

WA License #'s (ALCORH824KJ) (ALCORPF825RP) (ALCORPF8259P)

AZ ROC License # 339937

Bonded and Insured

WELL INSPECTION REPORT

CUSTOMER NAME:



PROPERTY ADDRESS:



INSPECTION DATE:

2/26/2024

INSPECTOR NAME:

Josh Inman, CPI - Service Manager

WATER SOURCE INFORMATION			
SOURCE: DRILLED ☑ OTHER ☐ Single Family Well ☑ Shared Well ☐ Community Well ☐ WELLLOG LOCATED ONLINE: YES ☑ NO ☐ IF SO, WELL ID: WELL DEPTH: 205'			
WELL LOCATION : Outside □ Inside Pump House ⊠ Vault/Underground □ Unknown □ Other □			
GOOD ACCESS TO WELL HEAD: YES □ NO ☒ CASING TYPE & DIAMETER: Steel 8"			
DISTANCE FROM POTENTIAL POLLUTION SOURCES: 100' +			
WELL HEAD INFORMATION: CAP ☐ SANITARY SEAL ☐ VENTED? YES ☐ NO ☐ VERMIN PROOF? YES ☐ NO ☐ OVERALL CONDITION: GOOD ☐ OPERABLE ☐ NEEDS REPLACEMENT ☐			
NOTES: Roof of pump shed would have to be removed to replace the well pump. Barn/Irrigation well			
WELL PUMP AND CONTROL EQUIPMENT			
TYPE OF SYSTEM: Submersible pump, Pressure tank, Control box			
SUBMERSIBLE PUMP: YES ⋈ NO ☐ LOCATION OF PUMP: In well			
BRAND/MODEL: Unknown HP: 3 HP PHASE Single			
VOLTAGE: 230 MAX AMP: 17.0 RUNNING AMP: 18.6 PUMPING RATE: 10.5 GPM			
OHMS VALUES: RY: 4.5 BY: 1.8 RB: 5.7 WIRE SIZE: # 10 Flat iacket			
PUMP'S RUNNING DURATION FROM CUT IN TO CUT OUT: 7 seconds			
GROUNDING? YES □ NO ☒ CONDITION: GOOD □ OPERABLE ☒ NEEDS REPLACEMENT □			
CONTROL BOX: YES NO BRAND: Franklin Electric			
HP 3 HP CONDITION: GOOD ☑ OPERABLE ☐ NEEDS REPLACEMENT ☐			
VFD CONTROLLER: YES ☐ NO ☒ BRAND:			
HP:CONDITION: GOOD OPERABLE NEEDS REPLACEMENT			
WELL PUMP AND CONTROLLER NOTES:			
No contactor in control box. The ohms values are at the high end of the manufacture specs which is a sign of age and wear. Pump was constantly cycling on and off due to bad pressure tank.			
Control box date code: 12/27/2002			
Starting meter — 3681 Ending meter — 3786 Pump duration - 10 min Gallons pumped - 105			
Average GPM — 10.5			

WATER STORAGE			
RESERVOIR: YES □ NO ☒ BURIED? YES □ NO □ TYPE:			
QUANTITY:SIZE:LOCATION:			
CONDITION: GOOD ☐ OPERABLE ☐ NEEDS REPLACEMENT ☐			
NOTES: No reservoir on site.			
BOOSTER PUMP AND CONTROL EQUIPMENT			
DOOGTED DUMP() VEC TO NO M LOCATION OF DUMP()			
BOOSTER PUMP(s): YES NO LOCATION OF PUMP(s): QTY:			
WIRE SIZE: BRAND/MODEL:			
VOLTAGE:MAX AMP: RUNNING AMP:PUMPING RATE:			
OHMS VALUES: RY:BY:RB:			
PUMP'S RUNNING DURATION FROM CUT IN TO CUT OUT:			
GROUNDING? YES □ NO □ CONDITION: GOOD □ OPERABLE □ NEEDS REPLACEMENT □			
CONTROL BOX: YES NO QUANTITY: BRAND:			
HPCONDITION: GOOD □ OPERABLE □ NEEDS REPLACEMENT □			
VFD CONTROLLER: YES NO QUANTITY:BRAND:			
HP:CONDITION: GOOD OPERABLE NEEDS REPLACEMENT			
NOTES: No booster system on site.			

FILTRATION AND WATER TESTING			
IS THERE CURRENT FILTRATION EQUIPMENT? YES □ NO ☒			
BRAND:	TYPE:		
SIZE? APPROX. AGE:			
CONDITION OF FILTRATION: GOOD ☐ OPERABLE ☐ NEEDS REPLACEMENT ☐			
NOTES:			
No Filtration equipment			
FIELD WATER TESTING PERFORMED BY INSPECTOR			
Raw H20 Mineral Test	Treated H20 Mineral Test	Good Operational H20 Parameters	
	PH	PH 6.8-7.8	
ND Iron	Iron	Iron 0.5 ppm	
Grains Hard	Grains Hard	Hardness Soft – 3 Grains	
N/A TDS	TDS		
LABORATORY TESTING			
WATER SAMPLES TAKEN BY ALCORN PUMP & SENT TO THE LAB: YES \(\text{NO } \text{MO } \text{MO } \)			
WERE SAMPLES TAKEN POST FIL	LTRATION? YES 🗆	NO 🛛	
SAMPLES WERE TAKEN AT/FROM: Mineral testing at yard hydrant outside of pump shed			
TAKEN TYPE: BACTERIA ARSENIC NITRATE LEAD OTHER :			
THE WATER SAMPLES TAKEN HAVE BEEN SUBMITTED TO THE LAB, PLEASE NOTE WE ARE THE THIRD-PARTY HANDLER & WATER SAMPLES CAN TAKE 7-10 BUSINESS DAYS BEFORE RECEIVED BACK FROM THE LAB! ONCE THE RESULTS ARE RECEIVED BACK, WE WILL FORWARD THOSE OVER VIA EMAIL ONCE THE INVOICE IS PAID AND SAMPLES HAVE BEEN REVIEWED.			
NOTES ON WATER TESTING:			
The EPA does not regulate pr	rivate wells, private well owners are responsible	for the safety of their water source:	

The EPA does not regulate private wells, private well owners are responsible for the safety of their water source https://www.epa.gov/private wells

SUMMARY

SUMMARY OF THE WELL INSPECTION AS FOLLOWS:

The well and pump related equipment are located behind the barn in a separate shed. Water is pumped by a submersible pump in the well up to the pressure tank located in the shed. Water leaves the pump shed in a single 3/4" Sch 40 PVC waterline.

The well pump shows signs of wear and age in both the electrical ohms values of the motor windings and in the running amperage. The ohms values are at the high end of manufacture specs and the running amperage exceeds maximum manufacture specs. The pressure tank has no air in it and is waterlogged which causes the well pump to cycle on and off during use far more than it should which is putting additional wear and tear on the well pump. The pressure switch has a lot of carbon build up on the electrical contacts and is not sized appropriately for this well pump system and its components. Also noted, the pressure gauge is not functioning properly. As seen in the pictures the electrical wiring inside of the pump shed is not in conduit.

RECOMMENDATIONS

With every water well system we recommend Annual Well Service and safety checks. Servicing your water system each year will help extend the lifespan of your well pump equipment.

Alcorn Pump recommends that private well owners test their drinking water each year. Contaminants can change and these contaminants rapidly could affect a person's health. Visit the Department of Health for a list of what you should test for and when. WWW.AZDHS.GOV

Other specific recommendations are as followed, and estimates may be available upon request:

1) While the system is operating at this time it is recommended that the well pump, pump control box, pressure tank, pressure switch and pressure gauge be replaced.

This Report is not to be used to determine compliance with any regulations, laws, or rules. Its sole purpose is to attempt to evaluate the operating performance of the well and pump(s) at the time of inspection. Anything can change at a moment's notice.

PHOTOS



Well head Pressure tank and Control box





Pressure tank date code sticker



Well head



Running amperage of well pump



Pump Flow test at yard hydrant



Pressure switch