

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10984

Exam Date: 8/13/2015

1. Current Owner: FRANZ VISOUL
2304 E VENTURE TRAIL
HARRISON ID 83833
(208)765-1555

And/Or

DIANE VISOUL
2304 E VENTURE TRAIL
HARRISON ID 83833
(208)765-1555

2. Accompanied by: Diane and Franz Visoul

3. SOURCE

UNNAMED STREAM

TRIBUTARY

TURNER CREEK

B. OVERLAP REVIEW

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

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

UNNAMED STREAM SW1/4NW1/4 Sec. 29, Twp 49N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD located at 47° 33.864, 116° 45.841

2.

PLACE OF USE: IRRIGATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
49N 03W 29	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
							X										

PLACE OF USE: IRRIGATION FROM STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
49N 03W 29	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
							.3										.3

Total Acres: 0.3

PLACE OF USE: RECREATION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
49N 03W 29	<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>	
							X										

PLACE OF USE: AESTHETIC STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
49N 03W 29	<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>	
							X										

PLACE OF USE: WILDLIFE STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
49N 03W 29	<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>	
							X										

PLACE OF USE: FIRE PROTECTION STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
49N 03W 29	<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>	
							X										

DIVERSION TO STORAGE same as FIRE PROTECTION STORAGE

Method of Determination: GPS and maps.

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
		1.5			

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. APPLICANT SAID PUMP WAS 1.5 HP AND DIDN'T KNOW WHAT PSI IT RAN AT. IDWR WILL USE 40 PSI FOR THEORETICAL PUMPING EQUATION

$$(1.5 \text{ HP})(8.8)(0.8) / 70 + (40 \times 2.3087) = 0.65 \text{ CFS}$$

ELEVATION RISE OF 70 FEET FROM POD TO POND.

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: SEE ATTACHED POND ANALYSIS SHEET**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED THAT APPLICANT HAD 1.5 HP PUMP IN SMALL CULVERT THAT WAS USED TO DIVERT WATER FROM UNNAMED STREAM TO POND. STREAM WAS DRY DURING FIELD EXAM SO THEORETICAL PUMPING EQUATION WAS USED TO FIND THAT DIVERSION TO STORAGE WAS 0.06 CFS. APPLICANT WAS NOT USING POND ON UNNAMED STREAM FOR IRRIGATION, FIRE PROTECTION, RECREATION, AESTHETIC, OR WILDLIFE. IRRIGATION OCCURRING FROM POND WAS ONLY 0.3 ACRES IN SIZE. SEE ATTACHED POND ANALYSIS SHEET AND THEORETICAL PUMPING EQUATION SHEET.

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>
DIVERSION TO STORAGE	01/01 to 12/31	0.060 CFS	
IRRIGATION STORAGE	01/01 to 12/31		2.60 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		0.90 AF
RECREATION STORAGE	01/01 to 12/31		1.70 AF
AESTHETIC STORAGE	01/01 to 12/31		1.70 AF
WILDLIFE STORAGE	01/01 to 12/31		1.70 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		1.70 AF
<u>Totals:</u>		0.060 CFS	2.60 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 Adam Frydman Date 2-17-2016

Reviewer Beth R. Stankiewicz Date 2-17-2016

State of Idaho
Department of Water Resources
Water Right License
95-10984

Storage



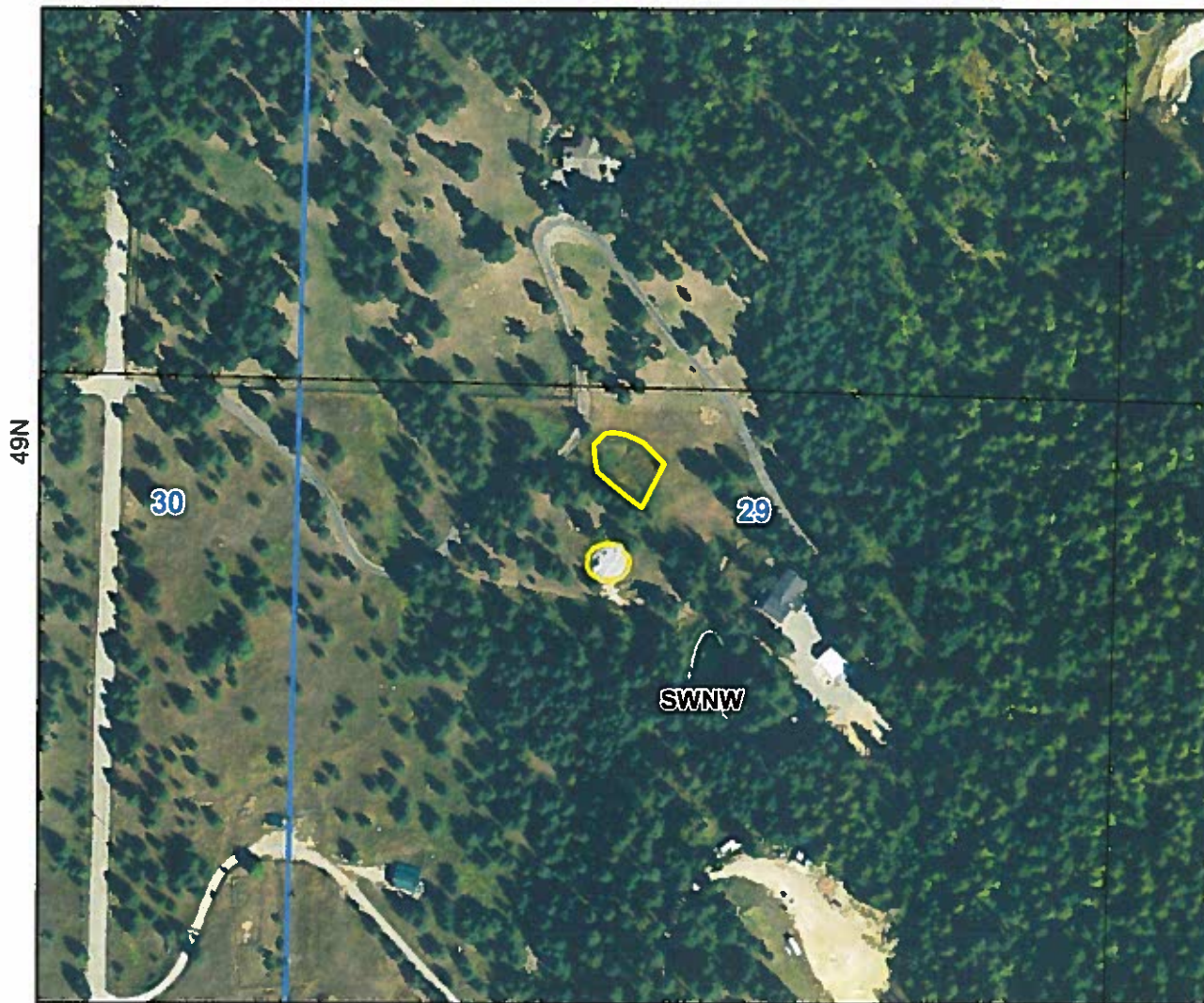
0 0.035 0.07 0.14 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections



State of Idaho
Department of Water Resources
Water Right License
95-10984
Irrigation

03W



0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections



**WATER RIGHT 95-10984
POND ANALYSIS SHEET**

POND SIZE: 0.13 AC X 10 FEET DEEP = 1.3 AF

EVAPORATION: 353 GPD X 365 DAYS / 325,850 GAL/AF = 0.4 AF

SEEPAGE: NO SEEPAGE, CONCRETE LINED POND

IRRIGATION: 0.3 ACRES X 3 AF = 0.9 AF

0.06 CFS DIVERSION TO STORAGE

2.6 AF	IRRIGATION STORAGE	A) POND SIZE	1.3 AF
		B) EVAPORATION	0.4 AF
		C) SEEPAGE	0.0 AF
		D) IRRIGATION	0.9 AF
		TOTAL	2.6 AF

0.9 AF IRRIGATION FROM STORAGE

1.7 AF	RECREATION STORAGE	A) POND SIZE	1.3 AF
		B) EVAPORATION	0.4 AF
		C) SEEPAGE	0.0 AF
		TOTAL	1.7 AF

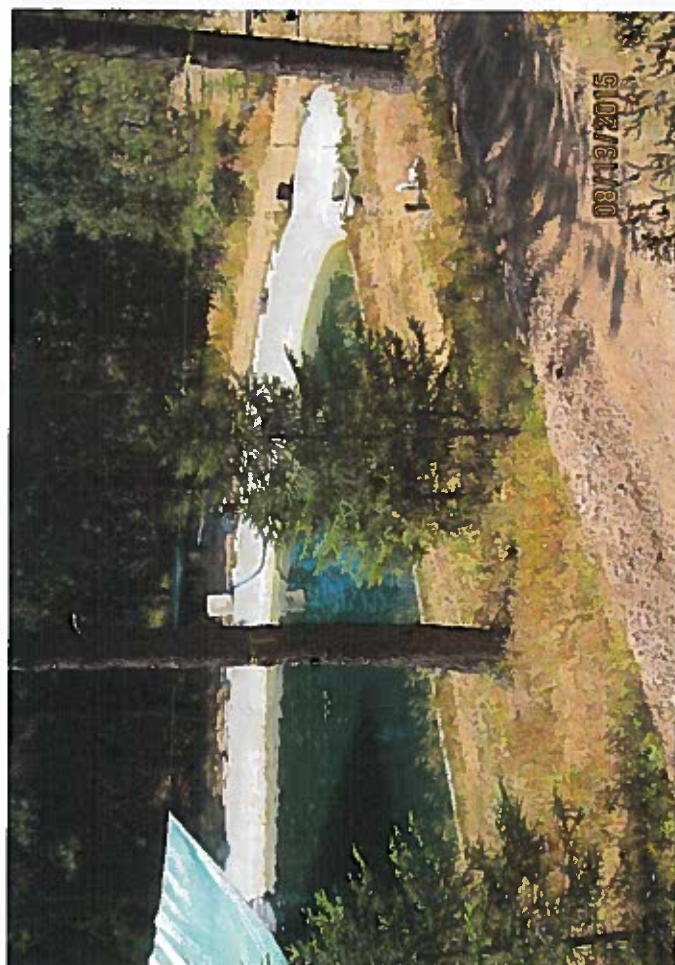
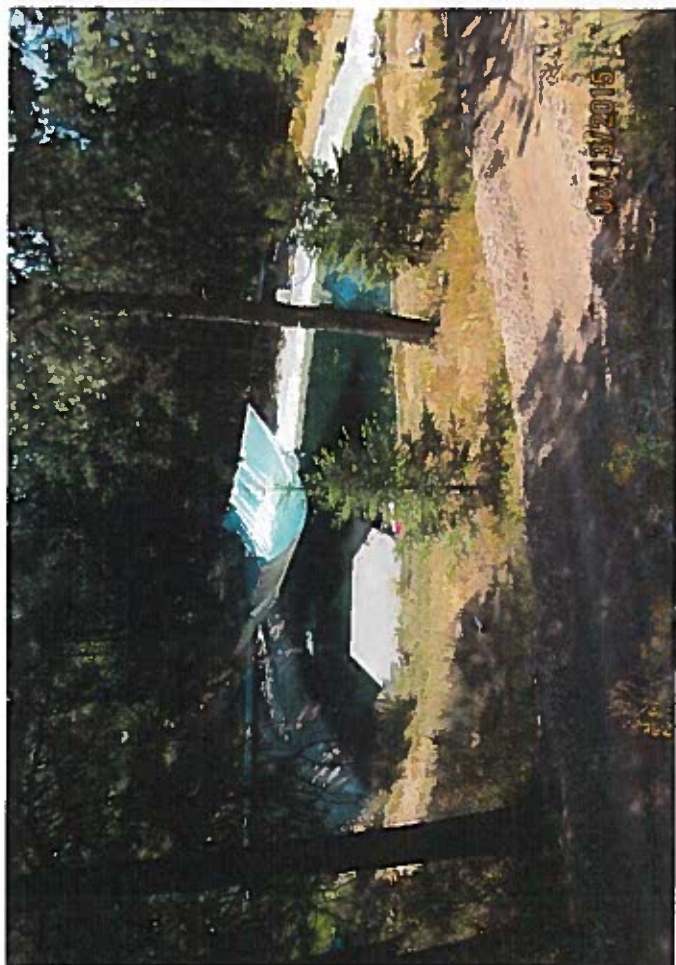
1.7 AF	AESTHETIC STORAGE	A) POND SIZE	1.3 AF
		B) EVAPORATION	0.4 AF
		C) SEEPAGE	0.0 AF
		TOTAL	1.7 AF

1.7 AF	WILDLIFE STORAGE	A) POND SIZE	1.3 AF
		B) EVAPORATION	0.4 AF
		C) SEEPAGE	0.0 AF
		TOTAL	1.7 AF

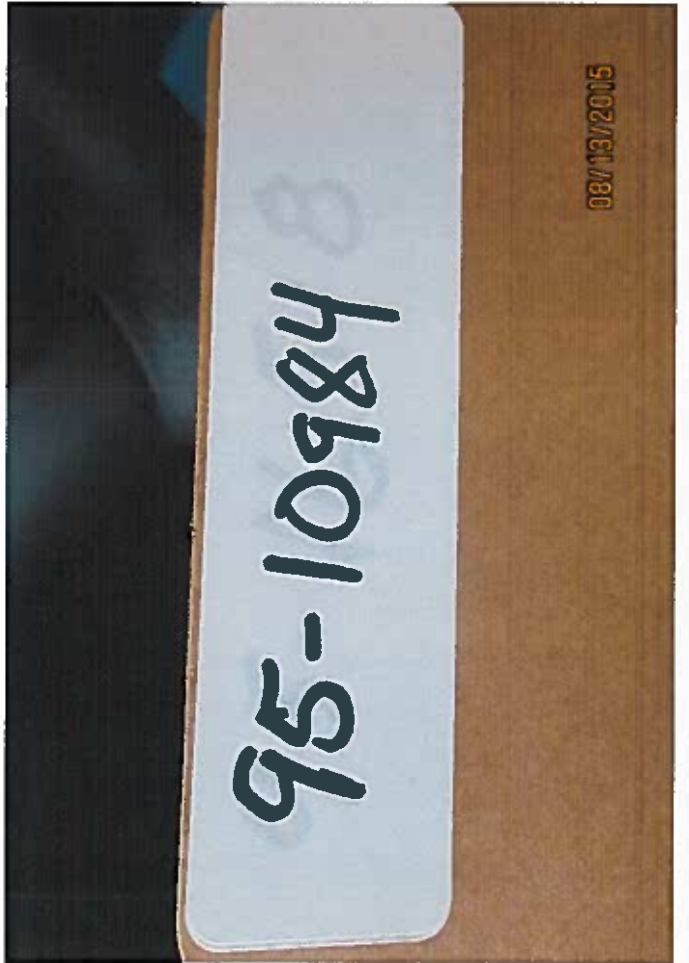
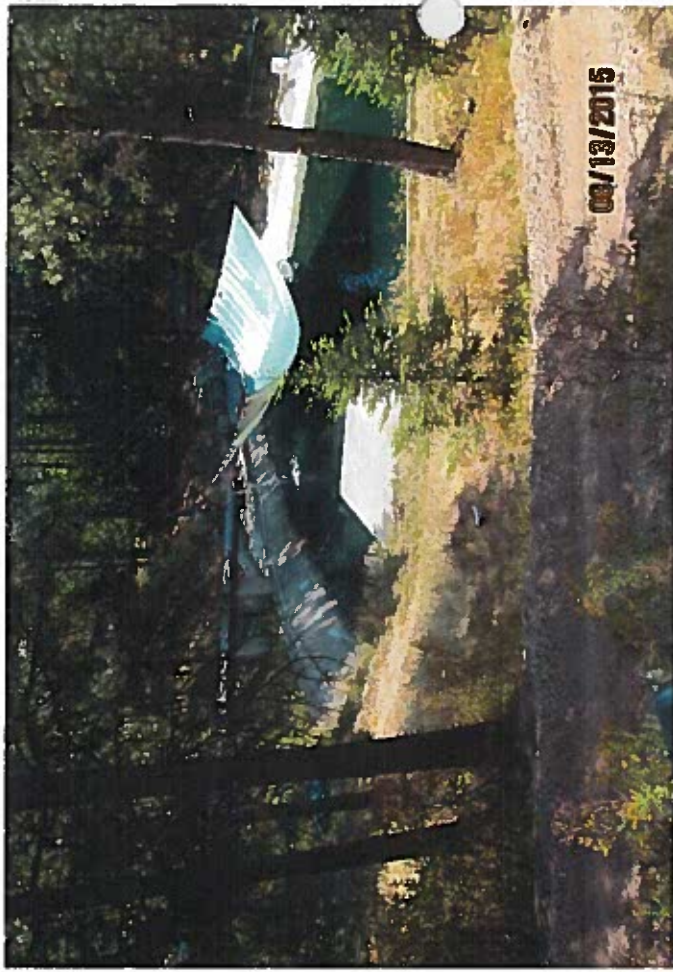
1.7 AF	FIRE PROTECTION STORAGE	A) POND SIZE	1.3 AF
		B) EVAPORATION	0.4 AF
		C) SEEPAGE	0.0 AF
		TOTAL	1.7 AF

THIS IS PUMPING EQUATION FOR DIVERSION TO STORAGE. UNNAMED STREAM WAS DRY SO UNABLE TO PERFORM FLOW MEASUREMENT. APPLICANT SAID HE HAD 1.5 HP PUMP AT UNKNOWN PSI, IDWR WILL ASSUME SYSTEM PRESSURE AT 40 PSI. THERE WAS 70 FEET OF ELEVATION RISE FROM PUMP TO POND.

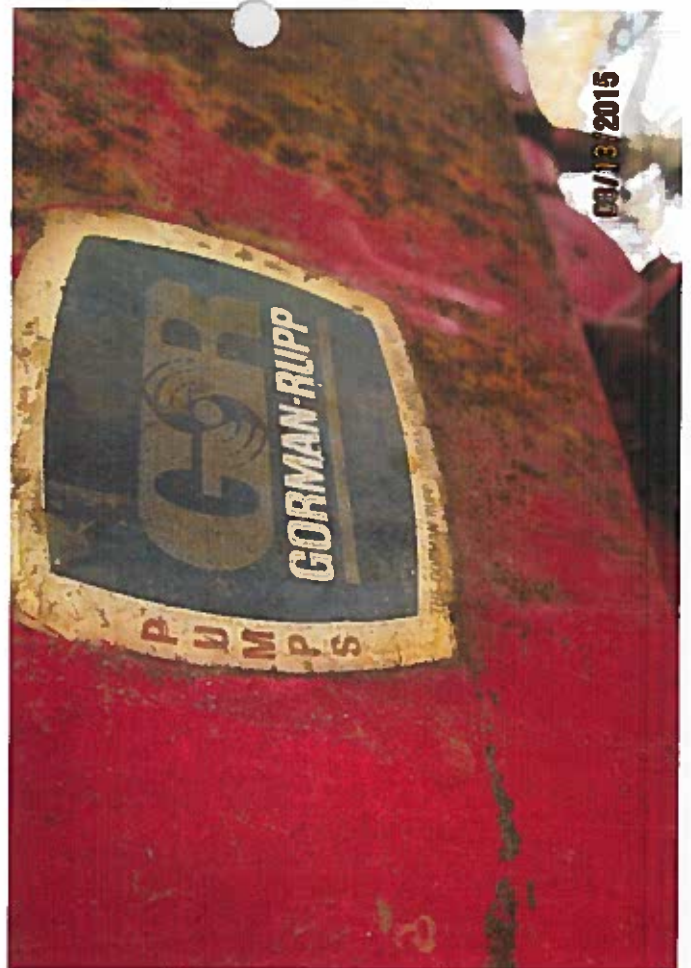
PUMP EQUATIONS WATER RIGHT No.						95-10984
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1.5	162.517	0.8	70	40
Q =		0.065 cfs	29.2 gpm			



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