Permit No. 81005

# THE STATE OF NEVADA

## PERMIT TO CHANGE THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

| | |
|---|---|
| **Name of Permittee:** | **TRUCKEE MEADOWS WATER AUTHORITY** |
| **Source:** | **UNDERGROUND** |
| **Basin:** | **TRUCKEE MEADOWS** |
| **Manner of Use:** | **MUNICIPAL** |
| **Period of Use:** | **JANUARY 1ST TO DECEMBER 31ST** |
| **Priority Date:** | **12/01/1862** |

**********

**APPROVAL OF STATE ENGINEER**

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit, to change the point of diversion of the waters of an underground source as heretofore granted under Permit 74267, is issued subject to the terms and conditions imposed in said Permit 74267, and with the understanding that no other rights on the source will be affected by the change proposed herein. This well shall be equipped with a two (2) inch opening for measuring depth to water and a totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of the water begins or before the proof of completion of work is filed. If the well is flowing, a valve must be installed and maintained to prevent waste. This source is located within an area designated by the State Engineer pursuant to NRS 534.030. The State retains the right to regulate the use of the water herein granted at any and all times.

The permittee shall keep monthly records of the amount of water pumped from this well and the records must be submitted to the State Engineer on an annual basis within 30 days after the end of each calendar year.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The well must be sealed with cement grout, concrete grout or neat cement from ground level to 100 feet.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

Pursuant to NRS 533.360(3b), the permittee shall report to the State Engineer on a quarterly basis the effect of pumping this well on other previously existing wells that are located within 2,500 feet of this well. Any pumping of water in this well may be limited or prohibited to prevent any unreasonable adverse effects on an existing domestic well located within 2,500 feet of this well, unless the holder of this permit and the owner of the domestic well have agreed to alternative measures that mitigate adverse effects.

(Continued on Page 2)

The point of diversion and place of use are as described on the submitted application to support this permit.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, **and not to exceed 0.4 cubic feet per second or 289.59 acre-feet annually.**

Work must be prosecuted with reasonable diligence and proof of completion of work shall be filed on or before: **October 25 2012**

Water must be placed to beneficial use and proof of the application of water to beneficial use shall be filed on or before: **October 25 2021**

Map in support of proof of beneficial use shall be filed on or before: **N/A**

IN TESTIMONY WHEREOF, I, JASON KING, P.E.,

State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 25th day of **October**, A.D. **2011**

for State Engineer

Completion of work filed _____

Proof of beneficial use filed _____

Cultural map filed _____

Certificate No. _____ Issued _____

Application No. 81005

# APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

THIS SPACE FOR OFFICE USE ONLY

Date of filing in State Engineer's Office JUL 26 2011

Returned to applicant for correction

Corrected application filed

Map filed JUL 7 1960 under 19909

The applicant Truckee Meadows Water Authority

P.O. Box 30013 (Street Address or PO Box) of Reno (City or Town)

Nevada 89520-3013 (State and ZIP Code) hereby make(s) application for permission to change the

☑ Point of diversion ☐ Place of use ☐ Manner of use ☐ of a portion

of water heretofore appropriated under (Identify existing rights by Permit, Certificate, Proof or Claim Nos. If Decreed, give title of Decree and identify right in Decree.)

Permit No. 74267

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1. The source of water is Underground
   Name of stream, lake, underground, spring or other sources.

2. The amount of water to be changed 0.40 cfs but not to exceed 289.59 acre feet annually
   Second feet, acre-feet. One second foot equals 448.83 gallons per minute.

3. The water to be used for Municipal/Domestic
   Irrigation, power, mining, commercial, etc. If for stock, state number and kind of animals. Must limit to one major use

4. The water heretofore used for Municipal/Domestic
   If for stock, state number and kind of animals.

5. The water is to be diverted at the following point (Describe as being within a 40-acre subdivision of public survey and by course and distance to a found section corner. If on unsurveyed land, it should be stated.)

Situate in the SW 1/4 NW 1/4 of Section 12, T 19N, R 19E, MDB&M., or at a point from which the East 1/4 corner of said Section 12 bears South 85° 19' 00" East, a distance of 4,623.0 feet (High Street Well, refer to map filed under Permit 19909).

6. The existing point of diversion is located within (If point of diversion is not changed, do not answer.)

Situate in the SW 1/4 SW 1/4 of Section 18, T 19N, R 19E, MDB&M, or at a point from which the Southwest corner of said Section 18 bears South 80° 30' 21" West, a distance of 977.68 feet (Woodland Avenue site, refer to map filed under Permit 74267).

87-WS

7. Proposed place of use (Describe by legal subdivisions. If for irrigation, state number of acres to be irrigated.)

No change in Place of Use

8. Existing place of use (Describe by legal subdivisions. If changing place of use and/or manner of use of irrigation permit, describe acreage to be removed from irrigation.)

No change in Place of Use

9. Proposed use will be from January 1st (Month and Day) to December 31st (Month and Day) of each year.

10. Existing use permitted from January 1st (Month and Day) to December 31st (Month and Day) of each year.

11. Description of proposed works. (Under the provision of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) (State manner in which water is to be diverted, i.e., diversion structure, ditches, pipes and flumes or drilled well, pump and motor, etc.)

Existing facilities include well, building and related facilities

12. Estimated cost of works Completed

13. Estimated time required to construct works Completed

If well completed, describe well.

14. Estimated time required to complete the application of water to beneficial use Ten (10) years

15. Provide a detailed description of the proposed project and its water usage (use attachments if necessary): (Failure to provide a detailed description may cause a delay in processing.)

This application seeks to move existing permitted water to the existing High Street Well and water to be extracted to meet the municipal demands of TMWA customers.

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16. Miscellaneous remarks:

Pursuant to the latest records at the Washoe County Assessor's Office, there are no domestic wells within 2,500 feet of the High Street Well (see attached Exhibit "A"). The two Well Driller's Report for the Woodland Avenue well site filed in 2006 (Log #99615 and #102651) are attached as Exhibit "B").

Deborah G. Sotero
Type or print name clearly

dsotero@tmwa.net
E-mail Address

775.834.8022
Phone No.

Deborah G. Sotero
Signature, applicant or agent

Truckee Meadows Water Authority
Company Name

P.O. Box 30013
Street Address or PO Box

Reno, Nevada 89520-3013
City, State, ZIP Code

APPLICATION MUST BE SIGNED BY THE APPLICANT OR AGENT



$200 FILING FEE AND SUPPORTING MAP MUST ACCOMPANY APPLICATION

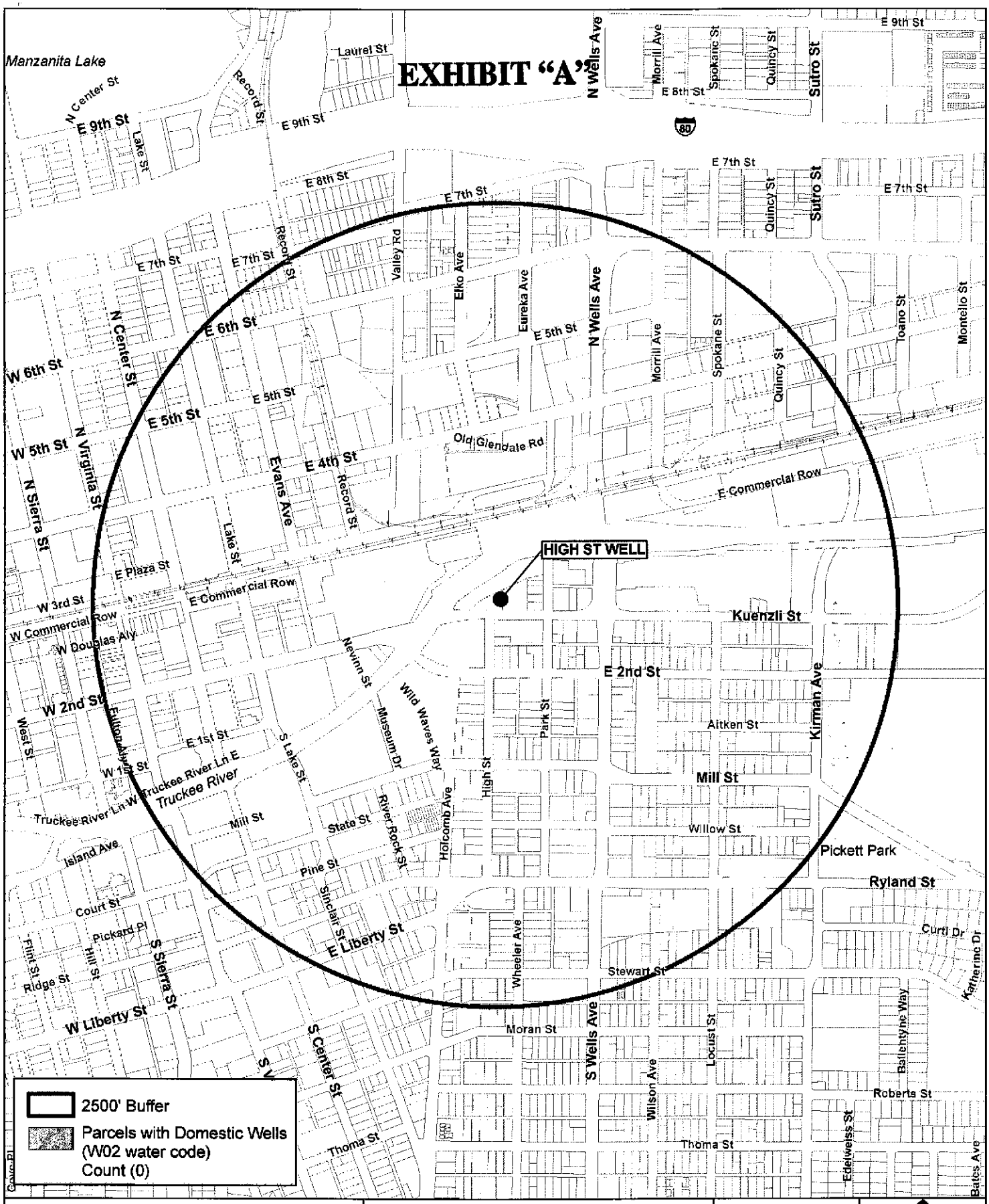
# EXHIBIT "A"

## PROPOSED PLACE OF USE

| DIVISION | SECTION | T-N | R-E | |
|---|---|---|---|---|
| ALL | 1-5 | 18 | 18 | M.D.B.&M. |
| E½ | 6&7 | 18 | 18 | M.D.B.&M. |
| ALL | 8-17 | 18 | 18 | M.D.B.&M. |
| E½ | 18&19 | 18 | 18 | M.D.B.&M. |
| ALL | 20-29 | 18 | 18 | M.D.B.&M. |
| E½ | 30&31 | 18 | 18 | M.D.B.&M. |
| ALL | 32-36 | 18 | 18 | M.D.B.&M. |
| ALL | 1-5 | 19 | 18 | M.D.B.&M. |
| E½ | 6&7 | 19 | 18 | M.D.B.&M. |
| ALL | 8-17 | 19 | 18 | M.D.B.&M. |
| E½ | 18&19 | 19 | 18 | M.D.B.&M. |
| ALL | 20-29 | 19 | 18 | M.D.B.&M. |
| E½ | 30&31 | 19 | 18 | M.D.B.&M. |
| ALL | 32-36 | 19 | 18 | M.D.B.&M. |
| ALL | 1-5 | 20 | 18 | M.D.B.&M. |
| E½ | 6&7 | 20 | 18 | M.D.B.&M. |
| ALL | 8-17 | 20 | 18 | M.D.B.&M. |
| E½ | 18&19 | 20 | 18 | M.D.B.&M. |
| ALL | 20-29 | 20 | 18 | M.D.B.&M. |
| E½ | 30&31 | 20 | 18 | M.D.B.&M. |
| ALL | 32-36 | 20 | 18 | M.D.B.&M. |
| ALL | 1-5 | 21 | 18 | M.D.B.&M. |
| E½ | 6&7 | 21 | 18 | M.D.B.&M. |
| ALL | 8-17 | 21 | 18 | M.D.B.&M. |
| E½ | 18&19 | 21 | 18 | M.D.B.&M. |
| ALL | 20-29 | 21 | 18 | M.D.B.&M. |
| E½ | 30&31 | 21 | 18 | M.D.B.&M. |
| ALL | 32-36 | 21 | 18 | M.D.B.&M. |
| ALL | 1-36 | 18 | 19 | M.D.B.&M. |
| ALL | 1-36 | 19 | 19 | M.D.B.&M. |
| ALL | 1-36 | 20 | 19 | M.D.B.&M. |
| ALL | 1-36 | 21 | 19 | M.D.B.&M. |
| ALL | 2-35 | 18 | 20 | M.D.B.&M. |
| W½ | 36 | 18 | 20 | M.D.B.&M. |
| ALL | 1-12 | 19 | 20 | M.D.B.&M. |
| ALL | 14-23 | 19 | 20 | M.D.B.&M. |
| ALL | 26-35 | 19 | 20 | M.D.B.&M. |
| ALL | 1-36 | 20 | 20 | M.D.B.&M. |
| ALL | 1-36 | 21 | 20 | M.D.B.&M. |
| ALL | 1-36 | 20 | 21 | M.D.B.&M. |
| ALL | 1-36 | 21 | 21 | M.D.B.&M. |

SEE SUPPORTING MAP ON FILE WITH PERMIT NO. 69710

# EXHIBIT "A"




TRUCKEE MEADOWS WATER AUTHORITY

*Quality. Delivered.*

## HIGH ST WELL

**Domestic Wells within 2500 Radial Buffer**

| | |
|---|---|
| DATE | 6/27/2011 |
| MAP BY: | KJ |
| REQUESTED BY: | JE |
| SCALE: | 1 inch = 800 feet |

NORTH

NAD 83 NEVADA STATE PLANE WEST FEET

W:\projects\water_resources\proposed_wellsites\projects\mxd\HighSt_Dilworth_Longley

# EXHIBIT "B"

WHITE—DIVISION OF WATER RESOURCES
CANARY—CLIENT'S COPY
PINK—WELL DRILLER'S COPY

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

STATE OF NEVADA
DIVISION OF WATER RESOURCES

## WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY
Log No. 99615
Permit No.
Basin Ø87

NOTICE OF INTENT NO. 57084

1. OWNER Truckee Meadows Water Aht
MAILING ADDRESS P.O Box 30013
Reno NV. 89520
ADDRESS AT WELL LOCATION 127 Woodland Ave. Reno NV. 89520

2. LOCATION SW ¼ SW ¼ Sec. 18 T. 19 N/S R. 19 E. Washoe County
PERMIT NO. ~~WL 06038~~ W-585A Issued by Water Resources
APN 039-240-14 Parcel No.
Subdivision Name

3. WORK PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Abandon ☐ Other

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Industrial ☒ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☒ Rotary ☐ RVC
☐ Air ☐ Other

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|---|---|---|---|---|
| Course Gravel | | 0 | 20 | 20 |
| Gray Clay | | 20 | 40 | 20 |
| Course Sand & Gravel | | 40 | 135 | 95 |
| Dark Gray Andesite | | 135 | 180 | 45 |
| Black Andesite | | 180 | 300 | 120 |
| Gray Silty Clay | | 300 | 400 | 100 |
| Dark Gray Clay | | 400 | 470 | 70 |
| Gray Andesite | | 470 | 500 | 30 |
| Neat Cement | ~~395~~ | 395 | 500 | 105 |

Date started 3-29, 2006
Date completed 4-20, 2006

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

| G.P.M. | Draw Down (Feet Below Static) | Time (Hours) |
|---|---|---|
| | | |

8. WELL CONSTRUCTION
Depth Drilled 500 Feet Depth Cased 395 Feet

HOLE DIAMETER (BIT SIZE)

| | From | To |
|---|---|---|
| 10 5/8 Inches | 0 Feet | 395 Feet |
| 6 1/4 Inches | 395 Feet | 500 Feet |
| Inches | Feet | Feet |

CASING SCHEDULE

| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
|---|---|---|---|---|
| 6 5/8 | | 1/4 | 0 | 395 |

Perforations:
Type perforation Mill
Size perforation .080
From +130 feet to 260 feet
From 291 feet to 301 feet
From 360 feet to 390 feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 110
Placement Method: ☒ Pumped ☐ Poured
Seal Type: ☒ Neat Cement ☐ Cement Grout ☐ Concrete Grout

Gravel Packed: ☒ Yes ☐ No
From 110 feet to 395 feet

9. WATER LEVEL
Static water level 22' feet below land surface
Artesian flow G.P.M. P.S.I.
Water temperature C001 °F Quality

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name WDC Exploration & Wells
Contractor
Address 9580 Country 93B
Contractor
Zamora CA 95698
Nevada contractor's license number issued by the State Contractor's Board 0012852
Nevada driller's license number issued by the Division of Water Resources, the on-site driller M-2263
Signed [signature]
By driller performing actual drilling on site or contractor
Date 4-20-06

(Rev. 12-01) USE ADDITIONAL SHEETS IF NECESSARY (O)-627

# EXHIBIT "B"

WHITE - DIVISION OF WATER RESOURCES
CANARY - CLIENT'S COPY
PINK - WELL DRILLER'S COPY

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

STATE OF NEVADA
## DIVISION OF WATER RESOURCES
## WELL DRILLER'S REPORT
Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY
Log No. 102651
Permit No.
Basin 087

NOTICE OF INTENT NO. 58066

1. OWNER Truckee Meadows Water Authority
MAILING ADDRESS P.O. Box 30013
Reno, NV 89502

ADDRESS AT WELL LOCATION 127 Woodland Ave. Reno, NV. 89520

2. LOCATION SW 1/4 SW 1/4 Sec. 18 T 19N N/S R 19E E Washoe County
PERMIT NO. W-585A (Issued by Water Resources) 039-240-14 (Parcel No.) Subdivision Name

3. WORK PERFORMED
☐ New Well ☐ Replace ☐ Recondition
☐ Deepen ☒ Abandon ☐ Other

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☒ Test
☐ Municipal/Industrial ☐ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☐ Rotary ☐ RVC
☐ Air ☐ Other

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|---|---|---|---|---|
| Measured static water level at 22' and depth of well was 393'. Installed 6" Mills Knife and perforated from 320' to 300'and 130' to110' cutting 4 rows per foot. Removed perforator and installed 388' of 2" tremme pipe. Cement truck arrived on site and we pumped in 4 cubic yards of neat cement. This did not fill the well so the following day we measured the top of the cement at 76'. We installed a submersible pump and pumped the water from the well to the top of the cement. We then mixed 18 bags of Portland Type II cement with approx. 90 gallons of water and pumped the well full to surface. The actual hole volume should have required only 2.9 cubic yards. GPS location - 39 30.430 North and 119 53.799 West Elevation - 4,418' (original log attached) | | | | |
| plugging of log # 99615 | | | | |
| N 39.507167 W 119.896650 NAD83 | | | | |

Date started 12/14/2006, 19__
Date completed 12/15/2006, 19__

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

| G.P.M. | Draw Down (Feet Below Static) | Time (Hours) |
|---|---|---|
| | | |

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8. WELL CONSTRUCTION
Depth Drilled ____ Feet Depth Cased 395' Feet

HOLE DIAMETER (BIT SIZE)

| | From | To |
|---|---|---|
| ____ Inches | ____ Feet | ____ Feet |
| ____ Inches | ____ Feet | ____ Feet |
| ____ Inches | ____ Feet | ____ Feet |

CASING SCHEDULE

| Size O.D. (Inches) | Weight/Ft. (Pounds) | Wall Thickness (Inches) | From (Feet) | To (Feet) |
|---|---|---|---|---|
| 6" | | .188" | 0 | 395' |
| | | | | |

Perforations:
Type perforation mills knife
Size perforation

| | | | |
|---|---|---|---|
| From 110' | feet to 130' | feet |
| From 300' | feet to 320' | feet |
| From | feet to | feet |
| From | feet to | feet |
| From | feet to | feet |

Surface Seal: ☒ Yes ☐ No
Depth of Seal 395'
Placement Method: ☒ Pumped ☐ Poured
Seal Type: ☒ Neat Cement ☐ Cement Grout ☐ Concrete Grout
Gravel Packed: ☐ Yes ☒ No
From ____ feet to ____ feet

9. WATER LEVEL
Static water level 22' feet below land surface
Artesian flow ____ G.P.M. ____ P.S.I.
Water temperature ____ °F Quality ____

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Carson Pump (Contractor)
Address P.O. Box 20159 (Contractor)
Carson City, NV. 89721
Nevada contractor's license number issued by the State Contractor's Board 39920
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 1482
Signed Dan Trampe (By driller performing actual drilling on-site or contractor)
Date 12/18/2006

USE ADDITIONAL SHEETS IF NECESSARY