

Permit No: 63-11768

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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Page 1 **NOV - 4 2004**
DEPARTMENT OF
WATER RESOURCES

A. GENERAL INFORMATION

Permit No: 63-11768

Exam Date: 10/05/2004

1. Current Owner: KENNETH L MORROW
1616 LAKE LOWELL AVE
NAMPA ID 83686
(208)466-1793

2. Accompanied by: Ken Morrow

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
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

SE1/4SW1/4

Sec. 29, Twp 03N, Rge 02W, B.M.

CANYON County

Method of Determination: Arc View Photo, Field Exam

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			<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>	<u>Totals</u>
03N	02W	29												25.7				10.3	36.0

Total Acres: 36.0

Method of Determination:

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>
		7.5	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>
Pump Curve						

2. Measurements: Sylvan Adamson with Domestic Pump and Well drilled the well and installed the pump. He stated that TDH for this well/pump is 45' which equates to 425 gpm or .95 cfs pump capacity

E. FLOW CALCULATIONS

Y Additional Computation Sheets Attached

Measured Method:

See Attached Pump Performance Sheet

425 gpm = .95 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 36 \times 4.5 = 162$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .72 \times 246 \times 1.9835 = 351.3$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 162$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

A 10 inch well equipped with a 7.5 hp submersible pump provides ground water to 36 acres via open discharge, cement ditch and siphon tubes. A drain runs through the SESW quarter. The ground water irrigation system was not extended to the acres listed on the permit west of this drain. Shares from Nampa Meridian Irrigation District are the primary source of water used for irrigation and enter the farm near the well. Please refer to the attached system diagram for further detail. 1994 and 2000 arc view photos were used to determine acreage. A measuring device was not found. At the time of the exam, work was starting for the development of a subdivision on the recommended acres.

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	0.72 CFS	162.0
	<u>Totals:</u>	0.72 CFS	162.0

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

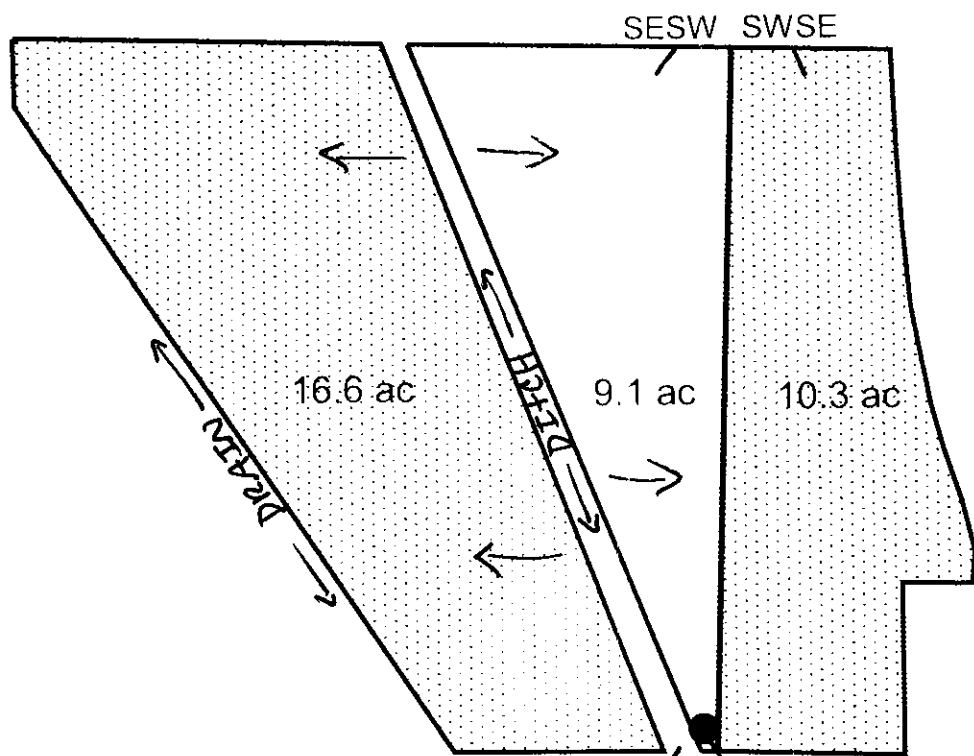
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

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

Reviewer _____ Date _____

T3N R2W S29



surface
water enters
property

P/D

LAKE LOWELL AVE



T3N R2W S29

SESW SWSE

16.6 ac

9.1 ac

10.3 ac

ATTN: LORI

Submersibles

"The Most Trusted Name In Water"

S6400 Performance - 400 GPM

Pump Model Number	HP	TOTAL HEAD IN FEET (Capacities in GPM)																												S.O. Head in Ft.
		20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	800	
S6400-2C	7-1/2	490	450	400	350	270	220	180	125																					115
S6400-2	10				470	420	350	280	240	120																				145
S6400-3	15					490	460	430	340	240	160	70																		214
S6400-4	20							500	480	405	330	250	195	130	50															286
S6400-5	25									460	415	360	300	245	195	150	90	35												360
S6400-6	30									500	470	430	390	345	290	245	210	170	120	65										425
S6400-8	40												485	460	430	395	360	320	270	240	180	120	40							570

ORDERING INFORMATION - Pump end, motor/lead and control box or magnetic starter and heater elements must be ordered separately.

Single Phase - 230V

Model No.	HP	Pump End Order No.	Motor w/ Lead Order No.	Std. C/B Order No.	Deluxe C/B Order No.	Wt.
S6400-2C	7-1/2	9261-4022	9010-1601	9194-0700	9194-4181	58
S6400-2	10	9261-4002	9010-4845	9194-2300	9194-4199	59
S6400-3	15	9261-4003	9010-4894	9194-4215	9194-4215	72

Three Phase - 230V

Note: All magnetic starters require three heater elements.

Model No.	HP	Pump End Order No.	Motor w/ Lead Order No.	Heater Element Order No.	Wt.
S6400-2C	7 1/2	9261-4022	9010-1619	9194-0569-K067	58
S6400-2	10	9261-4002	9010-1635	9194-0569-K070	59
S6400-3	15	9261-4003	9010-1650	9194-0569-K075	72
S6400-4	20	9261-4004	9010-1676	9194-0569-K077	96
S6400-5	25	9261-4005	9010-1692	9194-0569-K083	114
S6400-6	30	9261-4006	9010-1726	9194-0569-K087	127

Three Phase - 460V

Note: All magnetic starters require three heater elements.

Model No.	HP	Pump End Order No.	Motor w/ Lead Order No.	Heater Element Order No.	Wt.
S6400-2C	7 1/2	9261-4022	9010-1627	9194-0569-K055	58
S6400-2	10	9261-4002	9010-1643	9194-0569-K058	59
S6400-3	15	9261-4003	9010-1668	9194-0569-K064	72
S6400-4	20	9261-4004	9010-1684	9194-0569-K069	96
S6400-5	25	9261-4005	9010-1700	9194-0569-K072	114
S6400-6	30	9261-4006	9010-1734	9194-0569-K074	127
S6400-8	40	9261-4008	9010-1759	9194-0569-K077	156

- Notes:**
- 1) All performance data is based on rated motor nameplate voltage.
 - 2) C in model number denotes special impeller trim.
 - 3) See motor selection on page 83.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

1. DRILLING PERMIT NO: 63-92-C-191 OTHER APPLICABLE NO: 63-11768

2. OWNER: Ken Morrow Phone: _____
Address: Nampa

3. WELL LOCATION: Twp 3N, Rge. 2W, Sec. 29, SE 1/4 SW 1/4
County Canyon (Provide sketch map and photo on reverse.)

4. DRILLER: Domestic Pump Lic. No. 483
When Drilled? 8/3/1992

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 105 ft. Method Drilled air rotary

Condition of Well Casing: ☐ Good ☐ Fair ☐ Poor Describe _____

Control Valve? ☒ Yes ☐ No Pressure Gauge: ☐ Yes ☒ No

Condition of Piping and Valving _____

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 12 ft. Water Temperature 60 °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 Contamination? ☐ 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: _____



Signature of Dept. Representative & Title

10/5/04

Inspection Date

PHOTOS, DRAWINGS, OTHER ATTACHMENTS:

October 19, 2004

US Bureau of Land Management
C/O John Ford, Manager
3943 Development Ave
Boise, ID 83705



10" well, 7.5 HP submersible
pump, open discharge
located in the SESESW
S29 T3N R2W