

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED**JUN 07 2016****DEPARTMENT OF
WATER RESOURCES**

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-33721

1. Owner Hoot Nanney Farms, Inc. Phone No. 208 484-5528
Current address C/o Michael L Dixon, 8542 Floating Feather Rd, Eagle, ID 83616
2. Examiner's name David Shaw EXAM DATE 7-24-15 & 6-3-16
3. Accompanied by Michael Dixon Email _____
Address 8542 Floating Feather Rd, Eagle, ID 83616
Relationship to permit holder Self Phone No. 208 484-5528
4. Source Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use 63-32010, 63-2958, 63-31988
2. Other water rights with the same source and point of diversion 63-2958, 63-31988

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

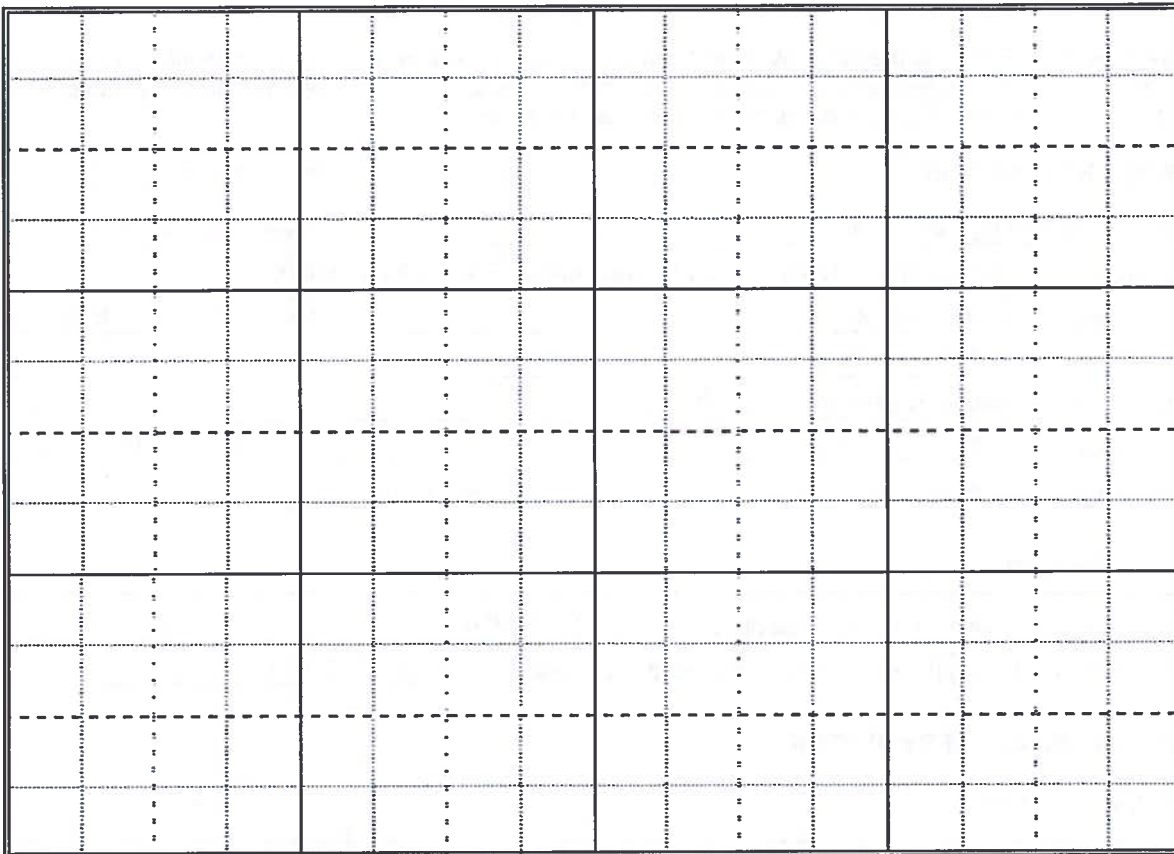
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
4	1		NE	NE	4	4N	1W	Ada	GPS
1	4		NW	NW	3	4N	1W	Ada	Decree
2	4		NW	NW	3	4N	1W	Ada	Decree

2. Place(s) of Use: Method of determination NAIP Photo and PLSS Shape from BLM

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	1W	3						38.1	38.6			38.6							115.3
		4	38.8			37.6									38.0				114.4

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.



Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
4		25	Submerged		Submersible Pump & Motor
1	Westinghouse	30	4-1-V-225	Unknown	Vertical turbine
2	General Electric	40	DNJ406323	Not legible	Vertical turbine

*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
Octave Mag Meter	Mag	Octave		13427099	4"	10-9-13
Fuji Electric Time Delta-C	Ultrasonic	Fuji		N5B1004T	10"	New 6-2-16

2. **Measurements:** _____

New well measurement was read directly from flow meter at 209.7 gpm. Meter was installed new in 2015, see attached photos.

Second measurement from old wells was read on 6-3-2016 from the new meter installed 6-2-2016.

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E. NARRATIVE/REMARKS/COMMENTS

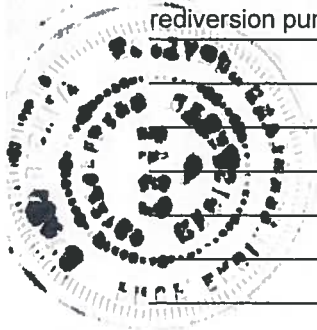
This permit was approved to increase the diversion rate for the lands irrigated under water rights 63-2958, 63-31988 and 63-32010. Water right 63-32010 is a waste water right and is not reliable and the diversion rate from the 2 ground water rights is limited to 2.40 cfs. No additional lands are proposed to be irrigated under this permit.

The new point of diversion was proposed to be in Lt 4 Sec 3 Twp 4N Rge 1W, B.M. A test well was drilled in that tract but did not produce sufficient water for development. Another well was drilled in the low point of the terrain near the northern most pivot and moved into Lt 1 Sec 4 Twp 4N Rge 1W, B.M. If this field exam is otherwise acceptable the permit holder can file a licensing amendment to properly describe the new point of diversion as needed. No point of rediversion is needed for the new well since it pumps directly into the mainline to the pivots and corner sprinklers.

The 2 existing wells at points 1 and 2 discharge into a pond along with any wastewater available from point of diversion 3. Two pumps pressurize water from the pond to operate the 2 pivots and solid set corners. The discharge from the new well is plumbed directly into the buried mainline at the northern most pivot instead of pumping into the pond with the other wells. The new well can deliver water to either the north or south pivot or the solid set sprinklers in the corners. This permit includes the diversion rate from the new well in addition to the diversion rate from the existing wells in excess of 2.40 cfs under the existing decreed water rights. The rediversion pumps have more than sufficient capacity to pump all the water that can be produced from the 2 existing wells at diversion points 1 and 2.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☐ Yes ☒ No If no, what must be done to meet the permit requirements?

Permit holder requests the requirement for a data logger on the well diversions be removed and the total annual volume pumped from all wells will be recorded from the totalizing meters currently installed. Permit holder will record and report, if required, annual diversion amounts from the three wells. Diversions from the new well do not use the rediversion pumps used by the original wells.



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F. FLOW CALCULATIONS

☐ Additional computation sheets attached

Measured Method:

New Well Meter read 209.7 gpm

Existing Wells Meter read 1,506 gpm

Total diversion = 209.7 + 1,506 = 1,715.7 gpm = 3.823 cfs

Diversion under new permit = $3.823 - 2.40 = 1.42$ cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{10cm}}$$
$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} =$ _____

2. Volume Calculations for Other Uses:

Volume for irrigation from ground water is provided under rights 63-2958 and 63-31988.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Irrigation	3/1	11/15	1.42	
	Totals:		1.42	

2. Recommended Amendments

☒ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☐ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other

I. AUTHENTICATION

Field Examiner's Signature

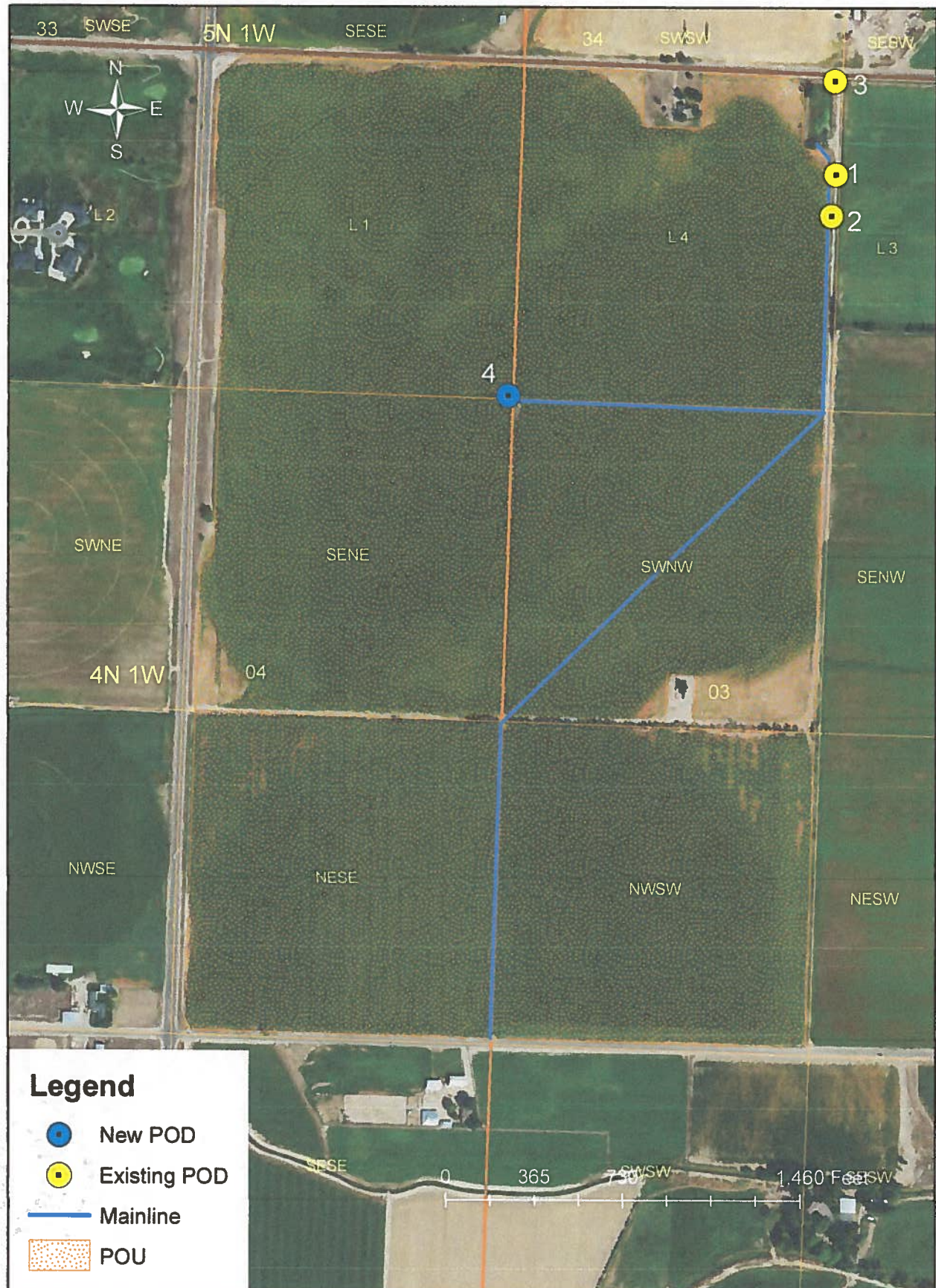
Date June 7, 2016

Reviewer _____

Date _____



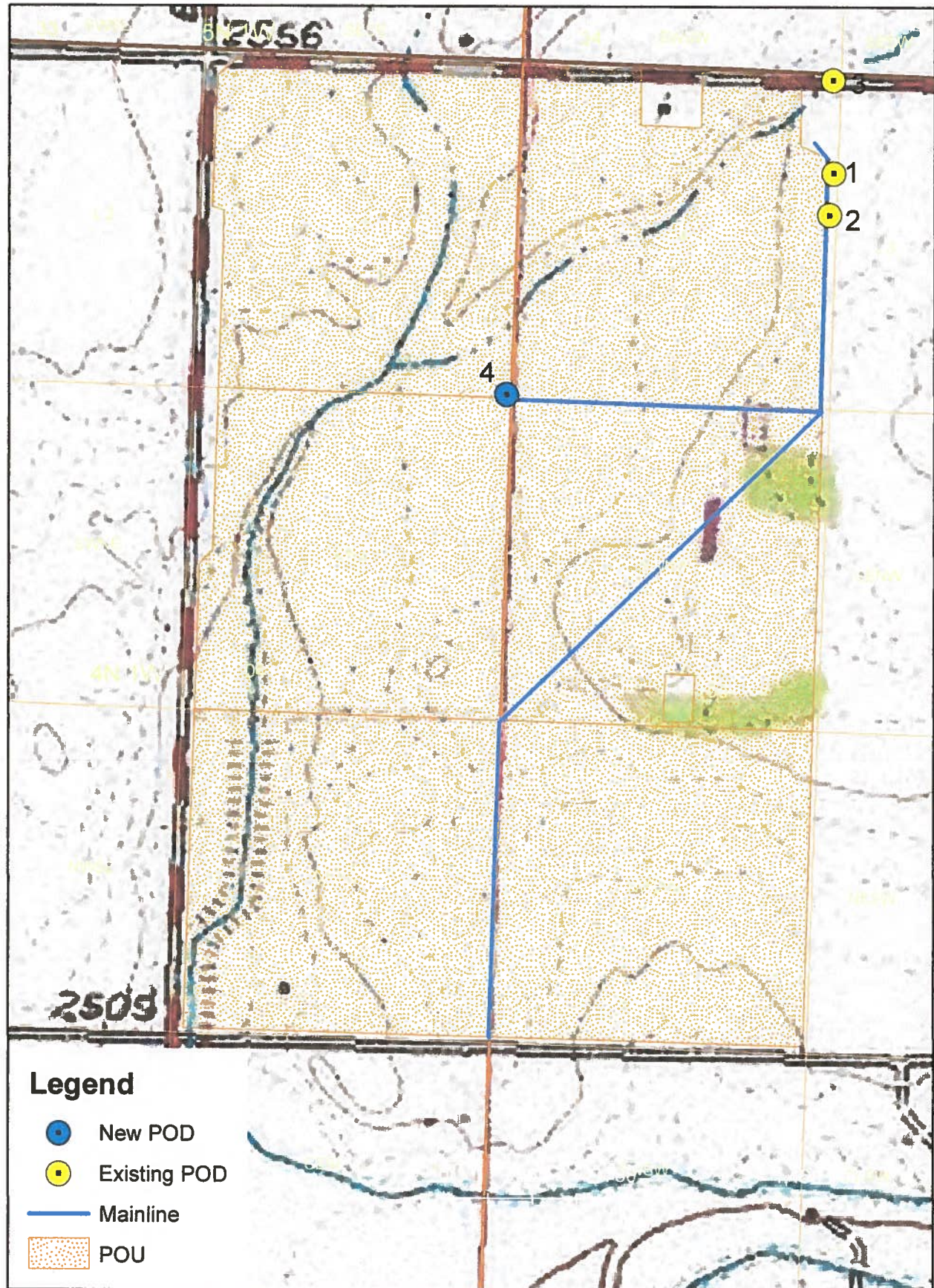
Hoot Nanney Farms Inc. Permit 63-3721 Field Exam



Based on 2013 NAIP Photography

Prepared for Hoot Nanney Farms, Inc. by ERO December 2015

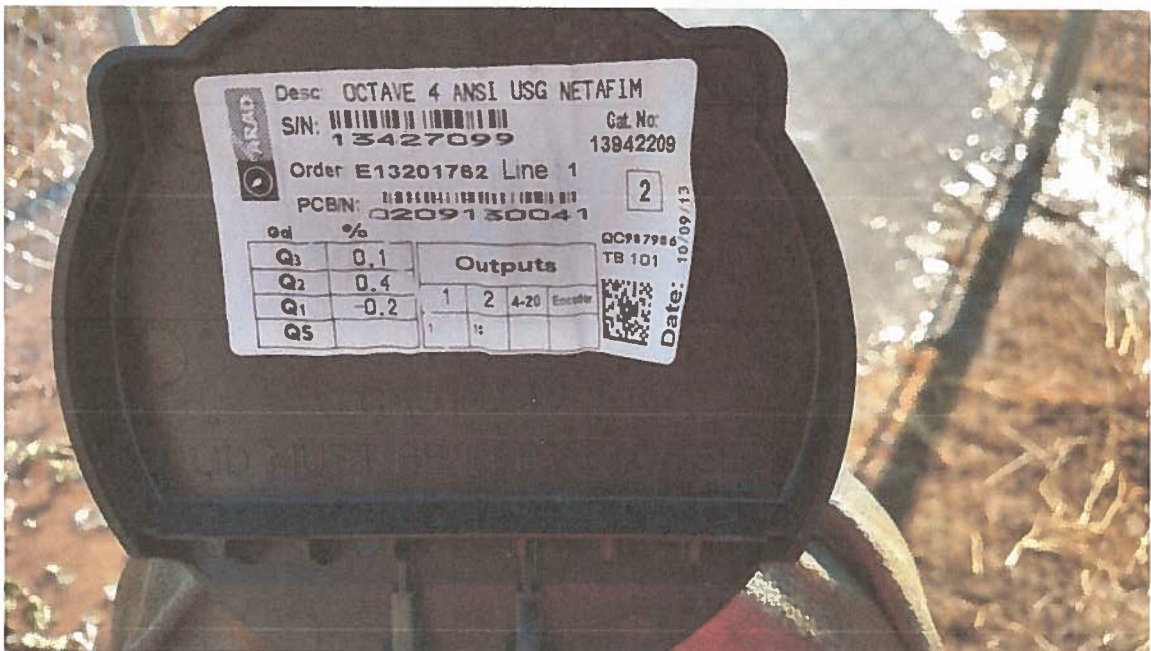
Hoot Nanney Farms Inc. Permit 63-3721 Field Exam



Permit 63-33721 Field Exam Photos



New well, valves and flow meter on the right



Flow meter information new well



Discharge from new well of 209.7gpm 7-24-2015



Discharge from old wells of 1,506 gpm 6-3-2016



Meter readout for old well measurement



Meter readout in foreground and transducer location in background



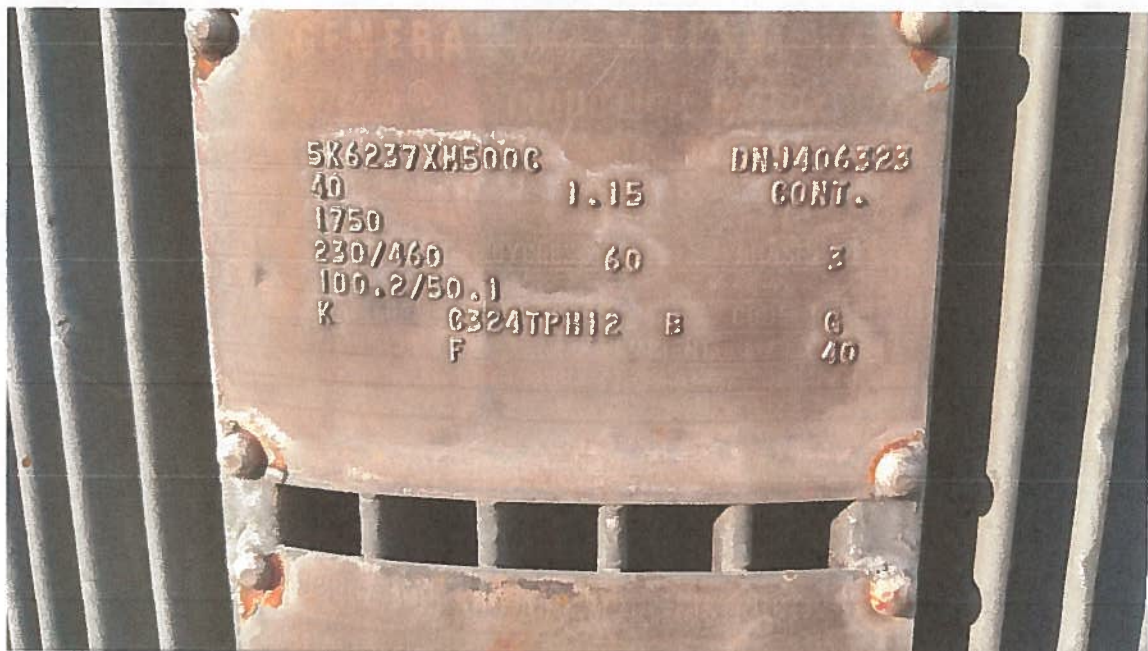
Open discharge from old wells into pumping pond



Transducer mounts for meter on old wells



Well #1 motor name plate



Well #2 motor name plate



Well #1 foreground and pipe connection to well #2 discharge. Well #2 in background.



Rediversion pumps. Discharge from wells #1 and #2 in right of photo.



Northeast corner of south field showing solid set sprinklers in corner



Northwest corner of south field showing solid set sprinklers in corner



Southeast corner north field showing solid set sprinklers in corner



Southwest corner north field showing solid set sprinklers in corner



Northwest corner north field showing solid set sprinklers in corner



Northeast corner north field showing solid set sprinklers in corner