

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11693

Exam Date: 11/29/2011

1. Current Owner: ORVETA KRAJNIK
9749 RIM RD
NAMPA ID 83686
(208)466-6874

And

ED KRAJNIK
9749 RIM RD
NAMPA ID 83686
(208)466-6874

And

GARY L KRAJNIK
9749 RIM RD
NAMPA ID 83686
(208)466-4775

2. Accompanied by: Ed Krajnik
Phone No: same as above
Address:
Relationship to Permit Holder: Owner

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Canal shares are the primary source for irrigation
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE1/4NE1/4
CANYON County

Sec. 20, Twp 02N, Rge 02W, B.M.

Method of Determination: Arcmap and field visit

2.

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	
02N	02W	20	35.0	10.0		8													45.8
																			46 KRC

Total Acres: 45.8 46 KRC

Method of Determination: ArcMap and field exam

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>
	Submersible	15	UNK	UNK	6 in discharge

*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>
Theoretical calculation						

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

From Proof HP = 15

From Exam open discharge

From well log Static level = 30 ft

Pump test level = 145 ft

Estimated dynamic level 2 times static or 60 ft

____ Additional Computation Sheets Attached

Permit Rate = 1.60 cfs

Proof pd \$125.00 = 2.00 cfs max

Found 45.8 ac * 0.02 cfs = 0.92 cfs **

Measured (calc below) = 1.12 cfs

Recommend legal limit based upon acres found. **0.92 cfs**

$$\frac{(15) \text{ Hp} * 8.8 * 0.7}{(10) \text{ PSI} * 2.31 + 60 \text{ ft}} = 1.12 \text{ cfs}$$

open discharge system.

$$46 \text{ KRC } 207 \text{ KRC}$$

$$45.8 \text{ ac} * 4.5 \text{ af} = 206.1 \text{ AFA}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.92 \text{ cfs} * 246 * 1.98 = 448.1 \text{ AFA}$$

$$V = \text{Smaller of } \frac{V}{I.R.} \text{ and } \frac{V}{D.R.} = \frac{207}{206.1} \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

The system is a submersible 15 Hp pump with open discharge into a cement farm ditch starting at the well location and running west along the southern border of the POU for furrow irrigation. The farm ditch parallels the ditch company canal including the reach where the ditch swings north in Sec 20 NWNE. The farm ditch ultimately reaches a 3 acre parcel along the northern edge of Sec 20 NWNE. The well water does not reach the ground west and south of the ditch company canal in the same quarter/quarter. Irrigation water flows from the south to the north across the POU.

The Property dips into the SENE quarter of Sec 20 by 0.80 acres. This ground was not a part of the permitted POU. An amendment for that acreage is necessary.

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	03/15 to 11/15	0.920 CFS	206.10 AF
	<u>Totals:</u>	0.92 CFS	206.10 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 Kelly Christensen Date 12-20-11

Reviewer _____ Date _____

63-11693 FIELD EXAMINATION



0 330 660 1,320
Feet

★ LOCATION IN BASIN

PLACE OF USE
TWP 02N, RNG 02W Sec 20
Data Entry on November 29, 2011



- Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN

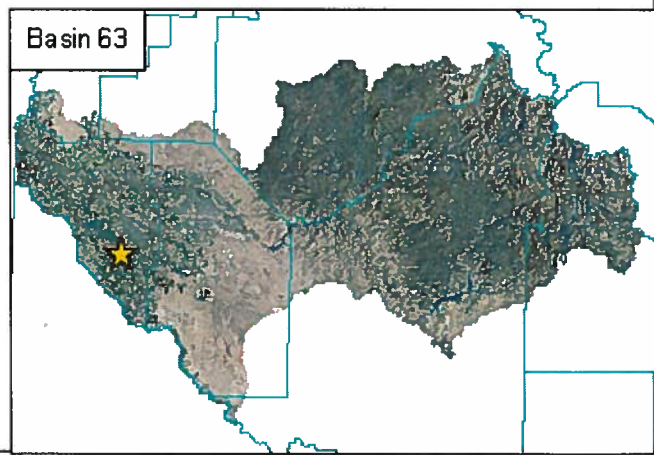


Photo set 1

63-11693

photo date 11-29-2011

You are looking west on the left to north northwest on the right. The photo location is on the west side of Linwood Rd at the southeast end of the POU.



Photo 2 63-11693 photo date 11-29-2011

You are looking south toward the well and distribution box in this photo. The well discharges into a ranch ditch to the south (approx 6 ft) and then the water can be routed either into this pipeline or stay in the ditch going west.



Photo 3 63-11693 photo date 11-29-2011

You are looking north in this photo at the well on the left and a 3 phase converter on the right (foreground).

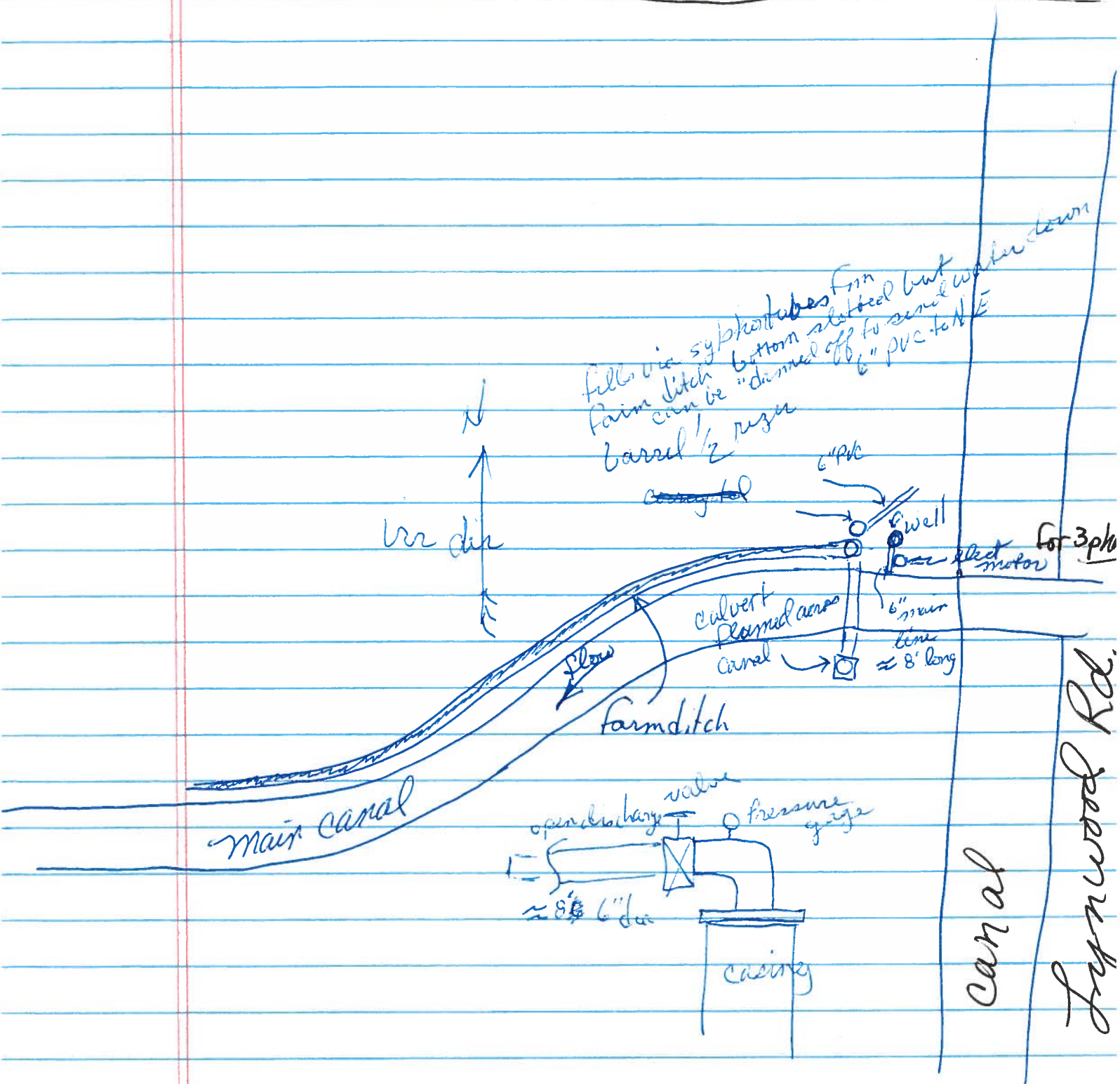
Pipeline to ditch



63-17693 Krajnik
Field Notes

Nov 29, 2011

elect motor to up grade elect to 3 phase
Deer Flat Rd.



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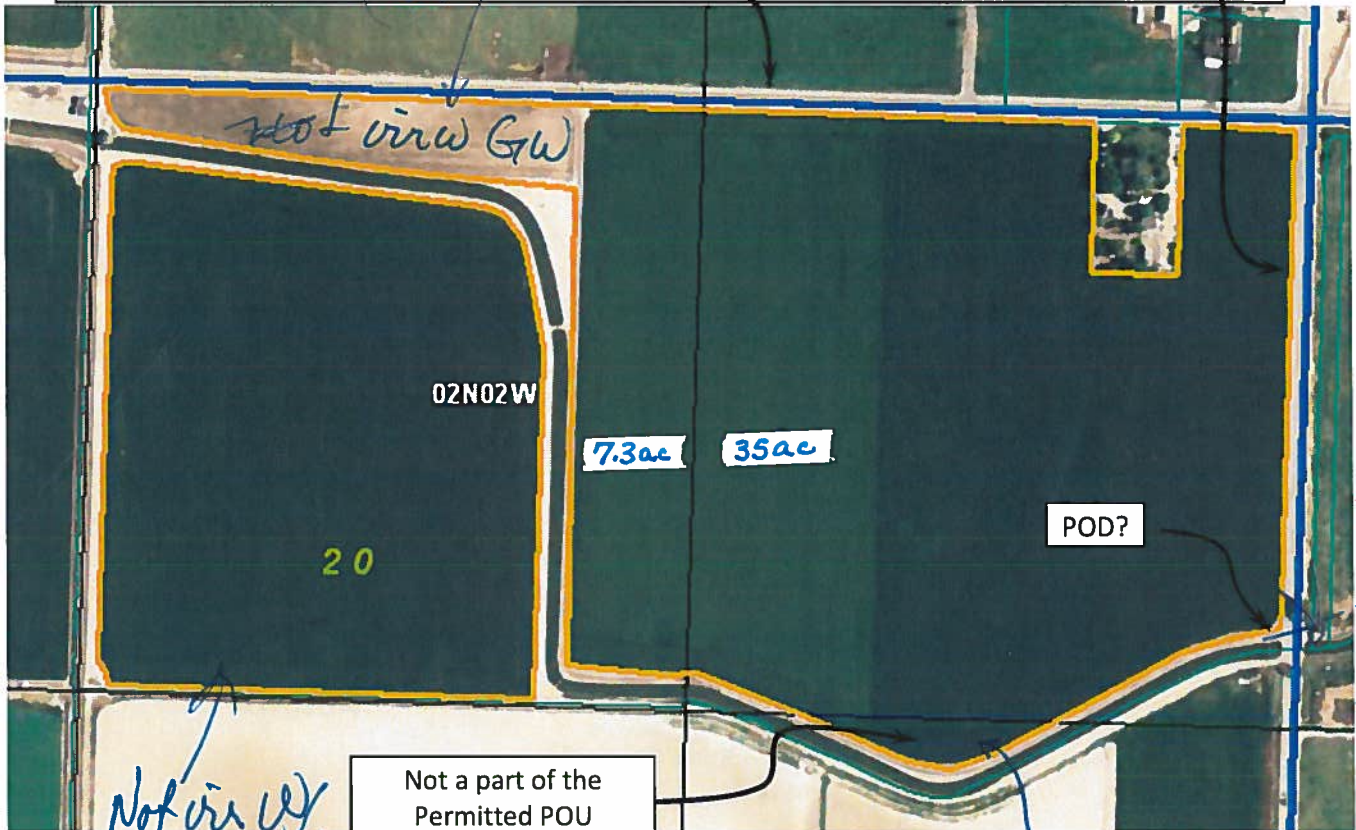
Agent KKC

Aerial photo date 2011

Twp Rng Sec QQ
2N 2W 20 N½NE¼

Deer Flat Rd

Linwood Rd



The orange shape as drawn is ≈ 71 acres.

Ed Krajnick
466-6874

Photos taken

3 pan - POD & Pod looking west on left to N on right

1 pic looking SW at 6" pdc line from dist Box 40' away
fm POD. end set up with flex disc connection

1 pic elec motor looking ~~with~~ well to left. no tag
visible on motor. (used to convert power
to 3 phase)

0.8 ac
43.1 ac total.

Well 12" casing
Discharge 6" flex
disc connection
6" pdc
Well
V-ditch

1 pic look N showing dist
motor & well casing



FIELD EXAM CONVERSATION MEMO

PERMIT # 63-11693 STAFF KKC DATE 11-14-2011

(Proof #)

OWNER OR REP PHONE #? ED Krajnik 466-6874

delivery system? 9749 Rim Rd } tax lot #
Nampa 83686 } Permit info

Pumping rate? (well log test @ 0.28 cfs)

Per Ed, only irrigating the east field near well other field uphill = 3 Acre parcel in NW not irrigated either. System is a 15HP submersible pump @ $\approx$ 100 inches. It discharges into the ditch system for flood irrigation

APPOINTMENT DATE/TIME/PLACE

Ed Krajnik
10:AM Nov 29, 2011. Meet Ed @ well. Give him a call when on the road. 466-6874.

SYSTEM INFO

Surface Water Ditch System.

Measurement device type _____
Application method _____
Delivery system specifications _____

Surface Water Pump System.

Approx HP _____
Pump Curve available _____
Delivery system specifications _____

Ground Water System

Static/Dynamic pumping level 30 - 145
Approx HP 15
Approx Operating PSI ?
approx type/number sprinklers used 0

From Proof #.

HP = 15

delivery method not clear,

1992 Well log - static = 30'

well test Pump level = 145'

Measurement device type _____
Pump Curve available No
Application method Flood from ditch
Delivery system specifications _____

Permit Rate 3.20 cfs

Proof Pd #155 or 2 cfs max

(15) Hp * 8.8 * 0.7 = 1.06 cfs
(0 PSI * 2.31) + 87.5 ft

25175 = 87.5' estimated dynamic level

45.8 ac * .02 $\approx$ 0.92 cfs