Set from 225 ft. to 262 ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No ☒ size of gravel Gravel placed from ft. to ft. Surface seal provided? Yes ☐ No ☐ To what depth? 20 ft. Material used in seal: Clay

Did any strata contain unusable water? Yes ☐
No ☒ Type of water:
Depth of strata ft. Method of sealing strata off:

Surface casing used? Yes ☐ No ☐
Cemented in place? Yes ☐ No ☐

Locate well in section



LOCATION OF WELL: County CANYON
SW 1/4 Sec. 10 T. 3 N. R. 3 W

Use other side for additional remarks

Size of drilled hole: 16 Total depth of well: 304 Standing water level below ground: 133 Temp. Fahr. Test delivery: gpm or cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test: HAS NOT BEEN DONE TO DATE
Length of time of test: Hrs. Min.
Drawdown: ft. Artesian pressure: ft. above land surface Give flow cfs or gpm Shut-off pressure:
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing? Yes ☐ No ☐

DEPTH FROM TO	MATERIAL	WATER YES OR NO
0 3	Top soil	
3 42	Gravel	
42 70	Gravel sand	
70 108	Sand	
108 129	Yellow Clay	
129 131	Gravel sand	yes
131 150	Clay - white	
150 162	Sand & clay	
162 170	Yellow Clay	
170 185	Gravel clay	
185 202	Light brown sand	
202 209	White sand some gravel	
209 211	Yellow Clay chunks	
211 232	White fine sand	
232 234	Yellow clay	
234 245	Gravel brown sand	
245 256	Gravel clay	
256 260	Clay white sand	
260 265	Sand dark sand & clay chunks	
265 278	Yellow clay	
278 281	Yellow chunks	
281 290	Yellow clay	
290 294	Gravel sand	
294 296	Gravel sand	
296 302	Fine sand	

001516

Work started: 7 Feb - 1964
Work finished: May 1964
Well Driller's Statement: This well was drilled under my supervision and this report is true to the best of my knowledge.
Name: Witt & Sons Drilling Co.
Address: R. 4 - Caldwell, Id. 83605
Signed by: Hermette Witt
License No. 55 Date: 5-21-1969

checked
filed
3/1

CABLE ADDRESS ANDKEL

TELEPHONE 342 6623
AREA CODE 208

ANDERSON & KELLY
CONSULTANTS IN ENGINEERING AND GEOLOGY
420 SIMPLOT BLDG - P.O. BOX 1411
BOISE, IDAHO 83701

March 4, 1970

Gem State Academy
Route 4
Caldwell, Idaho

Attention: Mr. Arthur L. Nelson

Gentlemen:

A second pumping test was performed on your well on March 3, 1970. The enclosed copy of the well test indicates that the production capability of the well increased about 10% following the chemical treatment and additional development. As verbally reported to you, following the chemical treatment, the contractor, Kenneth Witt, was able to remove considerably more sand during the swabbing development procedure than during the initial development. Based on this information, it was recommended that an additional pumping test be performed on the well.

The pumping test was conducted at two discharge rates as indicated on the test data enclosed. The well was initially pumped at 180 gallons per minute (20 miner's inches) for about one-half hour. The water level during pumping was about 200 feet for a 75 ft. drawdown from the static water level. The specific capacity, or water yielding ability of the well, during this phase was 2.4 gallons per minute per foot of drawdown. During the second phase of the test, conducted at a discharge rate of slightly more than 250 gpm (28 miner's inches) indicated a pumping level of about 256 to 257 feet or 131 feet of drawdown. The specific capacity during this phase of the test was about 2 gpm per foot of drawdown. The original test of the well indicated a specific capacity of about 1.8 gpm per foot of drawdown. The 10% increase in production capability is considerably less than we had hoped for but, as we explained to you previously, it was impossible to come to any conclusion without the second pumping test.

The construction records of the contractor have been checked and we are confident that the well has been constructed properly with the well screens in the proper position. As we explained to Mr. Muncie, the Johnson well screens are an excellent product and provide ample open area to

Gem State Academy

March 4, 1970

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permit water into the well. In other words, the use of the well screens would not retard the flow of water and result in the low production capability. Based on the recovery measurements of the well following pumping, we still feel that the aquifer zones are capable of producing more water than has been produced during the pumping test. It is probable that additional rehabilitation techniques could be employed to increase the production of the well but we do not recommend them because of the limited drawdown available in the well.

We realize that some of these terms are not familiar to you, and we will attempt to explain them in this letter. However, if you have any additional questions please do not hesitate to contact us. The available drawdown in the well is generally considered to be the distance between the static water level and the top of the first producing zone. In this well the static water level is 125 feet and the top of the first screen zone is 202 feet. Therefore, the available drawdown is only about 75 feet. This explains the higher specific capacity of the well at the lower discharge rate during the recent test. As the water level in the well is lowered below the top of the well screen, the water in that aquifer zone falls into the well creating aeration of the well and exposure of the screened area to the atmosphere. This is not considered to be good practice because of the aeration of the discharge water and the possible encrustation or corrosion of the exposed well screen. Normally we recommend that the pumping water level always be maintained above the top of the well screen. Consequently, with the available drawdown in the well, even if the specific capacity were doubled with additional rehabilitation, it is unlikely that more than 400 gpm could be obtained from the well. Of course, it is up to the owner to determine the method of operation but we wanted to inform you of the generally accepted procedures.

If you feel that additional water in the general area must be made available, we recommend drilling another well not less than 500 feet from the present well. The second well should be drilled deeper and, if possible, the screened aquifer zones should be located as deep as possible in

Gem State Academy
March 4, 1970

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the well to provide more available drawdown.

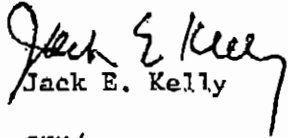
We realize that the 10% increase in the capacity of the well after chemical treatment is disappointing to you particularly when we recommend that the additional capability not be utilized due to the exposure of the upper well screen. We recommend that any permanent pumping equipment be designed to produce 175 gpm with a setting of 230 feet.

If you have any questions regarding our recommendations, please do not hesitate to contact us and we will discuss them with you or Mr. Muncie at your convenience. If you decide to drill a second well we will be happy to assist you in any way that we can.

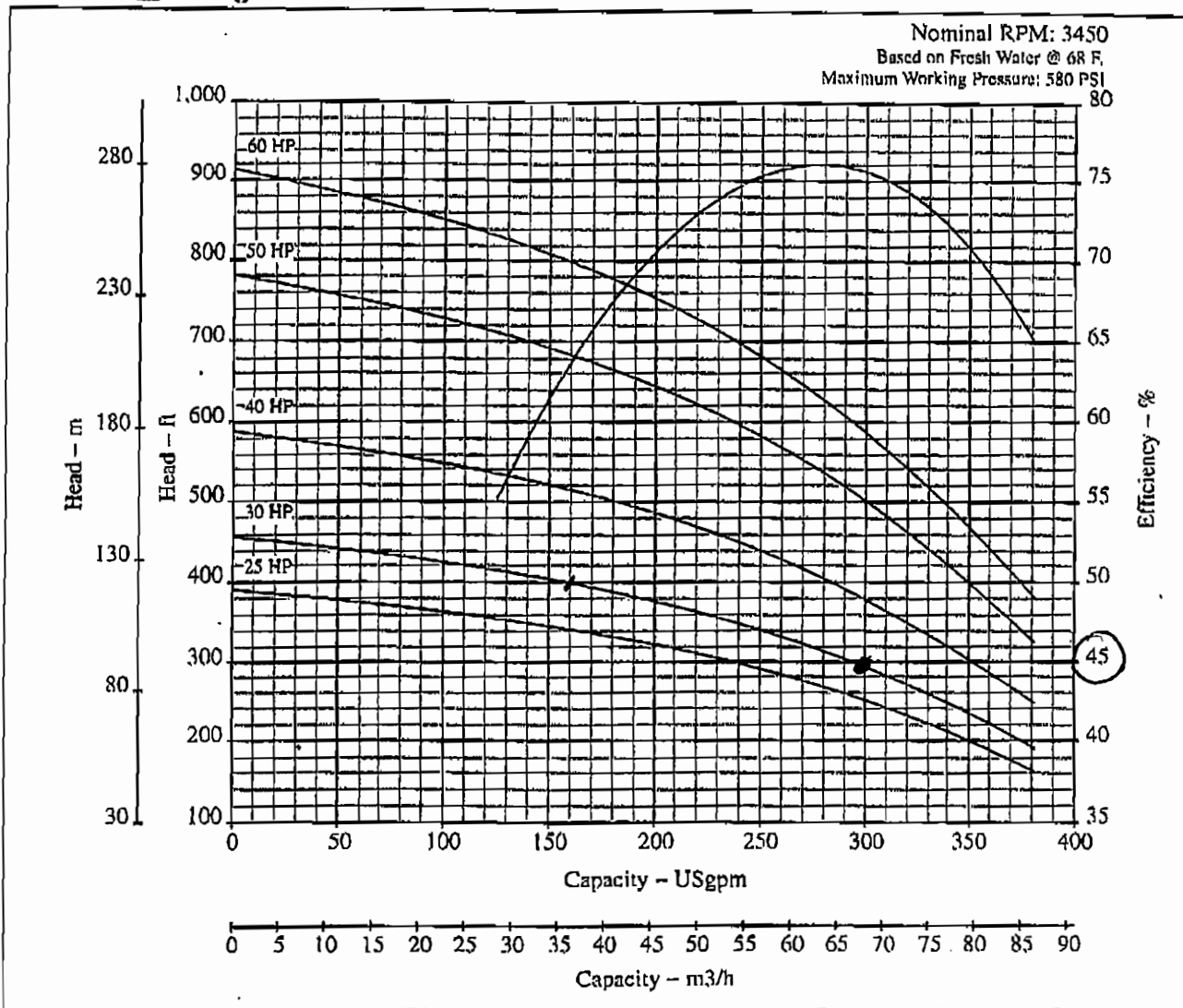
With best regards, we are,

Sincerely,

ANDERSON & KELLY


Jack E. Kelly

JEK/cr
Enc.

BERKELEY**SUBMERSIBLE
TURBINE****6T-275****OUTLINE DIMENSIONS / WEIGHTS**

HP	stages	Motor size	P length	M* length	MD* dia.	Mtr. wt.	Pump wt.
25	6	6"	43.98	47.20	5.51	224	153
30	7	6"	48.98	49.50	5.51	236	172
40	9	6"	58.98	50.30	5.51	239	211
50	12	6"	73.98	52.20	5.51	251	269
60	14	6"	83.98	55.70	5.51	269	308

Note: dimensions = inches; weight = U.S. lbs.

M* Maximum length (Pentair Motor)

MD* Motor diameter (Pentair Motor)

SPECIFICATIONS

Minimum Well I.D.	6.0 Inches
Minimum Submergence @ BEP (above inlet)	10.0 Feet
Capacity Range	125 - 380 GPM
Discharge	4" F NPT
See manufacturer's data for motor cooling requirements	

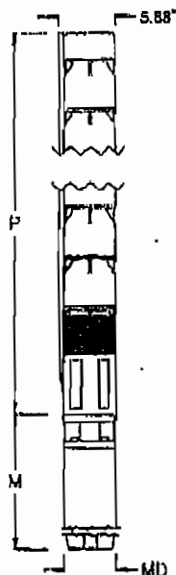
SUPERSEDES

All Previous

Date 04/01/05

Section **6T**

Page 7.02



ATTACHMENT C

TOPO MAP AND 2009 AERIAL PHOTOS

T3N R3W

2009 Photo

SWSW

Legend

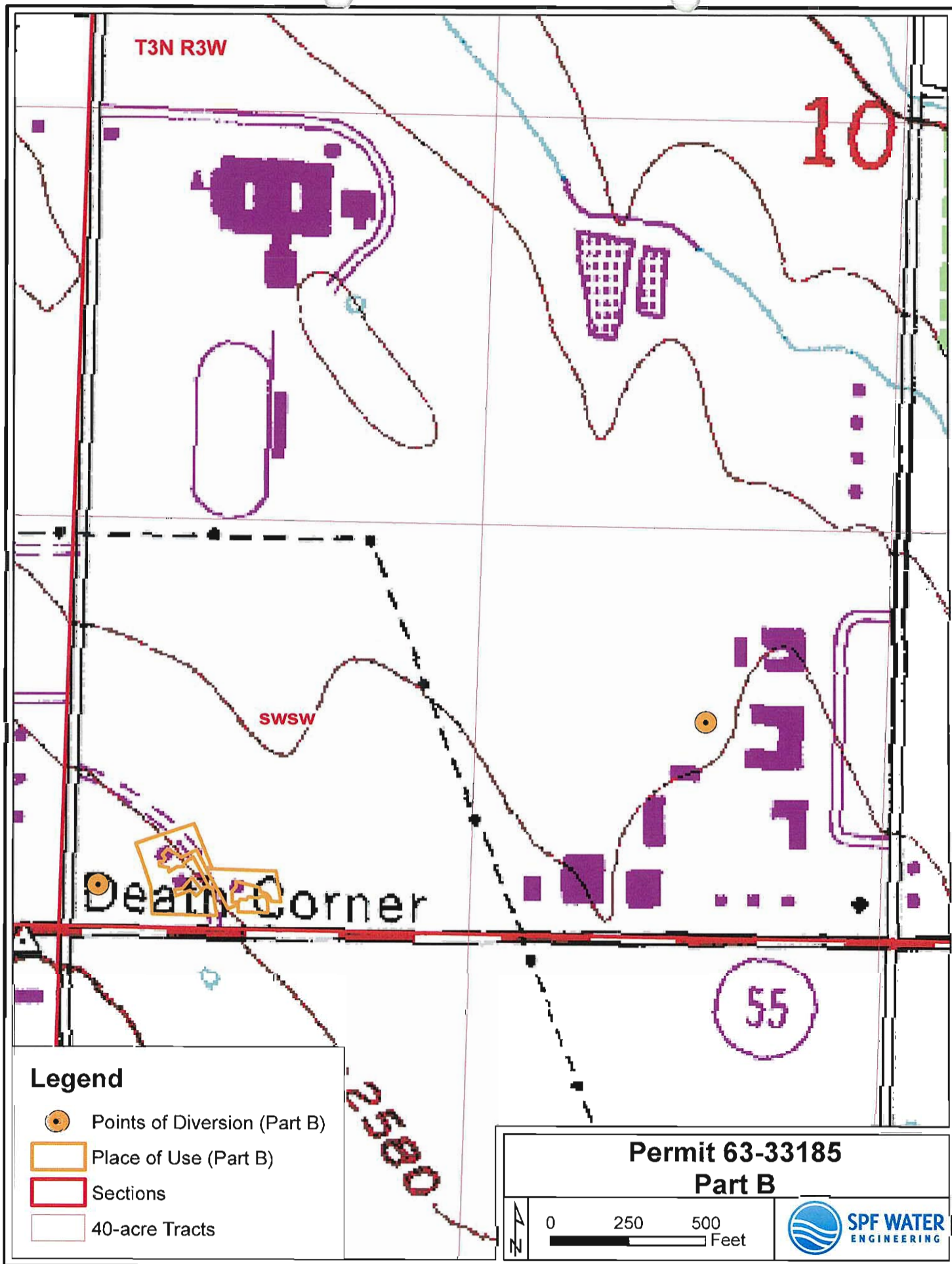
-  Points of Diversion (Part B)
-  Place of Use (Part B)
-  Sections
-  40-acre Tracts

Permit 63-33185
Part B

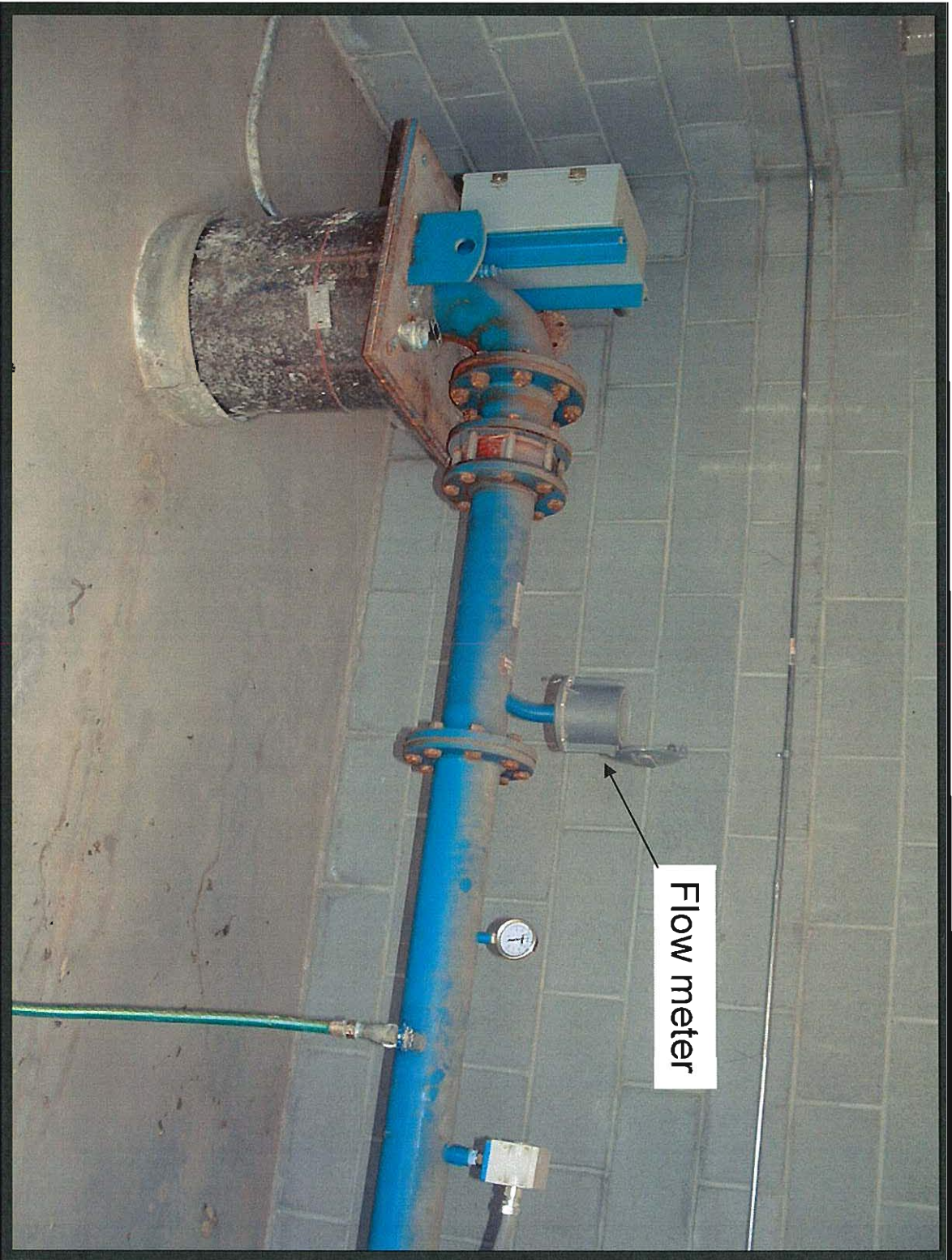


0 250 500
Feet





ATTACHMENT D
PHOTOS



Flow meter

Primary Well aka Well 5



Well 5 Distribution Valves



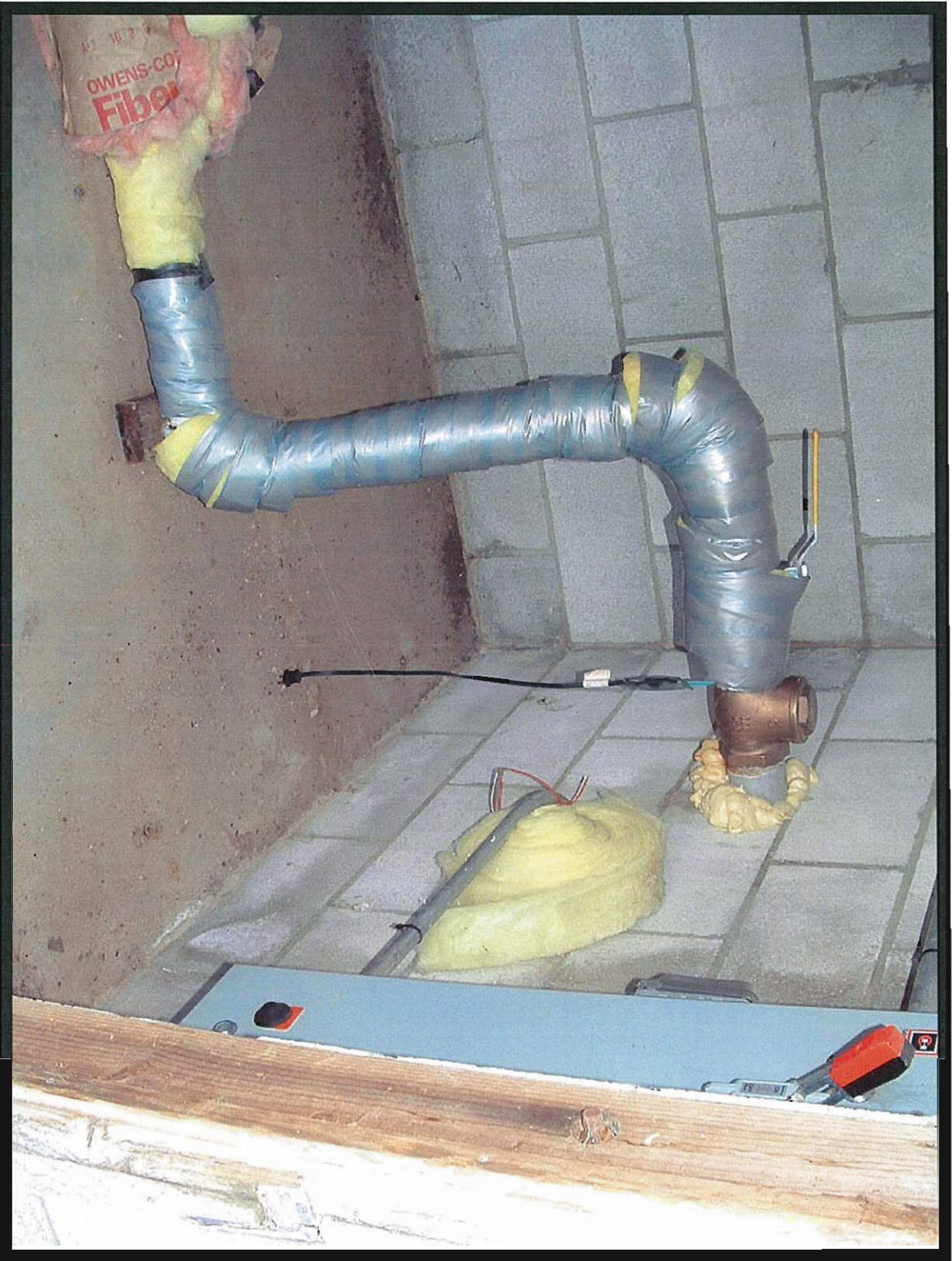
Well 5 Controlling Works



Well 5 Well/Pump House



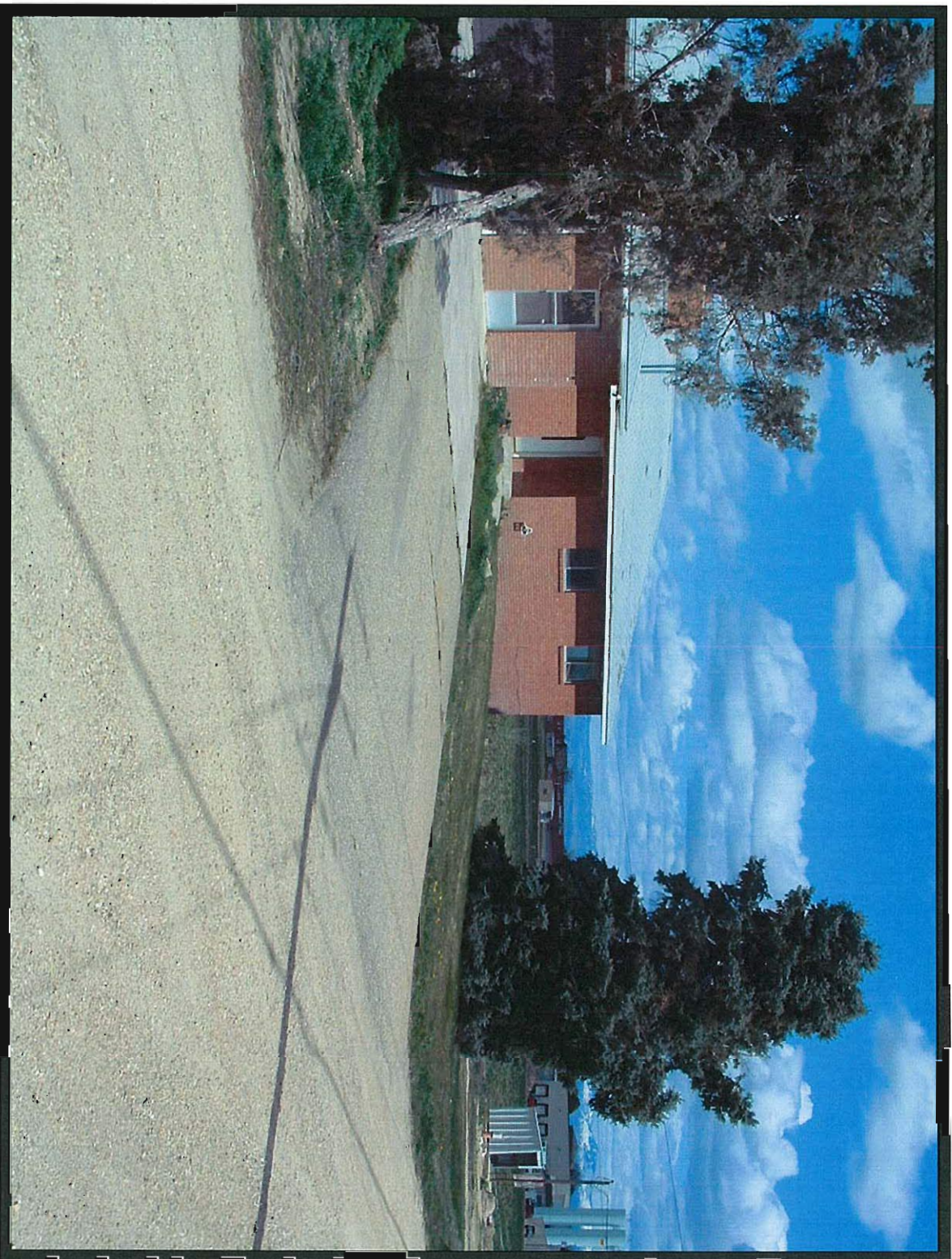
Secondary Well aka Well 1



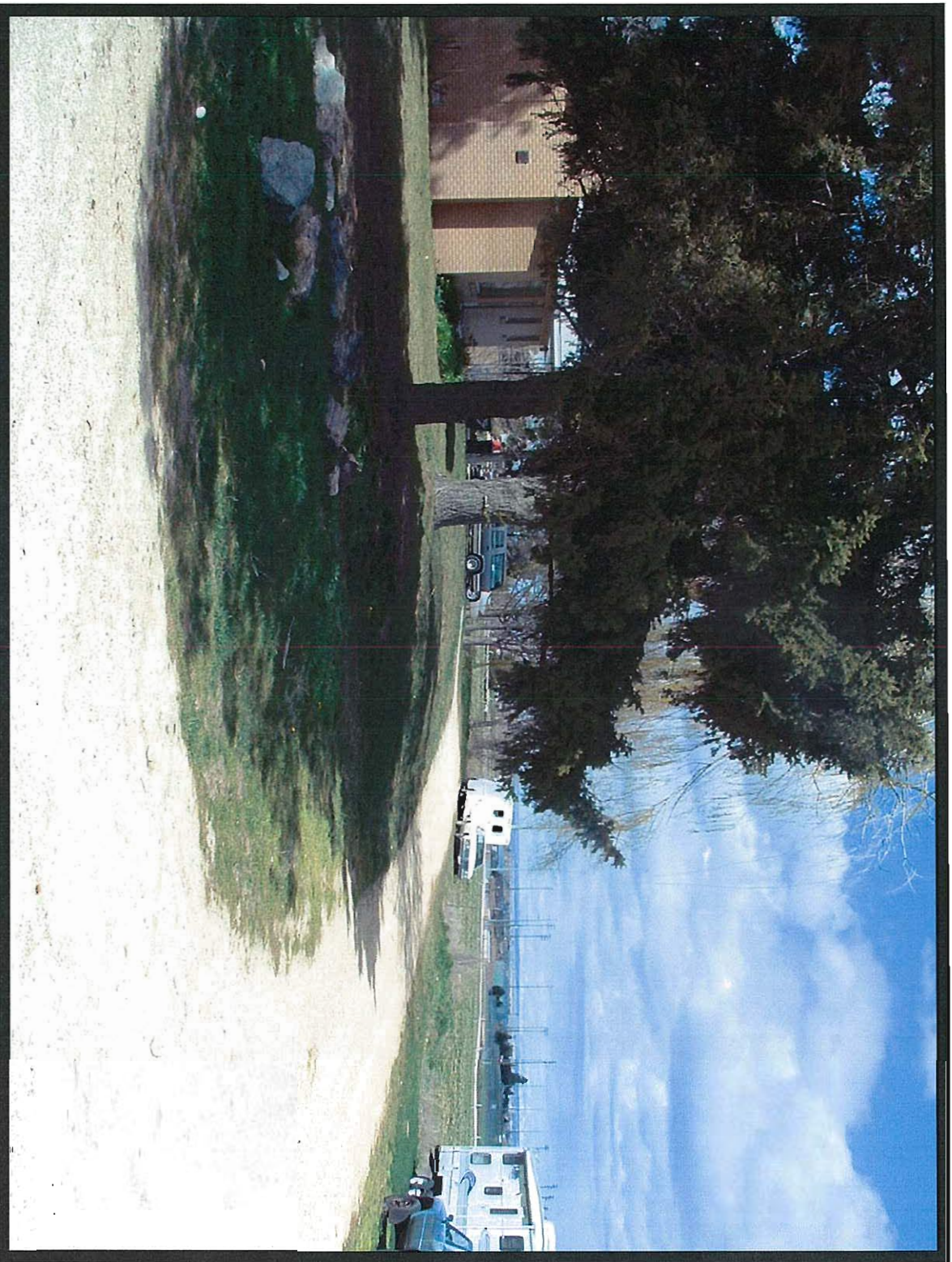
Well 1 Isolation Valve for System Use



Well 1 Overview



Place of Use



Place of Use



Place of Use



Place of Use