

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31958

Exam Date: 10/15/2007 and
Revisited : 5/12/2008

1. Current Owner: POLLY J HYDE
PO BOX 9
PARMA ID 83660
(208)674-2414
2. Accompanied by: Paul and Polly Hyde
Phone No:
Address: *Physical Address: 2662 Elmore Rd*
Parma
Relationship to Permit Holder:

3. SOURCE

GROUND WATER

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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW1/4SW1/4 Sec. 12, Twp 06N, Rge 05W, B.M. PAYETTE County

Method of Determination: Field Inspection and Imagery

2.

PLACE OF USE: IRRIGATION and STOCKWATER

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N 05W 12											7.8						7.8

Total Acres: 7.8

Method of Determination:

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

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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>
# 297959		3			

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>
Pressure gage						

2. Measurements:

Two measurements were taken at two different spigots using the pressure gage. The spigots that the measurements were drawn from are the closest to the well in order to determine maximum pressure. Mr. Hyde informed me they only plan on running two spigots out of 8 at one time.

The first spigot gave a pressure reading of 60 psi and the second gave a reading of 45 psi.

E. FLOW CALCULATIONS

60 psi	45 psi
$V = \sqrt{2} \times 32.2 \times 138.6 = 94.477 \text{ ft}^2/\text{sec}$	$V = \sqrt{2} \times 32.2 \times 103.94 = 81.819 \text{ ft}^2/\text{sec}$
$A = \pi 1/8 \text{ in}^2 = 0.0491 \text{ in}^2/144 = 0.000341 \text{ ft}^2$	A=same
$Q = 94.477 \text{ ft}^2 \times 0.000341 \text{ ft} = 0.0322 \text{ cfs}$ or 14.49 gpm	$Q = 81.819 \text{ ft}^2 \times 0.000341 \text{ ft} = 0.0279 \text{ cfs}$ or 12.55 gpm

Capacity: While one spigot was being measured, the other one was fully on, so the two discharge figures will be added together to find capacity. $0.0322 \text{ cfs} + 0.0279 \text{ cfs} = 0.06 \text{ cfs}$ total capacity.

The sprinkler system discharge chart in Appendix A, page 16 of the Field Examiners Handbook lists 3.62 gpm per sprinkler head at 60 psi, so $3.62 \text{ gpm} \times 4 \text{ sprinklers} = 14.48 \text{ gpm}$.

45 psi is 3.13 gpm, so $3.13 \text{ gpm} \times 4 \text{ sprinklers} = 12.52 \text{ gpm}$. These figures are very close to the above calculated discharge for each spigot.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 7.8 \times 4.5 = 35.1 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \text{ cfs} \times 260 \times 1.9835 = 30.9 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 30.9 \text{ af}$$

2. Volume Calculations for Other Uses:

Stockwater volume: ~60 head of mixed livestock = 0.1 af per stock table

G. NARRATIVE/REMARKS/COMMENTS

The diversion system consists of a 1 1/2" buried line leading to 8 different spigots placed 40' apart. From the spigots, a 5/8" garden hose runs down the hill with 4-1/8" nozzle rainbirds attached per hose that are rated to cover a 50' radius. The right holder indicated he plans to run only 2 spigots at one time since that is all the system will support. For stockwater purposes, they have 50 miniature horses, 6 goats, and 3 llamas.

POD: Only one well was developed at time of the field exam. Paul indicated they wouldn't drill another one unless it was in need.

POU: I spoke with the county assessor's office in Payette County and verified that the Hyde's now own the lot to the south of them.

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	03/01 to 11/15	0.06 CFS	30.9 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.1 AF
	<u>Totals:</u>	0.06 CFS	31 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 Cherie Padilla Date 10/15/07 + 5/12/08
Reviewer same Date 5/16/08

The hose will be moved to each spigot as irrigation is necessary. From one spigot, they will do a "sweep" with the line to cover more area at the end of the buried line.

Diversion System Diagram

8 spigots off this 1 1/2" line

40' between spigots

Horse stalls

4- 1/8" nozzle rainbirds per line

4- 1/8" nozzle rainbirds per line

Corral

5/8" garden hose

5-10 ft

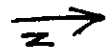
Submerged well and pump

Buried line

Drip line to trees

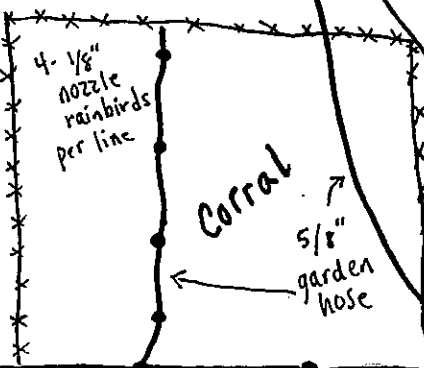
Applicant intends to plant trees along driveway

No irrigation



OPEN PASTURE

DRIVEWAY



63-31958



6N 5W Section 12



WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

093439

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
_____ 1/4 _____ 1/4 _____ 1/4			
Lat: _____	Long: _____		
☒ Air ☐ Flowing Artesian			

1. DRILLING PERMIT NO. 63-96-W-0191-000
Other IDWR No. _____

2. OWNER:

Name PAUL POLLY HYDE
Address 16816 GOODSON RD
City CALDWELL State ID Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N							
W		E		S			
Twp. <u>6</u>		North ☒ or South ☐		Rge. <u>5</u>		East ☐ or West ☒	
Sec. <u>12</u>		1/4 <u>SW</u> 1/4 <u>SW</u> 1/4		Gov't Lot _____		County <u>CANYON</u>	
Lat: _____		Long: _____		Address of Well Site <u>2662 ELMORE</u>		City <u>PARMA</u>	
(Give at least name of road - Distance to Road or Landmark)							

Lt. _____ Blk. _____ Sub. Name NUL ACRES
PARCEL 212

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
BENTONITE	0	20	500#		OVERBORE

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	12	300	.25	STEEL	☒	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 20' Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type HOUSTON

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
313	323	20		5"	SS	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

158 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailor

Yield gal/min.	Drawdown	Pumping Level	Time
40			3 1/4 HR

Water Temp. 68° Bottom hole temp. _____Water Quality test or comments: 2-IRON / 7.5 PH / 6-GRUSDepth first Water Encountered 220

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	2	2	TOP SOIL		
	2	3	CLAY		
	3	8	HARD TAN CLAY-BRN		
	8	10	SANDY CLAY-BRN		
	10	20	CLAY w/ROCKS-BRN		
	20	25	1" H 1"		
	25	30	SAND & GRAVEL-BRN		
	30	35	BROWN SAND		
	35	50	CLAY-BRN		
	50	60	TAN CLAY w/COARSE SAND		
	60	75	CLAY w/SAND STRIPS		
	75	118	SAND w/CLAY-SHT STRATAS		
	118	120	CLAY		
	120	151	SANDY CLAY w/A FEW SMALL ROCKS		
	151	172	CLAY		
	172	185	DRY SAND		
	185	190	SAND w/ROCKS - PEA GRAVEL w/		
			COARSE SAND-COLOR RED BLK GRN		
	190	215	AS ABOVE-BUT COARSER		
	215	220	SAME w/BIGGER ROCKS		
	220	236	SAME VERY LITTLE		
	236	245	CLAY w/SMALL SAND		
	245	257	SAND-BEYOND FINE	10	*
	257	266	CLAY		
	266	272	SANDY YUK	15	*
	272	276	CLAY		
	276	317	BLUE CLAY w/SUPER FINE BLUE SAND STRIPS		
	317	323	SAND	100	*

RECEIVED

RECEIVED

MAY 10 1996

APR 23 1996

Department of Water Resources
Completed Depth 323
Date: Started 4-12-96 Completed 4-16-96

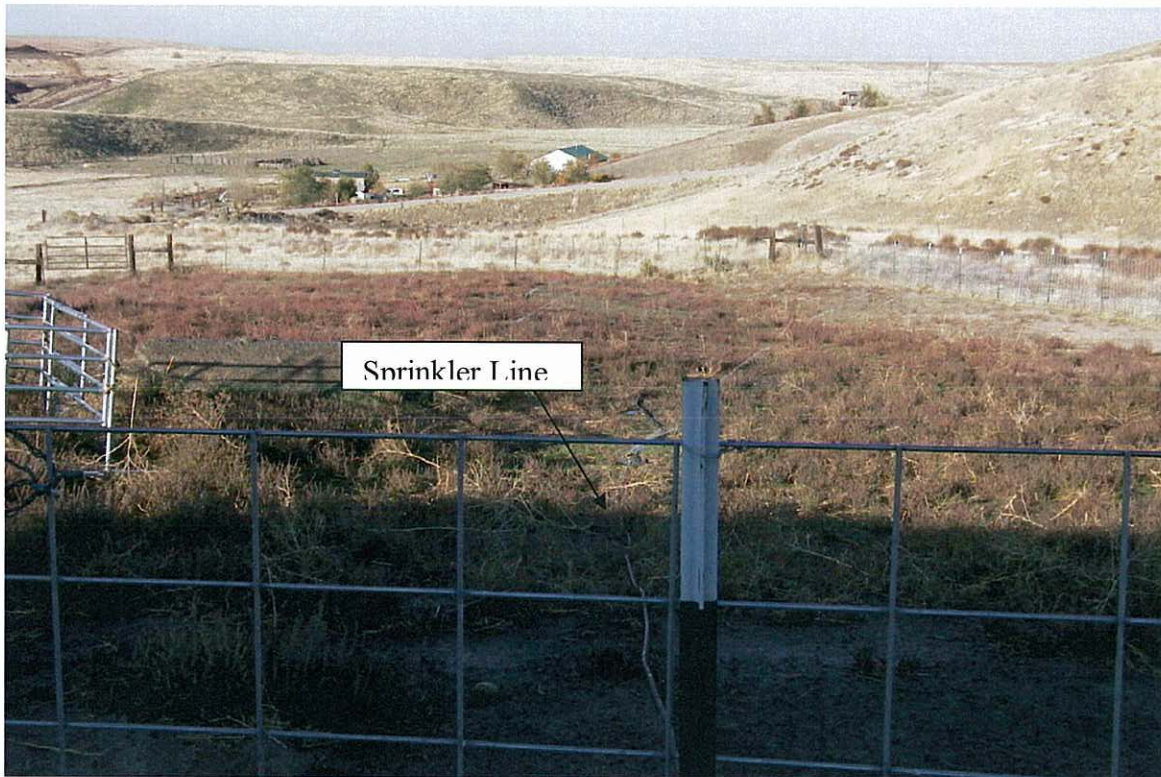
13. DRILLER'S CERTIFICATION

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

Firm Name Adamsen Pump & Drilling Firm No. 0457Firm Official Dave Adamsen Date 4-18-96and Supervisor or Operator Dave Adamsen Date 4-18-96

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES



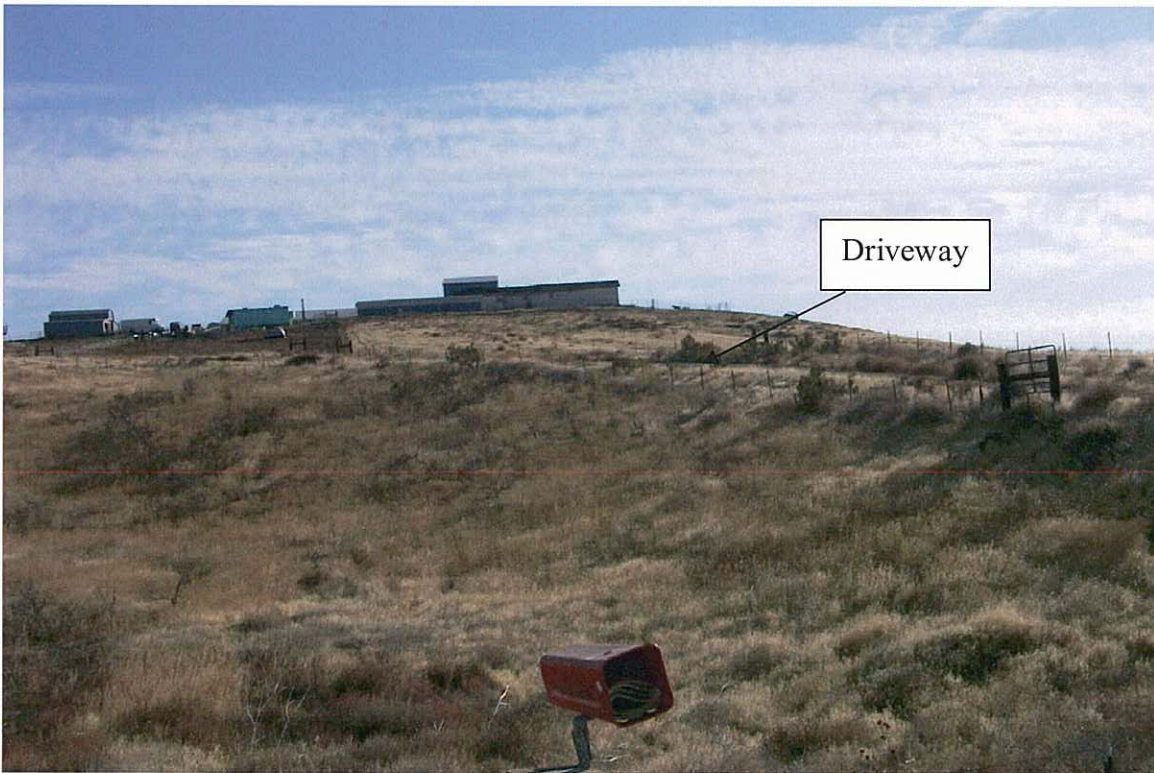
Fenced in corral facing west



Spigot. There are eight of these that run the length of the pasture.



Diversion works—Submersed pump and well location.



East facing picture of place of use. The north side of the driveway will not be irrigated except for right along the driveway where the right holder will plant trees and at the top where there are already trees planted.



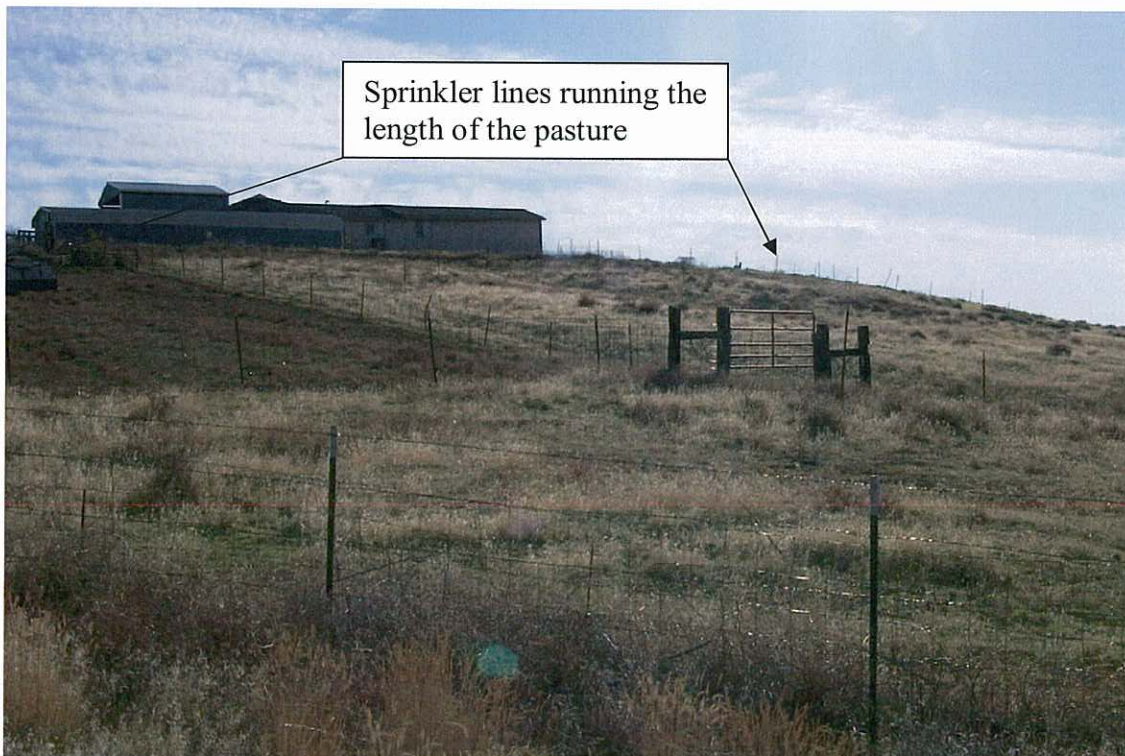
Another picture facing east. This photo shows the land to the north of the driveway.



South facing picture of place of use/pasture, on the south side of the driveway.



East facing picture of place of use/pasture.



Northeast facing picture of place of use



Near the top of driveway on the north side of driveway. This picture is facing north.