

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 13-7180

Exam Date: 7/31/2013

1. Current Owner: CLARK COX
5935 W OXFORD CREEK RD
CLIFTON ID 83228
(208)339-2638

2. Accompanied by: Clark Cox

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 13-2218, Oxford Res. & Irrig. Co. shares, Rockslide Cr. water
2. Other water rights with the same point of diversion: 13-2218

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER	SW1/4NW1/4	Sec. 20, Twp 13S, Rge 38E, B.M.	FRANKLIN County
GROUND WATER	SE1/4SE1/4	Sec. 17, Twp 13S, Rge 38E, B.M.	FRANKLIN County

Method of Determination: GPS / Site Visit

2. PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
13S 38E 16											40.0						40.0
13S 38E 17																38.5	38.5
13S 38E 20			16.0				26.0	36.0									78.0

Total Acres: 156.5

Method of Determination: Aerial photography (1992 – 2011) / Site Visit

** At the time this field report was completed, the PLS layer in IDWR's ArcMap files was shifted significantly from the visible fences and property boundaries. It is unknown whether the most recent BLM survey in this area is accurate. The acres per QQ designated in the place of use description listed above is based on visible fence lines and property boundaries, not on the current PLS grid.

3. Diversion Information

Well #1:

Pump/motor removed 10 years ago.
IDWR Tag # A0010949
According to documents from water right file for 13-2218, well is 200 feet deep
Static water level about 60 feet below land surface.
Pump was set at 180 feet below land surface.

Well #2:

IDWR Tag # A0010948
Current motor = Deutz Air Diesel, 141 hp, installed in 2013 irrigation season.
Diesel motor was not operable at the time of field exam.
Previous motor = International Harvester Propane
Serial No. 6812, Model No. 605AU69562
Unknown hp, no face plate on motor
Well log from IDWR states well = 200 feet deep

D. FLOW MEASUREMENTS

No measurements possible during field exam. Well #1 pump has been removed. Well #2 pump inoperable at the time of the exam.

Well #1 was measured in 1970 during a field exam for 13-2218. Examiner calculated flow rate of 0.57 cfs.

E. FLOW CALCULATIONS

156.5 irrigated acres found. Using the standard rate/acre demand, $156.5 \text{ acres} \times 0.02 \text{ cfs per acre} = 3.13 \text{ cfs}$.
Theoretical calculations (attached) show a system capacity in excess of 3.13 cfs.
Right 13-2218 authorizes the diversion of 0.57 cfs. License 13-7180 will be issued for the remaining 2.56 cfs.

F. VOLUME CALCULATIONS

Standard volume for area = 3.5 acre-feet / acre

$156.5 \text{ acres} \times 3.5 \text{ af/acre} = 548 \text{ af}$

Licensed rate can produce volume: $2.56 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 1,087 \text{ af}$

** Rights 13-7180 and 13-2218 when combined are limited to 156.5 irrigated acres and 548 acre-feet.

G. NARRATIVE

Two ground water wells were developed under Permit 13-7180. Well #1 is located in the SESE of Section 17. IDWR Tag A0010949. IDWR does not have a well log for this well. Main line runs from the well out to the irrigated acres. Current owner, Clark Cox, says the pump was pulled out of the well about 10 years ago and has not been replaced. He did not know the size of the pump. Well is over 200 feet deep. Pump was set at 180 feet. Water is approximately 60 feet below land surface.

Water right 13-2218 lists Well #1 as the authorized POD under the right. Field exam was conducted in 1970 for right 13-2218. Examiner measured the well at 0.57 cfs. At that time, there was a 40 hp Johnston Pump with a US Motors motor. Pressure gage was used to calculate diversion rate.

Well #2 is located in the SWNW of Section 20. IDWR Tag A0010948. Water has been pumped using an International Harvester Propane Pump (Ser #6812, Model #605AU69562). Propane motor was replaced with a Diesel motor earlier this year. Deutz Air Diesel Motor (141 hp). This well was completed in 1980. Pumping level at the time of well completion was 165 feet. Diesel pump was broken at the time of field exam.

License 13-7180 and right 13-2218 will be limited to standard rate per acre (0.02 cfs / acre). This equates to 3.13 cfs. Assuming 40 hp / 110 hp pumps, a pumping level of 165 feet, and a delivery pressure of 50 psi, the theoretical capacity of both wells is 3.3 cfs. Right 13-2218 already covers 0.57 cfs of the standard demand. Permit 13-7180 authorizes the diversion of 3.00 cfs. License 13-7180 will be issued for the remaining 2.56 cfs.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	2.560 CFS	548.00 AF
	<u>Totals:</u>	2.560 CFS	548.00 AF

2. Recommended Amendments

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

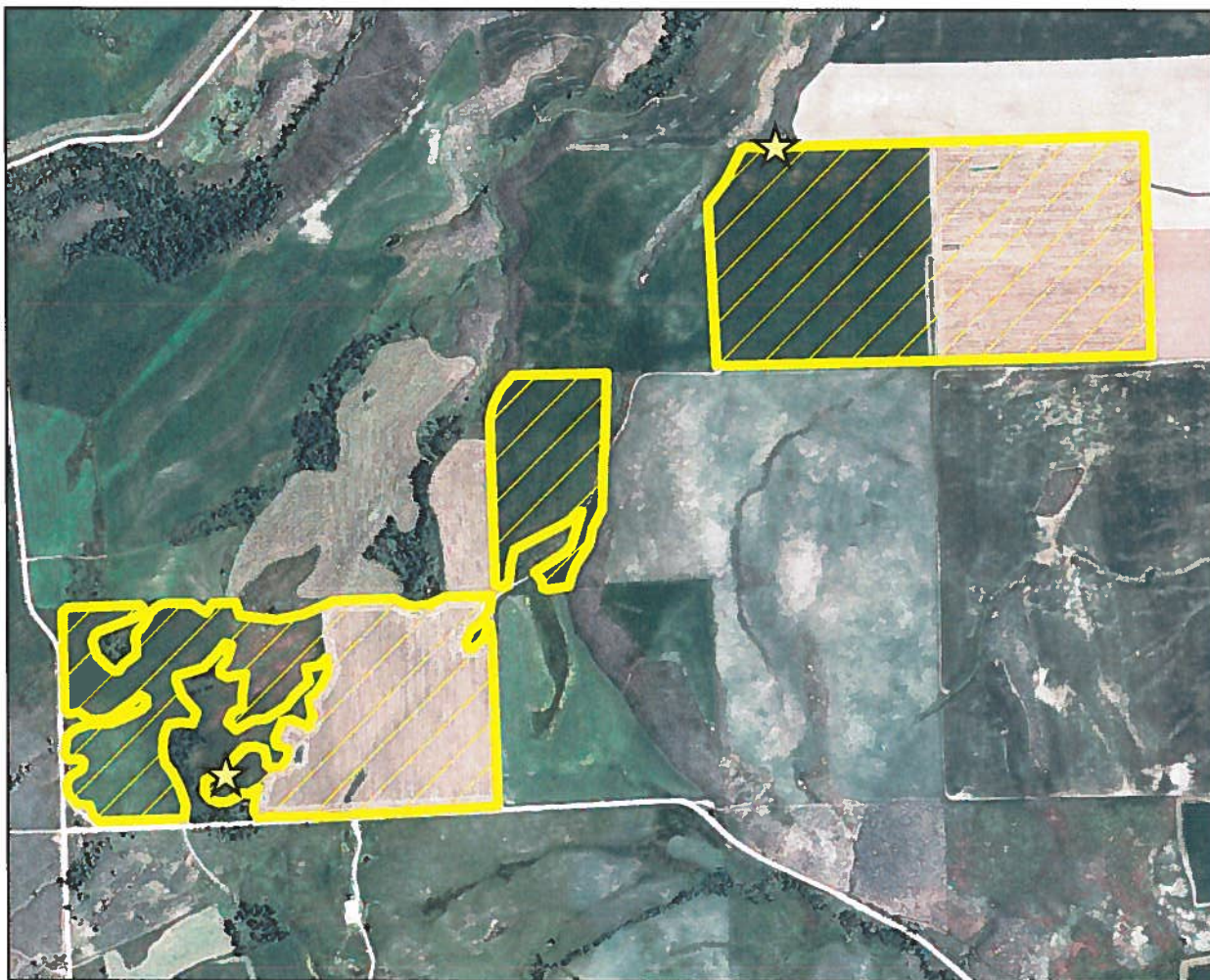
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

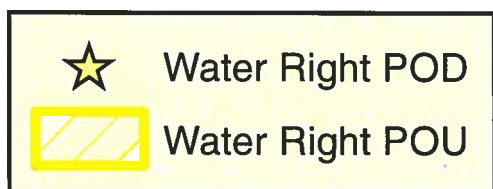
Field Examiner's Name James Cefalo Date 9/6/2013

Reviewer _____ Date _____

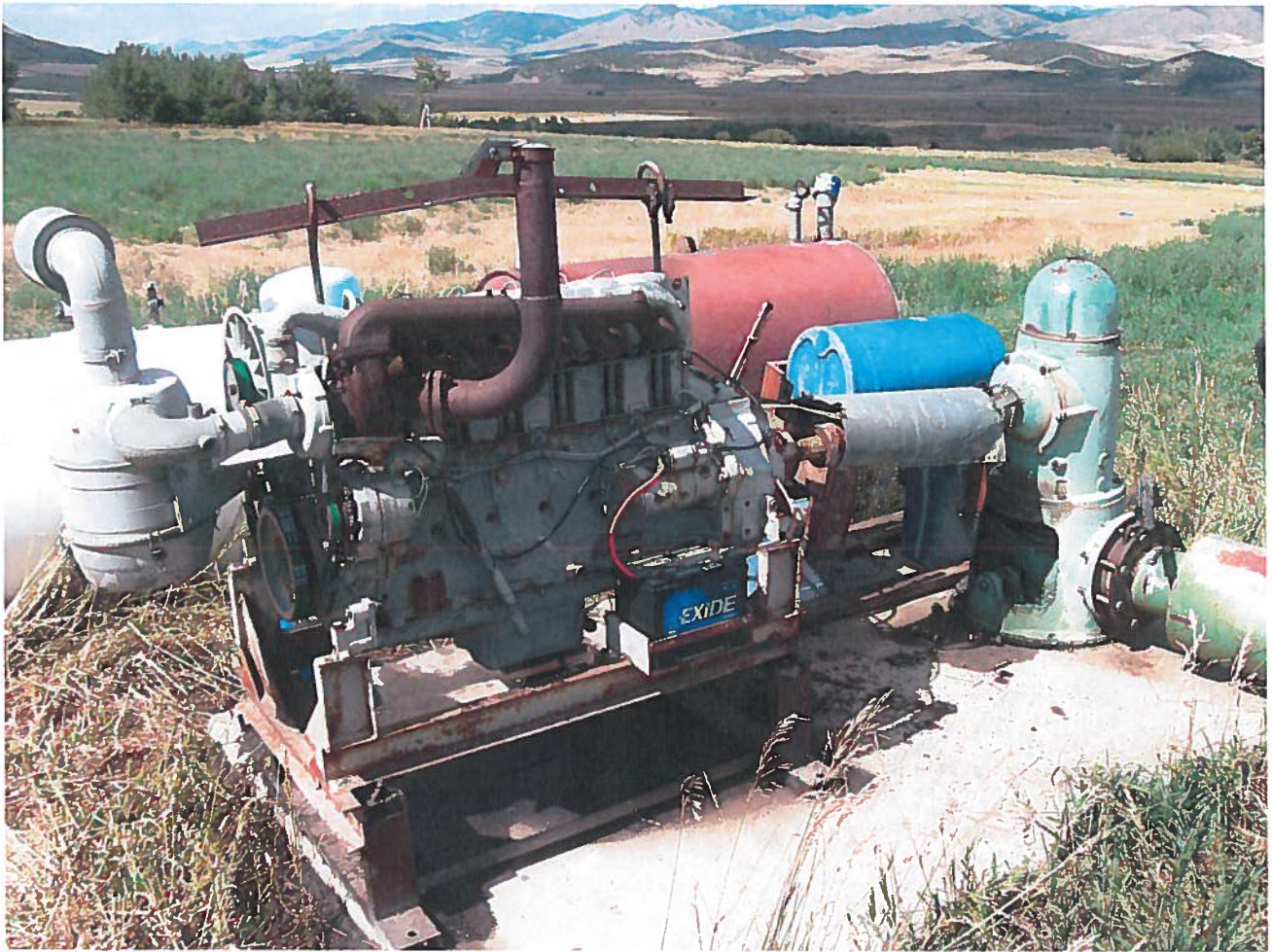
Water Right License 13-7180 (Cox)

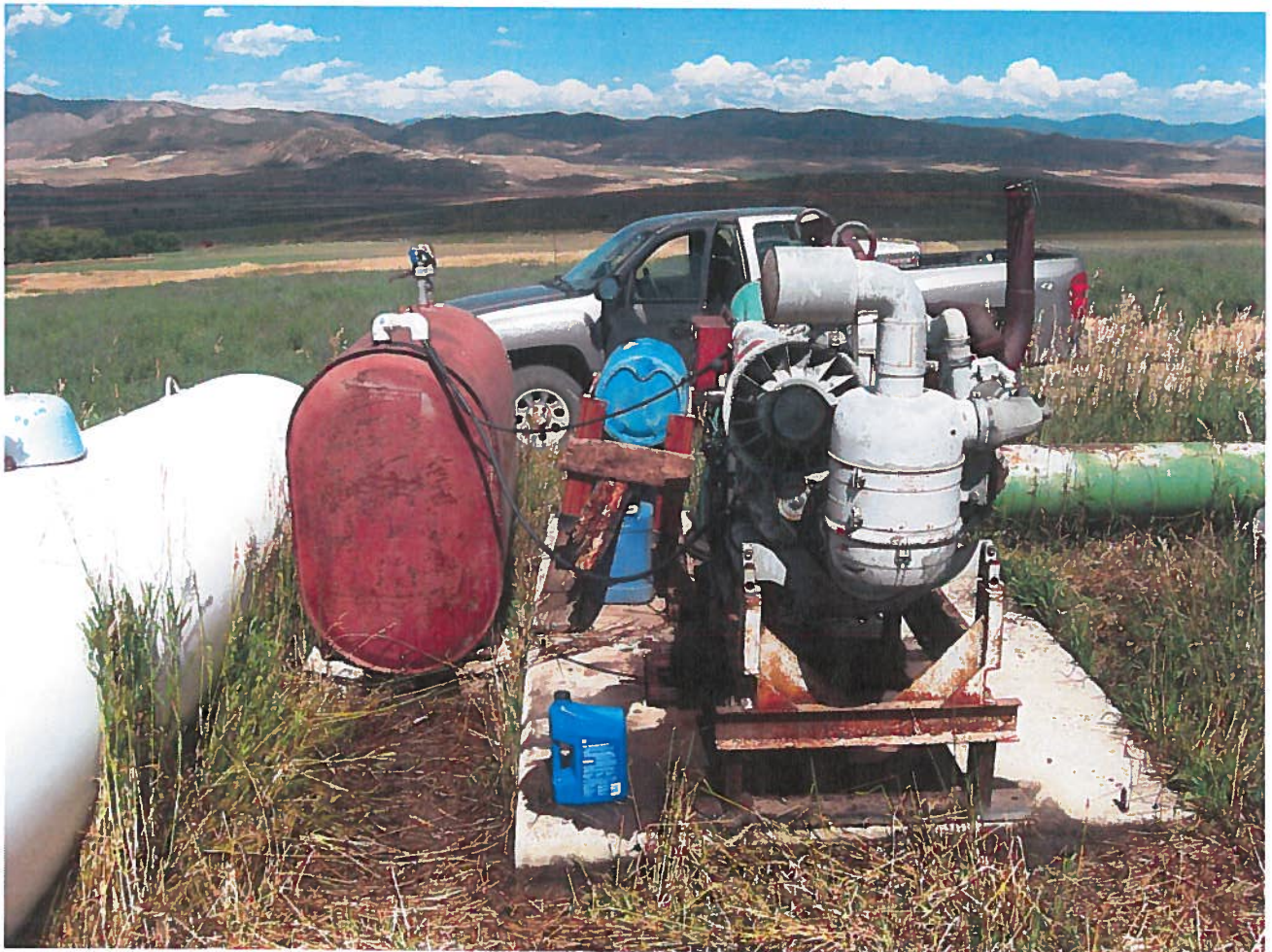


2009 Aerial Photography









THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 13-7180
 Reviewer: J Cefalo
 Date of Review: 7/31/2013

P/D No.:	Well #1	Well #2	Total
PUMP HORSEPOWER	40	110	0
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	165	165	0
DISCHARGE PRESSURE	50	50	0
RATE OF FLOW (cfs)	0.88	2.42	3.29

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: 156.5 Irrigated acres x 0.02 cfs per acre = 3.13 cfs
 Theoretical capacity of system (using conservative assumptions) exceeds standard rate/acre

State of Idaho
Department of Water Administration

LICENSE OF WATER RIGHT

License of Water Right No. 28957/13-2218 Priority August 23, 1960 Amount 0.57 cfs

THIS IS TO CERTIFY, that DOUGLAS LEE FISHER
of Oxford, Idaho, has complied with the terms and conditions of Permit
No. 28957/13-2218 issued pursuant to Application for Permit dated August 23, 1960,
and has submitted proof to the Department of Water Administration on August 10, 1965,
that he has applied water to a beneficial use; an examination by the Department indicates that the
works have a capacity of 0.57 cfs, and that the water has in fact been applied to a
beneficial use; a right to the use of water from a ground water source
tributary of _____, is hereby confirmed in the following amounts:
Amount 0.57 cfs for irrigation from April 1 to Nov. 1 (both dates inclusive)
Amount _____ for _____ from _____ to _____ (both dates inclusive)
Amount _____ for _____ from _____ to _____ (both dates inclusive)
Subject, however, to the condition that no more than 0.57 cfs of water be diverted at
any one time, said waters to be diverted within the _____

SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 17, Twp. 13 S, Rge. 38 E, B.M.

in the county of Bannock; and that the amount of water so diverted and to which such
right is entitled and confirmed is for the purposes aforesaid and is limited to the amount which can
actually be beneficially used and shall not exceed 242 acre feet per year or _____
3.5 acre feet per acre.

Description and location of place of use:

TWP.	RANGE	SEC.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTALS
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
13 S	38 E	16										40							40
		17															40		40
		20		20															20

Total number of acres irrigated 100

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands
or place of use herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 16 day of

June, 19 72.


Director

13 2218

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO
REPORT OF EXAMINER

Permit No. G-28957/43-2218

This proof is for Completion of Works & Beneficial Use In Water District No. _____

1. Name of applicant Douglas Lee Fisher ✓ 747-2289

2. Source of water supply: well ✓

3. Location of point of diversion: Is in the SE 1/4 ✓ of Section 17 ✓

T. 13 S ✓ R. 38 E ✓ County of Bannock ✓

4. Describe works as they exist, giving dimensions and capacities of same: 0.5 motors

1247429 40 HP Johnston pump JS-3075

5. Water is used for: Irrigation ✓

6. State whether or not water has been turned into works of diversion: Yes ✓

7. List legal subdivisions of lands to be irrigated. If proof is for beneficial use, give exact number of acres under cultivation in each forty-acre tract. (Describe manner and place of use if other than irrigation):

SW 1/4, Section 16, SE 1/4, Section 17, NW 1/4, SW 1/4, SE 1/4, Section 20
all in T. 13 S., R. 38 E. B. M.

(Submit map on attached plat, showing location and details of above description.)

8. What large stream would the water here appropriated finally reach? _____

Remarks: Measured spirit with pressure gauge.

Portable man line used for level in Sec 20

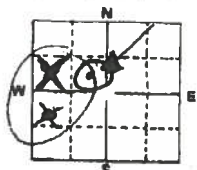
This examination was made on the 7 day of July, 1970

(Signed) William Selous
Examiner.

In Microfilm
JUN 27 1980
Revised Ed
983.

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>Eugene Fisher</u> Address <u>Bozard Idaho</u> Owner's Permit No. <u>13-7180</u>		7. WATER LEVEL Static water level _____ feet below land surface Flowing? ☒ Yes ☐ No G.P.M. flow <u>35</u> 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 Discharge G.P.M. <u>700</u> Draw Down <u>165</u> Hours Pumped _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
3. PROPOSED USE ☒ Domestic ☒ Irrigation ☐ Test ☐ Other (specify type) ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection		9. LITHOLOGIC LOG 081066																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other		<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>20</td><td>0</td><td>6</td><td>Top soil</td><td></td><td>X</td></tr><tr><td>6</td><td>6</td><td>60</td><td>Gravelly sand</td><td></td><td>X</td></tr><tr><td>6</td><td>60</td><td>65</td><td>Shale</td><td></td><td>X</td></tr><tr><td>6</td><td>65</td><td>120</td><td>Gravelly sand</td><td></td><td>X</td></tr><tr><td>120</td><td>120</td><td>150</td><td>Gravelly sand</td><td></td><td>X</td></tr><tr><td>120</td><td>150</td><td>160</td><td>Gravelly sand</td><td></td><td>X</td></tr><tr><td>120</td><td>160</td><td>170</td><td>Gravelly sand</td><td></td><td>X</td></tr><tr><td>120</td><td>170</td><td>180</td><td>Gravelly sand</td><td></td><td>X</td></tr><tr><td>120</td><td>180</td><td>190</td><td>Gravelly 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5. WELL CONSTRUCTION Diameter of hole <u>20</u> inches Total depth _____ feet Casing schedule: ☒ Steel ☐ Concrete Thickness _____ inches Diameter _____ inches From _____ feet To _____ feet <u>250</u> inches <u>20</u> inches + <u>1</u> feet <u>60</u> feet <u>250</u> inches <u>16</u> inches _____ feet <u>190</u> feet _____ 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 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 _____ 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 depth <u>20</u> Material used in seal ☐ Cement grout ☒ Puddling clay ☐ Well cuttings Sealing procedure used ☐ Sherry pit ☐ Temporary surface casing ☒ Overbore to seal depth		10. DRILLERS CERTIFICATION Firm Name <u>Captain & Son</u> Firm No. <u>1415</u> Address <u>Bozard Idaho</u> Date <u>June 25 1980</u> Signed by (Firm Official) <u>J. A. Cagle</u> and (Operator) <u>Robert J. Cagle</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
6. LOCATION OF WELL Sketch map location must agree with written location  Subdivision Name _____ Lot No. _____ Block _____ County <u>FRANKLIN</u> <u>500</u> <u>1/4</u> NW <u>1/4</u> Sec. <u>20</u> T. <u>13</u> S. R. <u>38</u> E. W.		11. RECEIVED JUL 1 1980 Department of Water Resources Eastern District Office																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							