

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33600
Exam Date: 4/5/2016

1. Current Owner:
J & R FARMS 21986 HOSKINS RD CALDWELL ID 83607 (208)454-3912
2. Accompanied by: Sean Rowley
Phone No: 208-546-8857
Address:
Relationship to Permit Holder: Property manager

3. SOURCE: GROUND WATER**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 63-8900
2. Other water rights with the same point-of-diversion: 63-2814, 63-2962, 63-8062, 63-8900, 63-10013B, 63-33632, 63-33633, 63-33634

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**GROUND WATER SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 13, Twp 03N, Rge 04W, B.M. CANYON CountyGROUND WATER NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 14, Twp 03N, Rge 04W, B.M. CANYON County

Method of Determination: ArcMap imagery and PLSS mapping

2.

PLACE OF USE: COMMERCIAL

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	04W	13											X						
03N	04W	14				X													

Method of Determination: ArcMap imagery and PLSS mapping

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be

☒ 1:24,000 or greater.☒ Aerial Photo Attached (required for irrigation of 10+ acres).☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
63-92-C-153-000	General Electric	150	066074032		
Unknown	US Electrical Motors	75	R-6326-05-122		

*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: No flow measured during exam.

E. FLOW CALCULATIONS

Measured Method: Theoretical

 X Additional Computation Sheets Attached**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:

$$0.8 \text{ cfs} \times 60 \text{ sec/min} \times 60 \text{ min/hr} \times 8 \text{ hr/use} \times 7 \text{ uses/season} = 161,280 \text{ cf/season} = 3.7 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

Application for Permit and Beneficial Use was submitted by J & R Farms. A phone call was made to Roger Williamson to schedule a field exam. Mr. Williamson informed me that the property had been sold since proof was filed to Sunny Slope Farms. Roger gave me the contact information for Sunny Slope. An assignment of permit has not been received, and a change in ownership will need to be pursued after the license is issued in J&R Farms name.

There are two wells identified on the permit and a well log was obtained for both. At the time of the field exam, the company was primarily using the Section 14 well. The Section 13 well had not been operated since Sunny Slope had purchased the land, however evidence of irrigation use suggests the well had been used by the Williamson's for frost protection during the beneficial use period. Overlap review of the diversions finds irrigation WR's 63-2814, 63-2962, 63-8062, 63-8900, 63-10013B, 63-33632, 63-33633 and 63-33634. Legal descriptions on the permit for both diversions are accurate; no amendment required.

63-8900 is an active commercial ground water right for frost protection on much of Sunny Slope property still in the name of Williamson Orchards. This right carries a diversion rate of 1.51 cfs and only overlaps 63-33600 in the SWSW of Section 13.

It is believed that the application was originally filed in 2011 to provide frost protection to land recently purchased by J & R Farms and not already covered by existing commercial right 63-8900. The 0.80 cfs is a rate easily achieved by the two wells, especially when combined. See attached theoretical sheets for more information. When considering the 1.51 cfs already licensed, the two combine for a reasonable diversion rate of 2.31 cfs. There is not an easily accessible location to perform a flow test on the system without excavating pipe. The theoretical flow rates indicate that the 2.31 combined commercial rate is easily achieved by both wells.

An automated frost protection system is in place to spray fruit trees whenever the temperature reaches 31 degrees early in the fruit growing season. At the time of the field exam, the farm had run for frost protection only twice this season. Last season it ran six times and up to seven in years past according to Sean. If the system ran at eight hours per use, and was used seven times in a season, the 0.80 cfs diversion rate will produce a total volume of 3.7 af.

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>
COMMERCIAL	03/01 to 05/20	0.80 CFS	3.7 AF
	<u>Totals:</u>	0.800 CFS	3.70 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 ☐ None

I. AUTHENTICATION

Field Examiner's Name David Wiley Date 4-5-2016

Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33600
 Reviewer: Patrick Kelly
 Date of Review: 4/5/2016

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	75	75	75
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	120	200	300
DISCHARGE PRESSURE	70	70	70
RATE OF FLOW (cfs)	1.64	1.28	1.00 1.31
PUMP HORSEPOWER	150	150	150
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	120	200	300
DISCHARGE PRESSURE	70	70	70
RATE OF FLOW (cfs)	3.28	2.55	2.00 2.61

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

A 75 and 150 hp pump is installed on two wells. A range of pumping levels were assumed using well log information. A discharge pressure of 70 psi was used based on gauges found on the system ranging from 65-80 psi. Theoretical average flow rate is 1.31 and 2.61 cfs.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER
Name RUGER WILLIAMSON
Address 14252 SUNNYSLOPE CALDWELL 83605
Drilling Permit No. 63-92-C-153-005
Water Right Permit No. 63-10013

2. NATURE OF WORK NEW WELL
☐ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase ☐ Modification
☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)

3. PROPOSED USE IRRIGATION
☐ Domestic ☐ Irrigation ☐ Monitor
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED REVERSE ROTARY
☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary
☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)

5. WELL CONSTRUCTION SEE ATTACHED
Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____
Thickness _____ Diameter _____ From _____ To _____
_____ inches _____ inches + _____ feet _____ feet
_____ inches _____ inches _____ feet _____ feet
_____ inches _____ inches _____ feet _____ feet
Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation? _____ inches by _____ inches
Number _____ From _____ To _____
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet
_____ perforations _____ feet _____ feet
Well screen installed? ☒ Yes ☐ No
Manufacturer ROSCOE MOSS Type VEE WIRE
Top Packer or Headpipe _____
Bottom of Tailpipe _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Gravel packed? ☒ Yes ☐ No ☐ Size of gravel 3/8
Placed from 505 feet to 135 feet
Surface seal depth 135 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit
☐ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded
☐ Solvent Weld ☐ Cemented between strata
Describe access port 2" PIPE

6. LOCATION OF WELL
Sketch map location must agree with written location.
Subdivision Name _____
Lot No. _____ Block No. _____
County CANYON
Address of Well Site CHICKEN DINNER RD
(give at least name of road)
T. 2N N ☐ or S ☐
R. 4W E ☐ or W ☐
NE 1/4 SE 1/4 Sec. 14

7. WATER LEVEL 95
Static water level _____ feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA NOT AVAILABLE
☐ Pump ☐ Bailor ☐ Air ☐ Other _____
Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____

9. LITHOLOGIC LOG

Bore Diam.	Depth		Material	Water	
	From	To		Yes	No
28	0	6	TOPSOIL		X
	6	17	HARDPAN		X
	17	21	BURNT CLAY		X
	21	27	BRN CLAY & SANDSTONE		X
	27	50	FINE TO CRSE SAND		X
	50	89	LITE BRN CLAY		X
	89	102	FINE TO CRSE BRN SAND	X	
	102	105	LITE BRN CLAY		X
	105	113	FINE TO CRSE SAND		X
	113	115	LITE BRN CLAY		X
	115	151	FINE TO CRSE SAND		X
	151	235	BRN CLAY		X
	235	267	GREY CLAY	X	
	267	317	FINE TO CRSE SAND & PEA		
			GRAVEL	X	
	317	320	LITE BRN SHALE		X
	320	326	FINE TO CRSE SAND & PEA		
			GRAVEL	X	
	326	369	BLUE CLAY		X
	369	382	FINE TO MED SAND	X	
	382	400	BLUE CLAY		X
	400	402	FINE SAND	X	
	402	420	GREY CLAY		X
	420	437	FINE SAND & SHALE BALLS	X	
	437	505	GREY CLAY & SHALE		X

10. Work started 7/23/92 finished 7/27/92

11. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were
complied with at the time the rig was removed.
Firm Name PETE COPE DRILLING Firm No. 213
Address 6505 W CHINDEN Date 7/29/92
Signed by Drilling Supervisor Joseph Jones
and Kevin Chastain
(Operator) Kevin Chastain
(If different than the Drilling Supervisor)

C

pg 2 of 2

WILLIAMSON FRUIT RANCH
 14252 SUNNY SLOPE ROAD
 CALDWELL ID 83605
 Permit# 63-92-C-153

"16" casing record .250 wall welded

2	-	285	287
325	-	365	40
385	-	425	40
445	-	458	13

 380 total casing

16" Screen record .40 slot Roscoe Moss Continuous wire.

285	-	325	40
365	-	385	20
425	-	445	20

 80 total screen

460 total screen+casing

6" Casing Record .250 Wall Welded

1.5	-	299	300.5
309	-	319	10

 310.5

6" Screen Record .35 Slot Stainles Houston Continuous wire

299	-	309	10
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 10

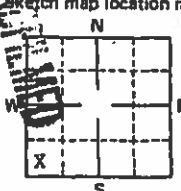
320.5 total casing + screen

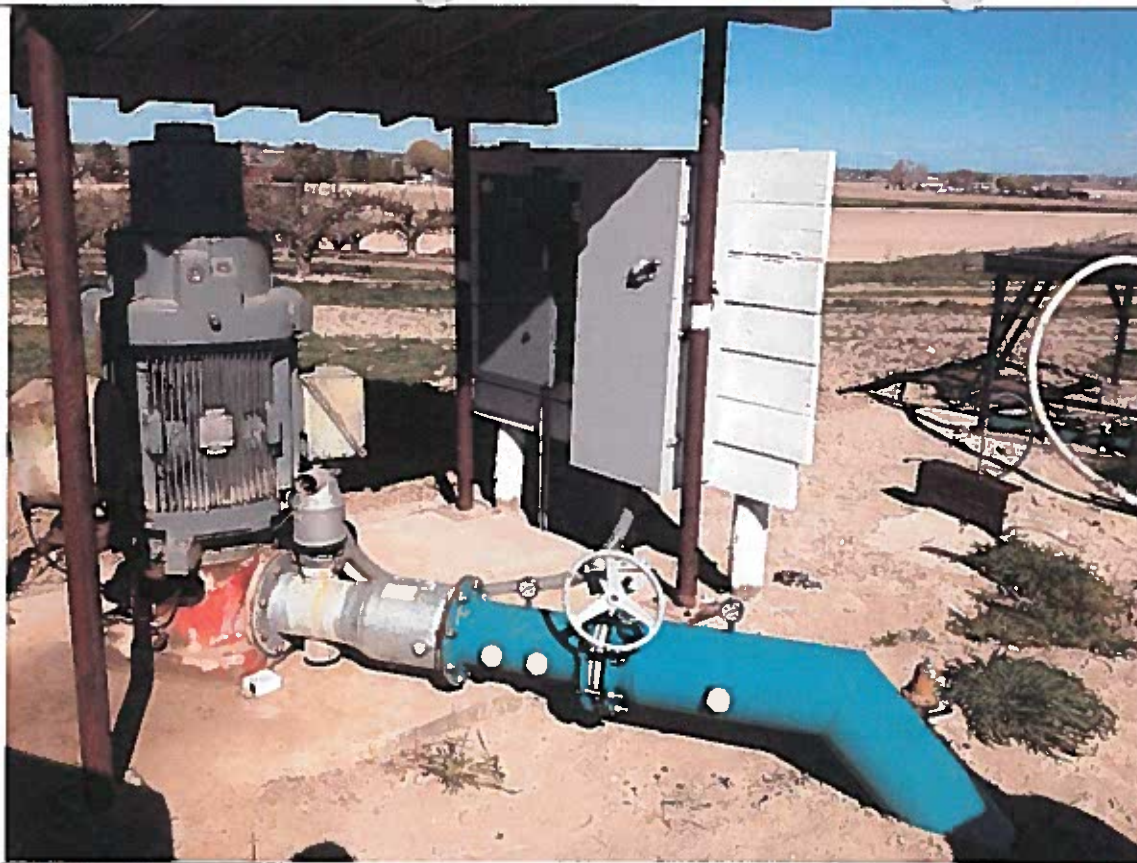
3N 4W SEC 14

DEC 04 1992

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Williamson Orchards</u> Address <u>Rt. 4, Caldwell, Idaho 83605</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>68</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____																																																																																																																																																				
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☐ Baller ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</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.	Pumping Level	Hours Pumped																																																																																																																																																	
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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG 88930 <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>28</td><td>0</td><td>2</td><td>Sandy Topsoil</td><td> </td><td> </td></tr><tr><td> </td><td>2</td><td>18</td><td>Brn. & White Clay w/some Sand</td><td> </td><td> </td></tr><tr><td> </td><td>18</td><td>24</td><td>Sand, Gravel, River Rock</td><td> </td><td> </td></tr><tr><td> </td><td>24</td><td>28</td><td>Brn. Clay</td><td> </td><td> </td></tr><tr><td> </td><td>28</td><td>108</td><td>Brn. Sand w/streaks of Clay</td><td> </td><td> </td></tr><tr><td> </td><td>108</td><td>114</td><td>Brn. Sand-Fine to Med.</td><td> </td><td> </td></tr><tr><td> </td><td>114</td><td>118</td><td>Brn. Clay</td><td> </td><td> </td></tr><tr><td> </td><td>118</td><td>120</td><td>Sand-Fine to Med.</td><td> </td><td> </td></tr><tr><td> </td><td>120</td><td>128</td><td>Brn. Clay w/streaks of Sand</td><td> </td><td> </td></tr><tr><td> </td><td>128</td><td>133</td><td>Brn. Clay</td><td> </td><td> </td></tr><tr><td> </td><td>133</td><td>135</td><td>Sand-Fine to Med.</td><td> </td><td> </td></tr><tr><td> </td><td>135</td><td>152</td><td>Brn. Clay</td><td> </td><td> </td></tr><tr><td> </td><td>152</td><td>156</td><td>Sand-Fine</td><td> </td><td> </td></tr><tr><td> </td><td>156</td><td>158</td><td>Brn. Clay w/Sand streaks</td><td> </td><td> </td></tr><tr><td> </td><td>158</td><td>168</td><td>Brn. Sand-Fine to Med.</td><td> </td><td> </td></tr><tr><td> </td><td>168</td><td>178</td><td>Brn. Sand-Med. to Crse.</td><td> </td><td> </td></tr><tr><td> </td><td>178</td><td>206</td><td>Brn. Clay w/streaks of Sand</td><td> </td><td> </td></tr><tr><td> </td><td>206</td><td>213</td><td>Blue Clay</td><td> </td><td> </td></tr><tr><td> </td><td>213</td><td>217</td><td>Blue Sand-Fine</td><td> </td><td> </td></tr><tr><td> </td><td>217</td><td>234</td><td>Blue Clay</td><td> </td><td> </td></tr><tr><td> </td><td>234</td><td>240</td><td>Blue Sand-Fine to Med.</td><td> </td><td> </td></tr><tr><td> </td><td>240</td><td>258</td><td>Blue Clay w/streaks of Sand</td><td> </td><td> </td></tr><tr><td> </td><td>258</td><td>278</td><td>Blue Clay</td><td> </td><td> </td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	28	0	2	Sandy Topsoil				2	18	Brn. & White Clay w/some Sand				18	24	Sand, Gravel, River Rock				24	28	Brn. Clay				28	108	Brn. Sand w/streaks of Clay				108	114	Brn. Sand-Fine to Med.				114	118	Brn. Clay				118	120	Sand-Fine to Med.				120	128	Brn. Clay w/streaks of Sand				128	133	Brn. Clay				133	135	Sand-Fine to Med.				135	152	Brn. Clay				152	156	Sand-Fine				156	158	Brn. Clay w/Sand streaks				158	168	Brn. Sand-Fine to Med.				168	178	Brn. Sand-Med. to Crse.				178	206	Brn. Clay w/streaks of Sand				206	213	Blue Clay				213	217	Blue Sand-Fine				217	234	Blue Clay				234	240	Blue Sand-Fine to Med.				240	258	Blue Clay w/streaks of Sand				258	278	Blue Clay		
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☒ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	10. Work started <u>11-10-80</u> finished <u>11-18-80</u>																																																																																																																																																				
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <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><u>.250</u> inches</td><td><u>16</u> inches</td><td><u>2</u> feet</td><td><u>118</u> feet</td></tr><tr><td><u>.250</u> inches</td><td><u>16</u> inches</td><td><u>178</u> feet</td><td><u>213</u> feet</td></tr><tr><td><u>.250</u> inches</td><td><u>16</u> inches</td><td><u>253</u> feet</td><td><u>263</u> feet</td></tr></tbody></table> Was casing drive shoe used? ☐ Yes ☒ No 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 <u>Roscoe Moss</u> Type _____ Model No. _____ Diameter <u>16</u> Slot size <u>80</u> Set from <u>118</u> feet to <u>178</u> feet Diameter <u>16</u> Slot size <u>80</u> Set from <u>213</u> feet to <u>253</u> feet Gravel packed? ☒ Yes ☐ No ☐ Size of gravel <u>3/8 minus</u> Placed from <u>26</u> feet to <u>278</u> feet Surface seal depth <u>26'</u> Material used in seal: ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>2" pipe welded on side of casing</u>	Thickness	Diameter	From	To	<u>.250</u> inches	<u>16</u> inches	<u>2</u> feet	<u>118</u> feet	<u>.250</u> inches	<u>16</u> inches	<u>178</u> feet	<u>213</u> feet	<u>.250</u> inches	<u>16</u> inches	<u>253</u> feet	<u>263</u> feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Pete Cope Drilling Co., Inc.</u> Firm No. <u>213</u> Address <u>Meridian, ID 83642</u> Date <u>12-10-80</u> Signed by (Firm Official) <u>Pete Cope</u> and (Operator) <u>Jessie Jones</u>																																																																																																																								
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> <u>SW</u> <u>1/4</u> <u>SW</u> <u>1/4</u> Sec. <u>13</u> T. <u>3N</u> N/S, R. <u>4W</u> E/W.	USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT																																																																																																																																																				



"West Well" in
NESE Sec 14.

150 hp GE motor.

Pump info not
provided.



GE Motor tag for
West Well.



"East Well" in
SWSW of Section
13.

75 hp US Electrical
Motor.

Pump info not
provided.



US Electircal
Motor tag for East
Well.



1.25" PVC lines
run from mainline
to spray nozzles
throughout fruit
fields.