

ORIGINAL



0000102231



**Mount Tipton
Water Co, inc.**

P.O. Box 38
15996 Ironwood Drive,
Dolan Springs, AZ 86441
928-767-3713 Fax: 928-767-3053

September 3rd, 2009

Docket Control Center
Arizona Corp. Commission
1200 West Washington Street
Phoenix, AZ 85007

RE: Docket W-02105A-07-0510
ADEQ Report 123663

Enclosed please find our response to your request regarding full compliance with ADEQ. Please note we have included a copy of the report from ADEQ for reference along with our response to ADEQ. We have included 3 attachments as stated and they can be found at the back of the report.

Please note that we are in compliance with ADEQ at this time and we will continue to work on the items that are not completed.

If you should have any questions please don't hesitate to contact me.

Thank you.

Sincerely,

Charlotte Cleveland
Business Administrator
Mt. Tipton Water Company, Inc.

Arizona Corporation Commission

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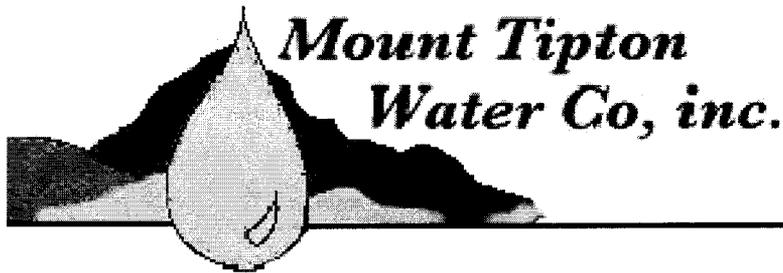
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P.O. Box 38
15996 Ironwood Drive,
Dolan Springs, AZ 86441
928-767-3713 Fax: 928-767-3053

In reference to ADEQ Report Inspection ID # 123663

Major Deficiencies:

Monitoring and Reporting

1. The system currently has four unresolved monitoring and reporting violations

Mt. Tipton Water Company is current on all its monitoring and reporting to date. The four unresolved monitoring violations had actually been completed and the tests were sent to ADEQ as requested.

Wells

2. ADEQ requests that the system repair and seal the direct openings into well number 1. Extra silicone sealant should be added to well #2,3, and 6.

The direct openings into Well 1, 2, 3. and 6 have been sealed as requested.

3. ADEQ requests that you remove the galvanized pipe and fittings from well number 1. This also applies to any other well, within the system, with galvanized pipe on the surface.

Removal of galvanized pipe is being worked on at this time. Due to the lack of funds this project was not able to be completed but will be completed by March of 2010.

4. In order to reduce the current level of water loss and stop erosion around both the building base and the discharge line; ADEQ requests that you replace the auto sensor on the well #6 to prevent excess water from overflowing the storage tanks at night.

The sensor on well #6 is working.

5. ADEQ requests that you repair the leak at the center well head on well number 8.

Repaired leak at well head #8

6. ADEQ requests that you secure the well site #9B. preferably with a fence that meets ADEQ standards.

The security at well #9B is being addressed with our stimulus funding. Our estimated completion date for the fencing will be Nov. of 2009.

7. ADEQ requests that you furnish the ADWR well permit, well number, ADEQ source approval data and Construction Certification for each well in system.

Source Approval for the well not listed in the database is being worked on with our stimulus funding. For all other wells see attachment #1

8. ADEQ requests that the water company supply the same data requested in Item #4 for this well.

The non potable well line has been disconnected from the system.

9. Due to location and form of these three wells and the conditions identified they are probably ground water under the influence of surface water. ADEQ requests that the your engineer conduct and MPA test and other testing which may be needed to determine if the wells are GWUI or can be classified as true groundwater.

The wells # 8,9, and non potable MPA test well be completed by Dec.. 2009. We have completed 1 MPA Test for Well # 10 the non- registered well and the results were good. See attachment #2 for test results. Source approval and construction approval will be completed by 2010.

Kevins Tanks

10. Clean or repair black plastic tanks at Kevin's yard.

The funding is not available at this time to clean or replace these tanks. We will look at completing this recommendation when we have completed our Well, Pump and spring project.

11. Transfer pump #5 is leaking. The pump requires repair or replacement at well

Transfer pump at well #5 has been repaired and is not leaking. We will be replacing this pump with our stimulus funding.

12. Storage tank base for well #5 is failing due to loss of steel and base retention ring. ADEQ requests that the ring be repaired or replaced and the lost base fill replaced.

The retention ring at well #5 has been replaced we will have the base fill replaced by the end of the summer .

13. ADEQ requests that you repair the eroded Mid range tanks bedding and broken ring .

Mid Range Tanks bedding and broken bedding ring have been repaired.

EPD'S

14. ADEQ requests that the required sampling taps be installed on each EPDS which does not already have one.

Taps will be installed on all EPD's that do not have them. This was on hold due to lack of funds. The Springs and Chambers well have been completed.

Booster/Tranfer Stations

15. ADEQ requests that you repair or replace the valve packing in the leaking pump in booster station # 1.

As requested the valve packing on booster station number pump has been replaced.

16. ADEQ requests that you repair or replace the out of service pump at the Mid-Range booster station.

New pump has been installed at the Mid-Range booster station.

17. ADEQ requests that the pumps in question be upgraded and the interconnect piping be increased in diameter to a size capable of handling the resupply demand.

Pumps will be replaced with stimulus funds by March of 2010.

2. **ADEQ requests the eroded pit at Kevins tanks and leaking roof be repaired and the pumps be replaced and upgraded.**

This has been completed. Pumps will be replaced with stimulus funding by 12-31-09.

18. **ADEQ requests that a constructed air gap meeting standards be installed and the galvanized piping be removed from the standpipe.**

All galvanized piping has been removed from the standpipe and the air gap will be installed when funds are available and we locate where to buy one.

19. **ADEQ recommends that prior to submittal a constructed air gap be added to the top of the Detridal Well standpipe. And all galvanized be removed from site.**

Documentation for Detridal Well has been submitted to ADEQ. See Attachment #3. Galvanized pipe will be removed when funds are available and the constructed air gap will be installed when we locate a distributor for the item.

20. **ADEQ requests that the failed pump located at the Mid range transfer station be repaired or upgraded to higher capacity pumps.**

Mid range transfer station pumps have been repaired.

Tanks

4. **ADEQ requests that the missing block and bedding at mid range tank be repaired.**

Missing Block and bedding at Mid Range tank

5. **ADEQ has requested the ladder on tanks be secured.**

This will be completed by 12-30-09

- 6 & 7.. **ADEQ requests that the bedding on upper range tank and the water level gauge scale be replaced or repainted.**

Bedding and upper range tank will be repaired when a vehicle that can climb the hill is obtained to do the repair. Should be completed by end of the year.

8. **ADEQ requests that the base ring for the tank at well #5 be repaired and the lost fill replaced. Also the water flow meter needs to be repaired or replaced.**

Water flow meter has been replaced and the ring also..

Distribution System

2. **Leaks are being repaired and lines replaced as needed. Please see attachment.**

Inspection Recommendations

1. Meters are being replaced and should be completed by March of 2010. We will be looking into a Master Plan in 2010 as funding is available. We will not be bringing the Detridal Well into the system at this time nor are we looking at this as a solution.
2. Exposed PVC pipe has been wrapped or painted.
3. Electrical controls have been secured.
4. All access hatches have been sealed.

5. Overflow lines from storage tanks have been sealed.
6. The road situation will address in our Master Plan once funding is available.
7. Site gauge on well number 5 has been repaired.
8. Currently ACC has deemed that until our water supply is increased we cannot obtain a larger storage tank.
9. Well vents on Well #1 and #3 have been rotated.
10. Sample tab on well #1 has been replaced.
11. Well #2 pipe nipple has been repaired.
12. Sampling tap for well #3 has been replaced.
13. Discharge line for well #5 has been replaced.
14. It has not been determined that a Chlorine Injector valve is not needed at this time.

docket # W-02105A-08-026

ALL-STATE LEGAL
EXHIBIT
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Janet Napolitano
Governor

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Stephen A. Owens
Director

2008 AUG 20
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DOCKET CONTROL

August 19, 2008

Inspection ID:123663

Mt. Tipton Water Co.
Attn: John Janek
P. O. Box 38
Dolan springs, AZ, 86441

RE: Mount Tipton Water Co, PWS: 08-059, Place ID : 5776

Dear Mr. Janek:

Please find enclosed a copy of a sanitary survey report for the above referenced facility. The inspection was performed on **July 9, and August 7, 2008**, in accordance with Arizona Administrative Code R18-4-101, et sequi, R18-5-101, et sequi, and Arizona Revised Statutes 49-101, et sequi. The report may include a summary of inspection, checklist and inspection rights form, or other information regarding the facility.

If there are any questions please contact A. T. Wilson at the referenced address, or at 928-773-2708.

Sincerely,

Robert E. "Buck" Olberding
Field Services Manager
Northern Regional Office
Arizona Department of Environmental Quality

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AUG 20 2008

LEGAL DIV.
ARIZ. CORPORATION COMMISSION

Cc: ADEQ/WQCS

- ATTN: Cynthia Campbell, Section Manager
Arizona Corporation commission- 1200 W. Washington St., Phx., AZ, 85018
- ATTN: Director of the Utilities Division & Ms. Dorothy Hains, P. E.
Arizona Department of Water Resources- 3550 N. Central Ave., Phx, 85012
- ATTN: Mike Ball, Sr. Compliance Enforcement Officer
MCHD/ES/Kingman-3675 E Hwy 66, Kingman, 86401
- MCP&Z-same

Northern Regional Office
1801 W. Route 66 • Suite 117
Flagstaff, AZ 86001
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433
Tucson, AZ 85701
(520) 628-6733

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Northern Regional Office
1801 West Route 66, Suite 117, Flagstaff, Arizona 86001

INSPECTION REPORT

Facility: Mt. Tipton W. C.	System # 08-059
Inspected By: A. T. Wilson	Date: 7/09/08 IID:123663
Accompanied By: Bob Martinez-MCHD, Frank Soto-ASUA, John Janak, others	County: Mohave
Recommendations By: A. Wilson	Report Date: 8/19/08
Number of Plants: 0	Wells: 9
Population: 3900	Service Connections: 898

COMPLIANCE SUMMARY

The water system is in compliance with the following ADEQ requirements:

	YES	NO	N/A	N/E
Certified Operator (System Grade)	x			
Physical Facilities		x		
Monitoring and Reporting		x		

INSPECTION SUMMARY

The survey of the above referenced facility included:

An inspection of the physical facilities	X
Interview with personnel	X
A review of ADEQ monitoring and reporting databases	X
A review of the NRO files	X
A review of files at the facility	

The following observations and recommendations were based upon the criteria checked above:

Major Deficiencies:

Monitoring and Reporting:

1. The system currently has four unresolved monitoring and reporting violations; see the attachment. Contact the ADEQ Water Quality Compliance Data Unit at 1110 W. Washington, Phoenix, 85007, to resolve these items. Please copy the NRO with all related correspondence.

Wells;

2. ADEQ requests that the system repair and seal the direct openings into well number 1. Extra silicone sealant should be added to well # 2, 3 and 6
3. ADEQ requests that you remove the galvanized pipe and fittings from well number 1. This also applies to any other well, within the system, with galvanized pipe on the surface. This is a repeat violation.
4. In order to reduce the current level of water loss and stop the erosion around both the building base and the discharge line; ADEQ requests that you replace the auto sensor on well number 6 to prevent excess water from overflowing the storage tanks at night.
5. ADEQ requests that you repair the leak at the center well head on well number 8.
6. There is currently no security of any type at the well site for well # 9B. Consequently, ADEQ requests that you secure the well site for well # 9B; preferably with a fence that meets ADEQ Engineering Bulletin # 10 standards.

7. ADEQ has no records of either source approval sampling or Approval of Construction for any of the wells on the system. The Department requests that you furnish the ADWR well permit, well number, ADEQ source approval data and Construction Certification for each well on the system.

There is a possibility that the posted number for well # 8 actually belongs to well number 9B. Well number 9B is not listed on the system in our database, however, it is connected into the system. ADEQ requests that you furnish the same documentation for this well.

8. The well identified as "non-potable" located within the well # 8 yard is plumbed into the delivery system and was formerly used in the system. It is temporarily valved off to flow to the non-potable tanks. ADEQ practice requires that all wells which are physically connected to the system be treated as if they are in use. ADEQ requests that the water company supply the same data requested in item # 4 for this well. Additionally, supply construction data including well depth and casing screen depth.

9. Due to the location and form of these three wells (8, 9B and Non-potable) and the conditions identified in AAC R18-4-301.01 they are probably ground water under the influence of surface water(GWUI); as such they are required to be treated as surface water.

ADEQ requests that the company's Engineer conduct an MPA test and other testing which may be needed to determine whether the wells are actually GWUI or can be classified as true groundwater. If the testing determines that the sources are in fact GWUI the Engineer must submit plans for the required water treatment plant to the Drinking Water Plan Review Unit at 1100 W. Washington St., Phx., 85007 for an Approval to Construct.

Once that Approval is issued, the plant must be constructed and As-Built Plans with required closure documentation including all

testing data, disinfection data and an Engineer's certificate of Completion. The documentation must be submitted to the NRO Plan Review Unit in Flagstaff for an Approval of Construction before the plant can be placed into operation.

Tanks:

10. Downtown (Kevin's tanks); the black plastic tanks require cleaning as they have some sort of residue coating the insides of the tanks. The access portals need to be locked. The metal tank is leaking and near failure due to corrosion. It requires either extensive repair or replacement; preferably with a larger tank.
11. The transfer pump which feeds the primary storage tank for well # 5 is leaking. This condition prevents the pump from operating at its required level of efficiency. This in turn delays the sites capability to resupply the system; particularly during high demand periods. The pump requires repair or replacement.
12. The storage tank base for well # 5 is failing due to loss of the steel base retention ring. ADEQ requests that the ring be repaired or replaced and the lost base fill be replaced.
13. Mid Range Tanks; ADEQ requests that you repair the eroded tank bedding and broken bedding ring here also.

EPDS':

14. The actual EPDS' for this system are located at the discharge lines from the storage tanks. These will be at the well # 5 storage tank, Kevin's tanks, Dolan tanks, mid range tanks and the upper range tanks. ADEQ requests that the required sampling taps be installed on each actual EPDS which does not already have a tap.

Booster / Transfer Stations:

15. ADEQ requests that you repair or replace the valve packing in the leaking pump in booster station number 1. The leak is reducing the pump efficiency and contributes to the inability of the system to meet supply requirements during periods of high demand. It also contributes to the probability that the pump will fail.
16. ADEQ requests that you repair or replace the out of service booster pump at the Mid-Range booster station. The out of service pump reduces the system's ability to meet demand. Both pumps at this site are substandard for need and should be upgraded to higher capacity pumps in order to be able to refill the upper range tanks in a more expeditious period of time. 4 to 5 days to refill these tanks, even with aid from the interconnect pumps is too long a period.
17. System Interconnect; As originally constructed the connection consists of 3 inch piping and two limited capacity transfer pumps (Kevin's Station pumps). The pumps are over 40 years old and due to system growth, are now undersized for the current resupply capacity needed and the 3 inch line lacks the carrying capacity as illustrated by the systems inability, in conjunction with the mid-range booster station, to resupply the upper range tanks. ADEQ requests that the pumps in question be upgraded and the interconnect piping be increased in diameter to a size capable of handling the resupply demand.

Standpipes:

18. Downtown standpipe;
 - A. ADEQ requests that a constructed air gap meeting Bulletin # 10 standards be installed in the standpipe.
 - B. ADEQ requests that all galvanized piping be removed from the station.

19. Detridal (Well # 4); Although owned by the system, it is not currently plumbed into the system. Consequently it actually constitutes a separate, independent, water system. However the well acts as a source of hauled water when needed to supplement water shortages for the Mt. Tipton system.

The well will be designated by the Department as its own system Please submit copies of all source approval sampling, well and site plans and required plan review applications to the Departments Plan Review Unit in Phoenix for an Approval to construct.

As soon as this approval is received, submit the AS-Built plans and required closure documentation to the NRO for an Approval of construction.

ADEQ recommends that prior to submittal of the plans, a constructed air gap be added top the standpipe and all galvanized pipe be removed from the site. These changes should be noted in the plans.

Minor Deficiencies:

Wells;

1. As the site is completely lacking in security, ADEQ requests that the system complete the fence around well # 7 and the storage tanks at Kevin's yard.

Booster / Transfer Stations:

2. Kevins tanks; ADEQ requests that the eroded "pit" at the discharge line from the booster station structure be back filled to protect the piping. The leaking roof for this structure is causing electrical problems with the transfer pumps and must be repaired to prevent further damage. The pumps are worn and one or both of the pumps themselves are frequently out of service and need replacement. (See item # 17.)
ADEQ requests that the pumps be replaced and upgraded.

20. ADEQ requests that the failed pump located at the Mid range transfer station be repaired and when possible both pumps should be upgraded to higher capacity pumps.

Tanks:

4. ADEQ requests that you replace the missing block and repair the tank bedding on the mid-range tanks.

5. ADEQ requests that the tank access ladder on the same tanks be secured.

6. ADEQ requests that the visual water level gauge scale on the Older upper range tank be replaced or repainted.

7. ADEQ also requests that the bedding on the older upper range tank be repaired.

8. ADEQ requests that the base ring for the storage tank for well # 5 be repaired and the lost fill be replaced.
The water flow meter for this well is not functioning, without the meter the well flow cannot be measured, ADEQ requests that the meter be repaired or replaced. .

Distribution System:

9. A portion of the overall water loss is due to leaks in the distribution system, some of these leaks are known. ADEQ requests that all locatable leaks be repaired and lines replaced as necessary.

Inspection Recommendations:

1. The system has experienced several recent water outages due to ageing equipment or substandard water line failure and the inadequate interconnection between the Dolan system and the Mount Tipton system.. ADEQ requests that the company conducts a survey of the system and determine which equipment and lines require replacement or upgrading. Particularly, the survey should locate and mark all existing valves within the distribution system which cannot now be located. Those valves which have failed should be replaced.

Delivery mains in the distribution system vary from 1.5 inches to 6 inches in diameter. Many of the old lines are very long and are "dead-end" lines that require extra maintenance and result in monthly water loss. Consideration should be given to replacing the small diameter mains and looping as many of the mains as possible to enhance efficiency of delivery and reduce maintenance.

According to the data submitted to the Department by the system, within the last 12 months the system has "lost" over 12 million gallons of water due to leaks and faulty service meters.

The replacement of these meters should be a priority as the additional income from the recovered loss through the meters will help alleviate the financial shortfalls that the system is experiencing.

The construction of the surface water treatment plant (if required) should enable the system to bring the "non-potable" well back on line..

The survey information should be used to help develop a Master Plan for the system. This plan should be developed under the supervision of a Professional Engineer registered in the State of Arizona. It should indicate current conditions and make proposals for future developments to bring the system into compliance with professional engineering standards and all current Departmental Rules. It should also develop requirements and feasibility of bring the Detritial Well (# 4) into the system.

2. ADEQ requests that all exposed PVC pipe in the system should be wrapped or painted to protect it from UV exposure.
3. ADEQ requests that you secure the electrical controls for the wells and the booster stations. This request also applies to all other sites on the system. This is necessary to protect the controls from tampering or other vandalism.
4. ADEQ requests that all access hatches on all storage tanks be sealed with appropriate air and insect tight seals. The access ports for the visual gauge cables and any electronic cable ports also should be sealed.
5. ADEQ requests that all overflow lines from the storage tanks be sealed with either 16 gauge screen, or flapper valves to prevent insect intrusion into the tanks.
6. Cumulative grading of the drainage surface from Pierce Ferry Road Has apparently resulted in lowering of the ground level over the buried mains that parallel the road. Vibration and weight transfer from the heavy bus and truck load now on the road is resulting in line failure in these mains.
ADEQ requests that as part of the Master Plan, the lines be relocated, placed into deeper trenches and buffered against further wear from road traffic.

7. ADEQ requests that the site gauge on the pressure tank for well number 5 be repaired or replaced.
8. The original plans for well # 5 called for a 60,000 gallon storage tank. A 10,000 gallon tank was installed instead. This storage capacity is proving inadequate to system needs. ADEQ requests that the storage tank be upgraded to the planned 60,000 gallon tank.
9. ADEQ requests that you rotate the well vents on well # 1 and # 3 so that the vent opening is not vulnerable to weather events (rain, etc.). This requirement also applies to those other sites with the same problem.
10. ADEQ requests that you remove the corrosion or replace the sampling tap for well # 1.
11. ADEQ requests that you replace the $\frac{3}{4}$ inch threaded pipe nipple on well number 2 as the existing one is loose.
12. ADEQ requests that the sampling tap for well # 3 be replaced.
13. ADEQ requests that you repair or replace the meter on the discharge line for well # 5.
14. ADEQ requests that Chlorine injector valves be installed on the discharge line from each well and that a portable standby chlorinator and chemicals be purchased to be used when needed.

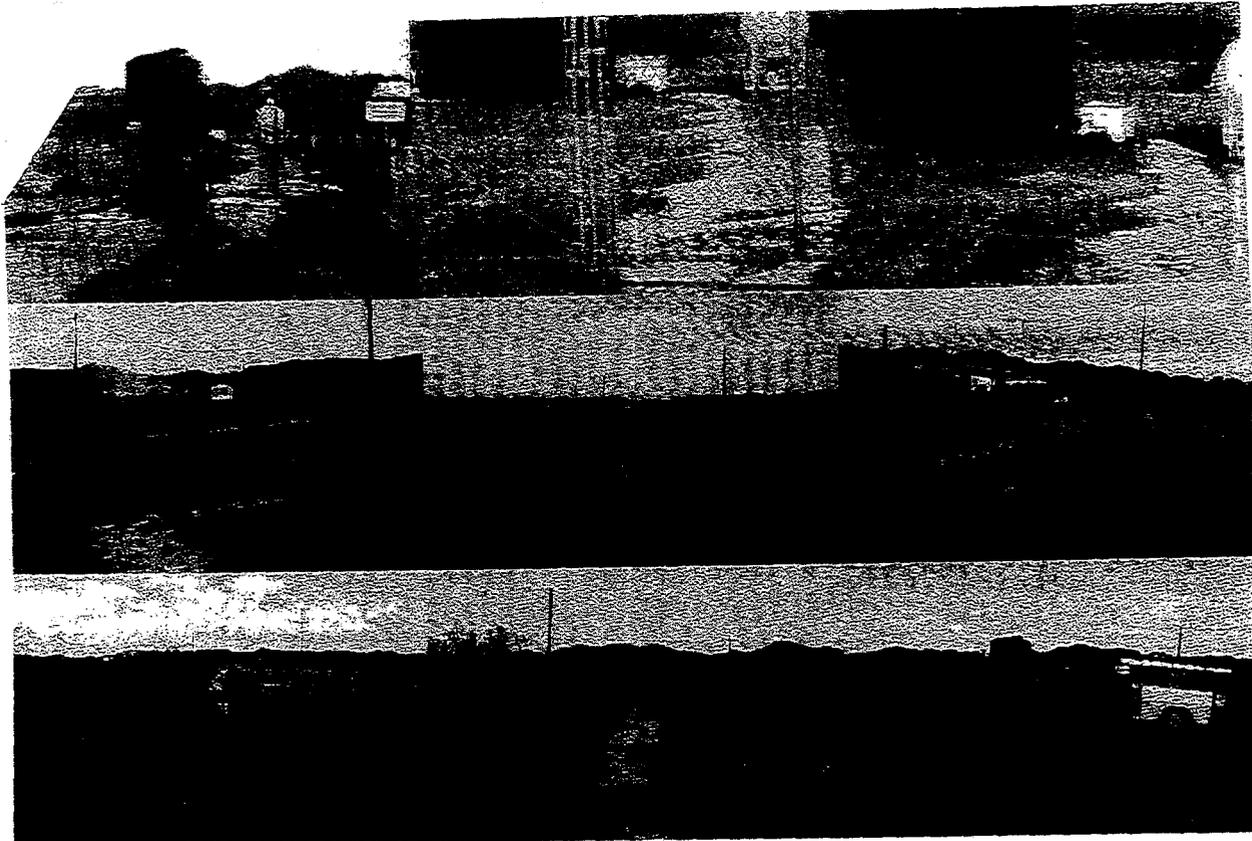
Facility Response Guidelines:

- 1) Within 30 days please bring to the attention of ADEQ any determinations you believe are in error.

- 2) Major Deficiencies are subject to a Notice of Violation (NOV), whereas Minor Deficiencies are subject to a Notice of Opportunity to Correct (NOC). Inspection recommendations may be implemented at the discretion of the facility in order to improve system operation. NOC's may be escalated to NOV's, where it is judged to be appropriate, such as, but not limited to, situations where repeated violations have occurred or it is deemed necessary for public health.

SYSTEM DESCRIPTION:

This community system consists of 9 wells, at least two of which are spring wells, 10 storage tanks of assorted size, 2 pressure tanks, 4 booster / transfer stations and a 3 pressure zone distribution system.



On the morning of 12-11-08, the chambers pressure tank was losing pressure, due to a malfunctioning pop off valve that had been installed on the top of the tank to equalize the water level . Also note: the air compressor is wired in unison with the transfer pump evidently because the liquid level sensor and the air pressure switch is not working correctly, Judy and Denny later told me the reason this happened, (the parts were to expensive)., So the air compressor comes on every time the transfer pump runs and stays on until it turns off. I was told by previous employees while in training that this was normal operations, to let the air out of this tank every morning and equalize the tank, there is a visible glass tube that allows us to see the water level that makes this possible.

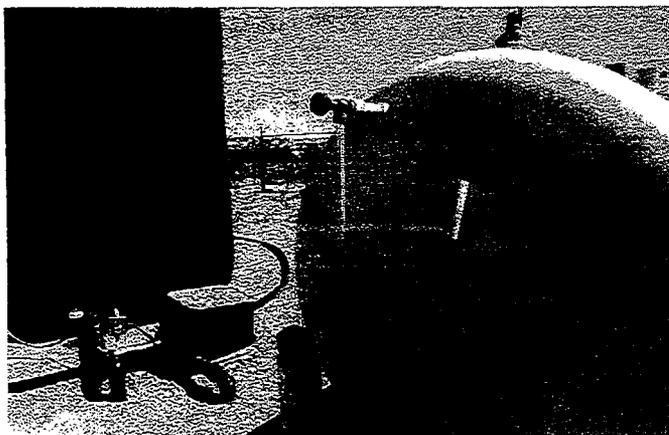
The malfunctioning valve was just plain worn out from manually letting the air out every morning. We shut down the tank and installed a ball valve under the pop off, the water was only off for about 20 minutes.

Around 5:PM I returned to check recheck the pressure tank and found the storage tank overflowing, water was running out of the top of the tank and down the conduit of the auto control wire and out of the 3 phase electrical box for the transfer pump and all the way out to the gate. I couldn't even open the Gate to get in without getting electrocuted.

Don and Jerret arrived about 6:00 pm with my little Giant ladder and we climbed over the fence on dry ground and found that I had left the well pump running on manual after that repair.

Chambers, In reference to Inspection ID: 123663 Distribution System #9 Overall water loss

The water loss was excessive I believe it flowed over for about 7 hours.



In this picture you can see the glass tube, and at the top of the tank the air release valve where we installed the ball valve.

Grand Canyon Info, In reference to Inspection ID: 123663 Distribution System #9 Overall water loss



This was a water leak in front of the Grand Canyon Info Center north side of Pierce Ferry in the parking lot. That was repaired on 12-01-08. It showed at the surface over thanks giving weekend, Gary called me 11-30-08 on Sunday afternoon, Don and I responded and we decided it could wait until Monday morning. After digging it up by hand we found an abandon service line, just under 6 feet deep, connected to a 4 inch main line rising up with 1 inch steel pipe about 1.5 feet with a 90, the core stop on the end of black plastic, leaking at the hose clamps before the core stop. I would say that this was leaking a gallon a minute or so and the water was disappearing into a sand layer that appeared to be an old wash. It was said by a local, that we could have probably drilled a well in that same wash at the North West end of town a re-pumped are own water.

We shut down the water about 1:00PM, only the Buss nines on north side of Pierce Ferry from Penny Going west was affected. Unscrewed the service out of the 90 and put a 1 inch brass plug into the 90.

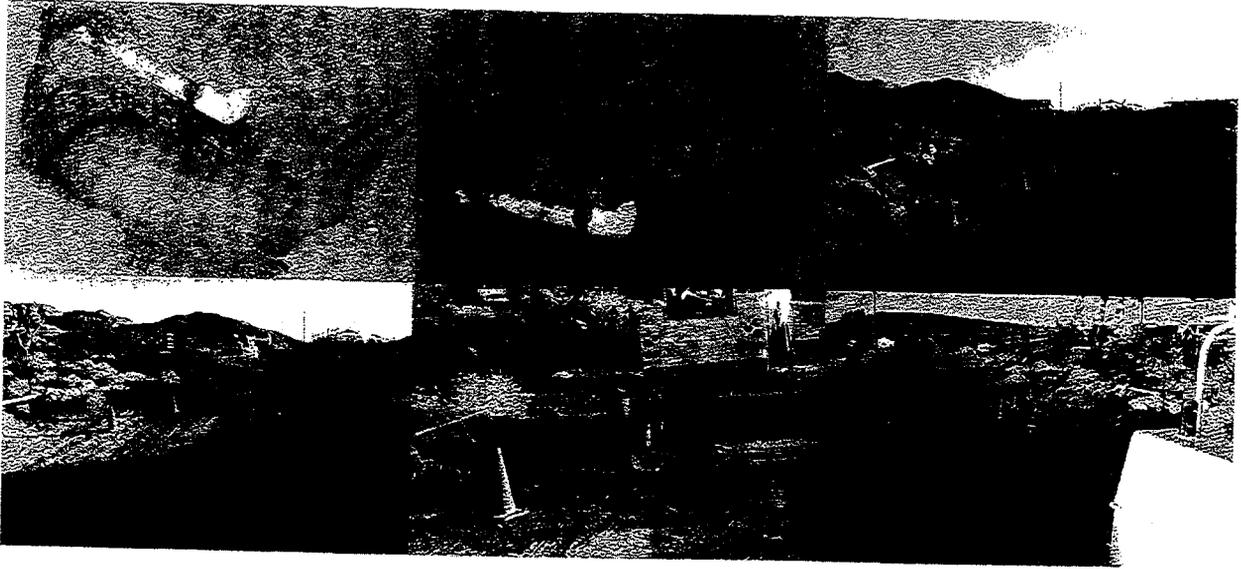
The water was back on by 2: PM, and we blew off at the west end of town and also at Saint Vincent

We were there till 4: PM and left the metal plate over the hole after filling it in, until the dirt was dry enough to compact.

Returned 12-03-08 removed plate and wheel packed to 100% compaction.

This appeared as if it had been leaking a long time and just got worse as the temperature changed.

Lariat at transition to 6 inch, In reference to Inspection ID: 123663 Distribution System #9 Overall water loss



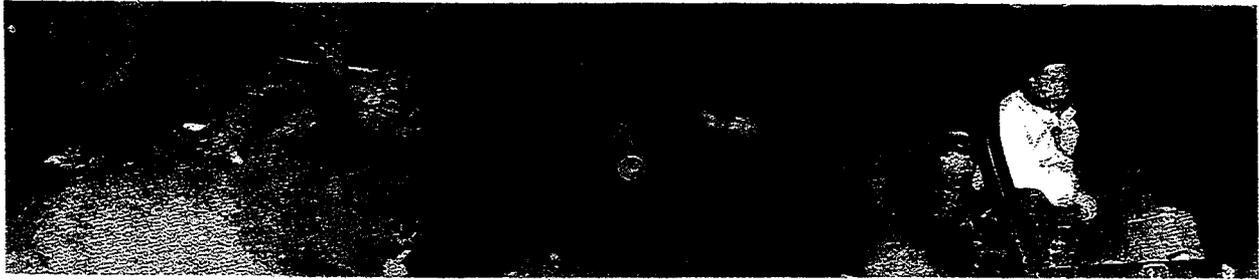
This was a wet spot that was reported on 1-14-09 on the east side of Lariat west of 14th, I was there at about 3:00 pm the same day, you could hardly see it and I thought it was an oil spill in the road. I dug a test hole any way, and just as I broke through the hard pack it was nothing but mud. After it was uncovered by hand and bailed out around 5:15pm I found a valve and a two inch 90 roots growing up into it and a concrete kicker just about 3 feet deep. It appeared as if the water had been running in the bottom of the trench downhill for a long time. I left it with a metal plate and cones that night.



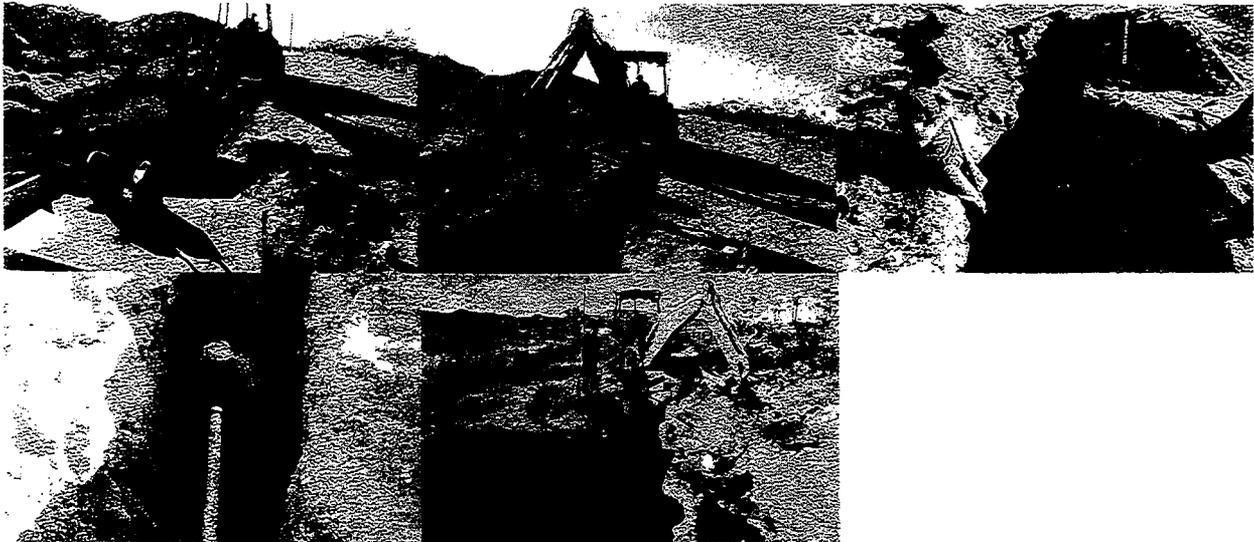
The next day 1-15-09 I had some help, we bailed it out, and tried to uncover it a little more to see what was there. Around 1:30 pm the concrete split on the top and it blew up. We quickly shut the water off at 14th and Lariat as I had already worked this valve the week before doing another repair on this same line, and attempted a repair only to find that the 2 inch pipe was also broke

Lariat at transition to 6 inch, In reference to Inspection ID: 123663 Distribution System #9 Overall water loss

in the concrete just before the second 90. And that the 6 inch pipe had blown out of its coupling about 20 feet or so down the trench.



I decided to try and dig out the other side and try and install a valve on the two inch line so that I could bring the water back up. There was only two houses on that street affected and they were before this break by around 5:30 or 6PM we found that we could not dig up the kicker there by hand so I called Rocky one of the board members and he was there with his backhoe and had it dug out by 7: PM. We then glued in a temporary valve and waited for the glue to dry laid a big rock at the end of that and turned the water back on to that street blowing it off out of that valve into a temporary pipe to the top of the ground. The water was back on around 7:30 or 8:PM. We covered it with metal plate.



1-31-09, 9:AM, I was finally able to get back and Finnish up, using Rocky's backhoe we dug up the 6 inch line to the coupling. At around 9:46 AM I received a call, and there was another break in town at the Pawn shop I had to pull off and go there. By 3:30 PM we were back onsite and by 4:55 had replaced the pipe so that it was a strait in repair no 90s and the transition cap that I had already cleaned and wire brushed with a new gasket, and the gate valve in front of that with a riser. I also chlorinated the 6 inch line with 1 gallon of bleach. We turned the water back on around 5pm with the blow off opened at the end. We blew off the line for about 30 minutes out of a two inch blow off. And then shut the valve off in front the transition cap. We only

Lariat at transition to 6 inch, In reference to Inspection ID: 123663 Distribution System #9 Overall water loss

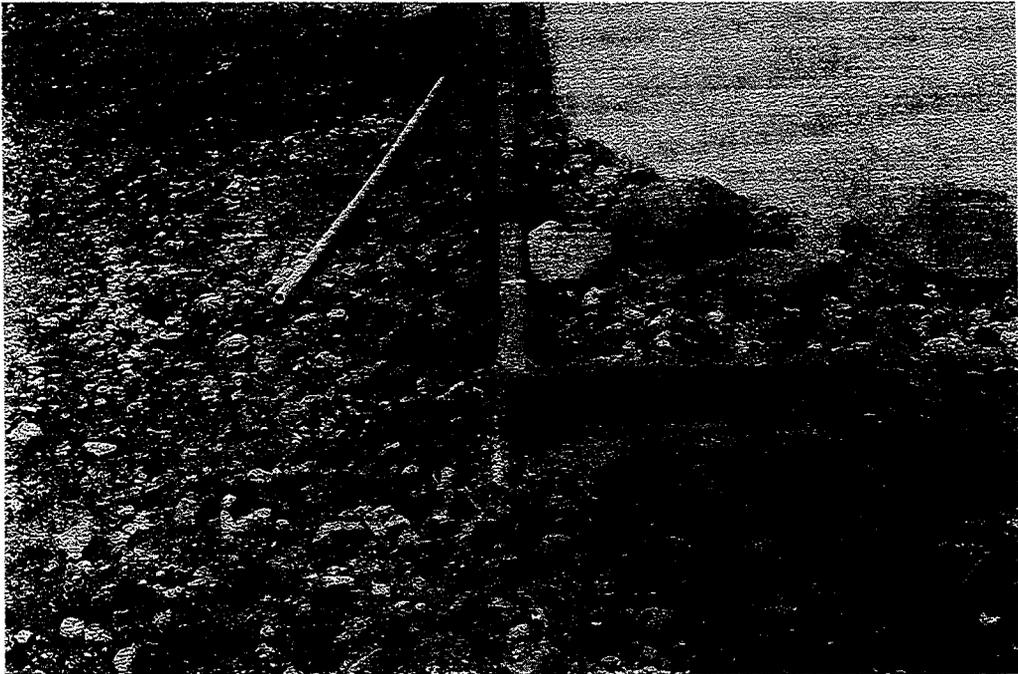
had the water down for an hour or so. It only affected two houses and no one is at this point beyond the repair



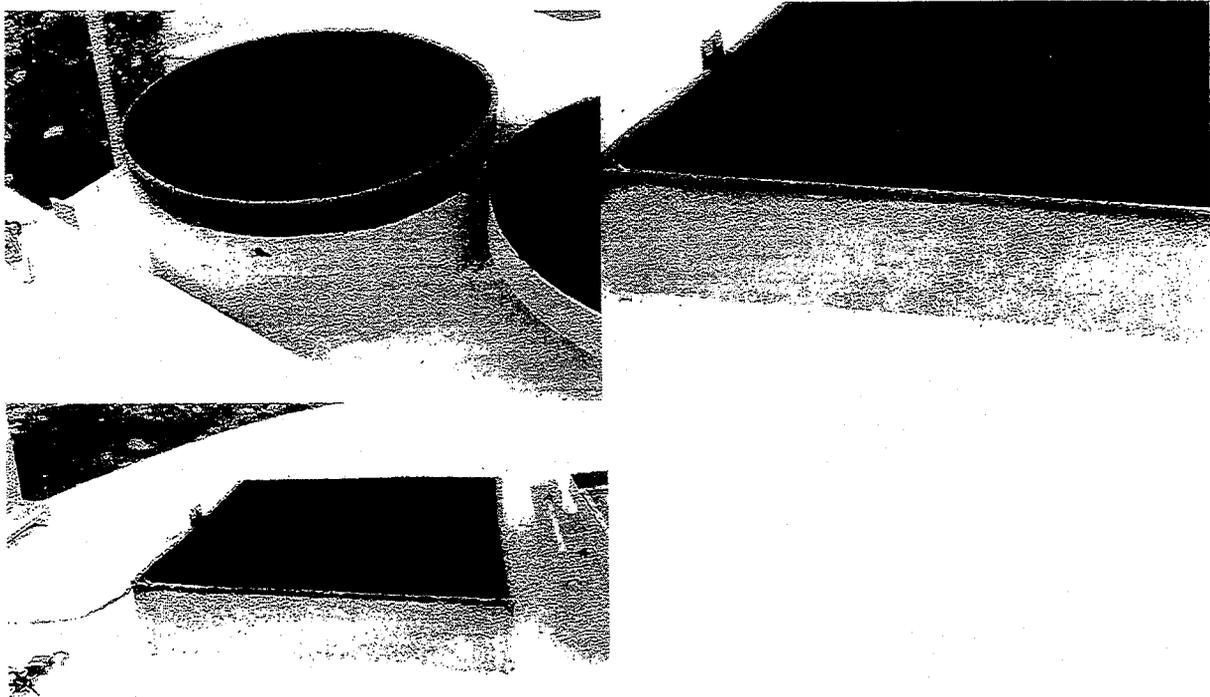
We then rapped the transition with plastic and installed a new concrete kicker covered the hole and wheel packed with the tractor. We were done by 8:pm. I took the above last picture the next day; the cone is over my valve. We will blow this line off several more times and test before I leave the valve opened.

Please note: I have since found some notes from the years prior; this had been a known leak and only showed when it was cold out when it could come to the top without drying up.

Many Thanks to Rocky for donating his time and backhoe to assist me with this repair.

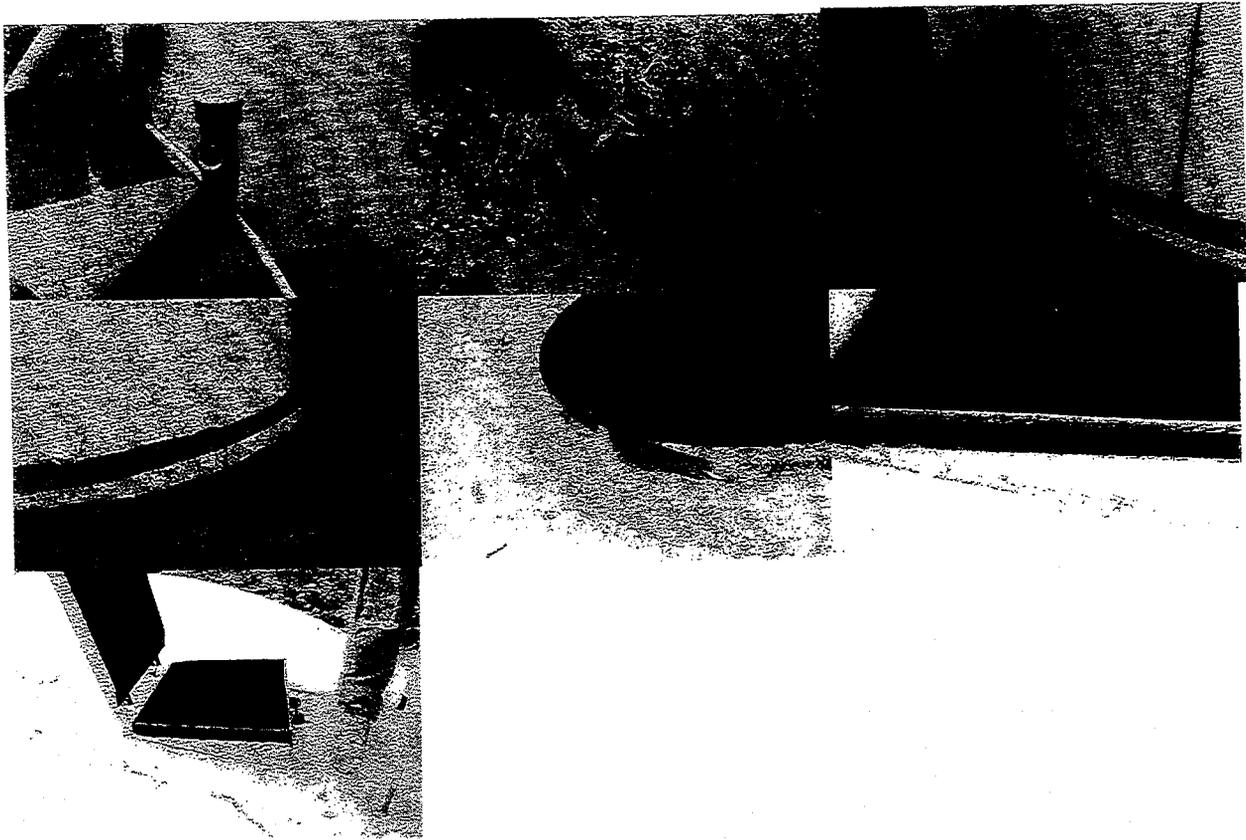


Item #4 in your list. The block on the corner of this picture was replaced and cemented in. This was not at the midrange tanks but at the Dolan Tanks.



This is the rubber grommet installed on the Dolan Tanks. The round hatch is the front tank and the square hatch is the back tank.

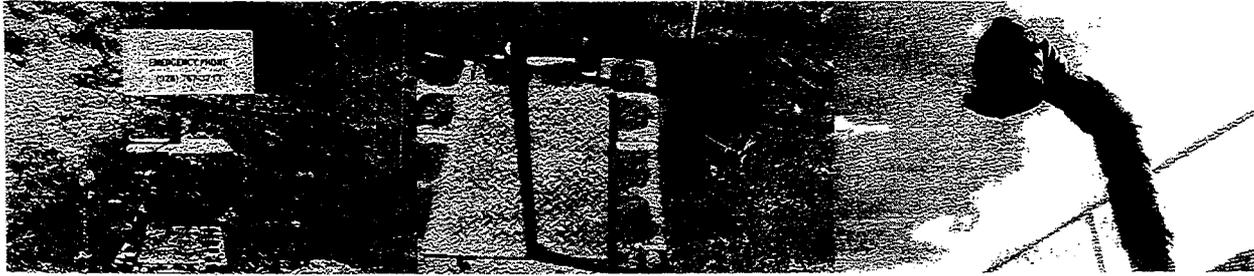
Midrange Tanks, In reference to Inspection ID: 123663 Tanks



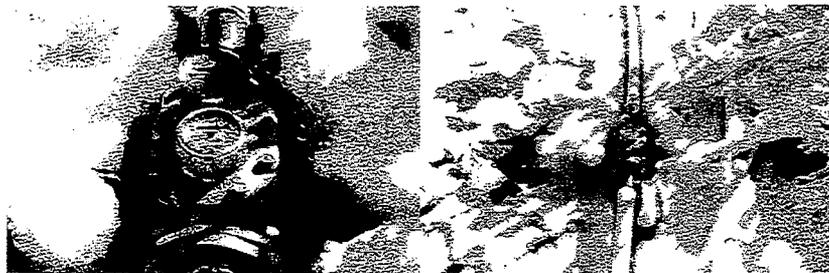
The bedding ring around the front tank has been filed and the vent pipe was plugged at the 90 and screened at the end, a rubber grommet type rubber was installed on the tank lid to both tanks. Inspection of the vents at the top of the tanks proved good at both tanks.

Springs, In reference to Inspection ID:123663

The Following Items were some of the things that Andy Wilson asked me to achieve.



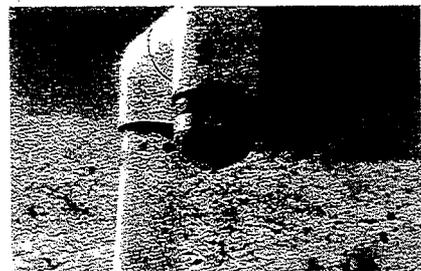
Vent at non potable well pionting down with screen installed and rapped with 3m tape.



2 inch meter installed on the non potable spring well line, and in use.



Sample tap installed on the non potable line.



Springs, in reference to Inspection ID:123663

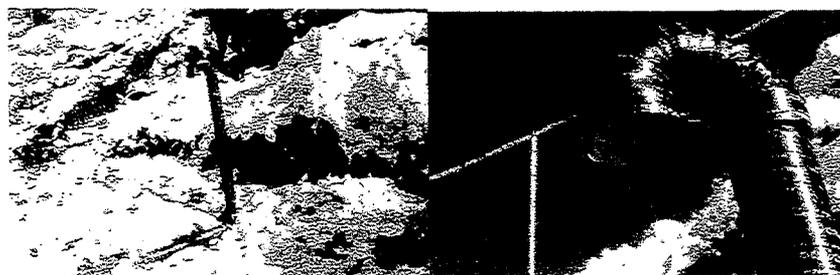
Vent rebuilt to point down and Screen installed on non potable line.



Vent at non potable tank rebuilt to point down with screen installed.



Screen Installed at the run off line or over flow of the non potable spring well storage tanks.



Vent rebuilt to point down with screen installed on non registered well incorrectly known as #8.

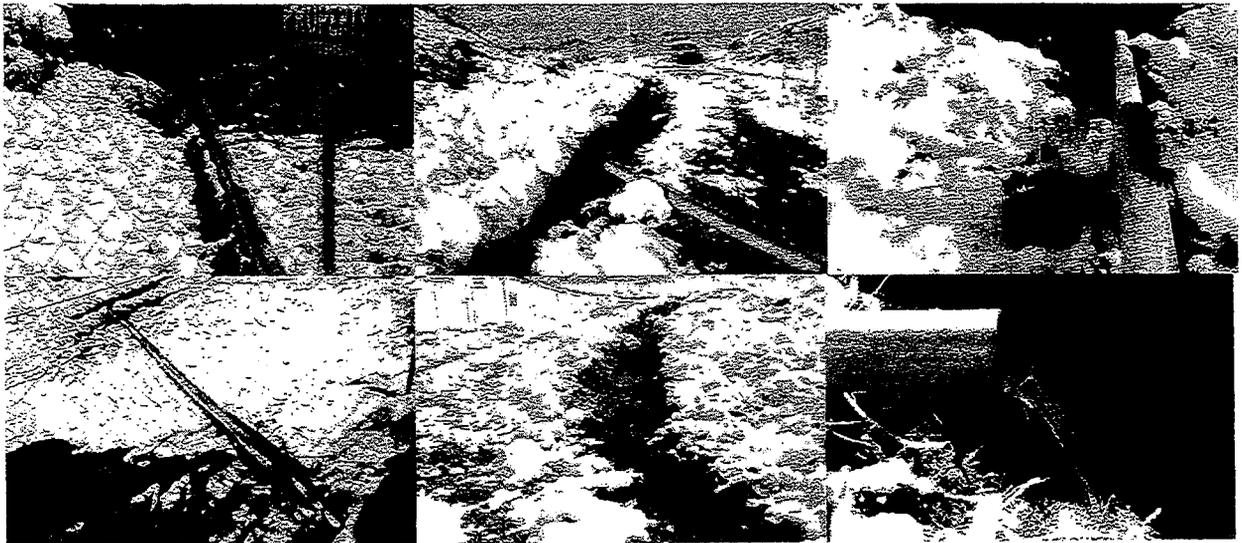
Springs, In reference to Inspection ID:123663



Vent rebuilt to point down with screen installed on non registered well incorrectly known as #8.



Sample tap installed at non registered well incorrectly known as #8.

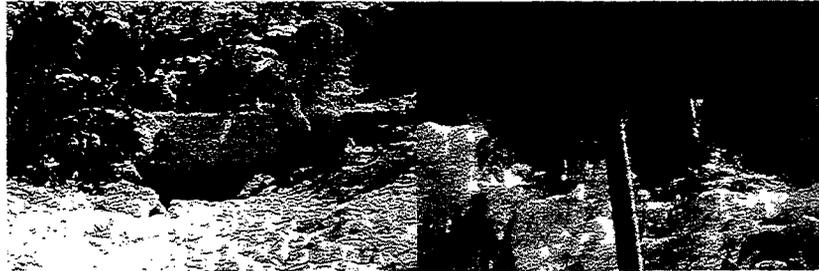


Non Registered spring well incorrectly known as #8 is currently valued off from public use and diverted into a trench, until we can acquire the proper funding, for MPA tests, engineering, registration, testing, and source approval. Then a filtration chlorination station if needed.

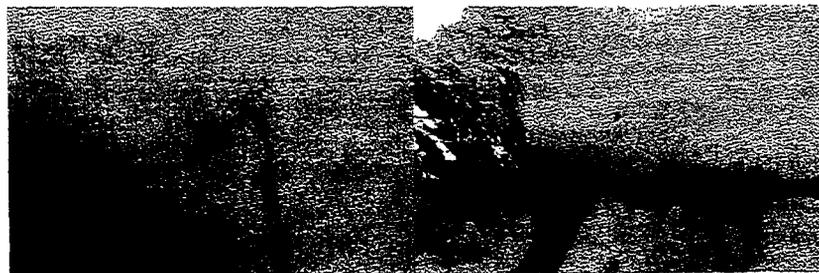
Springs, In reference to Inspection ID:123663



A Screen was installed on the Run off pipe for the Non Registered spring well incorrectly known as #8



Vent rebuilt to point down with screen installed, PVC raped with 3m tape at #8, 55-601848 spring well incorrectly known as 9B.

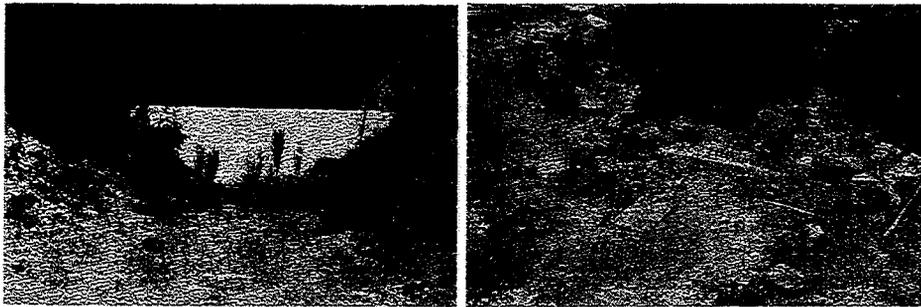


Sample tap installed at #8, 55-601848 Spring Well, incorrectly Known as 9B.

Springs, In reference to Inspection ID:123663



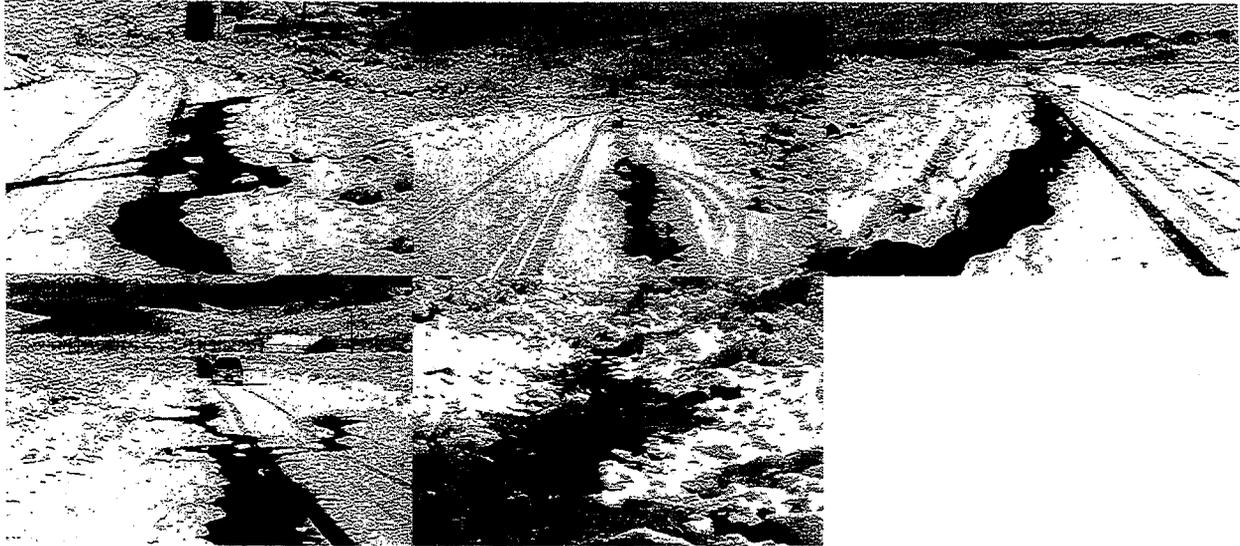
Sign moved to the correct location at well #8, 55-601848 incorrectly known as 9B.



Well #8, 55-601848 is currently diverted into the non potable system and is not in public use, Until we can determine its true status, as we have not yet located the Source approval papers for this well.

Keven White has told me those source approval papers do exist and that he may have copies, he has not as of yet come through and I am still working on it.

Springs, In reference to Inspection ID:123663

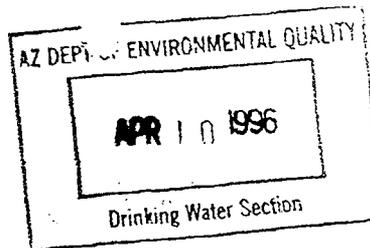


The diverted water coming from #8 and non potable spring wells is working its way down the road below the non potable storage tanks.

I have added copies of information found that may be useful, in determining the status of #8, 55-601848 spring well and its future use. The following shows that a MPA test was done 1996. I feel confident that this was the well tested, because all of my research seems to prove that in 1996 the non registered well did not exist.



3111 S. Valley View Blvd., Suite B-118
 Las Vegas, Nevada 89102
 (702) 367-1187 • Fax 367-3031



Correct

Client: Dolan Springs Water Co.
 P.O. Box 368
 Dolan Springs, AZ 86441

Invoice: 9561770
Date: 04/01/96

Project: Microscopic Particulate Analysis

Location: Dolan Springs Water Co., Horizontal Well DWR#55-601848, AZ

Material: Water
Source: Wellhead

Authorized By: J. Hamm/DSWC

Date: 03/20/96

Sampled By: M. Thompson/ADEQ

Time: 1549 to 0930 hrs.

Date: 03/19/96-03/20/96

Submitted By: J. Hamm/DSWC

Date: 03/20/96

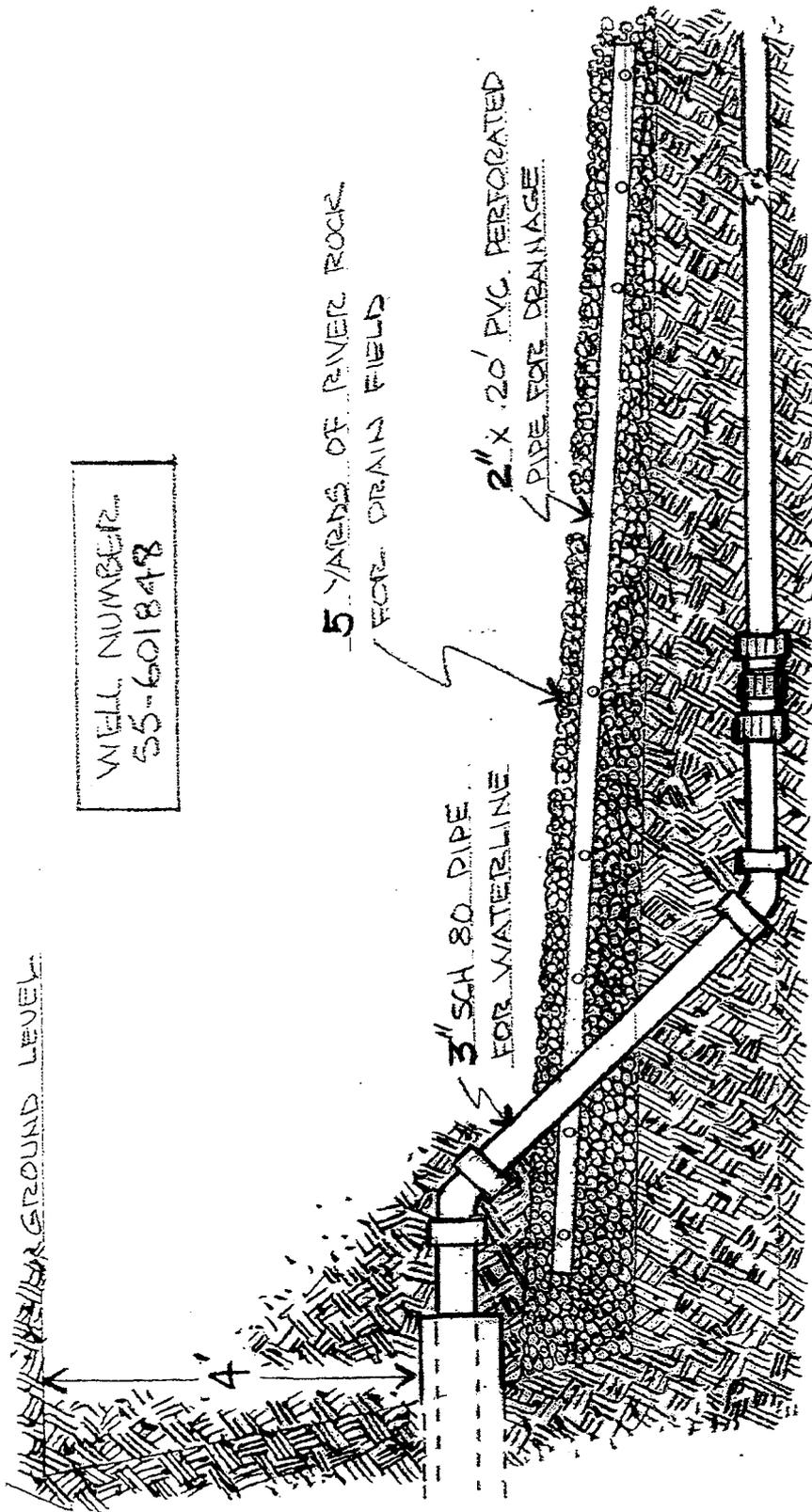
MICROSCOPIC PARTICULATE RESULTS

GALLONS: 1110	FILTER COLOR: WHITE	CENTRIFUGATE: 0.016 mL/100 GALS.
Amorphous Debris:	Inorganic precipitate 2-40 µM diameter	
Other Algae:	ND	
Diatoms:	ND	
Plant Debris:	ND	
Giardia:	ND	
Coccidia:	ND	
Rodifers:	ND	
Nematodes:	2/100 gals.	
Pollen:	8/100 gals.	
Amoeba:	2/100 gals. (Euglypha)	
Ciliates:	ND	
Colorless Flagellates:	1/100 gals.	
Crustaceans:	ND	
Insects/Larvae:	ND	
Other:	ND	

This sample was analyzed for particulates following the Environmental Protection Agency Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis (MPA). All limitations stated in the method apply. EPA/910/9-92/029.

Comments: Score: 0-Low risk per EPA Consensus Method referenced above. Examined unfloated sediment directly by wet mount, dilution 2x, 100x, and 400x brightfield microscopy, 121 fields/slide at 100x.

By: *Seri Rosol for M. Lipschultz*
 M. Lipschultz, M.S., Microbiology Manager



DOLAN SPRINGS WATER CO.
HORIZONTAL WELL DIAGRAM
DRILLED 9-24-98

DRAWN 11-2-98
BY TIM HAMM

FEIV 08-023



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Fife Symington, Governor Russell F. Rhoades, Director

April 24, 1996

Dolan Springs Water Company
Attn: Jim Hamm
P.O. Box 368
Dolan Springs, Arizona 86441

RE: Microscopic Particulate Analysis (MPA) Results 08-023

Dear Mr. Hamm:

This letter is to confirm that this office received your water system's second MPA test result.

The results from the two MPA tests taken from your horizontal well indicate that the water is low risk in accordance with the EPA Consensus Method. Based on the current Ground Water Under the Direct Influence of Surface Water (GWUDISW) policy your horizontal well is considered ground water. No further monitoring is required and you are not required to provide any treatment at this time.

Thank you for your cooperation in making this determination and please call the Phoenix office at 207-4442, if you have any further questions regarding this or any other matters pertaining to your water system.

Sincerely,

Steven J. Anderson
Field Engineering Inspections Unit
Drinking Water Section
Water Quality Division

cc: CRO Field File # 08-023
CTEU Facility File # 08-023

JACK WILLIAMS - GOVERNOR



Arizona State Department of Health

ARIZONA STATE OFFICE BUILDING
1624 WEST ADAMS STREET
PHOENIX, ARIZONA 85007

ELAINE MCFARLAND, R.N.
CHAIRMAN, BOARD OF HEALTH

BEN T. DIBBLE, P.E.
VICE-CHAIRMAN, BOARD OF HEALTH

A. V. DUDLEY, JR., M.D.
SECRETARY, BOARD OF HEALTH

WM. E. NAUMANN
MEMBER, BOARD OF HEALTH

C. H. FREDELL, M.D.
MEMBER, BOARD OF HEALTH

LOUIS C. KOSSUTH, M.D., M.P.H.
COMMISSIONER OF HEALTH

May 4, 1972

Mr. Tom White
Lake Mohave Ranchos Water Co.
Post Office Box 8
Dolan Springs, Arizona 86441

Re: Inspection of
System

Dear Mr. White,

Transmitted herewith is a copy of the report of the referenced inspection.

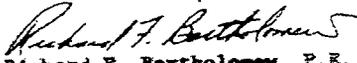
Your attention is directed to the deficiencies noted for immediate correction.

Chlorination of this supply system is waived providing the two conditions set forth below are followed:

1. That a minimum of two samples are submitted each month from the water distribution system for bacteriological examination by this Department's laboratory.
2. That all samples submitted indicate an acceptable bacteriological quality of water is being provided to the public.

Please advise this Division as soon as the items noted in the report have been corrected or if you need further assistance.

Sincerely,


Richard F. Bartholomew, P.E.
Director, Division of Water Supply

RFB/slc

Enclosure

cc: Mohave County Health Department
Arizona Corporation Commission

Other Break and Leaks, In reference to Inspection ID:123663 Distribution System #9 Overall water loss

There were many other breaks and leaks that were attended to, but I don't have pictures of them all some were recorded on another camera before I bought my own and was lost.

There was a water leak at Bee and Pierce Ferry, that was repaired by Kevin White.

There was a leak on Lariat south of 15st in front of the church, on the main line leaking at a joint and full of roots, the pipe there was eggshell. Me and Darrel dug it out by hand and then found that we needed a backhoe we Used Kevin White and repaired it with a joint clamp and gasket, I can't remember the date.

There was a break at a meter on the south west corner of Jasper and 11st that was I believe hit by a grading tractor. Rob White assisted along with Darrel and me. I don't remember the date.

There was a water leak at the chambers transfer pump, we thought it was the pump but it was the pipe under the ground going to the Pressure tank. I can't remember the date that Darrel and I repaired it. This applies to the ADEQ item #11 under tankorm

There was break before a meter on Kitmat south of 14th street. I was not there Jarret and Rocky and Gary took care of this one around Christmas I don't know the date.

There was a break at the non potable line at this 45 by the upper tanks that Jarret took care of over Christmas. You can see how much it washed away the dirt below.

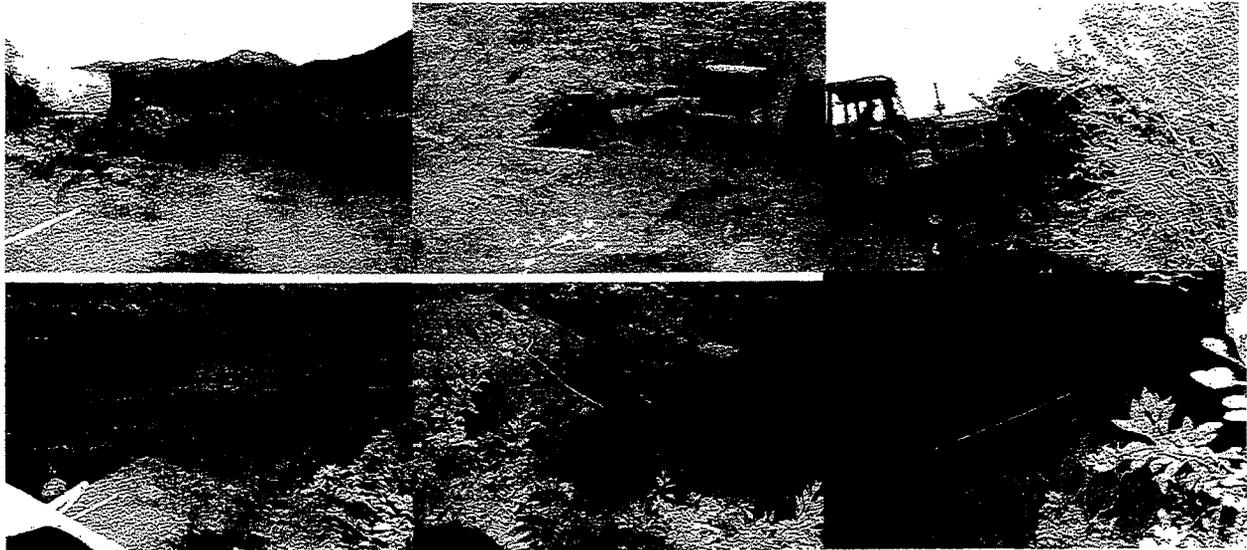


There was a tank that had split it's seem at the non potable and was about to undercut the hill side and cause the tanks to roll down the hill, I welded and repaired it on 11-24-08

Other Break and Leaks, In reference to Inspection ID:123663 Distribution System #9 Overall water loss



There was dirt pushed against the non potable tanks By Kevin White, to keep them from rolling down the hill on 12-10-08. The exposed potable water line was also covered at the same time.



Other Break and Leaks, In reference to Inspection ID:123663 Distribution System #9 Overall water loss

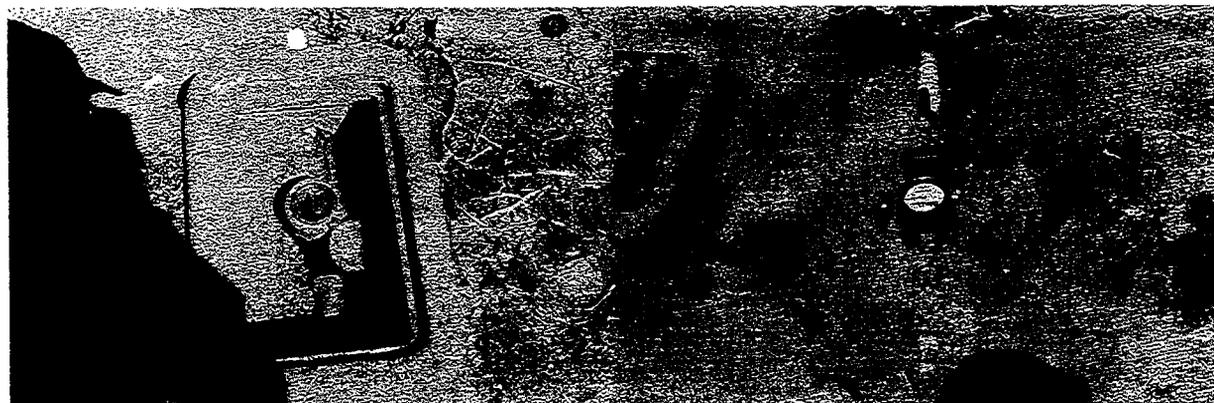


These were the water breaks and leaks that I have been involved in since I have worked here I may have forgotten some and I am sure that there will be more to come.

There was also numerous valves that were located and exercised I don't have the time to list them all.

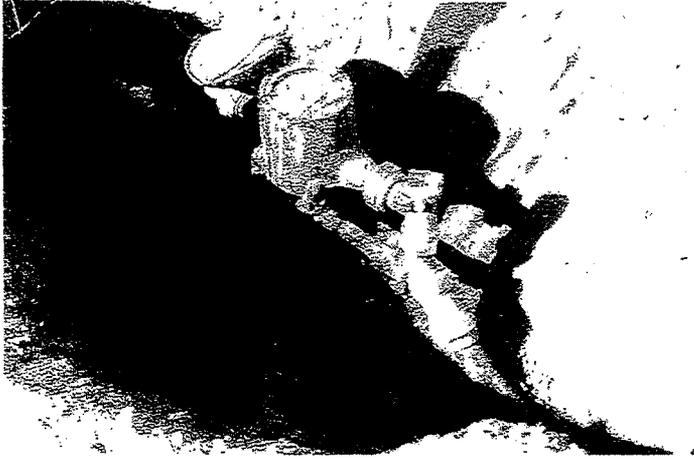
There were many leaking meters that were Identified and repaired.

There were many meters replaced, this one on Cinch 8-28-08.



This one on Grand north of Pierce Ferry 10-30-08.

Other Break and Leaks, In reference to Inspection ID:123663 Distribution System #9 Overall water loss



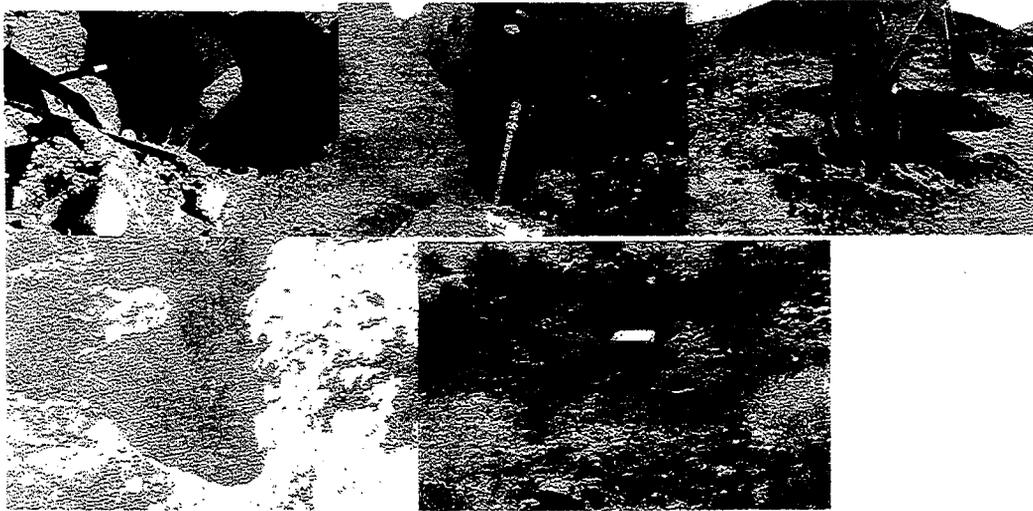
This one at Katie Cohagen's home on 6th 9-17-08.



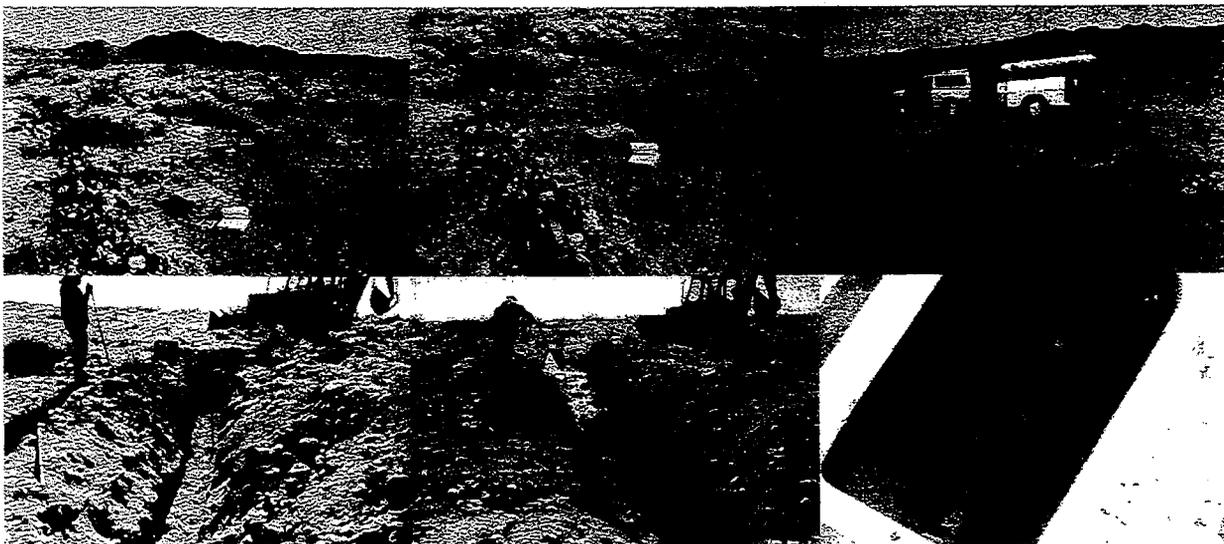
And some that I didn't get pictures of and can't list in a timely manner for this report. But all of the meters that were replaced helped the water loss issues.

There were two meters with no pressure or volume, one on 9th street and one on 10th and Jasper that was plugged at the core stop both were dug out and re-tapped.

Other Break and Leaks, In reference to Inspection ID:123663 Distribution System #9 Overall water loss



There were two new meters installed this one was on 9th street the following I sent to the customer in an email.



The first picture, Upper left was looking east from your property and the second picture on the right also looking east. The third picture on the middle left was looking North West, and the fourth and fifth pictures on the middle right bottom left facing south.

This meter was installed on the 11-7-2008 on 9th street north east corner of your property.

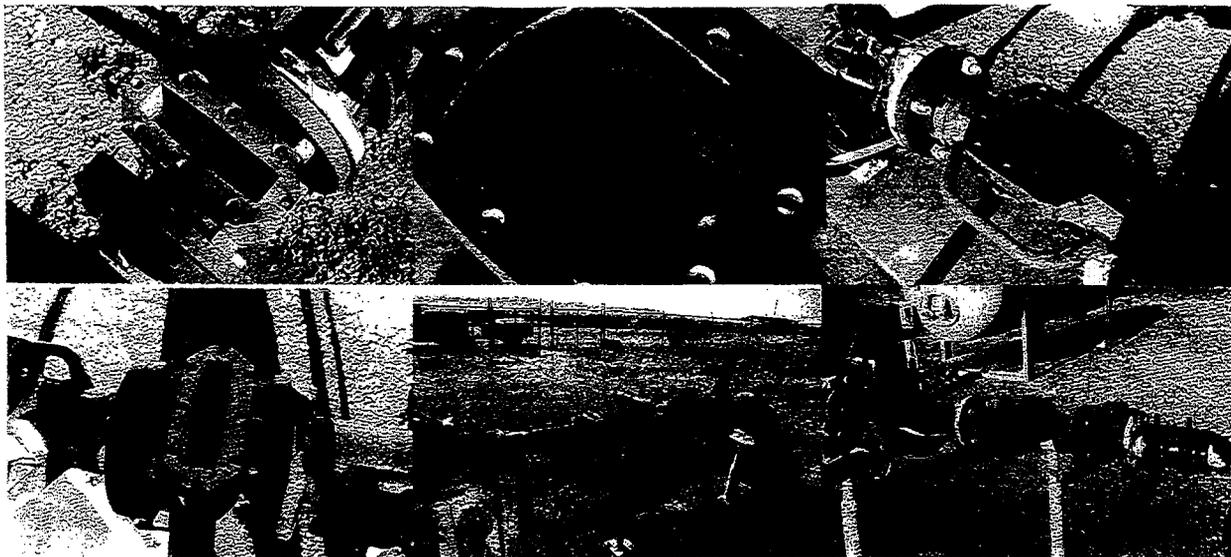
Parcel number 316-14-002

Thank you

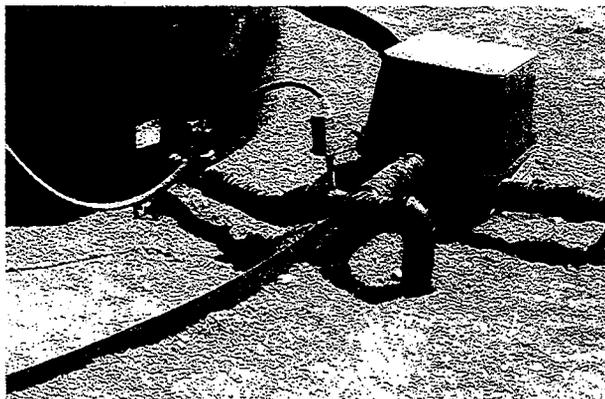
Tim Clark

This one was installed at the Family dollar store on 1-3-09

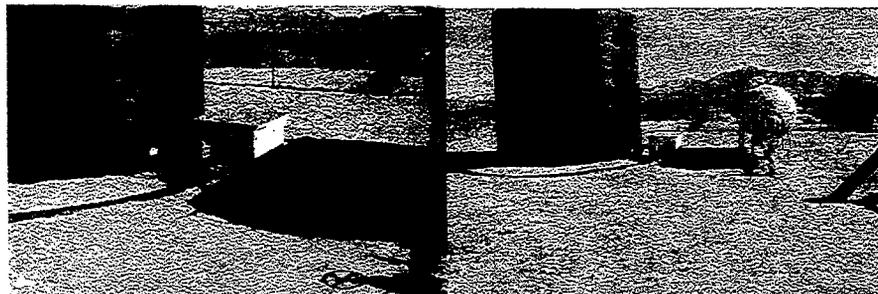
Chambers #5, In reference to Inspection ID: 123663



The meter at Chambers was cleaned out and repaired on 9-5-08; the screen was also flushed out at the same time.



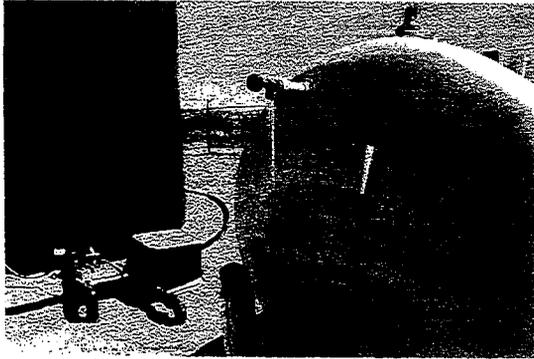
We also wrapped the input from the tank to the transfer pump with foam and 3m tape on 9-9-08 the bedding ring that was off by the pump was replaced at the same time.



A weather tight box was also built over the pump to keep it out of the elements. There was a leak at this pump but it was not coming from the pump it was coming up from under the ground at a 90, and was repaired sometime back.

1205

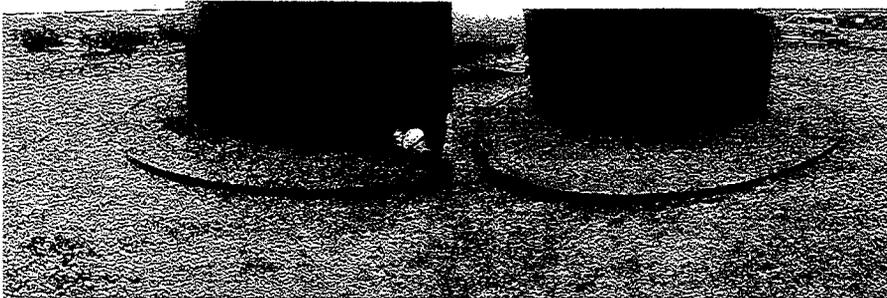
Chambers #5, In reference to Inspection ID: 123663



The glass site tube on the pressure tank was also cleaned and reinstalled on 9-5-08



A Sample tap was also installed at the pressure tank on 9-9-08.



The bedding ring was filled in on 2-5-09

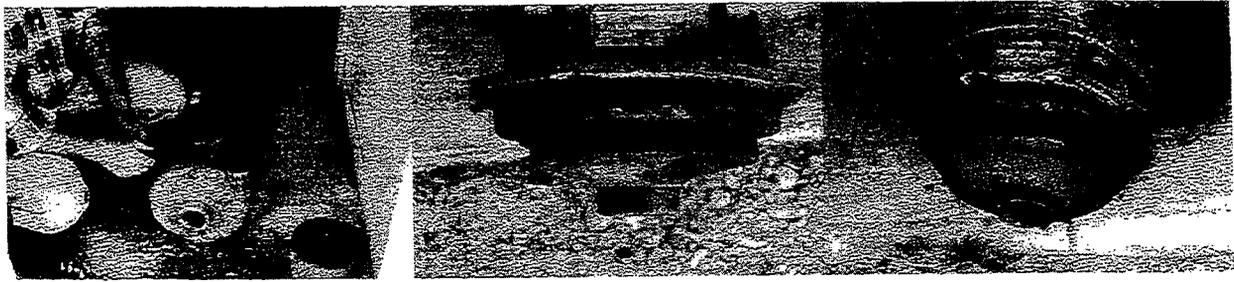


The well head is constructed with Ductile Iron.

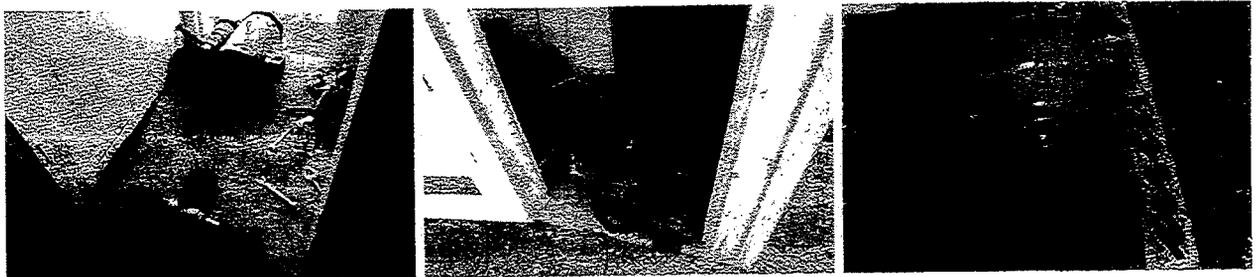
Chambers #5, In reference to Inspection ID: 123663

Please Note: I have not yet unwrapped the feed line to the storage tank at the well head, therefore as of now it has not been identified as to whether it is galvanized or PVC.

Pump Rebuild at Kevin's, In reference to Inspection ID: 123663 Booster/Transfer Station #2



These pumps move water from what we call Kevin's Tanks to the Dolan Tanks. When I started at MTW normal operations were to let the air out of a pet cock every 2 hours on the primary pump because it capitates and got hot. This was running me ragged and had to be addressed. The secondary pump looked like a rebuild and ran but was never capable of building enough pressure to move water applied in this application. So an old pump was donated by Kevin , I rebuilt, and installed it to run in place of the primary pump while I pulled it and rebuilt it on 10-2-08, We installed all new seals and a new impellers and bushings with new shaft bolts and keys in both pumps. The primary pump no longer capitates and the secondary pump works also. We can move the entire contents of Kevin's tanks to the Dolan Tanks in 45 minutes or so.



The MFJ connector on the supply line to the primary pump was also refurbished and new seals installed.

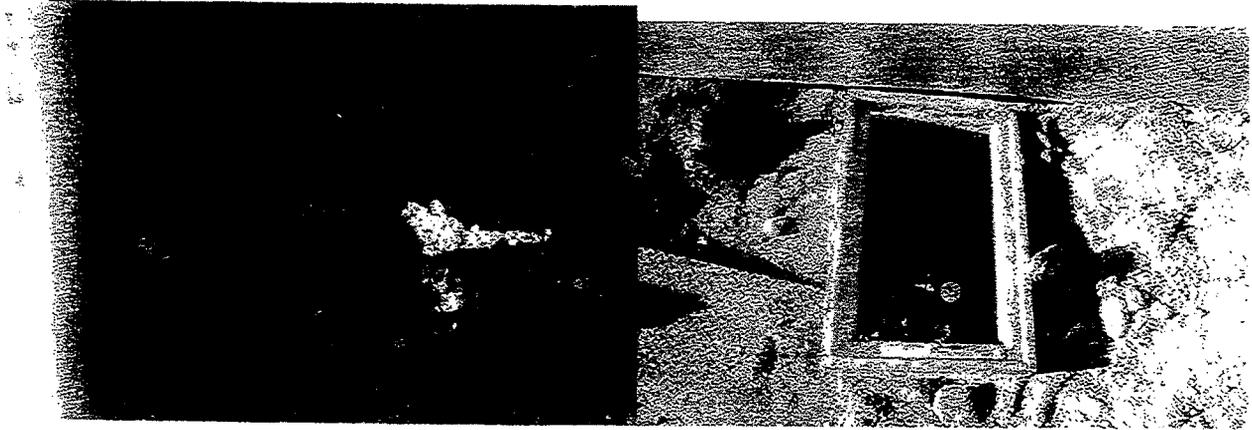


The following are pictures of the secondary pump. That was rebuilt on 9-20-08 and installed in place on 9-21-08, I ran this pump for a few days, to make sure that it was stable before bringing down the primary pump.

Pump Rebuild at Kevin's, In reference to inspection ID: 123663 Booster/Transfer Station #2



Other Break and Leaks, In reference to Inspection ID:123663 Distribution System #9 Overall water loss



We have addressed all of the above issues in the timeliest manner possible. And we are working very diligently to come into compliance both with ADEQ and the ACC. I hope this report helps you to understand the efforts that have been made by all of the staff here at MTW..

Thank You

Tim Clark

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 26.0 18.0 31 B D B

Well Reg.No
55 - 601848

AMA NOT WITHIN ANY AMA OR INA

Name DOLAN SPRINGS WTR CO,
PO BOX 368

File Type REGISTERED WELL
Application/Issue Date 01/19/1982

DOLAN SPRINGS AZ 86441

Owner OWNER
Driller No. 0
Driller Name NO DRILLER SPECIFIED
Driller Phone
County MOHAVE

Well Type EXEMPT
SubBasin HUALAPAI VALLEY
Watershed COLORADO RIVER
Water Uses MUNICIPAL
Well Uses WATER PRODUCTION
Discharge Method NONE
Power NO POWER CODE LISTED

Intended Capacity GPM 0.00

Well Depth 147.00
Pump Cap. 25.00
Draw Down 0.00

Case Diam 2.00
Case Depth 147.00
Water Level 0.00
Acres Irrig 0.00

Tested Cap 25.00
CRT
Log
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments ||CO:|PQ:|PQ#:

Places Of Use

1 B 25 0 19 0 2 A A
2 B 99 0 99 0 99 C

Current Action

Action History

5/1/1972 755 WELL CONSTRUCTION COMPLETED

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 26.0 18.0 31 B D B Well Reg.No 55 - 601849 AMA NOT WITHIN ANY AMA OR INA

Name DOLAN SPRINGS WTR CO,
PO BOX 368

File Type REGISTERED WELL
Application/Issue Date 01/19/1982

DOLAN SPRINGS AZ 86441

Owner OWNER
Driller No. 0
Driller Name NO DRILLER SPECIFIED
Driller Phone
County MOHAVE

Well Type EXEMPT
SubBasin HUALAPAI VALLEY
Watershed COLORADO RIVER
Water Uses MUNICIPAL
Well Uses WATER PRODUCTION
Discharge Method NONE
Power NO POWER CODE LISTED

Intended Capacity GPM 0.00

Well Depth 356.00
Pump Cap. 30.00
Draw Down 0.00

Case Diam 8.00
Case Depth 350.00
Water Level 136.00
Acres Irrig 0.00

Tested Cap 30.00
CRT
Log
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments |ICO:|PQ:|PQ#:

Places Of Use

1	B	25 0	19 0	2	A A
2	B	99 0	99 0	99	C

Current Action

Action History

7/14/1962 755 WELL CONSTRUCTION COMPLETED

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 26.0 18.0 31 B D B Well Reg.No 55 - 601849 AMA NOT WITHIN ANY AMA OR INA

Name DOLAN SPRINGS WTR CO,
PO BOX 368

File Type REGISTERED WELL
Application/Issue Date 01/19/1982

DOLAN SPRINGS AZ 86441

Owner OWNER
Driller No. 0
Driller Name NO DRILLER SPECIFIED
Driller Phone
County MOHAVE

Well Type EXEMPT
SubBasin HUALAPAI VALLEY
Watershed COLORADO RIVER
Water Uses MUNICIPAL
Well Uses WATER PRODUCTION
Discharge Method NONE
Power NO POWER CODE LISTED

Intended Capacity GPM 0.00

Well Depth 356.00
Pump Cap. 30.00
Draw Down 0.00

Case Diam 8.00
Case Depth 350.00
Water Level 136.00
Acres Irrig 0.00

Tested Cap 30.00
CRT
Log
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments ||CO:||PQ:||PQ#:

Places Of Use

1	B	25 0	19 0	2	A A
2	B	99 0	99 0	99	C

Current Action

Action History

7/14/1962 755 WELL CONSTRUCTION COMPLETED

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 25.0 19.0 1 B 0 0 Well Reg.No 55 - 606511 AMA NOT WITHIN ANY AMA OR INA

Name MT TIPTON WATER CO,
PO BOX 153

File Type REGISTERED WELL
Application/Issue Date 04/20/1982

DOLAN SPRINGS AZ 86441

Owner OWNER
Driller No. 0
Driller Name NO DRILLER SPECIFIED
Driller Phone
County MOHAVE

Well Type NON-EXEMPT
SubBasin DETRITAL VALLEY
Watershed COLORADO RIVER
Water Uses DOMESTIC
Well Uses WATER PRODUCTION
Discharge Method NONE
Power NO POWER CODE LISTED

Intended Capacity GPM 0.00

Well Depth 600.00
Pump Cap. 72.00
Draw Down 0.00

Case Diam 8.00
Case Depth 600.00
Water Level 412.00
Acres Irrig 0.00

Tested Cap 72.00
CRT
Log
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments ||CO:|PQ:|PQ#:

Current Action

Action History

2/25/1972 755 WELL CONSTRUCTION COMPLETED

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 25.0 19.0 1 B B C Well Reg.No 55 - 508835 AMA NOT WITHIN ANY AMA OR INA

Name MT TIPTON WATER CO,
PO BOX 153

File Type NEW WELLS (INTENTS OR APPLICATIONS)
Application/Issue Date 08/03/1984

DOLAN SPRINGS AZ 86441

Owner OWNER
Driller No. 111
Driller Name PENROD DRILLING COMPANY
Driller Phone 928-757-2931
County MOHAVE

Well Type NON-EXEMPT
SubBasin DETRITAL VALLEY
Watershed COLORADO RIVER
Water Uses DOMESTIC
Well Uses WATER PRODUCTION
Discharge Method CURRENT - VENTURI METER - FLOW
Power ELECTRIC MOTOR 6 - 15 HP

Intended Capacity GPM 85.00

Well Depth 700.00
Pump Cap. 57.00
Draw Down 536.00

Case Diam 8.00
Case Depth 700.00
Water Level 399.00
Acres Irrig 0.00

Tested Cap 57.00
CRT X
Log X
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments ||CO:|PQ:|PQ#:

Current Action

Action History

10/4/1984	805	COMPLETION REPORT RECEIVED
10/4/1984	750	WELL LOG RECEIVED
10/4/1984	755	WELL CONSTRUCTION COMPLETED

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 26.0 19.0 36 A C A

Well Reg.No
55 - 520733

AMA NOT WITHIN ANY AMA OR INA

Name AZ STATE LAND DEPT,
1616 W ADAMS

File Type NEW WELLS (INTENTS OR APPLICATIONS)
Application/Issue Date 03/30/1988

PHOENIX

AZ 85007

Owner OWNER
Driller No. 111
Driller Name PENROD DRILLING COMPANY
Driller Phone 928-757-2931
County MOHAVE

Well Type NON-EXEMPT
SubBasin HUALAPAI VALLEY
Watershed COLORADO RIVER
Water Uses UTILITY (WATER CO)
Well Uses WATER PRODUCTION
Discharge Method CURRENT - VENTURI METER - FLOW
Power ELECTRIC MOTOR 16 - 100 HP

Intended Capacity GPM 85.00

Well Depth 540.00
Pump Cap. 15.00
Draw Down 0.00

Case Diam 8.00
Case Depth 540.00
Water Level 383.00
Acres Irrig 0.00

Tested Cap 75.00
CRT X
Log X
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments GWSI Site ID: 353536114154001. On 3/28/88, Mt. Tipton Water Co. Inc. of Dolan Springs filed a NOID for a community water well. Drilling authority was granted to Penrod Drilling Co. on 3/30/88. On 9/26/88, Penrod filed the drillers report for this well. The report reflects that the well was drilled to a depth of 540-ft and was cased from the surface to TD with 8" diameter steel casing. Depth to water (1988) was 383-ft. Casing was perforated with sixteen 1/8" x 3" cuts per foot from 430-530 feet. On 1/12/89, Mt. Tipton submitted the Completion (pump installation) Report for Mt. Tipton well #3. Report reflects that Interstate Utility Service (ADWR Lic. No. 568) conducted the well test in October of 1988. Well is equipped with a 30-HP electric centrifugal pump. On 6/29/89, the AZ State Land Dept submitted a Change of Ownership form for this well. According to the request, the well is located on state trust land. On 12/10/01, Mt. Tipton Water Co. submitted an Application to Auction Water from State Land (application no. 21-107064-000) with well 55-520733 identified as the source for this water. Water is to be used in the Mt. Tipton Water Co. service area (map of service area provided). Well file updated 12/24/01. mib

Places Of Use

1 B 26 0 19 0 25
2 B 26 0 18 0 19

Current Action

6/26/1989 860 CHANGE OF WELL OWNERSHIP

Action History

9/16/1988 750 WELL LOG RECEIVED
9/16/1988 755 WELL CONSTRUCTION COMPLETED
9/16/1988 805 COMPLETION REPORT RECEIVED
3/30/1988 550 DRILLING AUTHORITY ISSUED
3/28/1988 150 NOI RECEIVED FOR A NEW PRODUCTION WELL

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 26.0 20.0 27 B C D

Well Reg.No
55 - 502441

AMA NOT WITHIN ANY AMA OR INA

Name US DEPT OF INTERIOR/ BUREAU OF LAND MANAGEMENT
2475 BEVERLY AVE

KINGMAN AZ 86401

File Type NEW WELLS (INTENTS OR APPLICATIONS)
Application/Issue Date 03/26/1982

Owner OWNER
Driller No. 111
Driller Name PENROD DRILLING COMPANY
Driller Phone 928-757-2931
County MOHAVE

Well Type NON-EXEMPT
SubBasin DETRITAL VALLEY
Watershed COLORADO RIVER
Water Uses INDUSTRIAL
Well Uses WATER PRODUCTION
Discharge Method BUCKET - BARREL - STOPWATCH
Power ELECTRIC MOTOR 16 - 100 HP

Intended Capacity GPM 200.00

Well Depth 610.00
Pump Cap. 194.00
Draw Down 0.00

Case Diam 8.00
Case Depth 640.00
Water Level 485.00
Acres Irrig 0.00

Tested Cap 181.00
CRT X
Log X
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments ||CO:|IPQ:|PQ#:

Current Action

Action History

5/14/1982 750 WELL LOG RECEIVED
5/14/1982 755 WELL CONSTRUCTION COMPLETED
5/14/1982 805 COMPLETION REPORT RECEIVED

Run Date: 03/22/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 25.0 19.0 20 A C B

Well Reg.No
55 - 510178

AMA NOT WITHIN ANY AMA OR INA

Name CHAMBERS,D
10557 BEACH BLVD

File Type NEW WELLS (INTENTS OR APPLICATIONS)

Application/Issue Date 01/22/1985

STANTON CA 90680

Owner OWNER

Well Type NON-EXEMPT

Driller No. 111

SubBasin DETRITAL VALLEY

Driller Name PENROD DRILLING COMPANY

Watershed COLORADO RIVER

Driller Phone 928-757-2931

Water Uses DOMESTIC

County MOHAVE

Well Uses WATER PRODUCTION

Discharge Method NONE

Intended Capacity GPM 100.00

Power NO POWER CODE LISTED

Well Depth 900.00

Case Diam 8.00

Tested Cap 0.00

Pump Cap. 0.00

Case Depth 900.00

CRT C

Draw Down 0.00

Water Level 780.00

Log X

Acres Irrig 0.00

Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments |ICO:|IPQ:|PQ#:

Places Of Use

1 B 25 0 19 0 20

Current Action

Action History

4/20/1985 750 WELL LOG RECEIVED

4/20/1985 755 WELL CONSTRUCTION COMPLETED

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 26.0 19.0 35 D D A Well Reg.No 55 - 601846 AMA NOT WITHIN ANY AMA OR INA

Name DOLAN SPRINGS WTR CO,
PO BOX 368

File Type REGISTERED WELL
Application/Issue Date 01/19/1982

DOLAN SPRINGS AZ 86441

Owner OWNER
Driller No. 0
Driller Name NO DRILLER SPECIFIED
Driller Phone
County MOHAVE

Well Type NON-EXEMPT
SubBasin DETRITAL VALLEY
Watershed COLORADO RIVER
Water Uses MUNICIPAL
Well Uses WATER PRODUCTION
Discharge Method NONE
Power NO POWER CODE LISTED

Intended Capacity GPM 0.00

Well Depth 480.00
Pump Cap. 90.00
Draw Down 0.00

Case Diam 8.00
Case Depth 465.00
Water Level 330.00
Acres Irrig 0.00

Tested Cap 90.00
CRT
Log
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments |ICO:|IPQ:|PQ#:

Places Of Use

1	B	25 0	19 0	2	A A
2	B	99 0	99 0	99	C

Current Action

Action History

9/3/1966 755 WELL CONSTRUCTION COMPLETED

Run Date: 03/15/2004

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location B 26.0 19.0 36 C C B Well Reg.No 55 - 601847 AMA NOT WITHIN ANY AMA OR INA

Name DOLAN SPRINGS WTR CO,
PO BOX 368

File Type REGISTERED WELL
Application/Issue Date 01/20/1982

DOLAN SPRINGS AZ 86441

Owner OWNER
Driller No. 0
Driller Name NO DRILLER SPECIFIED
Driller Phone
County MOHAVE

Well Type NON-EXEMPT
SubBasin DETRITAL VALLEY
Watershed COLORADO RIVER
Water Uses MUNICIPAL
Well Uses WATER PRODUCTION
Discharge Method NONE
Power NO POWER CODE LISTED

Intended Capacity GPM 0.00

Well Depth 500.00
Pump Cap. 78.00
Draw Down 0.00

Case Diam 6.00
Case Depth 500.00
Water Level 348.00
Acres Irrig 0.00

Tested Cap 78.00
CRT
Log
Finish STEEL - PERFORATED OR
SLOTTED CASING

Contamination Site at Time of Filing? NO - NOT IN ANY WQARF SITE

Comments ||CO:|PQ:|PQ#:

Places Of Use

1	B	25 0	19 0	2	A A
2	B	99 0	99 0	99	C

Current Action

Action History

6/20/1978 755 WELL CONSTRUCTION COMPLETED

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER MICROSCOPIC PARTICULATE ANALYSIS REPORT

2

08059
System ID

6/3/2009 0950
Sample Date Sample Time

(928) 767-3053
Owner/Contact Fax Number

Non Registered Spring Well
Sample Collection Point/ID

6/5/2009 0925
Analysis Date/Time

Mount Tipton Water
System Name

Lowell Tim Clark
Owner/Contact Person Name

(928) 767-3713
Owner/Contact Person Phone Number

Source/Well ID#

1985
Volume (Gallons)

Slides Examined

Particulate Type	1	2	3	4	5	6	7	8	9	10	Total	#/100G	Risk
Giardia	0										<1	<1	0
Coccidia	0										<1	<1	0
Diatoms w/chlor	0										<1	<1	0
Other algae w/chlor	0										<1	<1	0
Insect/Larvae	0										<1	<1	0
Rotifers	0										<1	<1	0
Plant debris w/chlor	0										<1	<1	0
Fine Amorph particles	M										M	M	
Large Amorph particles	M										M	M	
Minerals	L										L	L	
Sporangia													
Plant pollen	1										1	<1	
Ciliates/Flagellates	0										<1	<1	
Nematode egg/cyst	13										13	1	
Amoeba	0										<1	<1	
Crustaceans	0										<1	<1	
Plant debris w/o chlor													
Diatoms w/o chlor													
TOTAL	14										14	1	0

QUALITATIVE RANKINGS OF PRIMARY BIO-INDICATORS

Per 100 gallons	EH	H	M	R	NS
Giardia	>30	16-30	6-15	1-5	<1
Coccidia	>30	16-30	6-15	1-5	<1
Diatoms w/chlor	>150	41-149	11-40	1-10	<1
Other algae w/chlor	>300	96-299	21-95	1-20	<1
Insects/Larvae	>100	31-99	16-30	1-15	<1
Rotifers	>150	61-149	21-60	1-20	<1
Plant debris w/chlor	>200	71-200	26-70	1-25	<1

RELATIVE RISK FACTOR DESIGNATIONS

Per 100 gallons	EH	H	M	R	NS
Giardia	40	30	25	20	0
Coccidia	35	30	25	20	0
Diatoms w/chlor	16	13	11	6	0
Other algae w/chlor	14	12	9	4	0
Insects/Larvae	9	7	5	3	0
Rotifers	4	3	2	1	0
Plant debris w/chlor	3	2	1	0	0

KEY	RISK OF SURFACE WATER CONTAMINATION	
EH = Extremely High H = Heavy M = Moderate R = Rare NS = Not Significant	3	High Risk =>20
	2	Moderate Risk = 10-19
	1	Low Risk < 9

CONCLUSION
1

Brittany Bunch

Authorized Laboratory Signature
ADHS License #0004

Specimen # 9060419-01

CHAIN OF CUSTODY RECORD



Legend Technical Services, Inc.
www.legend-group.com

17631 N. 25th Avenue • Phoenix, AZ 85023 • (602) 324-6100 • Fax (602) 324-6101
 4585 S. Palo Verde Rd, Ste 423 • Tucson, AZ 85714 • (520) 327-1234 • Fax (520) 327-0518

Page _____ of _____

Laboratory Sample ID: 906051192

CLIENT INFORMATION

Client Name: Mount Tipton Water
 Project Name: 15996 Ironwood Drive
 Address: 15996 Ironwood Drive
 City: Doan Springs AZ
 State: AZ
 Zip: 86641
 Phone: 928-761-3713
 Fax Number of Email Address: 928-762-3053
 Project Number: _____
 P.O. No.: _____
 Contact: _____
 QC Report EDD
 Email Results Special Detection Limits

SAMPLE TYPE CODES

DW=Drinking Water
 WW=Wastewater
 SW=Surface Water
 G=Groundwater
 O=Other

S=Soil/Solid
 T=Travel Blank
 F=Food
 G=Sludge/Biosolids

TURNAROUND TIME

Laboratory Authorization Required for Rush
 Standard 10 - 15 Day
 Other _____

Client's Sample Identification

Sample Location: mp4
 Date: 6-3-09
 Time: 9:50 AM
NON REGISTERED SPRING WELL 6-3-09 9:50 AM / SE CORNER OF PIN 328-07-015
APPROXIMATE GPS
35° 35' 56.92" N
114° 14' 59.29" W
122038X00108950647

REQUESTED ANALYSES

LAB No.	ANALYSES
	IMC/VISA
	DXF

COMPOSITE / GRAB / SAMPLE TYPE

Composite Grab Sample Type: W
 No. of Containers: 1
 Compliance: _____

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION

Comments / Special Instructions: SAMPLE COLLECTED AT 10 PSI OVER 12 HOUR PERIOD AT 2.75 GAL PER MIN. START TIME 6-2-09 9:50 PM END TIME 6-3-09 9:50 AM, START METER READ 4410, END 2425

SAMPLE CONDITION UPON RECEIPT (Lab Use)

No. of Containers	Temperature	Custody Seals	Seals intact	Preserved
1	18.8 C	Y	Y	Y

RELINQUISHED BY

Sampler Signature: Lowell Tim Clark
 Sampler Printed Name: LOWELL TIM CLARK
 Date: 6-3-09
 Time: 11:30 AM

SAMPLES RECEIVED BY

Signature: [Signature]
 Printed Name: [Name]
 Date: 6-3-09
 Time: 1:00 PM

WHITE-LAB YELLOW-CLIENT

9060419



MPA
Sampling
Data Sheet
Information

Sample Site Data

Name: Mount Tipton Water

Address: 15996 Ironwood Drive, Dolan Springs, AZ 86441

System ID: 08059

System Name: Mount Tipton

Sample Collection Point/ID: Non Registered Spring Well

Source/Well ID #: _____

Exact Sample Site: South East corner of P/N 328-07-015
Approximat GPS 35° 35' 56.82" N 114° 14' 59.29" W

Water Source (circle one): Spring Dug Well Drilled Well Artesian Well Other: _____

Distance to nearest surface water: 70 miles to Lake Mead

Type (circle one): River Stream Irrigation Canal Lake Pond

Filter Data

	Before Sampling	After Sampling
Date	6-2-09	6-3-09
Time	9:50 pm	9:50 AM
Flow Meter Reading	4410	2425

Total Sampling Time: 12 hours

Total Volume Sampled (Gallons): 1985 GAL

Sample collected at 10PSI over 12 hour period at 2.75 GAL per min.



Print Screen

License Applications

LFE License ID: 12508 Program License ID: 19980242 Status: UA Closed - Unconditionally approved
 Category: 1673 (NRO) Standard drinking water treatment facility, project, and well AOC
 Place: DETRITAL WELL SITE Contact: KENT NORCROSS
 Reviewer: FOSTER, PETER Refund Claim Number:
 ACR Days Remaining: 0 SR Days Remaining: 0 Extension Days Remaining: 0

New Event

Effective Date: 11/02/1999 Amount \$

Events History

Code	Description	Effective Date	Resp Rcvd	Amount \$
RECV	Receipt of license application	07/20/1999		
NADS	Notification of administrative deficiencies with suspension	08/03/1999	Y	
RSPS	Applicant response to suspension due to deficiencies in ACR	08/20/1999		
NADS	Notification of administrative deficiencies with suspension	08/23/1999	Y	
RSPS	Applicant response to suspension due to deficiencies in ACR	10/08/1999		
ACRD	Administrative completeness review done	11/01/1999		
UNAP	Unconditional approval of license application	11/02/1999		

Enter License Application Id
Count: *1

File

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
CERTIFICATE OF APPROVAL TO CONSTRUCT
DRINKING WATER WELL FACILITIES

PAGE 1 of 2

SYSTEM NAME: DETRITAL WELL

SYSTEM NO.: 08059

PROJECT OWNER: MT. TIPTON WATER CO

ADDRESS: P.O. BOX 153, DOLAN SPRINGS, AZ 86441

PROJECT LOCATION: COUNTY: MOHAVE

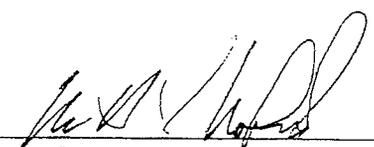
DESCRIPTION: MT. TIPTON WATER CO. DETRITAL WELL #55-502441 IMPROVEMENTS, INCLUDING PUMP AND MOTOR REPLACEMENT, FENCE, CONTROL BUILDING AND STANDPIPE ASSEMBLY.

Approval to Construct the above-described facilities as represented in the approved documents on file with the Arizona Department of Environmental Quality is hereby given subject to provisions 1 thru 13 continued on Page 1 thru 2.

1. Notice shall be given to the Central Regional Office located in Phoenix when construction of the project begins to allow for inspection during construction per A.R.S. Section 49-104.B.10.
2. The project owner shall retain a professional engineer as soon as possible to provide detailed construction inspections of this project. Upon completion of construction, the engineer shall fill out the Engineers Certificate of Completion (attached), and forward it to the Regional Office. If all requirements have been completed the Regional Office will issue a Certificate of Approval of Construction.
3. Operation of a newly constructed facility shall not begin until a Certificate of Approval of Construction has been issued by the Department.

The State law, A.R.S. Section 49-104.B.10, requires that construction of the project must be in accordance with rules and regulations of the Arizona Department of Environmental Quality. This certificate will be void if construction has not started within one year of the approval date. Upon request a written time extension may be granted by the department.

Reviewed by: KNS:cae

By: 

Wm. H. Shafer, Jr., P.E., Manager
Technical Engineering Unit
Water Quality Division

7/20/98

Approval Date

cc: File No.: 980242
Regional Office: Central
County Health Department: Mohave
Owner: Mt. Tipton Water Co
Engineer: Sunrise Engineering Inc.
Planning and Zoning/Az Corp. Commission
Engineering Review Database

99 JUL 23 PM 2:17

REGIONAL OFFICE

APPROVAL TO CONSTRUCT

Well Facilities

ADEN File No. 980242

Page 2 of 2: Provisions Continued

- 4). Well construction shall conform with DWR regulations.
- 5). Well grout seal must be at least 20 feet.
- 6). Well setbacks shall be in accordance with A.A.C. R18-4-502.D.
- 7). All materials and products used in the drinking water system shall conform to NSF Standard 61.
- 8). Construction materials used in the water system shall be lead free as defined at R18-4-504 and R18-1-101.
- 9). Waterlines, well and related appurtenances shall be disinfected by chlorination in accordance with AWWA C601 Standard or ADEQ Bulletin No. 8.
- 10). Water lines shall be pressure and leakage tested in accordance with AWWA C600 Standard.
- 11). Backflow prevention shall meet the A.A.C. R18-4-115 requirements.
- 12). Hauled water operation shall meet the A.A.C. R18-4-125 requirements.
- 13). Approval of construction for the well can not be issued until all water test results required by A.A.C. Title 18, Article 2 are submitted and approved.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE

1515 E. Cedar Ave., Ste. F, Flagstaff, AZ 86004

APPROVAL OF CONSTRUCTION

(APPROVAL TO OPERATE)

F

Project Description: Mt. Tipton Water Co Detrital Well #55-502441 improvements, including pump and motor replacement, fence, control building and stanpipe assembly.

Location Mohave County

Project Owner Mt. Tipton Water Co

Mailing Address: PO Box 153, Dolan Springs, AZ 86441

Approval to operate the above-described facilities as represented in the approved plan documents on file with the Arizona Department of Environmental Quality is hereby given subject to the following provisions:

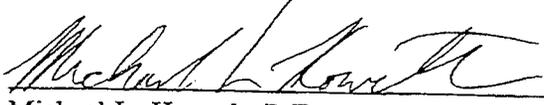
- On July 20, 1998, the above-referenced project was issued an Approval to Construct.
- On _____, _____, P.E., certified construction inspections were performed and the referenced project was built in accordance with the approved plans and specifications.
- On July 16, 1999, Kent E. Norcross, P.E., certified construction inspections were performed and the referenced project was built in accordance with the as-built plans and specifications.
- On _____, a cursory inspection of the project was performed by _____, Environmental Engineering Specialist, of the Northern Regional Office. No detailed construction inspection was performed. The project appears to be constructed in accordance with the approved plans and specifications. However, good construction practice dictates that a resident inspector be on site at all times during construction. The cursory inspection by personnel of this Office does not provide a substitute for a resident inspector under the supervision of a Professional Engineer. This should not be construed or implied as a guarantee or warranty of the quality of the construction.
- All provisions and conditions of the Certificate of Approval to Construct are made a part of this approval.
- See the attached sheet for additional provisions.
 - Attachment A Attachment A-1 Attachment B Attachment C

The State law, A.R.S. 49-104.B,10,12 requires that the operation of the project must be in accordance with the rules and regulations of the Arizona Department of Environmental Quality

Date Approved: 11/2/99

IRH:PRF:jem

File Number: 980242
 NV. #: N/A LTF #: 12508
 System File: 08-059
 Engineering Review Desk, WQD/Phoenix
 County Health Department Mohave
 Engineer: Kent E. Norcross
 NRO Reading File
 Real Estate Dept (subd. only) YES NO


 Michael L. Howeth, P.E.
 Field Services Manager, West
 Northern Regional Office

Governor
Jane Dee Hull



Jacqueline E. Schafer
Director

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Northern Regional Office
1515 E. Cedar Ave., Ste. F, Flagstaff, AZ 86004
520-779-0313, 1-877-602-3675, Fax 520-773-2700

Notice of Licensing Decision To Grant Prior to Expiration of Licensing Time Frames

November 2, 1999

Licensing time frames tracking ID: 12508 Project application ID: ADEQ CF #980242

Dear Applicant:

ADEQ has granted you a license in response to the above referenced application. A copy of the license is attached. ADEQ review of your application was subject to the requirements of the licensing time frames statute under A.R.S. §§ 41-1072 through 41-1079. This letter is the written notification of the licensing decision required under A.R.S. § 41-1076 and A.A.C. R18-1-507(A).

ADEQ has determined that it has issued this letter containing ADEQ's licensing decision to you prior to the expiration of the A.R.S. § 41-1073(A) licensing time frames governing your application. This determination may be an appealable agency action under A.R.S. § 41-1092(3) or a contested case under A.R.S. § 41-1001(4). You have a right to request a hearing on an appealable agency action or a contested case and to request an informal settlement conference under A.R.S. § 41-1092.06 and A.A.C. R18-1-203. To obtain a hearing on an appealable agency action or a contested case, you must file a notice of appeal within 30 days after receiving this letter.

The name and telephone number of an ADEQ contact person who can answer questions concerning the appeals process is the acting ADEQ ombudsman, Greg Workman, at 602-207-4337 in the Phoenix area and at 800-234-5677, extension 4337, in other Arizona areas. Please contact Pete Foster, NRO, at 773-2707 if you have other questions concerning this matter.

Governor
Jane Dee Hull



Jacqueline E. Schafer
Director

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Northern Regional Office
1515 E. Cedar Ave., Ste. F, Flagstaff, AZ 86004
520-779-0313, 1-877-602-3675, Fax 520-773-2700

Notice of Administrative Completeness

November 2, 1999

Licensing time frames tracking ID: 12508 Program application ID: ADEQ CF #980242

Dear Applicant:

ADEQ review of your application referenced above is subject to the requirements of the licensing time frames statute under A.R.S. §§ 41-1072 through 41-1079 and the licensing time frames rules under A.A.C. R18-1-501 through R18-1-525. ADEQ has determined that the application is administratively complete in accordance with the licensing time frames statute and rules.

This letter is the written notification of this determination required under A.R.S. § 41-1075 and A.A.C. R18-1-503(D). This determination causes the administrative completeness review time frame on your application to end and the substantive review time frame to begin.

Please contact Pete Foster, NRO, at 773-2707, if you have questions regarding this matter.

ENGINEER'S CERTIFICATE OF COMPLETION AND FINAL INSPECTION "ECC"

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) - WATER QUALITY DIVISION JUN 8/97

ADEQ FILE NO.: <u>980242</u> → <input checked="" type="checkbox"/> DRINKING WATER DESIGN Check only one → <input type="checkbox"/> WASTEWATER DESIGN If separate Drinking Water & Wastewater Approvals to Construct were issued, separate ECCs required	COUNTY: <u>Mohave</u> OWNER: <u>Mt. Tipton Water Company</u>
Project Description: <u>Detrital Well #55-502441 Improvements, including pump and motor replacement, fence, control building and standpipe assembly.</u>	
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY NORTH REGIONAL OFFICE 99 JUL 19 AM 8:06	
† ACCURATELY DESCRIBE COMPLETED PROJECT - USE AT LEAST SAME DETAIL AS IN APPROVAL TO CONSTRUCT "PROJECT DESCRIPTION" † (Continue on Reverse, if needed)	

I, Kent E. Norcross, a Professional Engineer registered in the State of Arizona, have inspected the construction of the above described project, and certify that (check all applicable boxes, complete applicable blanks):

ITEMS 1) THRU 4) MUST BE COMPLETED

- 1) The work on this project was completed on 2/17/99 (date).
- 2) On 2/19/99 (date) a final construction inspection was conducted by MYSELF [under MY DIRECT SUPERVISION by Roger Pauls (print name)].
- 3) The materials utilized and the installation and construction of those materials and equipment are in conformance with the approved plans and specifications and the Arizona Department of Environmental Quality (ADEQ) Certificate of Approval to Construct issued on 7/20/98 (date in certificate signature block).
- 4) All construction and preoperational tests (infiltration, exfiltration, pressure deflection, chlorination, bacteriological, etc.) [**circle types performed**] were properly conducted, met ADEQ requirements, and are presented in attachments to this Certificate. The total number of pages of test results attached is 10.

EITHER 5A) or 5B) MUST BE CHECKED

- 5A) Any deviation from the approved plans and the ADEQ Certificate of Approval to Construct have been noted on the attached "As-Built" plans (as stipulated in the Approval to Construct provisions) prepared and sealed pursuant to A.R.S. § 32-125 on 3/26/99 (date). Of the total 8 sheets of "As-Built" plans attached, deviations from the approved plans are shown on sheets numbered 4 of 8 and 5 of 8. All deviations from the approved plans comply with the ADEQ minimum design and construction standards contained in statute, rule, bulletin or referenced codes, and with the key elements of the approved plans.
- 5B) The completed project did not deviate from the plans which received the Approval to Construct.

EITHER 6A) or 6B) MUST BE CHECKED

- 6A) This project did not require the preparation of an Operation and Maintenance Manual.
- 6B) An Operation and Maintenance Manual has been prepared for this project and a copy is attached. This manual meets all ADEQ minimum design and construction standards contained in statute, rule, bulletin, referenced codes, the key elements of the approved plans, and, if applicable, with Attachment B of the September 10, 1994 Engineering Advisory for Individual Alternate Systems.

EITHER 7A) or 7B) MUST BE CHECKED

- 7A) Review of this project for Approval of Construction issuance does not require a fee because this project involves only drinking water, not wastewater.
- 7B) In accordance with A.A.C. R18-9-103 Schedule B, a check in the amount of \$ _____ is attached as initial fee for review of the submitted and other information for issuance of an Approval of Construction.

ADDITIONAL INFORMATION

- 8) Other, see additional Information on reverse side.

↓ ENGINEER'S SEAL per AACR4-30-304.B ↓

Engineer Address 3660 E. University, Suite 2
Mesa, AZ 85205 Phone (480) 832-4420

AZ DEPARTMENT OF ENVIRONMENTAL QUALITY ACCEPTANCE		
EMPLOYEE SIGNATURE	(PRINTED NAME)	DATE





ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

License Application Information Cover Form

This form provides basic information needed to expedite the processing of applications for a license subject to A.R.S. 41-1072.* After completing this form, please send it along with all other necessary application components, including the minimum filing fee if required, to:

Central Data Management Group
Arizona Department of Environmental Quality
Mail Stop LL006A
3033 N. Central Ave.
Phoenix, AZ 85012-2801

* for information or assistance in completing this form, including determining when this form may be sent to one of the ADEQ regional offices, please call: Central Data Management Group: 602/207-7654, Fax: 602/207/4399 or e-mail: cdmg@ev.state.az.us

<<<SEE INSTRUCTIONS ON REVERSE SIDE>>>

1: License Category-ID and Description being applied for: (from License Category Tables):		1673	(NRO) Std. DW Project (Well) AOC			
2: Primary Contact-NAME: (contact authorized to receive all notifications)	Last name:	Norcross		First name:	Kent	
	Middle initial:	E.	Suffix:	P.E.	Known as:	Sunrise Engineering, Inc.
Primary contact mailing address:	Street Address:	3660 E. University Dr., Ste. 2				
	City:	Mesa	State:	AZ	Zip Code (+4)	85205
Other primary contact information:	Phone number:	602-832-4420		Fax number:	602-830-4150	
	E-mail ID:				Is this the billing address? Yes or	N/A

If the license being applied for is not an occupational license, please fill out Sections 3 & 4.

3: Applicant FULL NAME: (Normally business/organization name)		Mt. Tipton Water Co.				
Applicant mailing address:	Street Address:	P.O. Box 153				
	City:	Dolan Springs	State:	AZ	Zip Code (+4)	86441
Other applicant contact information:	Phone number:			Fax number:		
	E-mail ID:				Is this the billing address? Yes or	N/A

4: Property/Site name:		Detrital Well 5				
Current or prior alias ("known as"):						
<i>Site location information:</i>						
Actual or anticipated Physical address AND/OR	Street				County:	Mohave
	City:		State:	AZ	Zip Code (+4)	86441
Latitude/longitude AND/OR	Latitude:	Degrees	Minutes	Seconds		
	Longitude:	Degrees	Minutes	Seconds		
Directions from nearest town (include mileposts where applicable) or cadastral location:	Nearest town:	Dolan Springs				
	Driving directions:	I-40 W. Of Flagstaff to Hwy. 93, N. And just E. Of highway				
Township:	26N	Range:	20W	Section:	27	Qtr 1: Qtr 2: Qtr 3:

DO NOT WRITE IN THIS SECTION: (ADEQ use only)		<input type="checkbox"/> AIR	<input type="checkbox"/> WATER	<input type="checkbox"/> WASTE	<input type="checkbox"/> SAF	<input checked="" type="checkbox"/> NRO	<input type="checkbox"/> SRO	<input type="checkbox"/> VEI
Contact Name:	Pete Foster	Location:	NRO	USAS# Needed?	N	USAS#:		
Check #:	N/A	Check Amt:		Received By:	Pat Fox	LTF ID#:	12508	
Other ADEQ Identifiers:	ADEQ CF#980242; No copy of ATC application in NRO							



SUNRISE ENGINEERING, INC.

3660 EAST UNIVERSITY DRIVE, SUITE 2 • MESA, ARIZONA 85205 • (480) 832-4420 • FAX (480) 830-4150

BULLHEAD CITY, AZ
PRESCOTT VALLEY, AZ
FILLMORE, UT
SALT LAKE CITY, UT
AFTON, WY

October 5, 1999

Mr. Pete Foster
Arizona Department of Environmental Quality
Northern Regional Office
1515 East Cedar Avenue, Suite F
Flagstaff, Arizona 86004

**RE: Mt. Tipton Water Company – Detrital Well Piping & Restraint Modification
ADEQ File Number: 980242**

Dear Mr. Foster:

Enclosed is a copy of a drawing showing a modification to the original record drawing in the area of the bends and thrust blocks as the supply line enters the ground and the proposed modification to the well pipe support to eliminate the pipe deflection at the well head. In further discussion with Technology Construction, Inc. (Contractor for the project) they indicated that due to site layout constraints they modified the piping layout as shown on the enclosed drawing. This layout included two 22 1/2° bends instead of the original 45° bend to accommodate the tee to the standpipe. In addition, the Contractor installed U-shaped 1/2" rebar over each of the fittings into the thrust blocks below to provide restraint in the vertical direction. The Contractor also used mega-lug restraints on all fittings.

Evidently this arrangement has still allowed some deflection of the well piping at the well head. This has been stopped by the addition of a restraint at the well head. However, as per our last discussion, this method of restraint is not acceptable to ADEQ. Therefore, we are proposing the restraint shown in the lower right-hand corner of the enclosed drawing. This restraint would be attached to the existing concrete base surrounding the well head. The proposed restraint would provide total restraint for the well piping by being fastened to the concrete base and into the flange of the piping. Once this restraint is in place, the current restraint at the well head will be removed.

We have submitted this method of restraint to ADEQ for approval prior to installation. Upon your approval, Sunrise will authorize the Contractor to install the restraint. Upon completion of the installation, Sunrise will submit the final record drawings to ADEQ and request final Approval of Construction for the Detrital well project.

If you have any questions or if additional information is needed, please contact the Mesa office of Sunrise Engineering, Inc. at (480) 832-4420. Thank you for your continued assistance with this project.

Sincerely,
Sunrise Engineering, Inc.

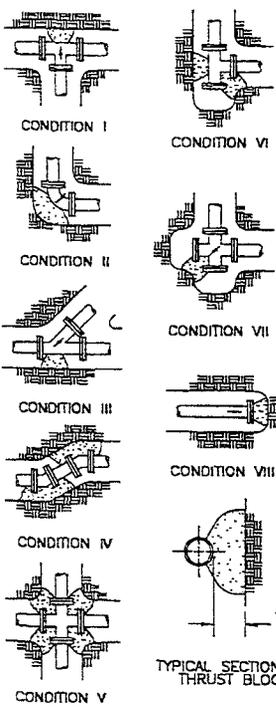
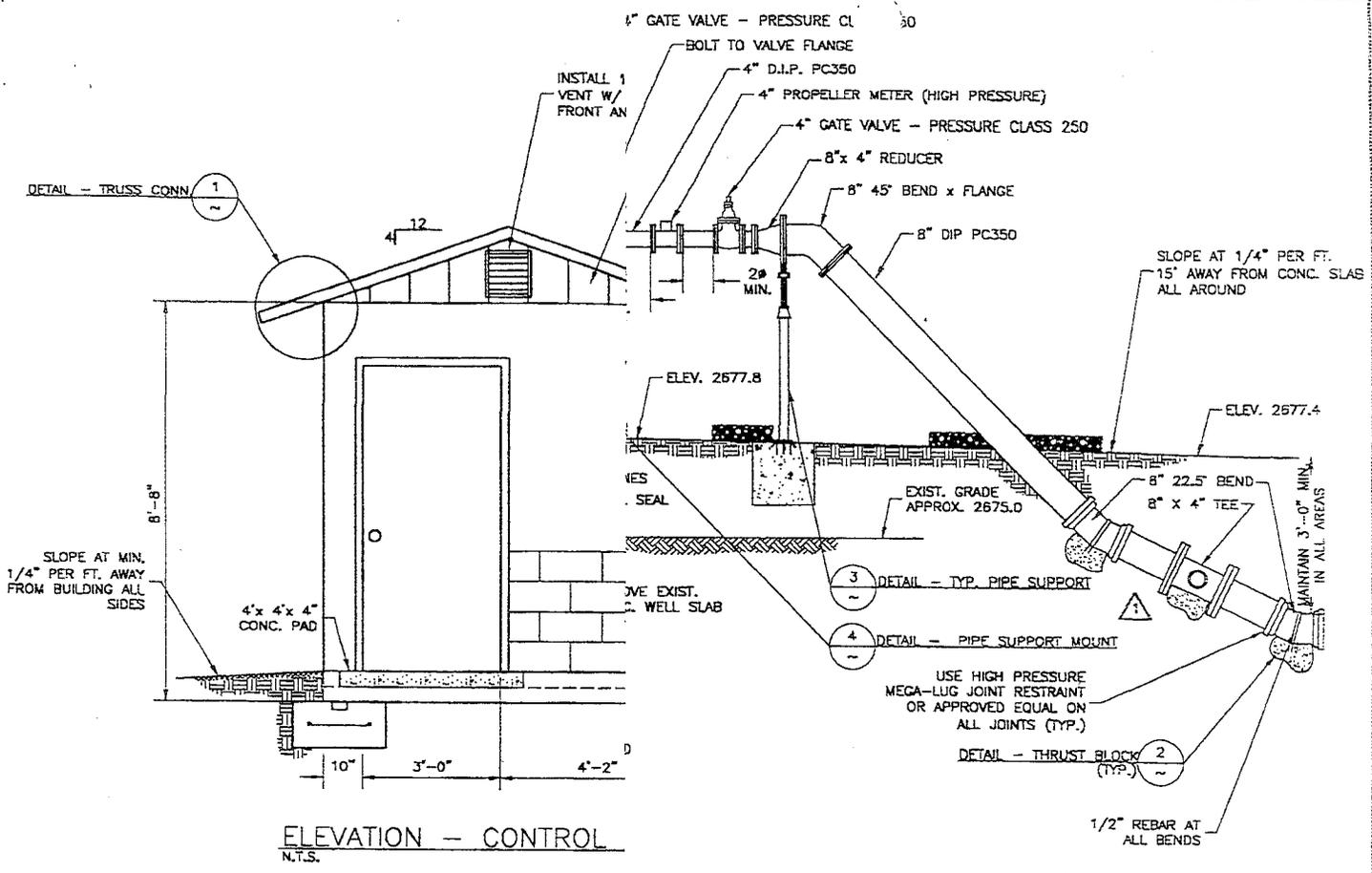
Kent E. Norcross, P.E.
Project Engineer

Enclosure

Cc: Kevin Teter, Mt. Tipton Water Company

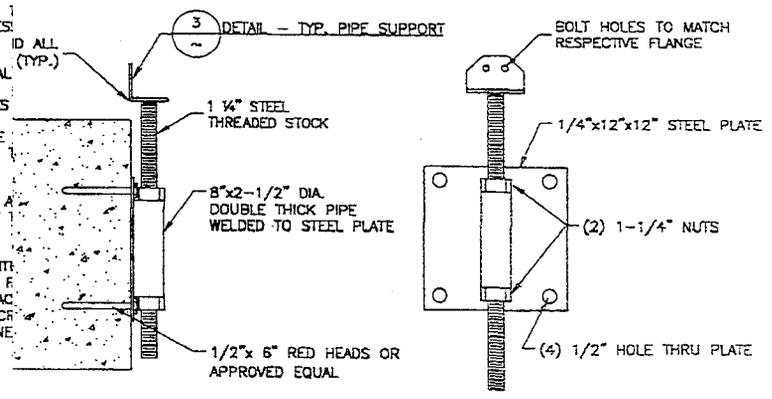
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
OCT - 8 AM 11:17

K:\E6081\Record Drawing\01b.dwg Fri Oct 01 11:19:56 1999 TFB



PIPE SIZE	THRUST BLOCK BEARING COND.			
	I	II	III	IV
4	2.6	3.3	2.6	1.3
6	4.6	6.5	3.6	2.0
8	7.8	11.0	5.9	3.3
10	12.4	17.5	9.8	5.2
12	17.5	24.5	13.6	7.8
14	24.0	33.8	18.2	9.7
16	31.1	44.0	23.9	12.7

- NOTES:
1. ALL THRUST BLOCK BEARING PLACED AGAINST UNDISTURBED COMPACTED BACKFILL.
 2. CONCRETE SHALL BE CLASS 4000.
 3. CALCULATED ON 225 LB. ALLOWABLE BEARING PRESSURE PER SQ. FT.
 4. IN POORER SOILS SPECIAL BEARING TESTS SHALL BE REQUIRED.
 5. ALL THRUST BLOCK SIDES SHALL BE FINISHED WITH POLYETHYLENE.
 6. ALL PIPE FITTINGS TO BE INSTALLED PRIOR TO THRUST BLOCK INSTALLATION.
 7. THE CONTRACTOR SHALL VISUALLY INSPECT EVERY THRUST BLOCK.
 8. CONTRACTOR MAY SUBSTITUTE OTHER DEVICES ON BENDS AND FITTINGS AT DETERMINED DISTANCE EACH BEND, IN LIEU OF CONCRETE THRUST BLOCKS, APPROVED BY THE ENGINEER.



2 DETAIL - THRUST BLOCK TYP. N.T.S.

3 DETAIL - TYP. PIPE SUPPORT N.T.S.

4 DETAIL - PIPE SUPPORT MOUNT N.T.S.

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	10/01/99	PIPE ANGLE & SUPPORT	TFB
2			
3			
4			
5			
6			
7			

SUNRISE ENG COMPANY
CONSULTING ENGINEERS PLLC

3660 E. UNIVERSITY DR., SUITE 2
MESA, ARIZONA 85205 (480) 832-4420

PROJECT NO. E6081		
DESIGNED	CHECKED	DRAWN
JW	KEN	REAP
DATE	DRAWING NO.	SHEET NO.
01/14/98		11
SCALE	SHEET NO. 4 OF 8	
N.T.S.		

Governor
Jane Dee Hull



Jacqueline E. Schafer
Director

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Northern Regional Office - 1515 East Cedar, Suite F
Flagstaff, AZ 86004 (520) 779-0313
1-877-602-3675

August 23, 1999

Sunrise Engineering, Inc.
3660 East University Drive, Suite 2
Mesa, AZ 85205

Dear Mr. Norcross:

RE: Mt. Tipton Water Co. - Detrital Well ADEQ No. 980242 County Mohave

Location/Description: Detrital Well Improvements, including pump and motor replacement, fence, control building and standpipe assembly.

Concerning your recent submittal of:

- | | |
|---|---|
| <input type="checkbox"/> Bacteriological Sampling Results | <input type="checkbox"/> Testing Calculations |
| <input type="checkbox"/> Engineer's Certificate of Completion | <input type="checkbox"/> Deflection Testing Results |
| <input type="checkbox"/> As-built Plans | <input type="checkbox"/> Other |
| <input type="checkbox"/> Backflow Apparatus Certification | |

An Approval of Construction cannot be issued by this Office because the following checked items have not been properly addressed:

1. Engineer's Certificate of Completion:

- Engineer's Certificate of Completion not submitted.
- Copy enclosed.
- Latest Certificate not used (see enclosed Certificate revised 3-9-96).
- Certificate not properly filled out. Returned for correction(s). Original seal & signature required.
- Engineer's Seal is missing. Not signed. Not dated.
- ADEQ Project Number is missing. Testing witness is not named.
- The inspector must be the Engineer or his bonafide employee.
- Approvals of Construction for Water and Sewer must be issued simultaneously.

2. As-built Plans:

- As-built plans not submitted. As-builts returned for correction(s) (See item #4)
- Original seal & signature required.
- As-built not stamped or marked on each sheet.
- As-built plans have been determined to reflect significant changes from the approved plans and will be transmitted to the Technical Review Unit for review.
- For "or equal" items, as-built plans must reflect what was actually installed.
- Audit inspection by this Office found following deviations from approved plans, which must be shown on as-built plans.
- Copy enclosed

3. Testing:

- Infiltration, exfiltration, disinfection, backflow apparatus certification and/or pressure testing calculations must be submitted, showing compliance with the more restrictive requirements of the approved specifications or applicable Arizona Department of Environmental Quality Engineering Bulletins.
- Insufficient quantity of the project was tested: _____
- Testing results do not meet standards: _____
- Errors made in testing calculations.
- Deflection testing not done as required or it is not indicated which runs of pipe tested.
- Evidence of bacteriological sampling not submitted for a water project.

4. Additional Comments/ Requirements:

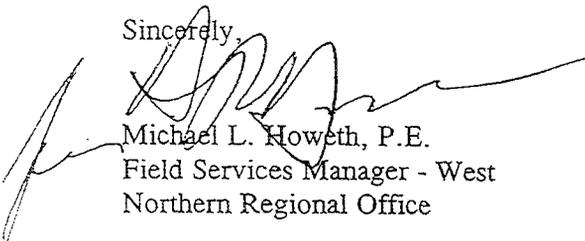
An inspection performed by this office found that the piping assembly is failing and needs to be reinstalled and properly thrust blocked if necessary. The response by the engineer that the problem may be fixed under a future project is not acceptable. Please fix the problem.

It is necessary to obtain an Approval of Construction from this Office prior to starting use of the newly-constructed water or sewage facility. In many instances, local building departments will not permit occupancy of a structure until an Approval of Construction is issued for the water and sewage system. In the event that operation of the facility begins without an Approval of Construction, the matter may be referred to the Enforcement Officer of the Office of Water Quality in Phoenix for further action. Such action may include a Cease and Desist Order and fines of up to \$20 per day, depending on the type of project. It is hoped to avoid this enforcement situation, if at all possible.

If the system in question is currently operating without an Approval of Construction, it must be brought into compliance and all relative conditions satisfied prior to the issuance of the Certificate.

Therefore, within 30 days correct the above referenced deficiencies in order to avoid the possibility of enforcement action. If there are any questions, please feel free to contact Peter R. Foster of this Office at the above address, or call (520) 779-0313.

Sincerely,



Michael L. Howeth, P.E.
Field Services Manager - West
Northern Regional Office

- Enclosures: Attachment A
 As-built Plans
 Engineer's Certificate of Completion
 Deviations from Approved Plans and Specifications

MLH:PRF:jem

cc: Mohave County Health Department
Mt. Tipton Water Company



SUNRISE ENGINEERING, INC.

3660 EAST UNIVERSITY DRIVE, SUITE 2 • MESA, ARIZONA 85205 • (602) 832-4420 • FAX (480) 830-4150

August 13, 1999

BULLHEAD CITY, AZ
PRESCOTT VALLEY, AZ
FILLMORE, UT
SALT LAKE CITY, UT
AFTON, WY

99 AUG 17 PM 2:49
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE

Mr. Michael L. Howeth, P.E.
Arizona Department of Environmental Quality
Northern Regional Office
1515 East Cedar Avenue, Suite F
Flagstaff, Arizona 86004

RE: Mt. Tipton Water Company – Detrital Well
ADEQ File Number: 980242

Dear Mr. Howeth:

The enclosed items are in response to your August 2, 1999 letter regarding the Mt. Tipton Water Company's Detrital Well project. Enclosed is a copy of the disinfection procedure from the project specifications, a copy of the chlorination residual test results, and a copy of the bac-t testing results.

The well used in this project was an existing well and this project only involved equipping the well and the construction of a standpipe facility and electrical power, therefore the existing well was not chlorinated as a part of this project. However the results of the bac-t tests indicate that there is no apparent bacteriological problem with the well or the standpipe facility.

The chlorination of the new piping for the well and standpipe facility was completed by Dan Gratton of Technology Construction under the supervision of Roger Pauls, Senior Inspector with Sunrise Engineering, Inc. Enclosed is a copy of the chlorine residual test results showing that the chlorination met the requirements of ADEQ Engineering Bulletin #8.

Sunrise recently visited the site and observed the operation of the well and standpipe facility. During this test run the facility functioned as designed. There was evidence of previous movement of the well piping at the flex coupling, however during this test there was no pipe movement. Since the initial construction of the well, the contractor has added some additional restraints on the well site piping and this has eliminated the movement of the well piping. This facility was designed to provide water through a yet to be constructed water supply line to the current Mt. Tipton water distribution system. As a part of this future project, modifications will be made to the existing well piping if it is determined to be necessary.

We hope that this information is sufficient, however if there are additional questions or if additional information is needed please contact Sunrise Engineering, Inc. at (480) 832-4420.

Sincerely,
Sunrise Engineering, Inc.

Kent E. Norcross, P.E.
Project Engineer

Enclosures

Cc: Board of Directors, Mt. Tipton Water Company

compliance is found, the CONTRACTOR shall make repairs as outlined in Section 02224 and additional testing of other sections of pipe will be requested.

02222.4.13 DISINFECTION

All pipelines to be used for culinary water service shall be disinfected in accordance with the requirements of State and Local public drinking water regulations.

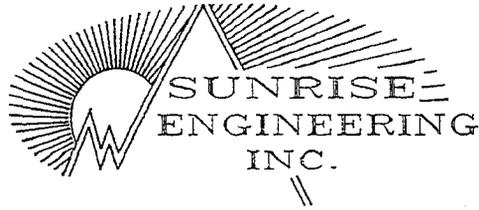
The CONTRACTOR may use any method which complies with the above referenced standards; however, the "slug method", prescribed in ANSI/AWWA C-651, is preferred. This method basically consists of filling the line with potable water and then injecting a "slug" of concentrated chlorine solution (100 mg/L) at the upstream end of the line. The "slug" is then moved through the line by slowly draining the low end. When properly conducted, this procedure provides contact to the interior pipe surfaces with a heavily concentrated dose of chlorine to achieve disinfection.

After disinfection, the lines shall be flushed until residual chlorine is reduced to the levels safe for consumption. Samples for bacteriological testing can then be taken. The CONTRACTOR shall safely and legally dispose of contaminated water used for disinfection after consultation with the local authorities. Under no circumstances shall heavily chlorinated water be allowed to mix with "live" waters, meaning waters in lakes, rivers, streams or wetlands.

02222.4.14 TESTING DOCUMENTATION

The CONTRACTOR shall maintain a record of all testing performed, and the test results obtained for the lines installed under this CONTRACT. Minimum information contained on the record shall include the following:

- All Documents:
 - ⇒ Date of issuance of the record
 - ⇒ Name of CONTRACT
 - ⇒ CONTRACTOR's name and address
- Disinfection Report:
 - ⇒ Name and address of treatment supervisor
 - ⇒ Disinfection method used
 - ⇒ Location and boundary description of section to be disinfected
 - ⇒ Time and date of disinfectant introduction
 - ⇒ Time and date of disinfectant release
 - ⇒ Initial disinfectant residual (ppm) for each outlet tested
 - ⇒ Time and date of flushing after disinfection
 - ⇒ Signature of treatment supervisor (signifies completion of disinfection activities)
- Bacteriological Report:
 - ⇒ Date issued
 - ⇒ Project name and location
 - ⇒ Laboratory's name, certification number, address and phone number
 - ⇒ Test location
 - ⇒ Time and date of sample collection
 - ⇒ Name of person collecting sample
 - ⇒ Time and date of laboratory test start
 - ⇒ Coliform bacteria test results for each sample
 - ⇒ Certification that water conforms (or fails to conform) to bacterial standards of State of Utah public drinking water regulations



CHLORINE RESIDUAL TEST

Test Report No. 1

Project Name Detrital Well

Contractor technology Const.

Test Times Day/Date 2-11-99 Day/Date 2-12-99

Test Technician Don Gratton

Engineer's Inspector Roger Pauls

Test Results
Chlorine Concentration at initial chlorination of the well piping is 60 ppm.
Chlorine Residual after 24 hours is over 20 ppm.

Comments
Chlorine Concentration is acceptable.

***** MICROBIOLOGICAL ANALYSIS *****
>>> To be filled out by laboratory personnel <<<

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date/Time	Analysis Run Date/Time	Result
9221D	Present 1 or more Coliform	Total Coliform	3000	[5/25/99] 10:30	[5/27/99] 09:45	0

ONLY REPORT FECAL RESULT IF TOTAL COLIFORM RESULT IS POSITIVE

Analysis Method	MCL Value	Contaminant Name	Cont. Code	Test Start Date/Time	Analysis Run Date/Time	Result
EPA-311	Present/ 1 or more Coliform	E. Coli or Fecal Coliform	3013	[]	[]	_____

>>>> LABORATORY INFORMATION <<<<
>>>> To be filled out by Laboratory Personnel <<<<

SPECIMEN NUMBER [9905150] [05 / 24 / 99] [08 : 15] (24 hr clock)
Sample date Sample time
ID Number [AZ 0 / 0 / 0 / 3] Name: [Aquatic Consulting and Testing, Inc. (602) 921-804]
Comments: [Temp: AMB]
Authorized Signature: [See Attached]
Date Public Water System Notified []

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
 DRINKING WATER PRIMARY MICROBIOLOGICAL ANALYSIS REPORT

*** Collect samples in distribution system only ***

COPY TO ADED: YES NO

>>>> SYSTEM INFORMATION <<<<

System ID #: 05-059

System Name: MT Tipton WTC

Sample Date: 5-23-99

Time (24hr): 0813

Collected By: _____

Sample Type

Compliance Monitoring

Owner/Contact Person

Name: Kevin Talar

Phone: 520-767-3278

Fax: 520-767-3057

Sample Collection Point/ID

Zone _____

Sample Site ID

Well #4

System Mailing Name & Address

MT TIPTON WATER CO. INC.
18895 REDWOOD DR.
PH. 520-38
DOLAN SPRINGS, AZ 86421-0032

Use only if initial sample was positive.

Original Violation Specimen Number

- Repeat, Original Location
- Repeat, Other Location
- Repeat, Downstream Location
- Repeat, Upstream Location
- 400 mL Repeat (Single tap only)
- 300 mL Repeat (Single tap only)

>>>> MICROBIOLOGICAL ANALYSIS <<<<

Analysis Method	MCL Value	Contaminant Name	Contaminant Code	Test Start Date/Time	Test Stop Date/Time	Result
<u>9221D</u>	<u>Present/1</u>	<u>Total Coliform</u>	<u>3000</u>	<u>MAY 25 1999</u> <u>@1030</u>	<u>MAY 27 1999</u> <u>@0915</u>	<u>0</u>

Only report fecal result if the total coliform result is positive

Analysis Method	MCL Value	Contaminant Name	Contaminant Code	Test Start Date/Time	Test Stop Date/Time	Result
	<u>Present/1</u>	<u>Fecal Coliform</u>	<u>3013</u>			

>>>>> LABORATORY INFORMATION <<<<<

Specimen Number: 9905150

Date/Time Received: 5/23/99 0813

ID Number: AZC003

Name: Aquatic Consulting & Testing, Inc. (602) 921-6044

Comments: Temp: AMS

Authorized Signature: [Signature]

Date Public Water System Notified: _____



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Northern Regional Office - 1515 East Cedar, Suite F
Flagstaff, AZ 86004 (520) 779-0313
1-877-602-3675

August 2, 1999

Sunrise Engineering, Inc.
3660 East University Drive, Suite 2
Mesa, AZ 85205

Dear Mr. Norcross:

RE: Mt. Tipton Water Co. - Detrital Well

ADEQ No. 980242 County Mohave

Location/Description: Detrital Well Improvements, including pump and motor replacement, fence, control building and standpipe assembly.

Concerning your recent submittal of:

- | | |
|---|--|
| <input type="checkbox"/> Bacteriological Sampling Results | <input checked="" type="checkbox"/> Testing Calculations |
| <input type="checkbox"/> Engineer's Certificate of Completion | <input type="checkbox"/> Deflection Testing Results |
| <input type="checkbox"/> As-built Plans | <input type="checkbox"/> Other |
| <input type="checkbox"/> Backflow Apparatus Certification | |

An Approval of Construction cannot be issued by this Office because the following checked items have not been properly addressed:

1. Engineer's Certificate of Completion:

- Engineer's Certificate of Completion not submitted.
- Copy enclosed.
- Latest Certificate not used (see enclosed Certificate revised 3-9-96).
- Certificate not properly filled out. Returned for correction(s). Original seal & signature required.
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- The inspector must be the Engineer or his bonafide employee.
- Approvals of Construction for Water and Sewer must be issued simultaneously.

2. As-built Plans:

- As-built plans not submitted. As-builts returned for correction(s) (See item #4)
- Original seal & signature required.
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- Audit inspection by this Office found following deviations from approved plans, which must be shown on as-built plans.
- Copy enclosed

3. Testing:

- Infiltration, exfiltration, disinfection, backflow apparatus certification and/or pressure testing calculations must be submitted, showing compliance with the more restrictive requirements of the approved specifications or applicable Arizona Department of Environmental Quality Engineering Bulletins.
- Insufficient quantity of the project was tested: _____
- Testing results do not meet standards: _____
- Errors made in testing calculations.
- Deflection testing not done as required or it is not indicated which runs of pipe tested.
- Evidence of bacteriological sampling not submitted for a water project.

4. Additional Comments/ Requirements:

Please provide disinfection method and results for well and pipe assembly as per bulletin No. 8. In addition, an inspection performed by this office found that the piping assembly is failing and needs to be reinstalled and properly thrust blocked.

It is necessary to obtain an Approval of Construction from this Office prior to starting use of the newly-constructed water or sewage facility. In many instances, local building departments will not permit occupancy of a structure until an Approval of Construction is issued for the water and sewage system. In the event that operation of the facility begins without an Approval of Construction, the matter may be referred to the Enforcement Officer of the Office of Water Quality in Phoenix for further action. Such action may include a Cease and Desist Order and fines of up to \$20 per day, depending on the type of project. It is hoped to avoid this enforcement situation, if at all possible.

If the system in question is currently operating without an Approval of Construction, it must be brought into compliance and all relative conditions satisfied prior to the issuance of the Certificate.

Therefore, within 30 days correct the above referenced deficiencies in order to avoid the possibility of enforcement action. If there are any questions, please feel free to contact Peter R. Foster of this Office at the above address, or call (520) 779-0313.

Sincerely,

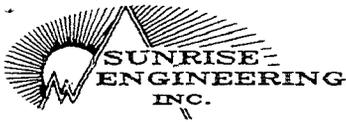


Michael L. Howeth, P.E.
Field Services Manager - West
Northern Regional Office

- Enclosures: Attachment A
 As-built Plans
 Engineer's Certificate of Completion
 Deviations from Approved Plans and Specifications

MLH:PRF:jem

cc: Mohave County Health Department
Mt. Tipton Water Company



SUNRISE ENGINEERING, INC.

3660 EAST UNIVERSITY DRIVE, SUITE 2 • MESA, ARIZONA 85205 • (602) 832-4420 • FAX (602) 830-4150

BULLHEAD CITY, AZ
PRESCOTT VALLEY, AZ
FILLMORE, UT
SALT LAKE CITY, UT
AFTON, WY

July 16, 1999

Mr. Pete Foster
Arizona Department of Environmental Quality
Northern Regional Office
1515 East Cedar Avenue, Suite F
Flagstaff, Arizona 86004

RE: Mt. Tipton Water Company – Detrital Well, Approval of Construction
ADEQ File Number: 980242

Dear Mr. Foster:

JEM
Enclosed is a copy of the Engineer's Certificate of Completion, plans including revisions on pages 4 of 8 and 5 of 8, pressure testing results, Drinking Water Source Approval Form and the back-up information, the Dioxin Use Waiver Application and a copy of the Approval to Construct.

The only changes to the plans that were submitted for the Approval to Construct include the painting of the wooden portions of the control building, the insulating of the exposed above ground piping and an extension of the top portion of the standpipe. These changes are noted with a triangle.

This project has been complete for some time, however we have been waiting on the final water quality testing results. We have included the Drinking Water Source Approval Form that was completed using the testing information enclosed. The Drinking Water Source Approval Form is a compilation of the previous testing and the recent testing that was done. We have also included the Dioxin waiver to eliminate the need to do that test.

If you have any questions or if additional information is needed, please contact Sunrise Engineering, Inc. at (480) 832-4420.

Sincerely,
Sunrise Engineering, Inc.

Kent E. Norcross, P.E.
Project Engineer

Enclosures

Cc: Board of Directors, Mt. Tipton Water Company

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ARIZONA DEPARTMENT OF
ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE