

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JUN 28 2010

DEPARTMENT OF
WATER RESOURCES

split +

Renumber

63-33422

A. GENERAL INFORMATION

Permit No. 63-33185 (Part A)

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: 63-7202

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
			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											4					4	

Total 4

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
13-inch well	US	100	CDJ313147	Layne & Bowler	#44829, 8-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

2. **Measurements:** 1000 gallons in 67 seconds measured July 28, 1972 by IDWR for 63-7202 licensing exam.

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 irrigation system serving the 4.0 field acres and Part B describes the domestic/irrigation system serving the 1.5 landscape acres.

Part A Narrative: A 100-hp turbine pump supplies irrigation water to 4.0 acres via sprinkler irrigation. The well is completed with 13-inch diameter casing with a drilled depth of 368 feet. The well and irrigation system also serves water right 63-7202. The licensing exam for water right 63-7202 was conducted in 1972 and determined system capacity at 2.0 cfs. It appears that the motor has been replaced with a motor of equal horsepower, however the pump discharge head remains the same. Part A, when combined with 63-7202, is limited to 2.0 cfs diversion capacity.

This right (Part A) 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 driller's report and Department's licensing exam for water right 63-7202.

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? x yes ___ no

F. FLOW CALCULATIONS

Y Additional Computation Sheets Attached

Measured Method:

Licensing Exam for Water Right 63-7202 (Attachment B)

Installed Badger Meter: 1000 gal in 67 seconds = 14.9 gal/sec = 895.5 gal/min = 2.0 cfs (measured 7/28/1972)

Allow **0.08 cfs**, limited to 2.0 cfs when combined with right 63-7202.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.0 \times 4.5 \text{ afa} = 18 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.0 \text{ cfs} \times 260 \times 1.9835 = 1031.4 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.08 \text{ cfs} \times 260 \times 1.9835 = 41.3 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{18 \text{ afa}}$$

Right 63-7202 was licensed for 756 afa. The 2.0 cfs is adequate to provide 756 afa under 63-7202 and 18 afa under 63-33185 Part A.

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	0.08 cfs	18.0

2. Recommended Amendments

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

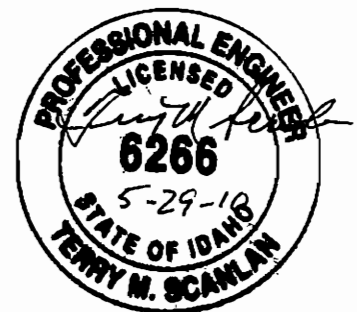
I. AUTHENTICATION

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

Field Examiner's Signature Terry M. Scanlan

Reviewer Judy Hemenway Date 9/30/10

SEAL



ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

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

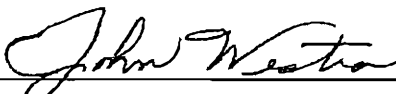
Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	03W	10																	6.0

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

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

RECEIVED

JUN 28 2010

FOR OFFICE USE ONLY

Amt. of Fee \$: _____
Receipt No. _____
Receipt By: _____
Date Received: _____

The Idaho Department of Water

Resources considers this form a statement by the permit holder(s) that development of a water right has been completed and that water has been applied to beneficial use to the extent described below. This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner. Please refer to the Instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an Assignment of Permit form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No. 63-33185 Telephone No. 208-459-1627

2. Name of Permit Holder(s): Gem State Academy

3. Mailing Address: 16115 S. Montana Ave. City Caldwell

State ID Zip 83605 Email: _____

4. Source of Water: Ground Water If **GROUND WATER** (well), Date Drilled: mo. _____ / yr. _____
May/1971 for Part A, Sept/1995 & May/1969 for Part B

Well Driller: Cope Drilling, Riverside Inc., Witt & Sons Drilling Permit Number: 775136, 729557, 775133

5. Extent of use(s) completed (as authorized by the water right permit):

Domestic (No. of households): _____ Stockwater (No. and type of stock): _____

Irrigation (No. of acres): 6 Other: _____

6. Total rate of diversion or storage volume for which proof is submitted: 0.12 cfs OR _____ acre-feet.

7. Compliance with a Measuring Device requirement and/or other Conditions of Permit: (Refer to the approval conditions on your permit and respond accordingly.)

Measuring Device: Is a measuring device required?

If yes, has the measuring device been installed?

Yes ☐ or No ☒
Yes ☐ or No ☐

Conditions of Permit: Does your permit require you to submit additional information in connection with your proof of beneficial use? (If yes, please list the conditions below and provide documents if necessary.)

Completed?

Yes ☐ or No ☐

Completed?

Yes ☐ or No ☐

8. Fee Enclosed: \$ N/A (See Fee Schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.)

9. Person to contact to accompany the Department representative during field examination of the water system.

Name: Steve Bergherm Telephone Number: 208-459-1627

Mailing Address: 16115 S Montana Ave City Caldwell

State ID Zip 83 Email: sbergherm@gemstate.org

10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder: Harold R. Dixon, Jr. Date: 6-22-2010

(include your title, if on behalf of company or organization)

VP for Finance

Idaho Conference of Seventh-day Adventists, Inc.

ATTACHMENT B

WELL LOG AND 63-7202 LICENSING EXAM

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

Beeline
5-27-71
J.H.

1. WELL OWNER Name <u>Gem State Academy</u> Address <u>College Falls, Idaho</u> Owner's Permit No. <u>63-7202</u>		7. WATER LEVEL Static water level <u>8.5</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																																																					
2. NATURE OF WORK ☐ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailor ☐ Other <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>1400</u></td><td><u>4.75'</u></td><td><u>1 hr</u></td></tr><tr><td><u>1500</u></td><td><u>4.97'</u></td><td><u>3 hrs</u></td></tr></tbody></table>		Discharge G.P.M.	Draw Down	Hours Pumped	<u>1400</u>	<u>4.75'</u>	<u>1 hr</u>	<u>1500</u>	<u>4.97'</u>	<u>3 hrs</u>																																																																																																																																																																																											
Discharge G.P.M.	Draw Down	Hours Pumped																																																																																																																																																																																																					
<u>1400</u>	<u>4.75'</u>	<u>1 hr</u>																																																																																																																																																																																																					
<u>1500</u>	<u>4.97'</u>	<u>3 hrs</u>																																																																																																																																																																																																					
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock <u>School</u>		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td></td><td>0</td><td>6</td><td>Top soil</td><td></td><td></td></tr><tr><td></td><td>6</td><td>9</td><td>hard pan</td><td></td><td></td></tr><tr><td></td><td>9</td><td>10</td><td>changing to gravel & hardpan</td><td></td><td></td></tr><tr><td></td><td>10</td><td>20</td><td>gravel & sand</td><td></td><td></td></tr><tr><td></td><td>20</td><td>26</td><td>gravel & sand</td><td></td><td></td></tr><tr><td></td><td>26</td><td>34</td><td>cemented gravel</td><td></td><td></td></tr><tr><td></td><td>34</td><td>44</td><td>gravel sand "tight"</td><td></td><td></td></tr><tr><td></td><td>44</td><td>46</td><td>sand & gravel</td><td></td><td></td></tr><tr><td></td><td>46</td><td>49</td><td>coarse sand & gravel</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>loose</td><td></td><td></td></tr><tr><td></td><td>49</td><td>62</td><td>tight gravel</td><td></td><td></td></tr><tr><td></td><td>52</td><td>54</td><td>looser gravel</td><td></td><td></td></tr><tr><td></td><td>54</td><td>59</td><td></td><td></td><td></td></tr><tr><td></td><td>59</td><td>61</td><td>coarse sand gravel</td><td></td><td></td></tr><tr><td></td><td>61</td><td>64</td><td>white sand</td><td></td><td></td></tr><tr><td></td><td>64</td><td>73</td><td>white sand</td><td></td><td></td></tr><tr><td></td><td>73</td><td>74</td><td>clay (green)</td><td></td><td></td></tr><tr><td></td><td>74</td><td>84</td><td>clay (green)</td><td></td><td></td></tr><tr><td></td><td>84</td><td>86</td><td>clay (Hard Dry)</td><td></td><td></td></tr><tr><td></td><td>86</td><td>87</td><td>White sand</td><td></td><td></td></tr><tr><td></td><td>87</td><td>94</td><td>sandy green clay softening</td><td></td><td></td></tr><tr><td></td><td>94</td><td>98</td><td>clay green</td><td></td><td></td></tr><tr><td></td><td>98</td><td>99</td><td>hard grey green sand-stone</td><td></td><td></td></tr><tr><td></td><td>99</td><td></td><td>dry green clay mixed gravel (hard)</td><td></td><td></td></tr><tr><td></td><td>99</td><td>104</td><td>hard dry clay green</td><td></td><td></td></tr><tr><td></td><td>104</td><td>106</td><td>hard dry green clay</td><td></td><td></td></tr><tr><td></td><td>106</td><td>109</td><td>brn sandy texture changing to brown silt sand</td><td></td><td></td></tr><tr><td></td><td>109</td><td>114</td><td>fine sand brn</td><td></td><td></td></tr><tr><td></td><td>114</td><td>117</td><td>fine brown sand</td><td></td><td></td></tr><tr><td></td><td>117</td><td>121</td><td>green clay</td><td></td><td></td></tr><tr><td></td><td>121</td><td>122</td><td>fine brown sand</td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No		0	6	Top soil				6	9	hard pan				9	10	changing to gravel & hardpan				10	20	gravel & sand				20	26	gravel & sand				26	34	cemented gravel				34	44	gravel sand "tight"				44	46	sand & gravel				46	49	coarse sand & gravel						loose				49	62	tight gravel				52	54	looser gravel				54	59					59	61	coarse sand gravel				61	64	white sand				64	73	white sand				73	74	clay (green)				74	84	clay (green)				84	86	clay (Hard Dry)				86	87	White sand				87	94	sandy green clay softening				94	98	clay green				98	99	hard grey green sand-stone				99		dry green clay mixed gravel (hard)				99	104	hard dry clay green				104	106	hard dry green clay				106	109	brn sandy texture changing to brown silt sand				109	114	fine sand brn				114	117	fine brown sand				117	121	green clay				121	122	fine brown sand		
Hole Diam.	Depth		Material		Water																																																																																																																																																																																																		
	From	To		Yes	No																																																																																																																																																																																																		
	0	6	Top soil																																																																																																																																																																																																				
	6	9	hard pan																																																																																																																																																																																																				
	9	10	changing to gravel & hardpan																																																																																																																																																																																																				
	10	20	gravel & sand																																																																																																																																																																																																				
	20	26	gravel & sand																																																																																																																																																																																																				
	26	34	cemented gravel																																																																																																																																																																																																				
	34	44	gravel sand "tight"																																																																																																																																																																																																				
	44	46	sand & gravel																																																																																																																																																																																																				
	46	49	coarse sand & gravel																																																																																																																																																																																																				
			loose																																																																																																																																																																																																				
	49	62	tight gravel																																																																																																																																																																																																				
	52	54	looser gravel																																																																																																																																																																																																				
	54	59																																																																																																																																																																																																					
	59	61	coarse sand gravel																																																																																																																																																																																																				
	61	64	white sand																																																																																																																																																																																																				
	64	73	white sand																																																																																																																																																																																																				
	73	74	clay (green)																																																																																																																																																																																																				
	74	84	clay (green)																																																																																																																																																																																																				
	84	86	clay (Hard Dry)																																																																																																																																																																																																				
	86	87	White sand																																																																																																																																																																																																				
	87	94	sandy green clay softening																																																																																																																																																																																																				
	94	98	clay green																																																																																																																																																																																																				
	98	99	hard grey green sand-stone																																																																																																																																																																																																				
	99		dry green clay mixed gravel (hard)																																																																																																																																																																																																				
	99	104	hard dry clay green																																																																																																																																																																																																				
	104	106	hard dry green clay																																																																																																																																																																																																				
	106	109	brn sandy texture changing to brown silt sand																																																																																																																																																																																																				
	109	114	fine sand brn																																																																																																																																																																																																				
	114	117	fine brown sand																																																																																																																																																																																																				
	117	121	green clay																																																																																																																																																																																																				
	121	122	fine brown sand																																																																																																																																																																																																				
4. METHOD DRILLED ☐ Cable ☐ Rotary ☐ Dug ☐ Other																																																																																																																																																																																																							
5. WELL CONSTRUCTION Diameter of hole <u>2 1/2</u> inches Total depth <u>370</u> feet Casing schedule: ☐ Steel ☐ Concrete <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>2.88</u> inches</td><td><u>1.5</u> inches</td><td><u>27</u> feet</td><td><u>240</u> feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was a packer or seal used? ☐ Yes ☐ No Perforated? ☐ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☒ Yes ☐ No Manufacturer's name _____ Type <u>Johnson</u> Model No. _____ Diameter _____ Slot size <u>50</u> Set from <u>202</u> feet to <u>227</u> feet Diameter _____ Slot size _____ Set from <u>288</u> feet to <u>299</u> feet <u>532</u> Gravel packed? ☐ Yes ☐ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal? ☒ Yes ☐ No To what depth <u>50</u> feet Material used in seal ☒ Cement grout ☐ Puddling clay		Thickness	Diameter	From	To	<u>2.88</u> inches	<u>1.5</u> inches	<u>27</u> feet	<u>240</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																																																																																																																																																		
Thickness	Diameter	From	To																																																																																																																																																																																																				
<u>2.88</u> inches	<u>1.5</u> inches	<u>27</u> feet	<u>240</u> feet																																																																																																																																																																																																				
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																				
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																				
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																				
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																				
Number	From	To																																																																																																																																																																																																					
_____ perforations	_____ feet	_____ feet																																																																																																																																																																																																					
_____ perforations	_____ feet	_____ feet																																																																																																																																																																																																					
_____ perforations	_____ feet	_____ feet																																																																																																																																																																																																					
6. LOCATION OF WELL Sketch map location must agree with written location. <u>63</u> N W E S N W E S 001512 County <u>Canyon</u> <u>SW 1/4 SW 1/4 Sec. 10, T. 3 N., R. 3 E., W.</u> Sheet # <u>1</u> of <u>3</u>																																																																																																																																																																																																							
		10. <u>April 16</u> , 71, finished <u>May 11</u> , 71 Work started _____ finished _____																																																																																																																																																																																																					
		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. Driller's or Firm's Name <u>Can Drilling</u> Number <u>2</u> Address <u>College Falls, Idaho</u> Signed By <u>John R. Roper</u> _____ Date <u>May 27 1971</u>																																																																																																																																																																																																					

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, YELLOW, AND PINK COPIES TO THE DEPARTMENT

USE TYPEWRITER OR
'BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

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

1. WELL OWNER Name <u>Gem State Academy</u> Address _____ Owner's Permit No. <u>63-7202</u>	7. WATER LEVEL Static water level _____ feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																																																																																								
2. NATURE OF WORK ☐ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Bailer ☐ Other <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Discharge G.P.M.</th><th>Draw Down</th><th>Hours Pumped</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Discharge G.P.M.	Draw Down	Hours Pumped																																																																																																																																																																																																																																					
Discharge G.P.M.	Draw Down	Hours Pumped																																																																																																																																																																																																																																							
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>122</td><td>124</td><td>124</td><td>green clay</td><td> </td><td> </td></tr><tr><td>124</td><td>134</td><td>134</td><td>green clay</td><td> </td><td> </td></tr><tr><td>134</td><td>136</td><td>136</td><td>green clay</td><td> </td><td> </td></tr><tr><td>136</td><td>138</td><td>138</td><td>fine brown sand</td><td> </td><td> </td></tr><tr><td>138</td><td>138</td><td>138</td><td>green clay</td><td> </td><td> </td></tr><tr><td>138</td><td>141</td><td>141</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>141</td><td>144</td><td>144</td><td>brn clay sandstone</td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td>stucko</td><td> </td><td> </td></tr><tr><td>144</td><td>148</td><td>148</td><td>brn clay sand</td><td> </td><td> </td></tr><tr><td>148</td><td>153</td><td>153</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>153</td><td>154</td><td>154</td><td>brown clay</td><td> </td><td> </td></tr><tr><td>154</td><td>158</td><td>158</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>158</td><td>159</td><td>159</td><td>stucko grey sandstone</td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td>breaking & green clay</td><td> </td><td> </td></tr><tr><td>159</td><td>164</td><td>164</td><td>green clay</td><td> </td><td> </td></tr><tr><td>164</td><td>169</td><td>169</td><td>green clay few layers</td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td>sandstone</td><td> </td><td> </td></tr><tr><td>169</td><td>171</td><td>171</td><td>fine tan sand</td><td> </td><td> </td></tr><tr><td>171</td><td>174</td><td>174</td><td>brn clay</td><td> </td><td> </td></tr><tr><td>174</td><td>176</td><td>176</td><td>brn clay</td><td> </td><td> </td></tr><tr><td>176</td><td>184</td><td>184</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>184</td><td>188</td><td>188</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>188</td><td>191</td><td>191</td><td>clay green</td><td> </td><td> </td></tr><tr><td>191</td><td>194</td><td>194</td><td>brn clay</td><td> </td><td> </td></tr><tr><td>194</td><td>200</td><td>200</td><td>brn clay</td><td> </td><td> </td></tr><tr><td>200</td><td>204</td><td>204</td><td>tan sand fine</td><td> </td><td> </td></tr><tr><td>204</td><td>205</td><td>205</td><td>fine tan sand</td><td> </td><td> </td></tr><tr><td>205</td><td>207</td><td>207</td><td>brn clay</td><td> </td><td> </td></tr><tr><td>207</td><td>214</td><td>214</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>214</td><td>217</td><td>217</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>217</td><td>219</td><td>219</td><td>coarse white sand</td><td> </td><td> </td></tr><tr><td>219</td><td>224</td><td>224</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>224</td><td>227</td><td>227</td><td>fine brn sand</td><td> </td><td> </td></tr><tr><td>227</td><td>234</td><td>234</td><td>green clay occasional</td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td>gravel clean screen</td><td> </td><td> </td></tr><tr><td>234</td><td>236</td><td>236</td><td>green clay</td><td> </td><td> </td></tr><tr><td>236</td><td>244</td><td>244</td><td>fine brn sand</td><td> </td><td> </td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	122	124	124	green clay			124	134	134	green clay			134	136	136	green clay			136	138	138	fine brown sand			138	138	138	green clay			138	141	141	fine brn sand			141	144	144	brn clay sandstone						stucko			144	148	148	brn clay sand			148	153	153	fine brn sand			153	154	154	brown clay			154	158	158	fine brn sand			158	159	159	stucko grey sandstone						breaking & green clay			159	164	164	green clay			164	169	169	green clay few layers						sandstone			169	171	171	fine tan sand			171	174	174	brn clay			174	176	176	brn clay			176	184	184	fine brn sand			184	188	188	fine brn sand			188	191	191	clay green			191	194	194	brn clay			194	200	200	brn clay			200	204	204	tan sand fine			204	205	205	fine tan sand			205	207	207	brn clay			207	214	214	fine brn sand			214	217	217	fine brn sand			217	219	219	coarse white sand			219	224	224	fine brn sand			224	227	227	fine brn sand			227	234	234	green clay occasional						gravel clean screen			234	236	236	green clay			236	244	244	fine brn sand		
Hole Diam.	Depth		Material	Water																																																																																																																																																																																																																																					
	From	To		Yes	No																																																																																																																																																																																																																																				
122	124	124	green clay																																																																																																																																																																																																																																						
124	134	134	green clay																																																																																																																																																																																																																																						
134	136	136	green clay																																																																																																																																																																																																																																						
136	138	138	fine brown sand																																																																																																																																																																																																																																						
138	138	138	green clay																																																																																																																																																																																																																																						
138	141	141	fine brn sand																																																																																																																																																																																																																																						
141	144	144	brn clay sandstone																																																																																																																																																																																																																																						
			stucko																																																																																																																																																																																																																																						
144	148	148	brn clay sand																																																																																																																																																																																																																																						
148	153	153	fine brn sand																																																																																																																																																																																																																																						
153	154	154	brown clay																																																																																																																																																																																																																																						
154	158	158	fine brn sand																																																																																																																																																																																																																																						
158	159	159	stucko grey sandstone																																																																																																																																																																																																																																						
			breaking & green clay																																																																																																																																																																																																																																						
159	164	164	green clay																																																																																																																																																																																																																																						
164	169	169	green clay few layers																																																																																																																																																																																																																																						
			sandstone																																																																																																																																																																																																																																						
169	171	171	fine tan sand																																																																																																																																																																																																																																						
171	174	174	brn clay																																																																																																																																																																																																																																						
174	176	176	brn clay																																																																																																																																																																																																																																						
176	184	184	fine brn sand																																																																																																																																																																																																																																						
184	188	188	fine brn sand																																																																																																																																																																																																																																						
188	191	191	clay green																																																																																																																																																																																																																																						
191	194	194	brn clay																																																																																																																																																																																																																																						
194	200	200	brn clay																																																																																																																																																																																																																																						
200	204	204	tan sand fine																																																																																																																																																																																																																																						
204	205	205	fine tan sand																																																																																																																																																																																																																																						
205	207	207	brn clay																																																																																																																																																																																																																																						
207	214	214	fine brn sand																																																																																																																																																																																																																																						
214	217	217	fine brn sand																																																																																																																																																																																																																																						
217	219	219	coarse white sand																																																																																																																																																																																																																																						
219	224	224	fine brn sand																																																																																																																																																																																																																																						
224	227	227	fine brn sand																																																																																																																																																																																																																																						
227	234	234	green clay occasional																																																																																																																																																																																																																																						
			gravel clean screen																																																																																																																																																																																																																																						
234	236	236	green clay																																																																																																																																																																																																																																						
236	244	244	fine brn sand																																																																																																																																																																																																																																						
4. METHOD DRILLED ☐ Cable ☐ Rotary ☐ Dug ☐ Other	10. Work started <u>April 16, 71</u> finished <u>May 11, 71</u>																																																																																																																																																																																																																																								
5. WELL CONSTRUCTION Diameter of hole _____ inches Total depth _____ feet Casing schedule: ☐ Steel ☐ Concrete <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ inches</td><td>_____ inches</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Was a packer or seal used? ☐ Yes ☐ No Perforated? ☐ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr><tr><td>_____ perforations</td><td>_____ feet</td><td>_____ feet</td></tr></tbody></table> Well screen installed? ☐ Yes ☐ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☐ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal? ☐ Yes ☐ No To what depth _____ feet Material used in seal ☐ Cement grout ☐ Puddling clay	Thickness	Diameter	From	To	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. Driller's or Firm's Name <u>Cape Drilling</u> Number <u>2</u> Address <u>Idaho Falls</u> Signed By <u>[Signature]</u> Date <u>May 21, 1971</u>																																																																																																																																																																																																				
Thickness	Diameter	From	To																																																																																																																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																																																						
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																																																																																																																																						
Number	From	To																																																																																																																																																																																																																																							
_____ perforations	_____ feet	_____ feet																																																																																																																																																																																																																																							
_____ perforations	_____ feet	_____ feet																																																																																																																																																																																																																																							
_____ perforations	_____ feet	_____ feet																																																																																																																																																																																																																																							
6. LOCATION OF WELL Sketch map location must agree with written location <u>OG1513</u> 63 County <u>Canyon</u> <u>Sec. 10</u> T. <u>3</u> N. <u>2</u> R. <u>3</u> Sheet # <u>2</u> of <u>3</u>	USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE BLUE AND PINK COPIES TO THE RECLAMATION																																																																																																																																																																																																																																								

WELL DRILLER'S REPORT

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

1. WELL OWNER
Name Gem State Academy
Address Caldwell Idaho
Owner's Permit No. 63-7202

2. NATURE OF WORK
☐ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE
☐ Domestic ☒ Irrigation ☐ Test
☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED
☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION
Diameter of hole 24 inches Total depth 320 feet
Casing schedule: ☒ Steel ☐ Concrete
Thickness Diameter From To
288 inches 13 inches 15 feet 240 feet
inches inches feet feet
inches inches feet feet
inches inches feet feet
inches inches feet feet
inches inches feet feet
Was a packer or seal used? ☐ Yes ☐ No
Perforated? ☐ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation inches by inches
Number From To
perforations feet feet
perforations feet feet
perforations feet feet
Well screen installed? ☒ Yes ☐ No
Manufacturer's name _____
Type Johnson Model No. _____
Diameter 1 1/2 inch slot size 20 Set from 202 feet to 227 feet
Diameter _____ Slot size _____ Set from 207 feet to 297 feet
331 2332
Gravel packed? ☒ Yes ☐ No Size of gravel 3/4 inch
Placed from 0 feet to 370 feet
Surface seal? ☒ Yes ☐ No To what depth 30 feet
Material used in seal ☒ Cement grout ☐ Puddling clay

6. LOCATION OF WELL
Sketch map location must agree with written location. 001514

County Canyon
SW 1/4 SW 1/4 Sec 10 T. 3 N. R. 3 W
Sheet # 3 of 3

7. WATER LEVEL
Static water level 132 feet below land surface
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA
☐ Pump ☐ Bailor ☐ Other
Discharge G.P.M. Draw Down Hours Pumped
1000 20170' 1 1/2 hrs
1500 20197' 3 hrs

9. LITHOLOGIC LOG
Hole Diam. Depth Material Water
From To Yes No
244 254 fine white sand
254 259 fine white sand
259 264 green clay
264 268 green clay
268 269 white fine sand
269 274 green clay
274 276 green clay
276 283 white sand fine
283 284 green clay
284 288 green clay clean screen
288 294 white sand fine
294 298 white fine sand
298 304 green clay
304 305 green clay
305 309 white sand fine
309 313 green clay
313 314 white sand fine
314 324 white sand fine
324 332 white sand fine
332 334 green clay
334 338 green clay
338 344 blue clay
344 347 fine white sand
347 352 blue clay
352 354 blue white fine sand
354 360 blue white sand coarse
with layers sandstone
360 364 blue clay
364 366 blue clay
366 367 fine grey sand
367 367 1/2 blue clay sandy changing
to sand
367 368 blue coarse sand & fine
blue clay

10. Work started April 16, 71 finished May 11, 71

11. DRILLER'S CERTIFICATION
This well was drilled under my supervision and this report is true to the best of my knowledge.
Cop Drilling Co # 2
Driller or Firm's Name Number
Box 1196 Caldwell Idaho
Address
Cop Drilling Co May 21 1971
Signed By Date

FIELD REPORT

260

DATE OF EXAM 12 July 72

ACREAGE
Found 168
Recommended 168

Irrigation Requirement 4.5 Ac Ft/Ac

USE
Irrigation Q = 2.0 c.f.s. V = 756.0 AF/Ann. from MAY 15 to NOV 15
Domestic Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Livestock Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____

Is water co-mingled? yes _____ no X

Name source: Groundwater
Twp. 3 N/S, Rge. 3 E/W, B.M., Sec. 10, Sub. SW 1/4 SW 1/4 CANYON County

Exchange? yes _____ no _____

Name source exchanged with: _____
Twp. _____ N/S, Rge. _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County

Point of injection:
Twp. _____ N/S, Rge. _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County

Point of exchange:
Twp. _____ N/S, Rge. _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County

Total Q measured 2.0 cfs Method of measurement Badger Meter

Total Q recommended 2.0 cfs Meter No. _____ Type _____ Condition _____

Total V recommended 756.0 AcFt/ANN

Recommended Amendments:

P.D. _____
Place of Use _____
Other _____
None

MEASUREMENT CALCULATION:

Installed Badger Meter 1000 gals in 67 SECS

$Q = 2.0 \text{ cfs}$
 $V = (4.5 \times 168) = 756.0$

$A = 168 \text{ ACRES}$

SYSTEM DESCRIPTION:

GE Motor 100 HP 230/460 Volt 1770 RPM 60 c/s = 3 phase
Ser # CGJ317114 Layne & Bowler Pump Ser # 44829
3" discharge through Butterfly type valve & check valve
Some land under sprinklers some gravity irrigation

REMARKS:

only 1 well - domestic well capped!

Examiner's Signature James Barker Date 28 July 72

Checked by _____ Date _____

Approved by _____ Date _____

R 80

63 7202

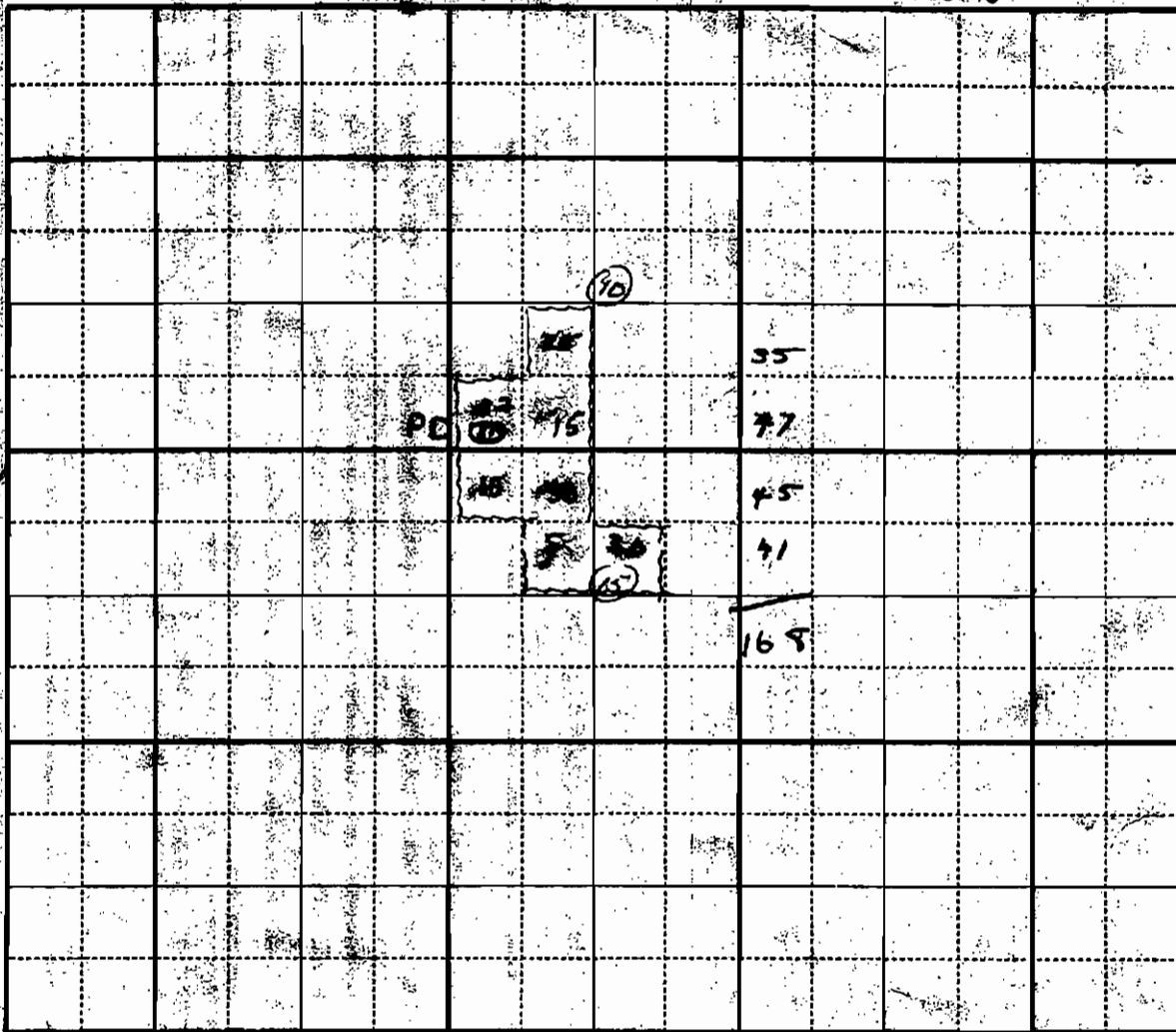


Diagram of System

DATE

EXAMINATION RECORDS

25 July 72 Contact Bob M... about
1 July 72

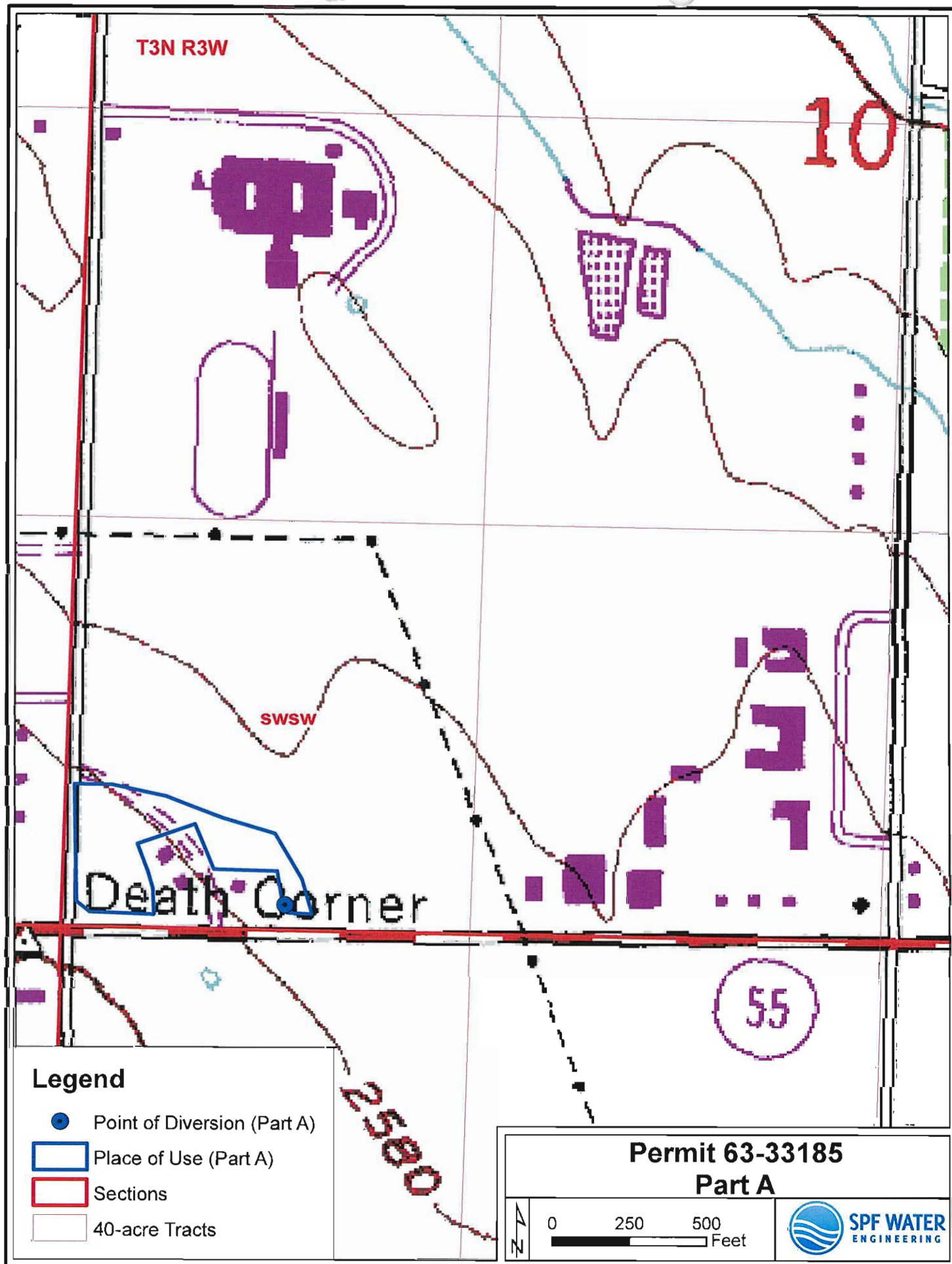
by: RB

by:

by:

by:

ATTACHMENT C
TOPO MAP AND 2009 AERIAL PHOTO



T3N R3W

10

SWSW

Death Corner

55

2580

Legend

- Point of Diversion (Part A)
- Place of Use (Part A)
- Sections
- 40-acre Tracts

Permit 63-33185
Part A



0 250 500
Feet



T3N R3W

2009 Photo

9

10

SWSW

15

Legend

● Point of Diversion (Part A)

□ Place of Use (Part A)

□ Sections

□ 40-acre Tracts

Permit 63-33185
Part A

N
0

250 500
Feet



ATTACHMENT D
PHOTOS



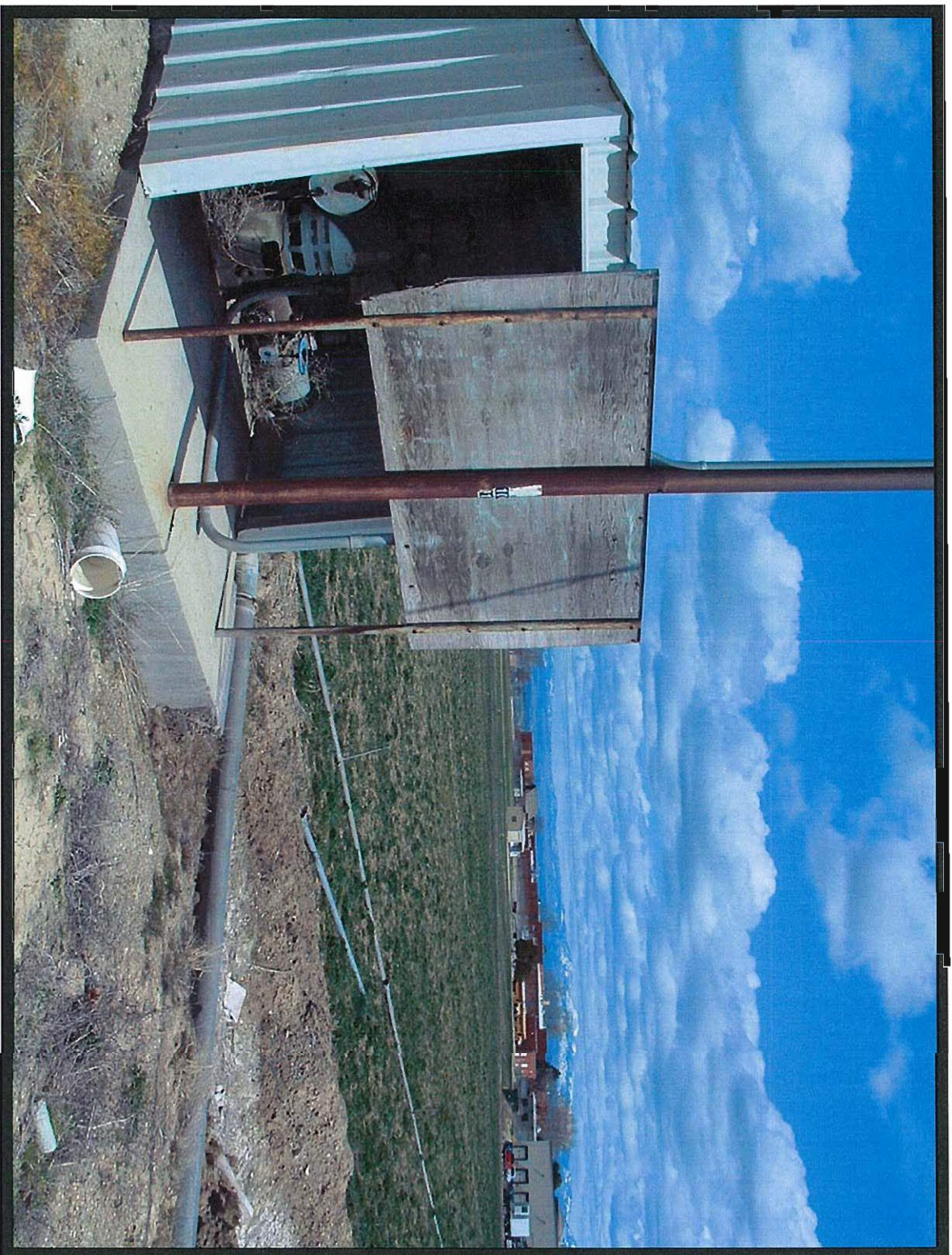
Well and Pump



Place of Use and Mainline (Looking North from Well)



Place of Use (Looking North in SWSW S10)



Place of Use (Looking NE from Well)