

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-11585

Exam Date: 4/17/2015

1. Current Owner: Dave Williams
3677 Market Rd
Homedale ID 83628
208-337-4226

2. Accompanied by: Dave Williams

Phone No:

Address:

Relationship to Permit Holder: Owner

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 57-10021
2. Other water rights with the same point of diversion: 57-10021

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW1/4NE1/4 Sec. 22, Twp 03N, Rge 05W, B.M. OWYHEE County Lat/Long: 43.586035, -116.919384

GROUND WATER NW1/4NE1/4 Sec. 22, Twp 03N, Rge 05W, B.M. OWYHEE County Lat/Long: 43.585802, -116.918884

GROUND WATER NW1/4NE1/4 Sec. 22, Twp 03N, Rge 05W, B.M. OWYHEE County Lat/Long: 43.585677, -116.918625

Method of Determination: 3 wells were observed on the property and all connected to one system. GPS for each well taken.

2.

PLACE OF USE: COMMERCIAL, 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	
03N	05W	22		X				X											

Method of Determination: PLSS map over property data verified.

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. Well or Diversion Identification No.*	Motor Make	Hp	Pump Make	Pump Model	Pump Serial No. or Discharge Size
D0029191	Unk	1.5	Grundfos	25S15-9	25 gpm
Not Identified	Unk	1.5	Grundfos	25S15-9	25 gpm
Not identified	Unk	1.5	Grundfos	25S15-9	25 gpm

*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

2. Measurements: Unable to measure directly, theoretical flow included in report.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 72.0 ft.

psi = 50

hp = 1.5

See attached theoretical sheet.

Measurement = 0.05 cfs * 3 wells = 0.15 cfs

Permit allowed = 1.00 cfs

License recommend for 0.15 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

STOCKWATER:

625 dairy cows. Administrator memo #3 suggests 35 gpd per head.

$$625 \text{ h} * 35 \text{ g/h} = 21,875 \text{ g} = 24.5 \text{ af}$$

COMMERCIAL:

Use	Gallons / Day
Bulk Tank	500
Cow Prep	1,000
Pipelines	500
Parlor Cleanup	2,000
Washpen Cleanup	2,000
Towel Washing	400
Total:	6,400

$$6,400 * 365 = 2,336,000 \text{ gpy} = 7.17 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

The field exam was completed by Water Resource Agent Patrick Kelly on April 17, 2015. The domestic component of the right was removed given that there was no additional beneficial use of domestic water not covered by overlapping water right 57-10021.

Overlap review shows water right 57-10021 for Domestic and Stockwater from groundwater sources. This right covers the domestic use of water by the home and supplies water to 200 range cattle. At the standard volume of 12 gallons per head per day, 57-10021 carries a stockwater volume of 2.7 af. A total of 625 dairy cattle were recorded at the time of the field exam. From the volume calculation in section F of this report, a total annual volume of 24.5 af of water is required to supply the dairy with water for stock. My recommendation for stockwater will be the 24.5 af minus 2.7 af from 57-10021, or 21.8 af.

A combined use limit of 0.15 cfs will be used to reflect the maximum diversion rate on the property. Volume was not identified on the condition as 57-10021 does not describe a maximum volume and was considered when determining a maximum volume for 57-11585.

Commercial use for a dairy was confirmed during the field visit. Water volumes for uses outlined in section F of this report were collected from Dave Williams and seem reasonable for the dairy use. A total of 7.2 af will be recommended for license.

Pumps need to be replaced a few times throughout the year and Mr. Williams had an extra available. System uses 25S15-9 Grundfos 25 gpm pumps. Specs on this pump shows 1.5 hp. Lift of 72 feet was observed on the well drillers report pump test. PSI gages are installed on the system and showed a pressure of 50 psi during the field exam. Theoretical average flow rate is 0.05 cfs. This is a reasonable diversion rate given it matches close to the pump curve rating as well as the observed diversion rate recorded during the pump test. Because there are 3 pumps on the system, a total of 0.15 cfs is recommended.

Admin memo # 3 suggests a diversion rate of 0.46 cfs for 601-700 head of dairy cattle. Because the maximum diversion rate of 0.15 cfs was determined from on site pump information, a diversion rate for stockwater and commercial will be 0.15 cfs.

There are a total of 3 wells on the property. All three wells are connected to one system and deliver water to the property. Because only 2 wells were identified on the application and permit, a licensing amendment will be required. The Place of Use includes two small sections of dairy use in neighboring QQ to the east and west of the permitted QQ. Because taxlot information suggests that the Dave Williams owns land in the NENW QQ, this will be included in the amendment as well.

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>
STOCKWATER	01/01 to 12/31	0.15 CFS	21.8 AF
COMMERCIAL	01/01 to 12/31	0.15 CFS	7.2 AF
<u>Totals:</u>		0.15 CFS	29.0 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 Patrick Kelly Date 5-21-2015
 Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 57-11585
 Reviewer: Patrick Kelly
 Date of Review: 4/17/2015

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	1.5	1.5	1.5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	72	72	72
DISCHARGE PRESSURE	50	50	50
RATE OF FLOW (cfs)	0.05	0.05	0.05 0.05

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: 70 efficiency.
 No Friction

Examiners Notes:

Pumps need to be replaced a few times throughout the year and Mr. Williams had an extra available. System uses 25S15-9 Grundfos 25 gpm pumps. Specs on this pump shows 1.5 hp. Lift of 72 feet was observed on the well drillers report pump test. PSI gages are installed on the system and showed a pressue of 50 psi during the field exam. Theoretical average flow rate is 0.05 cfs. This is a reasonable diversion rate given it matches close to the pump curve rating as well as the observed diversion rate recorded during the pump test . There are 3 pumps on the system totalling a diversion rate of 0.15 cfs

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[25GPM Pump Assemblies](#) 377
25S15-9 Grundfos 25GPM 3PH 1-1/2HP 230V Pump Assembly**3PH 25GPM Pump Assemblies**[<< Back](#) [E-mail A Friend](#)**25S15-9 Grundfos 25GPM 3PH 1-1/2HP 230V Pump Assembly**

HP: 1.5
 PH: 3
 Volts: 230
 Diameter: 4"
 Material Number: 51530095

Grundfos Stainless Steel 3 Phase Pumps Ship **"FREE"**

SKU: 377

Price: ~~\$1,330.64~~Sale Price: **\$843.34**

Available

Quantity: **ADD THIS TO MY CART****Product Reviews**[Write A Review](#)

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25S05-3 Grundfos
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Price: ~~\$875.12~~
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3-Wire Well Pump

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 Sale Price: **\$737.79**
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25GPM 1PH 1-1/2HP
230V 3-Wire Well Pump

Price: ~~\$1,372.15~~
 Sale Price: **\$887.51**
 Available

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25S05-3 Grundfos
25GPM 1PH 1/2HP 115V
3-Wire Well Pump With
Standard Control Box

Price: ~~\$965.67~~
 Sale Price: **\$660.24**
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25S EASY SELECTION CHART

25 GPM

SELECTION CHARTS

FLOW RANGE

PUMP OUTLET

(Ratings are in GALLONS PER MINUTE -GPM)

(18 TO 32 GPM)

1 1/2" NPT

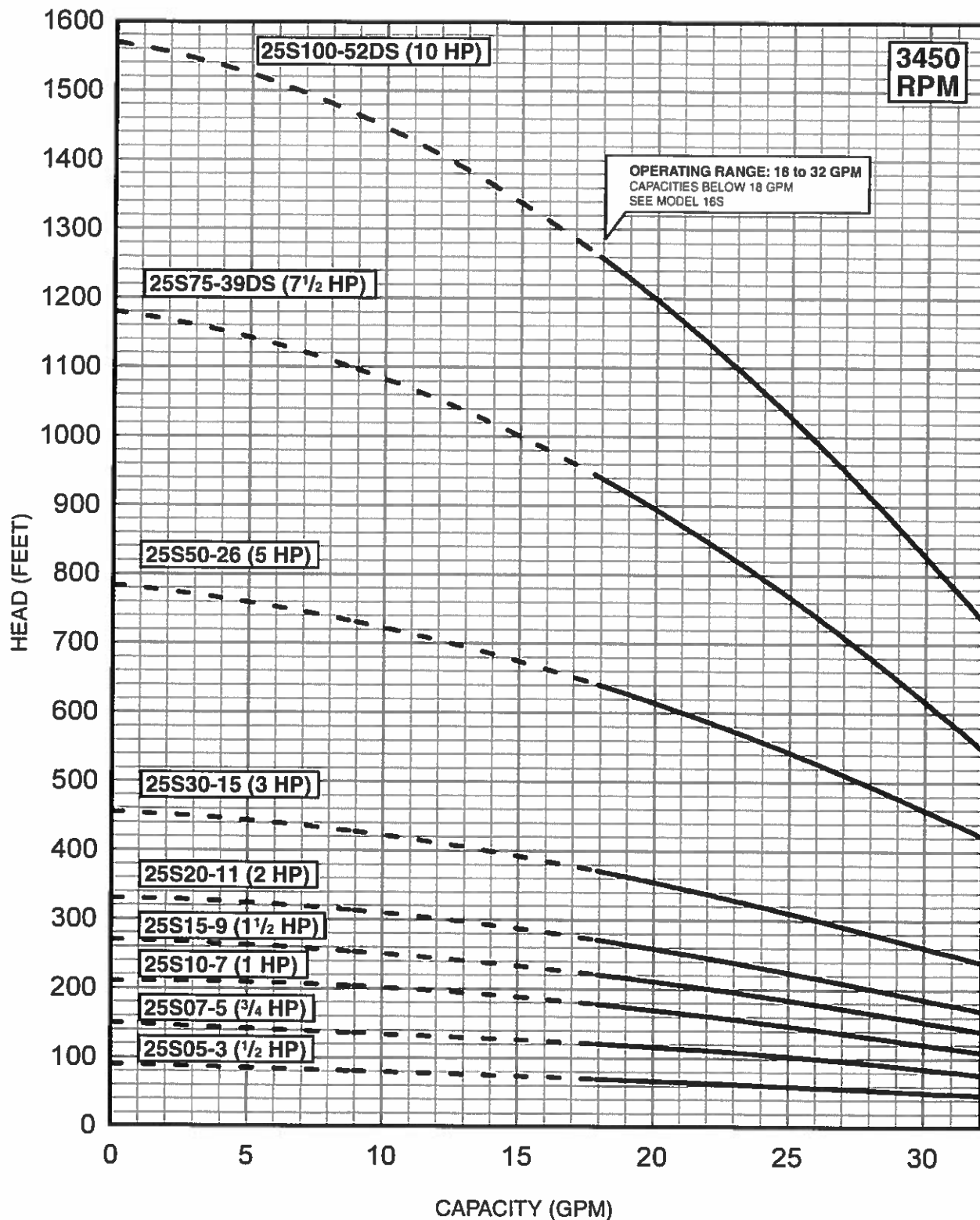
		DEPTH TO PUMPING WATER LEVEL (LIFT) IN FEET																									
PUMP MODEL	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700	800	900	1000	1100
25S05-3	1/2	20	18.6	6.5	3.3																						
		30	10.5																								
		40																									
		50																									
		60																									
SHUT-OFF PSI:			31	22	13	5																					
25S07-5	3/4	0			34.5	29.8	23.9	18.1																			
		20	32.9	28.6	21.8	15.1	7.5																				
		30	27.1	22.5	12.3	2.0																					
		40	19.5	11.8	5.8																						
		50	10.1																								
SHUT-OFF PSI:			57	48	39	31	22	13																			
25S10-7	1	0					31.3	26.5	24.3	20.2	12.7	5.1															
		20		33.2	30.3	27.6	22.9	18.3	10.4	2.5	1.3																
		30	33.0	29.9	26.5	23.1	13.0	9.6	4.8																		
		40	29.4	26.5	21.3	16.2	8.2																				
		50	25.3	21.5	14.3	7.0	3.5																				
SHUT-OFF PSI:			83	74	65	57	48	39	31	22	13	5															
25S15-9	1 1/2	0						32.2	30.0	27.9	24.8	21.6	16.3	10.8													
		20				31.5	29.3	27.2	23.7	20.3	14.5	8.8	4.4														
		30			31.3	29.1	26.4	23.7	18.9	14.2	7.8	1.5															
		40		30.8	28.6	26.3	22.6	18.8	12.8	6.8	3.4																
		50	30.6	28.4	25.5	22.5	17.4	12.3	6.2																		
SHUT-OFF PSI:			109	100	91	83	74	65	57	48	39	31	22	13													
25S20-11	2	0						33.1	31.1	29.3	27.6	25.1	22.5	18.5	14.5	9.3											
		20					32.5	30.6	28.8	27.0	24.3	21.5	17.3	13.0	7.8	2.5											
		30				32.0	30.3	28.7	26.4	24.2	20.6	18.9	12.0	7.0	3.5												
		40			31.8	30.1	28.2	26.3	23.3	20.4	15.9	11.4	6.3														
		50		31.5	29.8	28.1	25.7	23.3	19.4	15.6	10.4	5.3	2.7														
SHUT-OFF PSI:			135	126	118	109	100	92	83	74	66	57	48	40	31	23											
25S30-15	3	0									32.3	31.0	29.8	28.4	27.1	25.2	20.7										
		20								31.8	30.6	29.3	28.0	26.6	24.8	22.7	19.8	13.5									
		30						33.0	31.7	30.4	29.2	27.8	26.2	24.5	22.1	19.7	16.4	9.3									
		40					32.8	31.5	30.3	29.0	27.5	26.0	24.0	21.9	19.0	16.1	12.4	4.9									
		50				32.6	31.3	30.0	28.7	27.4	25.7	23.8	21.3	18.8	15.3	12.0	8.2	2.2									
SHUT-OFF PSI:					170	161	152	144	135	126	118	109	100	92	83	74	66	48									
25S50-26	5	0															32.5	30.3	28.0	25.3	19.9	10.2					
		20															32.3	30.8	28.6	25.9	22.5	15.6	5.0				
		30															32.1	31.3	29.9	27.7	24.7	20.8	13.5	2.5			
		40														32.0	31.3	30.5	29.1	26.7	23.3	18.9	11.0				
		50										32.7	31.8	31.2	30.4	29.7	28.2	25.5	21.8	18.8	8.5						
SHUT-OFF PSI:											253	245	236	227	219	210	193	167	141	115	80	37					

See 25S performance curves for higher head models.
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

FLOW RANGE: 18 -32 GPM

OUTLET SIZE: 1½ " NPT

NOMINAL DIA. 4"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, .5 -5 HP/3450 RPM.
6" MOTOR STANDARD, 7.5 -10HP/3450 RPM.

Performance conforms to ISO 9906, 1999 (E) Annex A
Minimum submergence is 2 feet.

DIMENSIONS AND WEIGHTS

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
25S05-3	A	1/2	4"	1 1/2" NPT	18.1	9.5	8.6	3.8	3.9	26
25S07-5	A	3/4	4"	1 1/2" NPT	20.9	10.7	10.2	3.8	3.9	28
25S10-7	A	1	4"	1 1/2" NPT	23.7	11.8	11.9	3.8	3.9	29
25S15-9	A	1 1/2	4"	1 1/2" NPT	27.1	13.6	13.5	3.8	3.9	34
25S20-11	A	2	4"	1 1/2" NPT	30.3	15.1	15.2	3.8	3.9	37
25S30-15	A	3	4"	1 1/2" NPT	39.1	20.6	18.5	3.8	3.9	59
25S50-26	A	5	4"	1 1/2" NPT	51.2	23.6	27.6	3.8	3.9	76
25S75-39DS	A	7 1/2	6"	1 1/2" NPT	66.8	24.2	42.6	5.4	4.6	168
25S100-52DS*	B	10	6"	1 1/2" MPT	90.9	25.4	65.5	5.4	5.4	226

NOTES: All models suitable for use in 4" wells, unless otherwise noted.

Weights include pump end with motor in lbs.

* Built into sleeve 1 1/2" MPT discharge, 6" min. well dia.

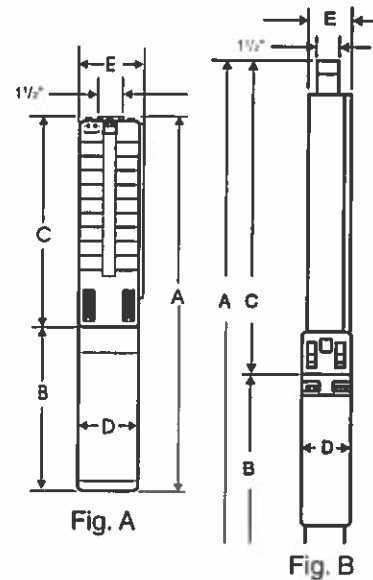


Fig. A

Fig. B

MATERIALS OF CONSTRUCTION

COMPONENT	SPLINED SHAFT (3-26 Stgs.)	CYLINDRICAL SHAFT (39 Stgs.)	DEEP SET (52 Stgs)
Check Valve Housing	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Impeller	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Suction Interconnector	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Inlet Screen	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Pump Shaft	304 Stainless Steel	431 Stainless Steel	431 Stainless Steel
Straps	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Cable Guard	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Priming Inducer	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Coupling	316/431 Stainless Steel	316/431 Stainless Steel	329/416 Stainless Steel**
Check Valve Seat	NBR/304 Stainless Steel	NBR/316 Stainless Steel	NBR/316 Stainless Steel
Top Bearing	NBR	NBR/316 Stainless Steel	NBR/316 Stainless Steel
Impeller Seal Ring	NBR/PBT (Valox®)	NBR/PPS (Ryton®)	NBR/PPS (Ryton®)
Intermediate Bearings	NBR	304 Stainless Steel	NBR/316 Stainless Steel
Shaft Washer	Not Required	LCP (Vectra®)	LCP (Vectra®)
Split Cone	Not Required	304 Stainless Steel	304 Stainless Steel
Split Cone Nut	Not Required	316 Stainless Steel	304 Stainless Steel
Sleeve	Not Required	Not Required	316 Stainless Steel
Sleeve Flange	Not Required	Not Required	304 Stainless Steel
Coupling Key	Not Required	Not Required	302/304 Stainless Steel**

NOTES: Specifications are subject to change without notice.

Valox® is a registered trademark of General Electric Co.

Vectra® is a registered trademark of Hoechst Calanese Corporation.

Ryton® is a registered trademark of Phillips 66.

*Stainless Steel option available.

** If using 4" non-standard motors, refer to 329/420/431 Stainless Steel for coupling.

A coupling key is not required.



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only

Inspected by _____

Twp _____ Rge _____ Sec _____

_____ 1/4 _____ 1/4 _____ 1/4

Lat: : : Long: : :

☒ Air ☐ Flowing Artesian

1. WELL TAG NO. D 0029191
 DRILLING PERMIT NO. - - - - -
 Other IDWR No. - - - - -

2. OWNER:

Name DAVE WILLIAMS
Address 1103 MARKET ROAD
City HOMEDALE State MD Zip 21636

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E S
 Twp. 3 North ☒ or South ☐
 Rge. 5 East ☐ or West ☒
 Sec. 22 SE 1/4 NW 1/4 NE 1/4
10 acres 40 acres 160 acres
 Gov't Lot _____ County only
 Lat. : : Long. : :
 Address of Well Site 103 MARKET
 City HOMER
 (Give at least name of road + distance to Road or Landmark)
RD.

Lt. _____ Blk. _____ Sub. Name _____

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	~~Schaler~~ Pounds	
BENTONITE	0	18	8	GROUT

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+1	50	250	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

37 ft. below ground Artesian pressure lb.
Depth flow encountered ft. Describe access port or
control devices: SAP

11. WELL TESTS:

☐ Pump ☐ Bailer

Yield gal./min.	Drawdown	Pumping Level	Time
25-30	35	72	3 HRS
AIR LINE SET AT 150'			

Water Temp. 67° Bottom hole temp. _____
Water Quality test or comments: 13 GRNS.

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

[illegible]

Completed Depth 252' (Measurable)
Date: Started 4-14-03 Completed 4-21-03

13. DRILLER'S CERTIFICATION

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

Company Name KEPNER HETZER DRL Firm No. 93

Firm Official Kenneth M. Smith Date 4-24-03

and
Driller or Operator Kare M. [Signature] Date 4-24-03

(Sign once if Farm Official & Operator)

Attachment A

Daily Fresh Water Requirement For Dairy Facility Worksheet

For Dave Williams

Drinking Water Estimates (see Table 1 & 2)

Holstein weight
Jersey

1400
1000

			Size	Adjustment	Use/day	Total	Total	Acre-feet/Yr
		Number	Use/day	71%		Gal/Day	Gals/Yr.	(AF/a)
Milking Cows		650	35	25 0	22750	22750		
Dry Cows		100	12	8 6	1200	1200		
Total Cows		750			0	23950	8,741,750	26 83
Heifers	Age	% of Herd	Number	Use/day	71%	Total		
	16-24 mo	0 38	285	12	8 6	2442 9		
	13-15 mo	0 12	90	9	6 4	578 6		
	9-12 mo	0 17	127 5	7	5 0	637 5		
	5-8 mo	0 17	127 5	6	4 3	546 4		
	3-4 mo	0 08	60	5	3 6	214 3		
	0-2 mo	0 08	60	3	2 1	128 6		
Total Heifers			750			4548 2	1,660,098	5 09

Total Herd Drinking Water

Deduct Current water license for 200 stock cows
New stockwater needed

2000 730000
31.92
2.24
29.68 afa

Milk House and Parlor Estimate (see Table 4)

Item	Gals/Op	x's/day	Gals/day			
Bulk Tank	120	1	120			
Pipeline	60	6	360			
Backflush	0 5		0			
Cleanup	1000	2	2000			
Cow Prep	0 5	2	650			
Plate Cooler(ignore if recycled)						
Total Milk House and Parlor Water Used:			3130	1,142,450	3.51	
Total Gals/Day				31628		
Total Fresh Water Diverted Annually (af/a consumptive use)					35.4	
Stock water needed				29.68	afa	
Commercial water needed				3.51	afa	
				33.19	afa	
Current right 57-10021	0 05	cfs =	22.50	total		
Current pump capacity			67	gpm		

M.C.

MAR 15 2004

Prepared by
Darwin Vander Stelt



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 6, 2015

DAVE WILLIAMS
3677 MARKET RD
HOMEDALE ID 83628

RE: Scheduling Field Exam for Water Right Permit No. 57-11585.

Dear Mr. Williams:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the week of April 13, 2015**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal conditions during the examination. The permit authorizes domestic stock water & commercial use.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by April 10, 2015.** If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

Patrick Kelly.
Water Resource Agent