

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 61-7504

Exam Date: 9/20/2012

1. Current Owner: MOUNTAIN HOME HIGHWAY DISTRICT
PO BOX 756
1208 NW MASHBURN
MOUNTAIN HOME ID 83647
2. Accompanied by: Carl Phares
Phone No: 208-587-3211
Address: same as above
Relationship to Permit Holder: Manager

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW1/4NE1/4 Sec. 10, Twp 03S, Rge 06E, B.M. ELMORE County

Method of Determination: Visual Inspection and GPS

2.

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
03S	06E	10			X														

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
03S	06E	10			X														

Method of Determination: Visual Inspection and GIS

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/pipe i.d. as applicable.

YES Aerial Photo Attached (required for irrigation of 10+ acres).

YES 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
Main Well A0008949	Goulds	30 Hp	20-0086	Submersible	3 INCH DISCHARGE

*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: Pump Curve and Theoretical Calculations used to determine flow rate.

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method:

Theoretical measurement equals 0.58 cfs.
Pump curve equals 260 gpm or 0.58 cfs.
Permit allows 0.54 cfs.

I recommend 0.54 cfs with 0.50 cfs for Fire Protection and 0.04 cfs for Domestic.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Domestic use limited to 2,500 gallons per day.

Fire Protection does not require a volume limitation.

G. NARRATIVE/REMARKS/COMMENTS

Water is diverted from the well through pressure tanks to the shop and office space. A water line is used to fill fire tankers and water trucks. Mountain Home Fire Department, Farmers Coop Fire Department, Elmore County Fire Department, State of Idaho Fire Agencies, and BLM Range Fire Fighters use this system to fill their water trucks.

Water Right 61-7313 overlaps the Place of Use, but it is for Stockwater purposes and not connected into the water system for this water right. It was not included as a Place of Use overlap because no livestock are kept at the facility.

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>
FIRE PROTECTION	01/01 to 12/31	0.500 CFS	
DOMESTIC	01/01 to 12/31	0.040 CFS	
<u>Totals:</u>		0.540 CFS	

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 – Steven J. Baker (Hydrographer)

Field Examiner's Name  Date 9/26/2012

Reviewer _____ Date _____

State of Idaho
Department of Water Resources

Attachment To Water Right License

61-7504

This map depicts the FIRE PROTECTION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

R06E



0 0.04 0.08 0.16 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters



State of Idaho
Department of Water Resources

Attachment To Water Right License

61-7504

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

R06E



0 0.04 0.08 0.16 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters



[illegible]

587-3211

HIDDLESTON
PUMP COMPANY

S/N 20-0086

Name mtn Home Hwy Dist Date Installed 5-19-04

Address 1208 NW Mashburn Rd

Warranty 1

Pump Model 275 H20 Goulds 7/03

Motor ~~Frank~~ HP 30 RPM 3450 Phase 30 Volts 460 Date Code 04B19

Static 103 Setting 252

Depth 400 Pipe 3"

Well Yes Wire No. 6-3

Goulds Pumps

Residential Water Systems

Model 275H

SELECTION CHART

Horsepower Range 10 - 40, Recommended Range 80 - 440 GPM, 60 Hz, 3450 RPM

Pump Model	HP	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)															
		PSI	25	50	75	100	125	150	175	200	250	300	350	400	450	500	
275H10 2 2 Stages	10	0		425	356	255	108										
		20	370	283	135												
		30	292	140													
		40	145														
		50															
275H15 3 3 Stages	15	0			416	375	325	248	140								
		20	423	303	335	268	158										
		30	385	338	270	180											
		40	343	283	170												
		50	289	175													
275H20 4 4 Stages	20	0				419	385	350	308	248	78						
		20		435	393	355	315	263	180	96							
		30	425	392	356	315	263	183	103								
		40	395	363	323	273	185	118									
		50	363	326	275	195	120										
275H25 5 5 Stages	25	0				440	423	398	370	338	250	115					
		20		448	433	403	375	343	310	265	130						
		30	450	428	405	376	345	313	267	195							
		40	430	407	378	345	313	267	196								
		50	410	380	345	313	268	203									
275H30 6 6 Stages	30	0					441	421	400	375	325	250	135				
		20			446	425	403	378	356	330	257	145					
		30		447	427	405	380	358	331	300	198						
		40	448	428	406	382	360	332	302	268	160						
		50	430	407	383	363	334	304	270	210							
275H30 7 7 Stages	30	0						429	420								
		20				442	425	405	388	360	320	258	183	78			
		30			443	426	405	389	368	345	293	215	132				
		40		444	427	406	390	369	347	323	265	180	90				
		50	445	428	407	391	369	348	324	300	233	143					
275H40 8 8 Stages	40	0							436	421	387	353	311	250	175	95	
		20					440	425	408	392	356	346	258	183	105		
		30						425	409	393	375	338	290	220	150		
		40			441	426	410	394	376	359	318	262	188	113			
		50		442	427	412	395	377	360	341	300	225	158				
275H40 9 9 Stages	40	0								448	435	407	376	338	303	249	180
		20						450	435	423	410	378	342	307	242	185	122
		30					449	438	423	411	395	365	332	285	253	155	80
		40			448	439	424	413	396	381	350	310	260	193	125		
		50		447	440	425	414	396	382	366	333	288	225	163	86		
		0															
		60	446	440	425	415	397	383	367	350	313	263	199	128			

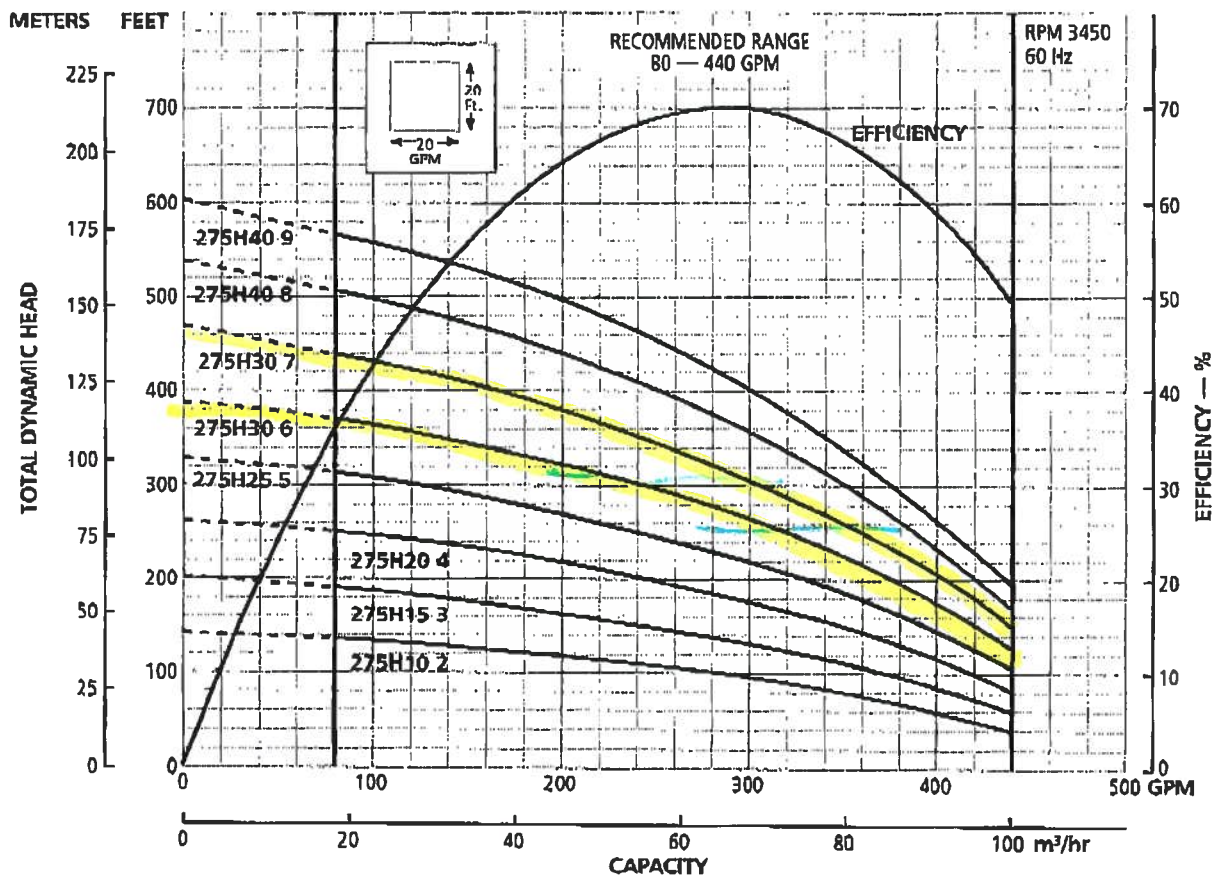
USE ONLY WITH 3 PHASE MOTORS. ROTATION IS DIFFERENT THAN 1 PHASE MOTORS.



ITT

Residential Water Systems

Model 275H



Three Phase Only, due to required CW Rotation.

Curve Reference SU 484



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

B100-275H February, 2009

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Engineered for life

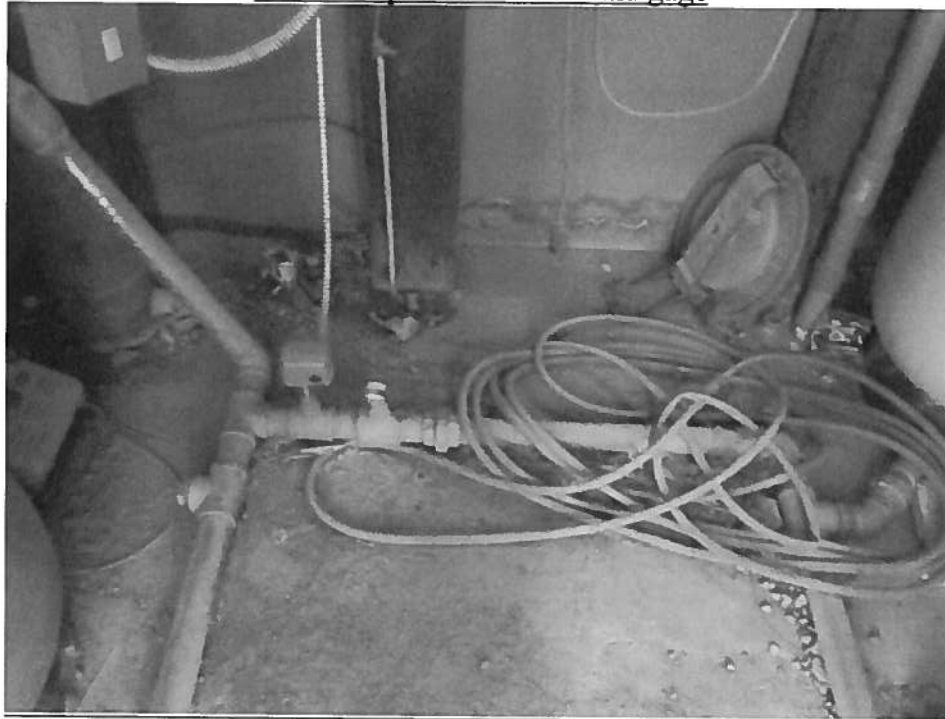
PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/20/2012

FILE NUMBER 61-07504

Picture of well



Picture of pressure switch and gage



PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/20/2012

FILE NUMBER 61-07504

Picture of pressure tanks



Picture of pressure tanks



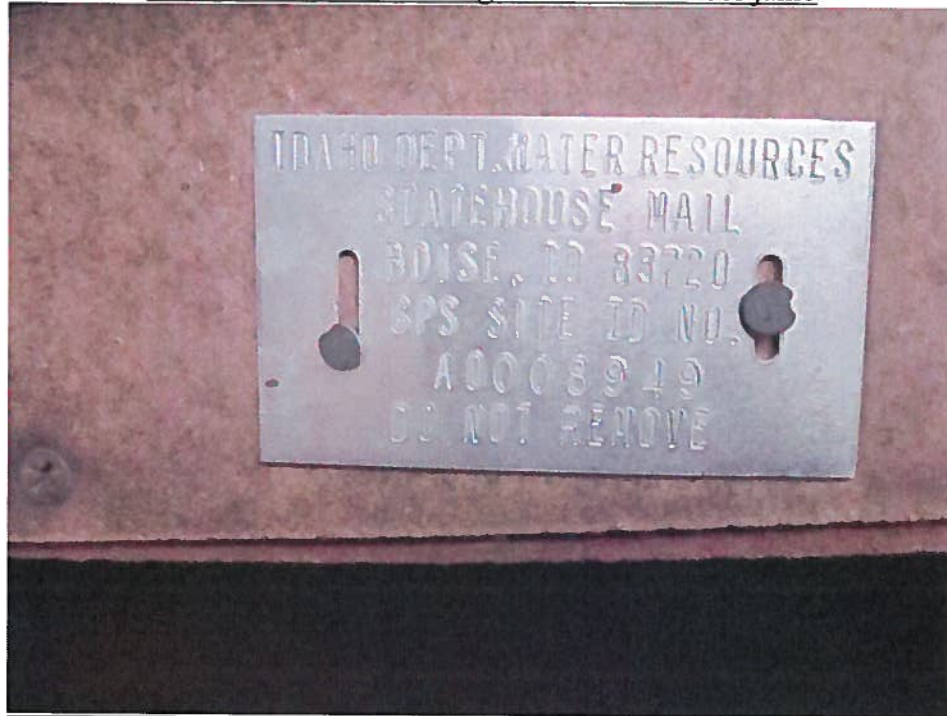
PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/20/2012

FILE NUMBER 61-07504

Picture of pressure tank plumbing



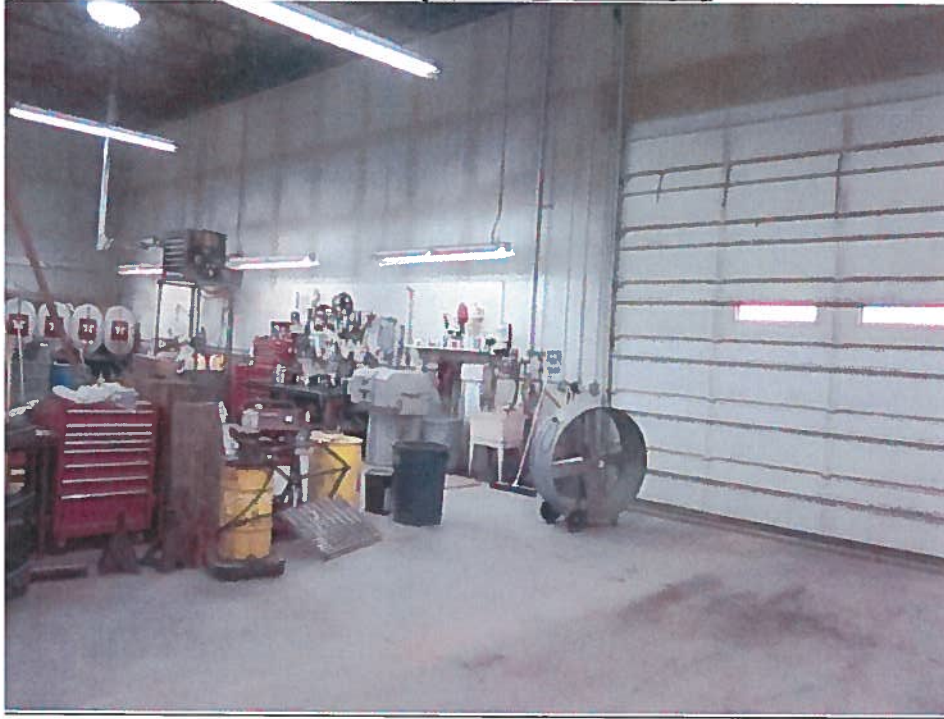
Picture of IDWR Well Tag on well house door jamb



PHOTOGRAPHER AND DATE OF PHOTOS STEVEN J BAKER 9/20/2012

FILE NUMBER 61-07504

Picture of shop (sink in the distance)



Picture of shop (faucet in left center, far distance)

