| Form No. GWS-31 02/2017 | WELL CONSTRUCTION AND YIELD ESTIMATE REPORT<br>State of Colorado, Office of the State Engineer<br>1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581<br>dwr.colorado.gov and dwrpermitsonline@state.co.us | For Office Use Only |
|---|---|---|

**1. Well Permit Number:** **Receipt Number:**

**2. Owner's Well Designation:** MW07

**3. Well Owner Name:** Great Western Operating Company

**4. Well Location Street Address:** 23085 COUNTY ROAD 23, Milliken, Colorado

**5. As Built GPS Well Location (required):** ☐ Zone 12 ☒ Zone 13 Easting: 512749.68 Northing: 4465020.22

**6. Legal Well Location:** SE 1/4, SE 1/4, Sec., 2 Twp. 4 ☒ N or S ☐, Range 67 ☐ E or W ☒, 6 P.M.

County: Weld

Subdivision: _____, Lot _____, Block _____, Filing (Unit) _____

**7. Ground Surface Elevation:** 4733 feet **Date Completed:** 01/20/2022 **Drilling Method:** Direct Push

**8. Completed Aquifer Name :** alluvium **Total Depth:** 12 feet **Depth Completed:** 12 feet

**9. Advance Notification:** Was Notification Required Prior to Construction? ☒ Yes ☐ No, Date Notification Given: 01/14/2022

**10. Aquifer Type:** (Check one)
☐ Type I (One Confining Layer) ☐ Type I (Multiple Confining Layers) ☐ Laramie-Fox Hills
☐ Type II (Not overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial/colluvial)

**11. Geologic Log:**

| Depth | Type | Grain Size | Color | Water Loc. |
|---|---|---|---|---|
| 0-8 | Clay | V. Fine | brown | at 6' |
| 8-9.5 | Sand | fine - med. | brown | Y |
| 9.5-10.5 | Clay | V. Fine | brown | Y |
| 10.5-12 | Gravel | Coarse | brown | Y |

**12. Hole Diameter (in.)**

| | From (ft) | To (ft) |
|---|---|---|
| 3.25 | 0 | 12 |

**13. Plain Casing**

| OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
|---|---|---|---|---|
| 1.315 | Sch40PVC | 1.029 | 0 | 2 |

**Perforated Casing** Screen Slot Size (in): 0.010

| OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
|---|---|---|---|---|
| 1.029 | 1.029 | 1.029 | 2 | 12 |

**14. Filter Pack:**
Material: Sand
Size: 10-20
Interval: 1.5 - 12'

**15. Packer Placement:**
Type: NA
Depth: NA

**16. Grouting Record**

| Material | Amount | Density | Interval | Method |
|---|---|---|---|---|
| Bentonite chips | | | 0 - 1.5' | Drop |

**Remarks:** Flush mount completion of wells with concrete pad at surface due to vehicular traffic in area. Hydrated bentonite seal placed from 0' to 1.5' bgs (top of sand pack).

**17. Disinfection:** Type None Amt. Used NA

**18. Well Yield Estimate Data:** ☐ Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report

Well Yield Estimate Method: NA

Static Level: ~3 feet bgs

Date/Time measured: 1/20/2022 - 10:00 am

Estimated Yield (gpm) NA

Estimate Length (hrs) NA

**Remarks:**

**19.** I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402 2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to $1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.

| Company Name: | Email: | Phone w/area code: | License Number: |
|---|---|---|---|
| Entrada Consulting Group | jpike@entradainc.com | (435) 630-4748 | PG-4161 |

Mailing Address: 1843 Sunlight Dr, Longmont, Colorado, 80504

| Sign (or enter name if filing online) | Print Name and Title | Date: |
|---|---|---|
| Jeremy Pike | Jeremy Pike, P.G., Senior Geologist | 02/03/2022 |

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|---|---|---|

**1. Well Permit Number:** **Receipt Number:**

**2. Owner's Well Designation:** MW08

**3. Well Owner Name:** Great Western Operating Company

**4. Well Location Street Address:** 23085 COUNTY ROAD 23, Milliken, Colorado

**5. As Built GPS Well Location (required):** ☐ Zone 12 ☒ Zone 13 Easting: 512736.87 Northing: 4464999.19

**6. Legal Well Location:** SE 1/4, SE 1/4, Sec., 2 Twp. 4 ☒ N or S ☐, Range 67 ☐ E or W ☒, 6 P.M.

County: Weld

Subdivision: _____, Lot _____, Block _____, Filing (Unit) _____

**7. Ground Surface Elevation:** 4733 feet **Date Completed:** 01/20/2022 **Drilling Method:** Direct Push

**8. Completed Aquifer Name :** alluvium **Total Depth:** 12 feet **Depth Completed:** 12 feet

**9. Advance Notification:** Was Notification Required Prior to Construction? ☒ Yes ☐ No, Date Notification Given: 01/14/2022

**10. Aquifer Type:** (Check one)
☐ Type I (One Confining Layer) ☐ Type I (Multiple Confining Layers) ☐ Laramie-Fox Hills
☐ Type II (Not overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial/colluvial)

**11. Geologic Log:**

| Depth | Type | Grain Size | Color | Water Loc. |
|---|---|---|---|---|
| 0-9.5 | Clay | V. Fine | brown | at 7' |
| 9.5-12 | Sand and gravel | fine - coarse | brown | Y |

**12. Hole Diameter (in.)**

| | From (ft) | To (ft) |
|---|---|---|
| 3.25 | 0 | 12 |

**13. Plain Casing**

| OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
|---|---|---|---|---|
| 1.315 | Sch40PVC | 1.029 | 0 | 2 |

**Perforated Casing** Screen Slot Size (in): 0.010

| OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
|---|---|---|---|---|
| 1.029 | 1.029 | 1.029 | 2 | 12 |

**14. Filter Pack:**
Material: Sand
Size: 10-20
Interval: 1.5 - 12'

**15. Packer Placement:**
Type: NA
Depth: NA

**16. Grouting Record**

| Material | Amount | Density | Interval | Method |
|---|---|---|---|---|
| Bentonite chips | | | 0 - 1.5' | Drop |

**Remarks:** Flush mount completion of wells with concrete pad at surface due to vehicular traffic in area. Hydrated bentonite seal placed from 0' to 1.5' bgs (top of sand pack).

**17. Disinfection:** Type None Amt. Used NA

**18. Well Yield Estimate Data:** ☐ Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report

Well Yield Estimate Method: NA

Static Level: ~5 feet bgs

Date/Time measured: 1/20/2022 - 11:30 am

Estimated Yield (gpm) NA

Estimate Length (hrs) NA

**Remarks:**

**19.** I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402 2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to $1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.

| Company Name: | Email: | Phone w/area code: | License Number: |
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Mailing Address: 1843 Sunlight Dr, Longmont, Colorado, 80504

| Sign (or enter name if filing online) | Print Name and Title | Date: |
|---|---|---|
| Jeremy Pike | Jeremy Pike, P.G., Senior Geologist | 02/03/2022 |

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|---|---|---|

**1. Well Permit Number:** **Receipt Number:**

**2. Owner's Well Designation:** MW09

**3. Well Owner Name:** Great Western Operating Company

**4. Well Location Street Address:** 23085 COUNTY ROAD 23, Milliken, Colorado

**5. As Built GPS Well Location (required):** ☐ Zone 12 ☒ Zone 13 Easting: 512729.04 Northing: 4465023.39

**6. Legal Well Location:** SE 1/4, SE 1/4, Sec., 2 Twp. 4 ☒ N or S ☐, Range 67 ☐ E or W ☒, 6 P.M.

County: Weld

Subdivision: _____, Lot _____, Block _____, Filing (Unit) _____

**7. Ground Surface Elevation:** 4733 feet **Date Completed:** 01/20/2022 **Drilling Method:** Direct Push

**8. Completed Aquifer Name :** alluvium **Total Depth:** 12 feet **Depth Completed:** 12 feet

**9. Advance Notification:** Was Notification Required Prior to Construction? ☒ Yes ☐ No, Date Notification Given: 01/14/2022

**10. Aquifer Type:** (Check one)
☐ Type I (One Confining Layer) ☐ Type I (Multiple Confining Layers) ☐ Laramie-Fox Hills
☐ Type II (Not overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial/colluvial)

**11. Geologic Log:**

| Depth | Type | Grain Size | Color | Water Loc. |
|---|---|---|---|---|
| 0-5 | Clay | V. Fine | brown | at 5' |
| 5-12 | Sand and gravel | fine - coarse | brown | Y |

**12. Hole Diameter (in.)**

| | From (ft) | To (ft) |
|---|---|---|
| 3.25 | 0 | 12 |

**13. Plain Casing**

| OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
|---|---|---|---|---|
| 1.315 | Sch40PVC | 1.029 | 0 | 2 |

**Perforated Casing** Screen Slot Size (in): 0.010

| OD (in) | Kind | Wall Size (in) | From (ft) | To (ft) |
|---|---|---|---|---|
| 1.029 | 1.029 | 1.029 | 2 | 12 |

**14. Filter Pack:**
Material: Sand
Size: 10-20
Interval: 1.5 - 12'

**15. Packer Placement:**
Type: NA
Depth: NA

**16. Grouting Record**

| Material | Amount | Density | Interval | Method |
|---|---|---|---|---|
| Bentonite chips | | | 0 - 1.5' | Drop |

**Remarks:** Flush mount completion of wells with concrete pad at surface due to vehicular traffic in area. Hydrated bentonite seal placed from 0' to 1.5' bgs (top of sand pack).

**17. Disinfection:** Type None Amt. Used NA

**18. Well Yield Estimate Data:** ☐ Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report

Well Yield Estimate Method: NA

Static Level: ~4 feet bgs

Date/Time measured: 1/20/2022 - 12:15 pm

Estimated Yield (gpm) NA

Estimate Length (hrs) NA

**Remarks:**

**19.** I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402 2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to $1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.

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| Jeremy Pike | Jeremy Pike, P.G., Senior Geologist | 02/03/2022 |