

Permit No: 63-11736

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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DEPARTMENT OF
WATER RESOURCES

A. GENERAL INFORMATION

Permit No: 63-11736

Exam Date: 10/01/2004

1. Current Owner: NOBU TERADA
11753 LONE STAR RD
NAMPA ID 83651
(208)466-3878
2. Accompanied by: Nobu Terada
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Nampa Meridian Irrigation District, 63-8420 (see Narrative)
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW1/4NE1/4

Sec. 30, Twp 03N, Rge 02W, B.M.

CANYON County

Method of Determination:

2.

PLACE OF USE:

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
03N	02W	30	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	34.0
				16.1	17.9														

Total Acres: 34.0

Method of Determination: Arc View Photos, Field Exam

3. ☐ Y ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
☐ Y ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
☐ Y ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
☐ Y ☐ Photo of Diversion and System Attached
- 4.

<u>Well or Diversion 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 Size</u>
		10	Submersible		

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Theoretical based on well log information. Mike Knie, the well driller and pump installer, did not save any information on this well and could not remember the specifics.

E. FLOW CALCULATIONS

Y Additional Computation Sheets Attached

Measured Method:

Pumping Rate Flow Analysis

Per Well Log:

Static = 20'

Depth = 140'

140 - 20 = 120/2 = 60' dynamic pumping level estimate

add 10' for friction loss (open discharge)

Estimated TDH = 70'

Based on attached analysis using the above information, **pumping capacity = .96 cfs**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 34 \times 4.5 = 153$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .68 \times 246 \times 1.9835 = 331.8$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 153$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

A 10 inch well equipped with a 10 hp submersible pump provides ground water to 34 acres via open discharge, ditch, and siphon tubes. Shares from Nampa Meridian Irrigation District are the primary source of water used for irrigation and enter the farm near the well in the SWSWNE corner. Please refer to the attached system diagram for further detail. 1994 and 2000 arc view photos along with county tax lot boundaries were used to determine acreage. License 63-8420 appears to overlap 3 of the 34 recommended acres, however, it appears that a mapping error was made. County tax records show that the owner of right 63-8420 owns 80.62 acres in the NW quarter and nothing in the NE quarter. A preliminary review of SRBA claim 63-8420 was made in 2002, where the contractor noted the discrepancy and did not include the 3 acres in the W1/2NE for claim 63-8420. Craig Saxton, with the SRBA stated that the three acres in the W1/2NE would not be recommended for decree for claim 63-8420 based on the county records and contractor findings, therefore eliminating the overlap. SRBA claim file 63-8420 has been flagged with this narrative. No other rights are used.

Have conditions of permit approval been met? Yes X No (The license will need condition 01M. Currently measurement and reporting are not required by IDWR for basin 63 irrigation wells.)

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	3/15 to 11/15	0.68 CFS	153.0
	<u>Totals:</u>	0.68 CFS	153.0

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

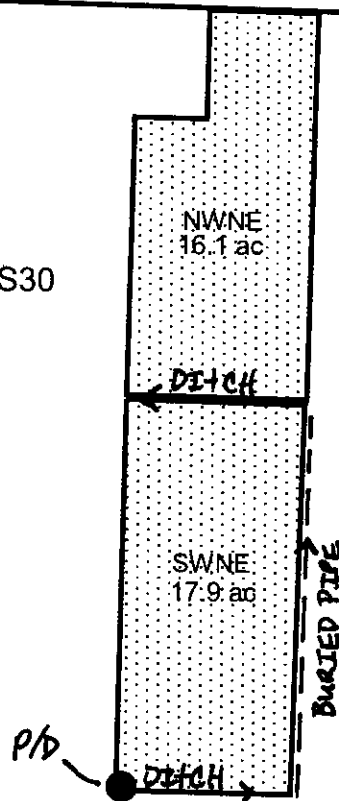
I. AUTHENTICATION

Field Examiner's Name Loi Graver Date 10/19/04
Reviewer _____ Date _____

63-11736

SYSTEM
DIAGRAM

T3N R2W S30



surface water enters
property in ditch
near the well



T3N R2W S30

NWNE
16.1 ac

SWNE
17.9 ac

Idaho Department of Water Resources
Estimated Pumping Rate Computer
Flow Analysis Performed by:

Lori Graves

Date: 10/19/2004

ed 1/6/2000

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Record ID		Measured Flow:	
Water Right No. 63-11736		Designed Flow:	
Name Nobu Terada		HP/Eff Flow:	0.96 cfs <<--Max
pod		Sprinkler Flow:	
year:		Pivot/System Flow:	
Flow Measurement: gpm =			
Curve/Pump Design: gpm =			
Horsepower / Efficiency Method			
Horsepower	10 hp		
PWL	60 ft		
Disch Psi	4.33 psi		
PUMP Eff Estimate	0.76 %		
TDH	70 ft		
OHP	7.6 hp		
Flow	430 gpm	=	0.96 cfs
System Method:			
No Lines		Nozzle Equation: $Q=C*A*\sqrt{2*g*h} / \sqrt{1-r^4}$	
Birds per line		C=	1.00 Nozzle coefficient; typical 0.97 to 1.00
Ttl no nozzles	0	r=	0.0000 ft Nozzle radius
Nozzle size	in	A=	0.00000 ft^2 Nozzle area
Nozzle pressure	psi	h=	0 ft Head
Flow per nozzle	0.00 gpm	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	0 gpm	Q=	0.000 cfs Flow per nozzle
Percent Leaks	%	=	0.000 gpm Flow per nozzle
Total Flow	0 gpm		
Pivot / System rating	gpm		

Comments / Data Supplied:

IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

1. DRILLING PERMIT NO: 63-92-C-045 OTHER APPLICABLE NO: 63-11736
2. OWNER: Nolan Terada Phone: _____
Address: 11753 Lone Star Rd
3. WELL LOCATION: Twp 3N, Rge. 2W, Sec. 30, SW 1/4 Ne 1/4
County Canyon (Provide sketch map and photo on reverse.)
4. DRILLER: Knie Lic. No. 417
When Drilled? 8/10/1992
5. WELL CONSTRUCTION:
Casing Diameter 10 inches Water tight cap? ☒ Yes ☐ No Access Port: ☐ Yes ☒ No
Casing $\geq$ 12 inches above ground? ☒ Yes ☐ No - Describe _____
Depth of Casing 138 ft. Method Drilled Cable
Condition of Well Casing: ☒ Good ☐ Fair ☐ Poor Describe _____
Control Valve? ☐ Yes ☒ No Pressure Gauge: ☐ Yes ☒ No
Condition of Piping and Valving good
Auger to a depth of _____ ft. Evidence of Annular Seal ☐ Yes ☒ No
Are there obvious construction problems that may be a source for contamination or waste of water?
☐ Yes ☒ No (Describe in Remarks and Attach Photo - On Reverse)
6. HYDROLOGIC INFORMATION:
Depth to Static Water 20 ft. Water Temperature cold °F
Flowing Artesian ☐ Yes ☒ No Pressure: _____ (psi)
Water Sample Taken? ☐ Yes ☒ No If yes, describe purpose _____
Water Quality Measurements/Observations (Describe) _____
7. WELL USE:
☐ Domestic ☒ Irrigation ☐ Stock
☐ Test ☐ Municipal ☐ Industrial
☐ Abandoned ☐ Waste Disposal/Injection ☐ Not Used
☐ Other: _____

8. **POSSIBLE CONTAMINATION SOURCES:**

Is there evidence of Chemigation? ☐ Yes ☒ No

If yes, is there a check-valve present? ☐ Yes ☒ No

Is there a possible source of contamination nearby? ☐ Yes ☒ No

If yes, what Type? _____

How far away from the well is this source? _____

9. **REMARKS:** _____

Lon Gannon

Signature of Dept. Representative & Title

10/4/04

Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:



10" well, 10 HP submersible Pump
open discharge
located in the SWSWNE S30 T3N R2W