# TECHNICAL MEMORANDUM

**To File** ZORRO RANCH/WELLFIELD June 6, 2014

**From** Casey W. Cook, P.E.

**Subject** ZORRO RANCH WELL 6 TESTING

## Introduction

In early 2014, Zorro Ranch reactivated Well 6, which had been mostly unused since the early 2000s. Figure 1 shows the location of the well. We understand the well was reactivated to make up for lost capacity from the Dakota well, which is out of service with a dropped pump. In reviewing whether Well 6 is suitable to make up for lost Dakota capacity, Balleau Groundwater Inc., (BGW) recommended[1] that the Ranch rehabilitate and test Well 6 to determine the capacity and sustainable yield. In May 2014, Rodgers and Co. pulled the pump 6 and rehabilitated the well, then installed a temporary pump for testing. The Ranch authorized BGW to coordinate the testing and to report on well capacity and long-term yield. This technical memorandum provides a documentation of Well 6 rehabilitation and testing, projects the well capacity and yield, and recommends a pump capacity. We find the well to be capable of 15 gpm pumping for 10 hours a day, for diversions of up to 10 acre feet per year for several years. Ongoing regional water level declines and self-induced drawdown eventually will reduce well yield to less than 10 AFY with fewer hours of pumping or a lesser pumping rate.

## Background

Well 6 was drilled in 1994 under OSE File No. E-5902, and later renumbered E-6478-S. The well is 215 feet deep and is completed with 6-inch PVC casing with perforations from 100 to 120 and 175 to 215 feet. The drillers log (attached) suggests the well is completed in basin fill alluvium with the primary water-bearing zone identified as a gravel between 172 and 196 ft deep. The basin fill is the primary aquifer of the Estancia Basin. Static water level in 1995 was 87 feet, and is 117 ft today. The 30-foot

[1] Electronic Communication from Casey W. Cook, P.E., of Balleau Groundwater, Inc. to Mr. Brice M. Gordon of Zorro Ranch, March 6, 2014, Well 6 Pumping Test.

decline, averaging 1.5 ft/yr, is less than regional declines seen at other Ranch wells in deeper formations, but is similar to trends at other basin fill wells in the area. The ongoing regional decline is expected eventually to reduce the capacity of the well.

The proof of completion of well (PCW; attached) indicates Well 6 in 1995 could produce 30 gpm with 100 ft of drawdown. The well is equipped today with a 7.5-hp pump, Grundfos model 40S75-25 (pump curve attached) capable of producing 30 gpm against 580 ft of total dynamic head. The installed pump apparently is different than the 1.5-hp pump reported in the PCW. Discharge at the wellhead is piped three miles and 200 feet uphill to the Ranch's main storage reservoir. We understand the Ranch plans to reroute the piping to the Dakota booster pumps (Figure 1).

Well 6 is permitted under OSE File No. E-6478, along with Ranch Wells 4 and B (File Nos. E-6478 and E-8976), for diversions of up to 15.5 AFY for domestic, ranch and irrigation purposes.

**Rehabilitation and Testing**

Rodgers and Co. mobilized to Well 6 on May 20, 2014. The crew field tested the installed 7.5-hp pump and motor assembly and found that it performed satisfactorily. The pump as installed can produce 75 gpm for several minutes discharging to the ground with no back pressure, but the pumping water level falls rapidly to the pump inlet because the aquifer and well cannot sustain that rate of pumping. Rodgers removed the pump and swabbed acid into the well to rehabilitate the screen, then left the acid overnight. The following day, the driller brushed the well screen and set a temporary pump to 195 ft deep for removing the acid and for testing. Static water level is about 75 feet above the pump setting.

Rodgers step tested the well on May 21, 2014. BGW coordinated the test and set a logging transducer in the well to record water levels. For the first step, the well was pumped at 21 gpm for 30 minutes with 40 ft drawdown (Figure 2). Water levels were stable for the last 10 minutes. At the second step of 28 gpm, the pumping water level dropped into the lower screen and rapidly toward the pump inlet. The rate was throttled back to around 20 gpm and the crew continued to pump the well for several hours to remove the remaining acid. After shutdown the well was allowed to recover overnight.

On May 22, Well 6 was tested at rates of 24 to 18 gpm for 9 hours (Figure 3). The pump temporarily lost power about an hour into the test. The initial 24 gpm rate caused the pumping water level (PWL) to draw down into the lower screen, so the rate was valved back to 21 then to 18 gpm. Rate control was poor, resulting in an unsteady drawdown trend. The test was shut down after nine hours.

Recovery water levels were monitored for about 39 hours before the test equipment was removed. Recovery data (Figure 4) matched to a Theis (1935)[2] recovery line indicates aquifer transmissivity (T) of 90 $ft^2/d$ and no apparent hydrologic boundaries.

**Projection of Well Yield**

Test data suggest the well can sustain 15 gpm pumping for up to 10 hours, but rates over 20 gpm can dewater the productive zone and cause PWL to drop to the pump inlet. Well specific capacity at 9 hours is 18 gpm / 60 ft = 0.3 gpm/ft, which is in line with the T from recovery and the capacity reported on the PCW form (30 gpm with 100 ft drawdown = 0.3 gpm/ft). However, due to regional declines, well yield is now limited by a shorter water column and less available drawdown above the 172-foot deep productive interval (55 ft today vs. 85 ft in 1995).

Pumping at 15 gpm for 10 hours a day year round, the well can produce 10 AFY. That level of usage is projected cause 14 ft of drawdown over the next 5 years (T = 90 $ft^2/d$, S = 0.1, r = 0.5 ft). With another 7.5 feet of regional decline (1.5 ft/yr) over that period, non-pumping water level is projected to decline 20 ft in 5 years. Thereafter, pumping the well at 15 gpm will cause the productive zone to dewater, and the pumping rate will have to be reduced. We project the well can provide 10 AFY for a few years, but that yields will decline after that. The well eventually may need to be replaced by a deeper well or by production increased from an existing well if the Ranch wants to maintain the present capacity.

We recommend operating the well to maintain pumping water level above 175 ft to prevent significant dewatering of the production zone. Pumping at 15 gpm for up to a half day day should maintain an acceptable PWL, though the Ranch must monitor water levels and set pump controls to

[2] Theis, C.V., 1935, The Relation Between Lowering of the Piezometric Surface and the Rate and Duration of Discharge of a Well Using Ground Water Storage: Transactions of the American Geophysical Union, Volume 16, pp. 519-524.

prevent drawdown to the pump inlet. A new pump will be needed, as the existing pump capacity is too high for the well.

A 15-gpm pump is recommended to better suit the well capacity. The pump should be set between 190 and 200 feet deep and should provide 200 ft of lift to the wellhead, plus sufficient pressure to convey water to storage or to the Dakota booster pumps as specified by the Ranch engineer. We recommend setting up the well controls with a variable frequency drive and an interconnected water-level sensor that reduces pumping if the PWL approaches the pump inlet. The pump should be set with a one-inch PVC sounding tube and equipped with a logging transducer to track water levels and monitor well performance.

**Water Quality**

The Ranch submitted a water sample from Well 6 for laboratory analysis (report attached). Water quality is good with conductivity at 421 µmhos/cm, and total dissolved solids estimated at 350 ppm. Well 6 water is of better quality than other Ranch wells (Dakota well has conductivity 3500 µmhos and Wells 4, B and K have 1000 µmhos). The major constituents are calcium and bicarbonate; water is considered hard at 181.8 mg/L $CaCO_3$. Nitrates are high, but would be removed for indoor use, along with hardness, by the Ranch household RO systems. Water is suitable for irrigation with no treatment and for drinking with RO treatment.

**Conclusions**

1. Well 6 is capable of yielding 15 gpm. Higher rates above 20 gpm can dewater the primary productive zone and cause water level to fall to the pump inlet.

2. Pumping 15 gpm for 10 hours per day, the well is projected to produce 10 acre feet per year for several years. Yields are expected to decline below 15 gpm and 10 AFY as regional and self-induced drawdowns reduce the available water column.

3. Water from Well 6 is good with 421 µmhos conductivity and is suitable for irrigation use without treatment. The water is hard with high nitrates. Existing household RO treatment will remove those constituents for indoor and drinking use.

4. The existing installed pump is rated for 24 to 55 gpm. A new variable speed pump is required.

**Recommendations**

1. Replace the existing pump with one that can produce 15 gpm with a lift of 200 ft plus sufficient pressure at the wellhead to convey water to storage or booster pumps. Control the pump with a variable speed drive and sensors to reduce rate if pumping water level approaches the pump inlet.

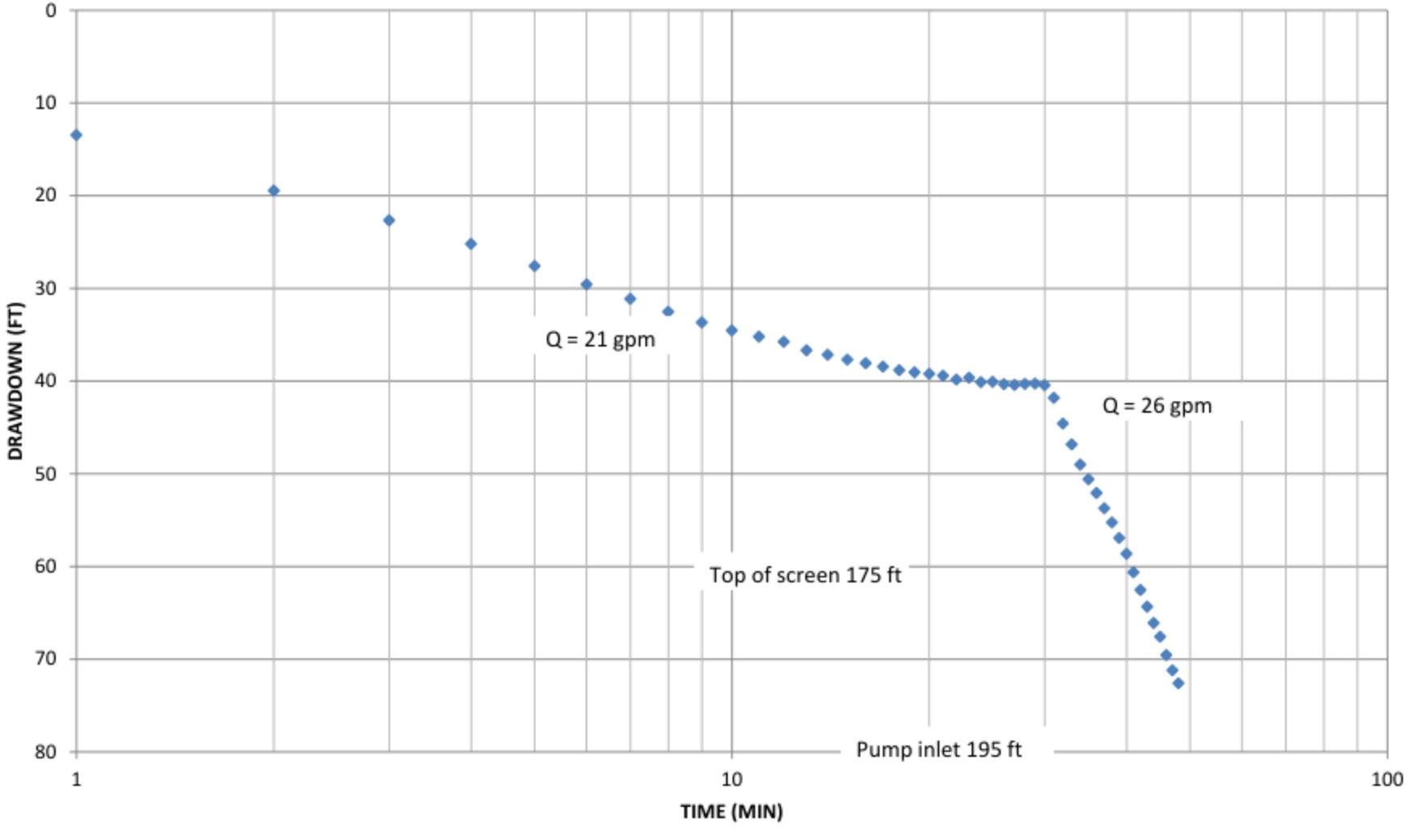
2. Set the pump with a PVC sounding tube accessible at the wellhead. Equip the well with a logging pressure transducer to track water levels and well performance.

3. As capacity declines, plan to replace Well 6 in several years with a deeper well or with additional pumping from existing wells.

Attachments: Figures (4)
Well Record
Proof of Completion
Pump Curve
Well 6 Lab Analysis


Main Storage Tank (25,000 gal)
Map Area
14
285
41
40
Simmons Rd
King Rd
Martinez Rd
Moriarty
Clements Rd
Booster Pumps
Dakota Well
Well 6
Zorro Ranch Rd
0 1,000 2,000 3,000 Feet
Projection: NAD83 New Mexico Central Zone
N
ZORRO RANCH / WELLFIELD
WELL 6 LOCATION
DATE: 6/5/2014
PRODUCED BY: BY
CHECKED BY: CWC
FILE NAME: Well6Loc.mxd
FIGURE 1
BGW
BALLEAU GROUNDWATER, INC.

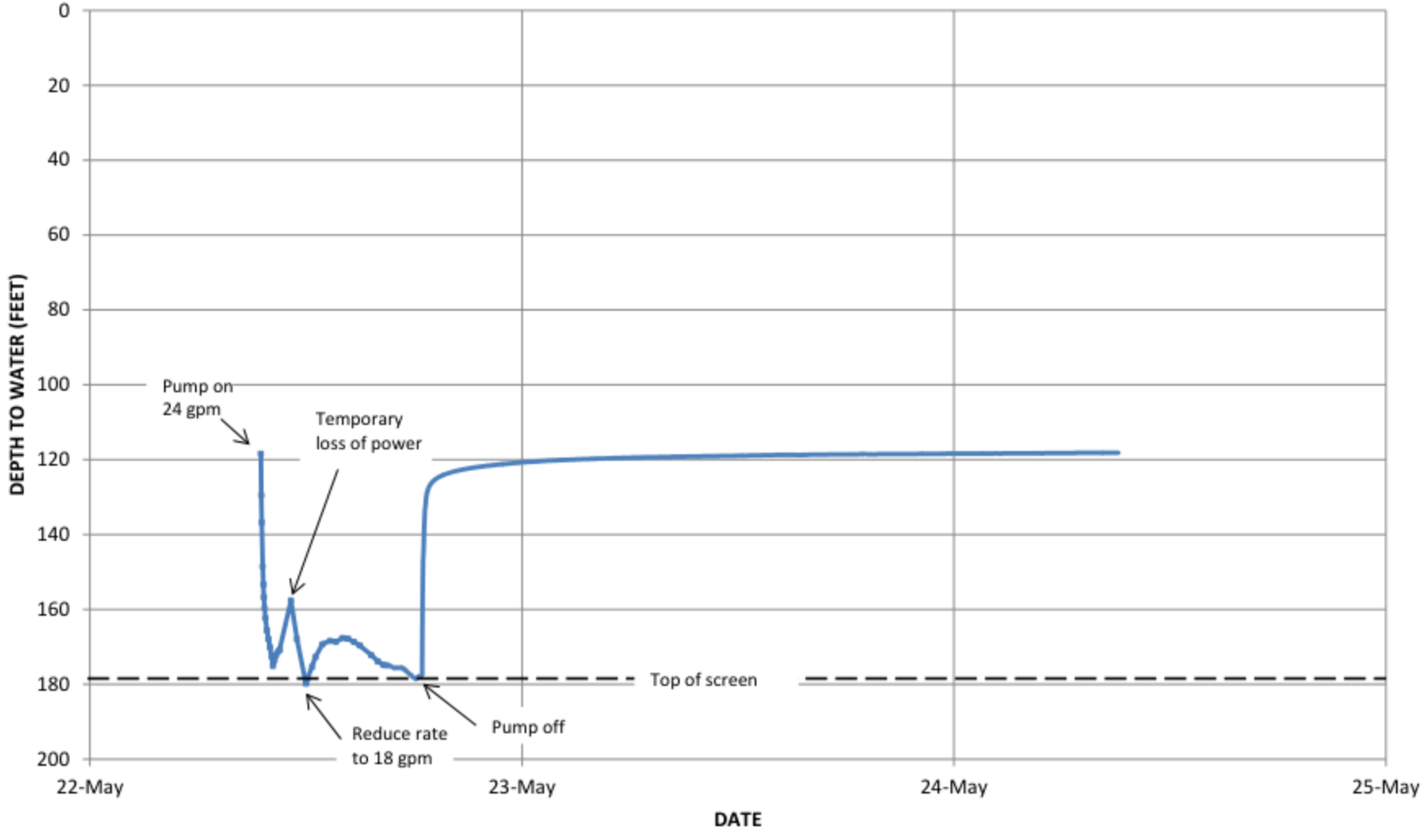
**FIGURE 2**
**WELL 6 STEP TEST**




well 6 step.xlsb
BY
6/6/2014

BALLEAU GROUNDWATER, INC.

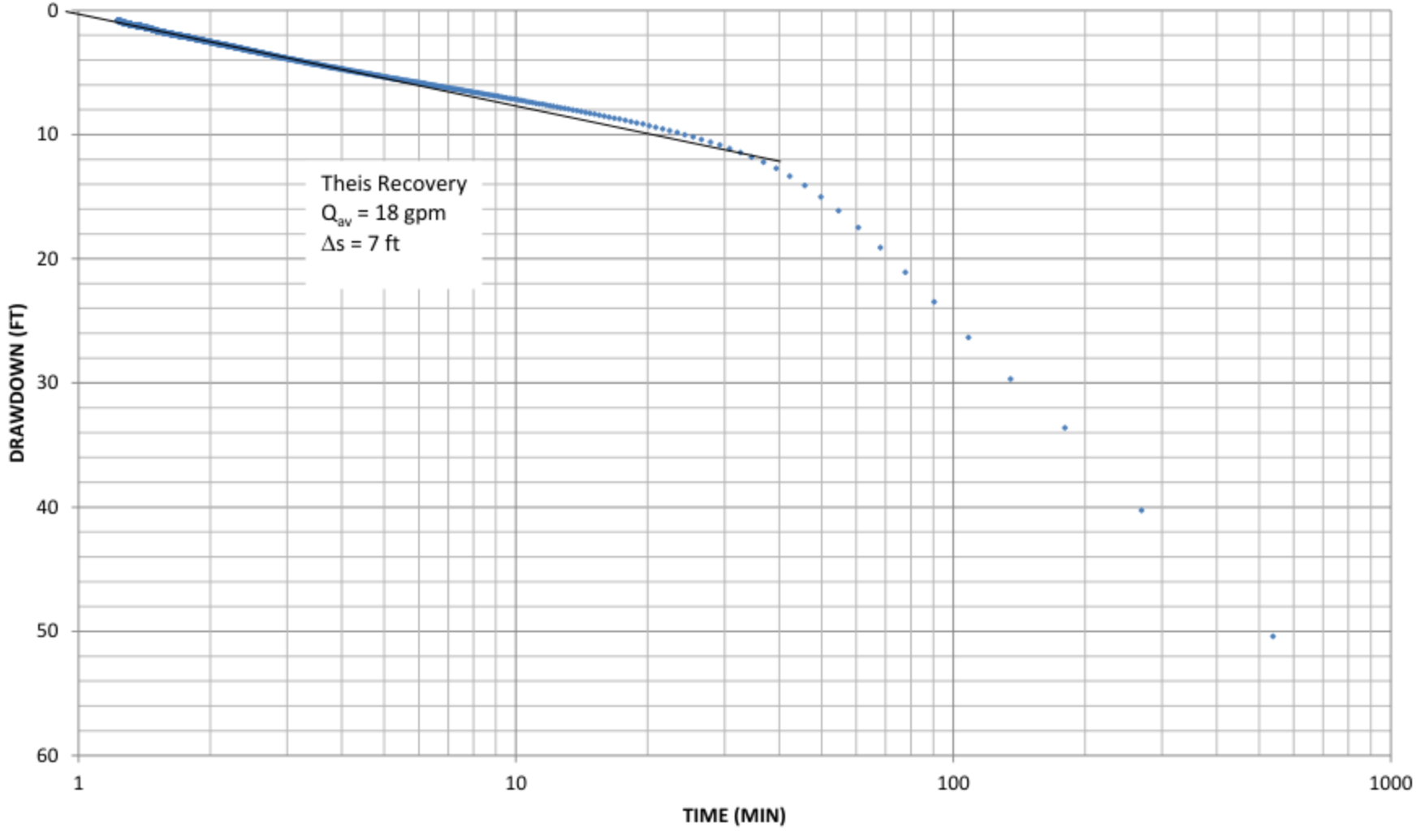
## FIGURE 3
## WELL 6 TEST HYDROGRAPH




well6test22May2014.xlsb
BY
6/6/2014

BALLEAU GROUNDWATER, INC.

## FIGURE 4
## WELL 6 RECOVERY

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BY
6/6/2014

BALLEAU GROUNDWATER, INC.

# WELL RECORD

well 6 (renumbered E-6478-S)

## Section 1. GENERAL INFORMATION

(A) Owner of well JEFFREY EPSTEIN c/o ZORRO RANCH Owner's Well No. _____

Street or Post Office Address P.O. BOX 567

City and State STANLEY, NM. 87056

Well was drilled under Permit No. E-5902 and is located in the:

a. _____ ¼ SE ¼ SW ¼ SE ¼ of Section 20 Township 12N Range 9E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in SANTA FE County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor DENNISSON DRILLING License No. WD-49

Address P. O. Box 86, STANLEY, NM. 87056

Drilling Began 09/23/94 Completed 09/29/94 Type tools ROTARY Size of hole 12" in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 215 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 80 ft.

## Section 2. PRINCIPAL WATER-BEARING STRATA

| Depth in Feet From | Depth in Feet To | Thickness in Feet | Description of Water-Bearing Formation | Estimated Yield (gallons per minute) |
|---|---|---|---|---|
| 96 | 113 | 17 | YELLOW SAND | |
| 172 | 198 | 26 | GRAVEL | 40 GMP |
| | | | | |
| | | | | |

## Section 3. RECORD OF CASING

| Diameter (inches) | Pounds per foot | Threads per in. | Depth in Feet Top | Depth in Feet Bottom | Length (feet) | Type of Shoe | Perforations From | Perforations To |
|---|---|---|---|---|---|---|---|---|
| 6" PVC | | | 0 | 215 | 215 | NONE | 100 | 120 |
| | | | 0 | 215 | 215 | NONE | 175 | 215 |
| | | | | | (GRAVEL PACKED) | | | |

## Section 4. RECORD OF MUDDING AND CEMENTING

| Depth in Feet From | Depth in Feet To | Hole Diameter | Sacks of Mud | Cubic Feet of Cement | Method of Placement |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

## Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by:

_____
State Engineer Representative

| No. | Depth in Feet Top | Depth in Feet Bottom | Cubic Feet of Cement |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

## FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

| | | | |
|---|---|---|---|
| 0 | 3 | 3 | TOP SOIL |
| 3 | 96 | 93 | BOULDERS |
| 96 | 113 | 17 | YELLOW SAND |
| 113 | 172 | 59 | GRAY CLAY |
| 172 | 198 | 26 | GRAVEL → fractured sst. |
| 198 | 215 | 17 | GRAY CLAY |

Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a pluggine record only Section 1(a) and Section 4 shall be completed

TOTAL P.02

well 6

Permit No. E-6478-S

1. Name of Water Right Owner Mr. Jeffrey Epstein, Zorro Ranch
Mailing address PO Box 567
City and State Stanley, NM 87056

2. Permit is for supplemental well (supplemental well, change location of well) from shallow (artesian or shallow) ground water.

3. Description of well:
Located in the NE ¼ SW ¼ SE ¼, of Sec. 20 Twp. 12N Rge. 9E N.M.P.M., or Tract No. ____ of Map No. ____ of the ____ District; total depth 215 feet; is well cased yes; outside diameter of top casing (or hole, if uncased) six inches; if artesian, is well equipped with gate valve n/a; date drilled 9-23 to 9-29 19 94; Name of driller Dennisson Drilling.

4. Record of Pumping Test, if made (to be supplied by person or firm making test); Name and address of person making test, Zorro Ranch and Dennisson Drilling personnel; date of test 1-26 to 1-30 19 95; depth to water before test, 87 feet below (above, below) land surface, and pumping level during test, 188 feet; length of test, 48 hours; average discharge, 30 G.P.M.; specific capacity of well, 0.44 gals./min. per foot of drawdown.
Pumping test data submitted with application to appropriate E-6478

5. Permanent Pump Equipment:
(a) Description of pump: Make Jacuzzi; Type 15BS42510-S2; size of discharge 1.5 inches; if turbine type, give size of column, ____ inches; diameter of bowls ____ inches; number of bowls ____; length of suction pipe ____ feet; total length of column, bowls and suction pipe ____ feet; if centrifugal type, give size of pump ____ inches: if other type, describe ____; rated capacity of pump (if known), 30 G.P.M., at ____ rev. per min., from a depth of 213 feet.

(b) Description of power plant: Make New Mex Elect; Type Single phase, 120V; rated horsepower (if available) 1.5; type of drive connection to pump ____ (direct, gearhead, or belt).

(c) Actual discharge of pump, 30 G.P.M., at ____ rev. per min., from a depth of 188 feet; Date of test 1-26 to 1-30 19 95.

6. If reservoir is used, give approximate size: length n/a feet; width ____; depth ____.

7. If above well replaced an old well to be plugged or abandoned, fill out the following: the well abandoned is located in the n/a ¼ ____ ¼ ____ ¼ of Sec. ____, Twp. ____, Rge. ____.

Describe plugging method ____
Name of plugging contractor ____

8. Well Record filed with State Engineer's Office Yes (as E-5902) (Yes or No)

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I, Sue Rotto, Consultant, of Glorieta Geoscience, Inc., agent for the applicant, affirm that the foregoing statements are true to the best of my knowledge and belief and that I am the agent for (sole, partial, agent for, etc.,) owner and holder of said water right.

Jeffrey Epstein, Zorro Ranch, Permittee

By: Sue Rotto

STATE ENGINEER OFFICE
ALBUQUERQUE, NEW MEXICO
97 MAR 11 PM 2:14

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## STATEMENT OF STATE ENGINEER'S REPRESENTATIVE

I hereby certify that I have inspected the above well and find it constructed in accordance with the conditions of the permit. Note any exceptions ____

Accepted for filing without benefit of field check by State Engineer Office personnel.

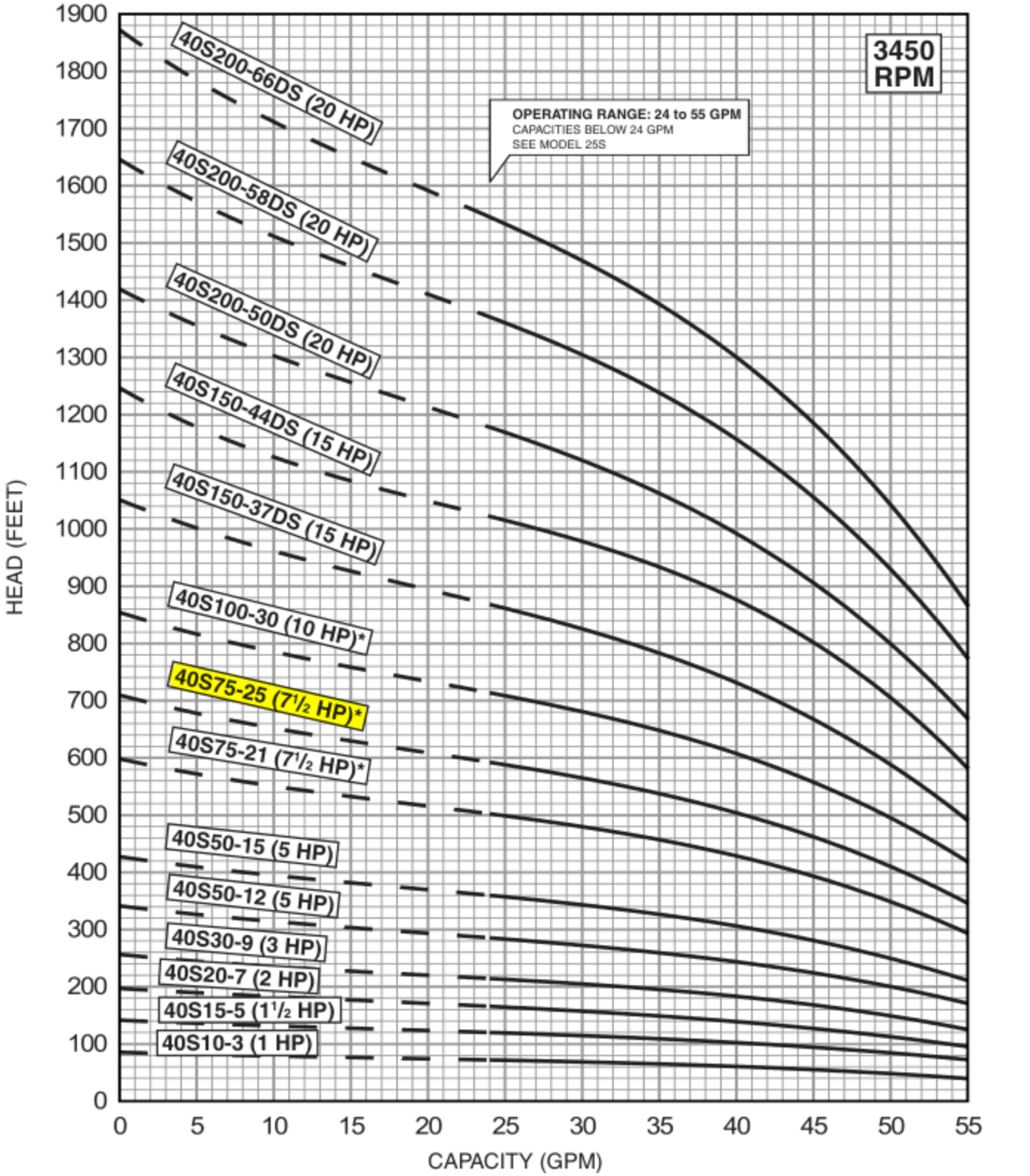
Well was producing ____ gpm against a ____ (measured) (estimated) head of ____ feet at ____ rpm.

Old well has been ____ (plugged) (capped) (retained for other rights).

Robert D Thompson

By: Robert D. Thompson
Title: Water Resource Specialist
Date: March 14, 1997

**FLOW RANGE: 24 - 55 GPM** **OUTLET SIZE: 2 " NPT** **NOMINAL DIA. 4"**




SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
4" MOTOR STANDARD, 1-10 HP/3450 RPM.
6" MOTOR STANDARD,15-20 HP/3450 RPM.
* Also available with 6" motor.

Performance conforms to ISO 9906. 1999 (E) Annex A
Minimum submergance is 5 feet.

## DIMENSIONS AND WEIGHTS

| MODEL NO. | FIG. | HP | MOTOR SIZE | DISCH. SIZE | DIMENSIONS IN INCHES | | | | | APPROX. SHIP WT. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | A | B | C | D | E | |
| 40S10-3 | A | 1 | 4" | 2" NPT | 24.6 | 11.8 | 12.8 | 3.8 | 3.9 | 32 |
| 40S15-5 | A | 1 1/2 | 4" | 2" NPT | 29.7 | 13.6 | 16.1 | 3.8 | 3.9 | 37 |
| 40S20-7 | A | 2 | 4" | 2" NPT | 34.5 | 15.1 | 19.4 | 3.8 | 3.9 | 41 |
| 40S30-9 | A | 3 | 4" | 2" NPT | 43.3 | 20.6 | 22.7 | 3.8 | 3.9 | 65 |
| 40S50-12 | A | 5 | 4" | 2" NPT | 51.3 | 23.6 | 27.7 | 3.8 | 3.9 | 78 |
| 40S50-15 | A | 5 | 4" | 2" NPT | 56.2 | 23.6 | 32.6 | 3.8 | 3.9 | 84 |
| 40S75-21* | A | 7 1/2 | 4" | 2" NPT | 74.6 | 29.6 | 45.0 | 3.8 | 3.9 | 120 |
| 40S75-25* | A | 7 1/2 | 4" | 2" NPT | 81.2 | 29.6 | 51.6 | 3.8 | 3.9 | 124 |
| 40S100-30* | A | 10 | 4" | 2" NPT | 103.7 | 43.9 | 59.8 | 3.8 | 3.9 | 181 |
| 40S150-37DS | A | 15 | 6" | 2" NPT | 99.5 | 28.0 | 71.5 | 5.4 | 5.4 | 244 |
| 40S150-44DS | A | 15 | 6" | 2" NPT | 111.0 | 28.0 | 83.0 | 5.4 | 5.4 | 340 |
| 40S200-50DS** | B | 20 | 6" | 2" MPT | 136.0 | 30.6 | 105.4 | 5.4 | 5.5 | 319 |
| 40S200-58DS** | B | 20 | 6" | 2" MPT | 149.2 | 30.6 | 118.6 | 5.4 | 5.5 | 334 |
| 40S200-66DS** | B | 20 | 6" | 2" MPT | 162.4 | 30.6 | 131.8 | 5.4 | 5.5 | 394 |

NOTES: All models suitable for use in 4" wells, unless otherwise noted.
Weights include pump end with motor in lbs.
* Also available with 6" motor.
** Built into sleeve 2" MPT discharge, 6" min. well dia.

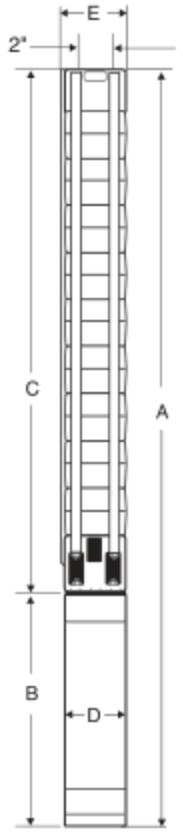


Fig. A

## MATERIALS OF CONSTRUCTION

| COMPONENT | CYLINDRICAL SHAFT (3-44 Stgs.) | DEEP SET (50-66 Stgs.) |
|---|---|---|
| Check Valve Housing | 304 Stainless Steel | 304 Stainless Steel |
| Check Valve | 304 Stainless Steel | 304 Stainless Steel |
| Diffuser Chamber | 304 Stainless Steel | 304 Stainless Steel |
| Impeller | 304 Stainless Steel | 304 Stainless Steel |
| Suction Interconnector | 304 Stainless Steel | 304 Stainless Steel |
| Inlet Screen | 304 Stainless Steel | 304 Stainless Steel |
| Pump Shaft | 431 Stainless Steel | 431 Stainless Steel |
| Straps | 304 Stainless Steel | 304 Stainless Steel |
| Cable Guard | 304 Stainless Steel | 304 Stainless Steel |
| Priming Inducer | 304 Stainless Steel | 304 Stainless Steel |
| Coupling | 316/431 Stainless Steel ** | 329/ 416 Stainless Steel |
| Check Valve Seat | NBR/316 Stainless Steel | NBR/316 Stainless Steel |
| Top Bearing | NBR/316 Stainless Steel | NBR/316 Stainless Steel |
| Impeller Seal Ring | NBR/316 Stainless Steel | NBR/316 Stainless Steel |
| Intermediate Bearings | NBR/316 Stainless Steel | NBR/316 Stainless Steel |
| Shaft Washer | LCP (Vectra®) | LCP (Vectra®) |
| Split Cone | 304 Stainless Steel | 304 Stainless Steel |
| Split Cone Nut | 304 Stainless Steel | 304 Stainless Steel |
| Sleeve | Not Required | 316 Stainless Steel |
| Sleeve Flange | Not Required | 304 Stainless Steel |

NOTES: Specifications are subject to change without notice.
Vectra® is a registered trademark of Hoechast Calanese Corporation.
***Stainless Steel option available.**

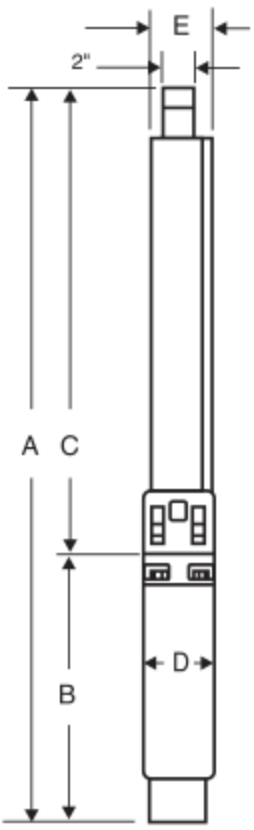


Fig. B



EFTA01124869

evoqua
WATER TECHNOLOGIES

ANALYTICAL LABORATORY
4669 SHEPHERD TRAIL
ROCKFORD, IL 61103-1294

TELEPHONE 815-877-3041
FACSIMILE 815-921-8165


# CERTIFICATE OF ANALYSIS

**Analysis NO : 101909**

**Job ID : J[2014MAY15]32319**

Branch Org. Code : 020

Zorro Ranch
49 Zorro Ranch Rd.
Stanley, NM 87056

Sampled : 05/02/2014
Received : 05/15/2014
Completed : 06/03/2014
Purpose : Presale Activity
Supply/Source : Private/Well(Deep)
Sample Point : Well #6
Description : Raw Water

ATTN: Eric Carriaga-EWT

| CATIONS | RESULT | UNITS | ANIONS | RESULT | UNITS |
|---|---|---|---|---|---|
| Calcium (Ca) | 130 | mg/l CaCO3 | Bicarb (HCO3) | 157.0 | mg/l CaCO3 |
| Magnesium (Mg) | 51.8 | mg/l CaCO3 | Fluoride (F) | 1.04 | mg/l CaCO3 |
| Sodium (Na) | 28.7 | mg/l CaCO3 | Chloride (Cl) | 24.0 | mg/l CaCO3 |
| Potassium (K) | 2.5 | mg/l CaCO3 | Bromide (Br) | 0.104 | mg/l CaCO3 |
| Iron (Fe) | <0.002 | mg/l | Nitrate (NO3) | 16.0 | mg/l CaCO3 |
| Manganese (Mn) | <0.001 | mg/l | Phosphate (PO4) | <0.080 | mg/l CaCO3 |
| Aluminum (Al) | <0.005 | mg/l | Sulfate (SO4) | 16.4 | mg/l CaCO3 |
| Barium (Ba) | 0.159 | mg/l | Silica (SiO2) | 18.4 | mg/l CaCO3 |
| Strontium (Sr) | 0.742 | mg/l | | | |
| Copper (Cu) | <0.002 | mg/l | | | |
| Zinc (Zn) | <0.002 | mg/l | | | |

| OTHER PARAMETERS | RESULT | UNITS | | RESULT | UNITS |
|---|---|---|---|---|---|
| pH | 7.94 | | Total Hardness | 181.80 | mg/l CaCO3 |
| Turbidity | 0.05 | NTU | TOC (C) | 0.25 | mg/l |
| Conductivity | 421 | uS | Free (CO2) [1] | 4.1 | mg/l CaCO3 |

[1] Derived from Alkalinity and pH

The reported results are representative of the sample as received.

**OUR REPRESENTATIVE IN YOUR AREA IS:**
Evoqua Water Technologies LLC/Albuquerque
3800 Rutledge Rd NE, Ste A
Albuquerque, NM 87109

505-344-8250 Fax 505-345-5937

ANALYZED BY: Jackie Benzel