

MEMORANDUM

April 27, 2026

Water Right: 94-8142

Author: LBates *JSB 5/1/2026*

Subject: Transfer 89601 POD Validation Post-Development Period

Transfer 89601 was approved on 5/7/2025 and authorized development of two (2) ground water well PODs (out of four authorized POD locations).

The City of Murray's representative, Mr. James S. De Smet, P.E., PG submitted confirmation of the two well PODs by email via Department E-File account on 4/27/2026. Included in Mr. De Smet's correspondence were three PDF support documents: two well logs and one updated POD map related to the development of well(s) D0106875 & D0106888.

Based on the information received from Mr. De Smet, I updated AdHoc Water Right Point(s) of Diversion to remove two (2) PODs which were not developed under Transfer 89601 – well(s) C & D as illustrated below:

PointOfDiversionID	Township	Range	Section	Gv Lt	QQQ	QQ	Quarter	CountyName	WaterSource	Type	DiversionName
1087093	49N	05E	5			NW	NW	SHOSHONE	GROUND WATER-		WELL B
1087094	49N	05E	5			SW	NW	SHOSHONE	GROUND WATER-		WELL A
~~1087095~~	~~49N~~	~~05E~~	~~5~~			~~SW~~	~~NW~~	~~SHOSHONE~~	~~GROUND WATER-~~		~~WELL D~~
~~1087096~~	~~49N~~	~~05E~~	~~6~~			~~NE~~	~~NE~~	~~SHOSHONE~~	~~GROUND WATER-~~		~~WELL C~~
951940	49N	05E	6			NE	NE	SHOSHONE	GROUND WATER-		94-93-N-23-000

Two well(s) data entry in RED above have been removed from WR 94-8142 on 4/27/2026.

I've printed a revised License map product which illustrates the current POD(s)/POU for Murray Water Assn Inc's municipal service area. Currently three (3) total ground water POD(s) are service connected under Right 94-8142.

Review of Arc Pro GIS well layer illustrates both POD(s) Well #2 (well A) and Well #3 (well B) have been GPS located under well construction activity and correspond with each water right POD layer. A physical site visit isn't recommended as IDWR is able to discern well head location via well driller's reports and the Representative's Quantum Engineering and Geologic Consulting map products.

Transfer Conditions of Approval disposition: Conditions T07, T08, 046, 106, and a text condition related to development of two (2) PODs were added as part of the approval process for Transfer 89601.

I've removed condition 046 based on both well(s) D0106875 and D0106888 finalizing construction activity and currently conforming to both IDWR and DEQ regulatory requirements. Reference email correspondence with DEQ's Anna Moody DTD 4/30/2026.

I've removed condition 106 based on information received from DEQ by email on 4/30/2026 which asserts that currently the Right Holder is in compliance. Future well use and the Right Holder's compliance with DEQ is not in IDWR's jurisdiction.

I've removed the text condition based on information received regarding development of two (2) ground water wells and non-development of the other two well sites. Arc Pro GIS water right POD layer has been updated to remove the two non-developed well centroids based on email correspondence information received from Mr. James De Smet on 4/24/2026.

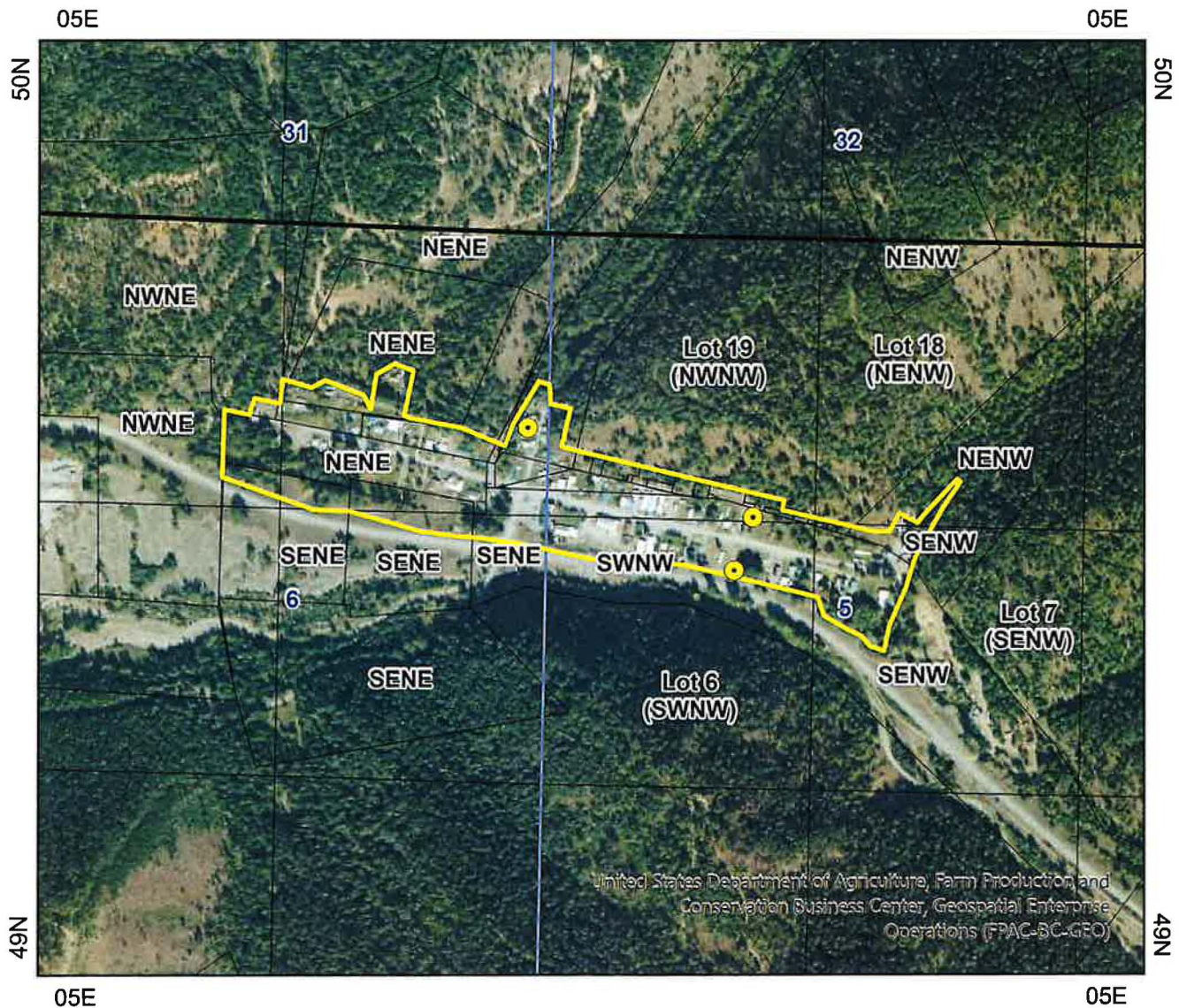
I have removed conditions T07 & T08 based on compliance of POD(s) development and conditions of approval related to Transfer 89601.

A copy of this Memorandum and updated water right map for 94-8142 has been emailed to the Right Holder via Mr. De Smet's email account quantumeng@icloud.com

This Memorandum and support documents shall be profiled in Laserfiche to update the backfile for 94-8142.

State of Idaho
Department of Water Resources
Attachment to Water Right
94-8142
(MUNICIPAL)

This map depicts the MUNICIPAL place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- | | |
|-----------------------------|------------------|
| Point of Diversion | Townships |
| Water Service Area Boundary | Sections |
| State Outline | Quarter Quarters |



0 0.1 0.2 0.3 0.4 Miles



Imagery: 2023 Aerial Photography
Prepared By Bates, Luke

Bates, Luke

From: Bates, Luke
Sent: Thursday, April 30, 2026 8:22 AM
To: Anna Moody
Cc: Spencer Humphrey; quantumeng@icloud.com; Steve Burns; Toby McNeal
Subject: RE: City of Murray - two new wells ID1400039

Anna – Greetings & good morning.

Thank you for the feedback. IDWR understands that future water usage related to the Murray water system will be regulated separately by DEQ. IDWR adds the below condition with primary function to ensure site facility plans and everything leading up to pumping from a production well meets DEQ regulations before IDWR finalizes a permit for licensing or removes the condition below from the water right license/deed following transfer activity development period.

Based on your statements its reasonable the condition has been fully satisfied, and I will collaborate with my supervisor toward removing it from Right 94-8142's conditions of approval.

Thank you,

Luke Bates – Sr Water Resource Agent
Idaho Department of Water Resources
Northern Regional Office
208-762-2817
7600 N Mineral Dr Suite 100 Coeur D Alene ID 83815-7763

From: Anna Moody <Anna.Moody@deq.idaho.gov>
Sent: Thursday, April 30, 2026 8:13 AM
To: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Cc: Spencer Humphrey <spencer.humphrey@idwr.idaho.gov>; quantumeng@icloud.com; Steve Burns <Steve.Burns@deq.idaho.gov>; Toby McNeal <toby.mcneal@deq.idaho.gov>
Subject: RE: City of Murray - two new wells ID1400039

Good morning, Luke,

I have copied Steve Burns and Toby McNeal on this email as they will have the most up to date information for the Murray Water Association.

I believe the Right Holder has satisfied this condition as of the date of this correspondence. However, there may be additional conditions they are working on due to the water quality discovered in one of the PODs.



IDAHO DEPARTMENT OF
WATER RESOURCES

Anna Moody | Drinking Water Compliance Supervisor
Idaho Department of Environmental Quality
Office: (208) 769-1422

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Monday, April 27, 2026 11:50 AM

Bates, Luke

From: Steading, Natalie
Sent: Monday, April 27, 2026 3:20 PM
To: Bates, Luke; Potter, Scott
Subject: RE: well inspection activity

I see that D00106875 had an inspection, but not D00106888

Natalie

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Monday, April 27, 2026 12:01 PM
To: Potter, Scott <Scott.Potter@idwr.idaho.gov>; Steading, Natalie <Natalie.Steading@idwr.idaho.gov>
Subject: well inspection activity

Scott &/or Natalie,

Can you confirm that either well D0106875 and D0106888 drilled by Universal Drilling for Murray Water Assn Inc (City of Murray) had well seal inspections and/or have satisfied condition of approval 046 for our allocation program which requires:

Right holder shall comply with the drilling permit requirements of Idaho Code § 42-235 and applicable Well Construction Rules of the Department.

I'm working on closing out Transfer development activity and want to see what we have logged. Laserfische doesn't reflect seal calls or well inspection activity.

Thanks,
Luke Bates – Sr Water Resource Agent
Idaho Department of Water Resources
Northern Regional Office
208-762-2817
7600 N Mineral Dr Suite 100 Coeur D Alene ID 83815-7763



Bates, Luke

From: Bates, Luke
Sent: Monday, April 27, 2026 8:03 AM
To: IDWR File
Subject: FW: Murray-Updated Points of Diversion
Attachments: Murray PODsv2026.pdf; D0106875 WellB3.pdf; D0106888 WellA2.pdf

C/O Luke Bates @ Northern Region Office

From: James Desmet <quantumeng@icloud.com>
Sent: Friday, April 24, 2026 9:37 AM
To: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Cc: Steven Hale <stevenbrenda1@hotmail.com>; Jesse Herndon, PE <jherndon@hmh-llc.com>; Matt Jorgensen <mjorgensen@HMH-LLC.com>; Logan Reed <lreed@hmh-llc.com>; Cody Scott <cscott@HMH-LLC.com>; Nicole Wertzler <nwertzler@hmh-llc.com>
Subject: Murray-Updated Points of Diversion

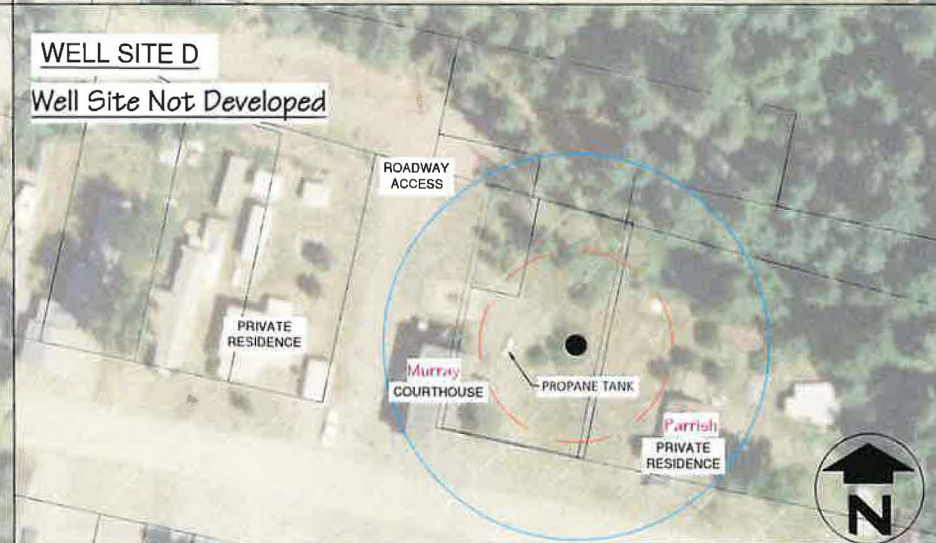
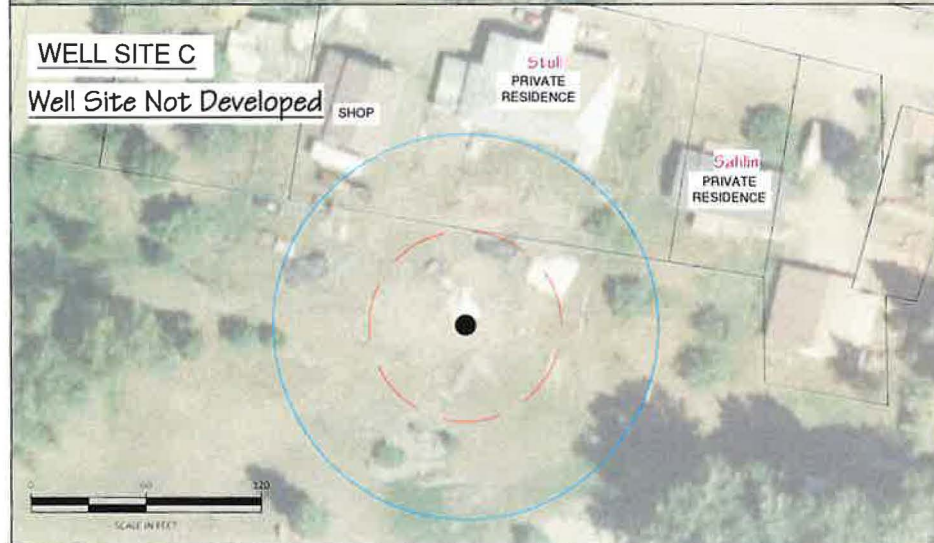
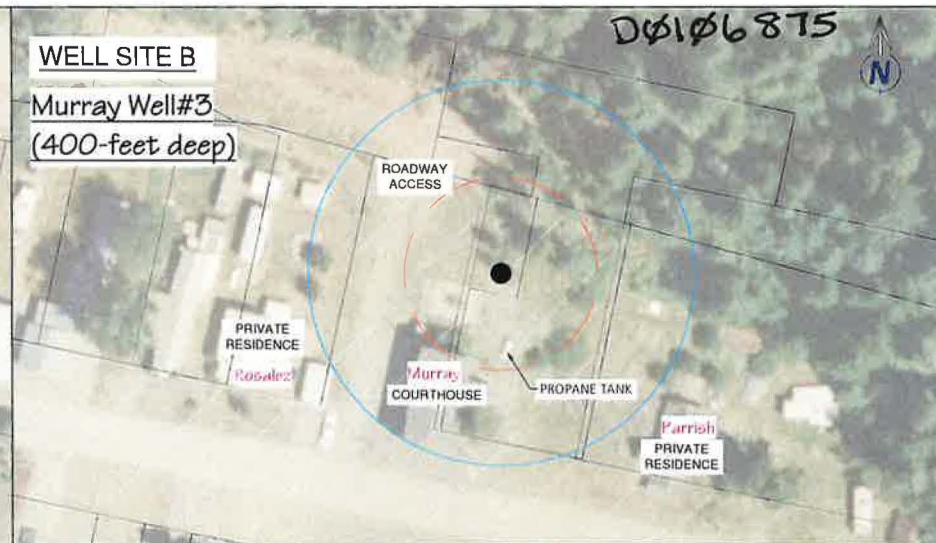
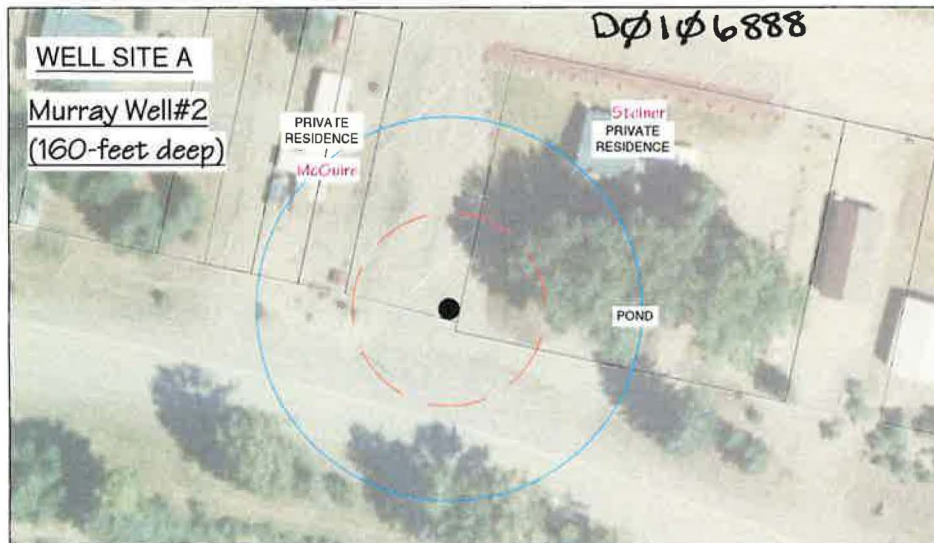
CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Attached is an updated POD map for Murray Water Association-94-8142. Well Site A (now Well#2) and Well Site B (now Well#3) were successfully developed. Site C and Site D were not developed. Also attached are well logs for the two wells.

Thank You,

James S. De Smet, PE, PG

Quantum Engineering and Geologic Consulting
212 W Ironwood Dr, Suite D, #671
Coeur d'Alene, ID 83814
208 661 5200 (c)
quantumeng@icloud.com



Base Map Source: HMB Engineers, Well Site Evaluation, July 17, 2024
 Scale: 1"=100'

RECEIVED

Apr 27, 2026

DEPARTMENT OF
 WATER RESOURCES



QUANTUM Engineering
 and Geologic Consulting

ENGINEER: Jim De Smet
 DRAWN BY: Jim De Smet
 DATE: 4/24/26
 SCALE: As Shown
 SHEET NO:

Developed Points of Diversion
 Murray Water Association, Inc.
 Shoshone County, Idaho

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Well B/Well#3

RECEIVED

Apr 27, 2026

DEPARTMENT OF
WATER RESOURCES

1. WELL TAG NO. D 0106875
Drilling Permit No. _____
Water right or injection well # _____
2. OWNER: Murray Water Assn
Name Murray Water Assn
Address 115 West Almondist Dr
City Murray State Id Zip 83824

3. WELL LOCATION:
Twp. 47 North ☒ or South ☐ Rge. 05 East ☒ or West ☐
Sec. 5 1/4 NW 1/4 NW 1/4

Gov't Lot _____ County Shoshone
Lat. 47° 37.602 (Deg. and Decimal minutes)
Long. 113° 51.24 (Deg. and Decimal minutes)
Address of Well Site Pritchard Creek Rd

City Murray
Lot _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:
☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
Bentonite	0	60	36 bags	grout

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
6	0	60	24	steel	☒	☐	☒
4	60	400	200	plastic	☐	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 60

9. PERFORATIONS/SCREENS:
Perforations ☒ Y ☐ N Method Saw
Manufactured screen ☐ Y ☒ N Type _____
Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
360	400	1/8	50	4.0	PVC	200

Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☒ N Type _____

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method
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11. FLOWING ARTESIAN:
Flowing Artesian? ☒ Y ☐ N Artesian Pressure (PSIG) 2.05
Describe control device Well cap

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 180 Static water level (ft) 0
Water temp. (°F) 45 Bottom hole temp. (°F) 45

Describe access port Well cap

Well test:	Test method:
Drawdown (feet)	Pump
Discharge or yield (gpm)	Bailer
Test duration (minutes)	Air
	Flowing artesian
<u>400</u>	☐
<u>90 gpm</u>	☐
<u>2 hours</u>	☒
	☐

Water quality test or comments: Clear

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
10	0	27	clay based Builders		
10	27	40	gravel, coarse sand water	x	
10	40	60	Shale		x
6	60	150	Shale Rock with fractures		x
6	150	250	Shale Rock with fractures 10 gpm	x	
6	250	320	Shale Rock with fractures 40 gpm	x	
6	320	400	Shale Broken lots of fractures estimate 90 gpm	x	

Completed Depth (Measurable): 400
Date Started: Apr 25 Date Completed: Apr 19 25

14. DRILLER'S CERTIFICATION:
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Universal Drilling Co. No. 650

*Principal Driller Scott H. H. Date Apr 30 25

*Driller Scott H. H. Date Apr 30 25

*Operator II Scott H. H. Date Apr 30 25

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Well A/Well#2

RECEIVED

Apr 27, 2026

DEPARTMENT OF
WATER RESOURCES

1. WELL TAG NO. D 0106888

Drilling Permit No. 922125

Water right or injection well # _____

2. OWNER: Murray Water Assn Inc

Name Murray Water Assn Inc

Address 115 West Almonist Dr

City Murray State Id Zip 83524

3. WELL LOCATION:

Twp. 49 North ☒ or South ☐ Rge. 05 East ☒ or West ☐

Sec. 5 1/4 SW 1/4 NW 1/4

Gov't Lot _____ County Shoshone

Lat. 47 37.561 (Deg. and Decimal minutes)

Long. 115 31.262 (Deg. and Decimal minutes)

Address of Well Site Prichard Creek and A/F 7

City Murray

Lot _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
<u>Bentonite</u>	<u>0</u>	<u>60</u>	<u>35 bags</u>	<u>put</u>

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
<u>6</u>	<u>-2</u>	<u>60</u>	<u>29</u>	<u>Steel</u>	☒	☐	☐
<u>4</u>	<u>40</u>	<u>160</u>	<u>200</u>	<u>Pipe 54.2</u>	☐	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 60

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Spd

Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
<u>100</u>	<u>160</u>	<u>1/2</u>	<u>20</u>	<u>4 inch</u>	<u>pipe</u>	<u>200</u>

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method
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11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control device well cap

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 100 Static water level (ft) 10

Water temp. (°F) 75 Bottom hole temp. (°F) 105

Describe access port well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
<u>160</u>	<u>20 gpm</u>	<u>4 hrs</u>	☐	☐	☒	☐

Test method:

Water quality test or comments: good

13. LITHOLOGIC LOG and/or repairs of abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
<u>10</u>	<u>0</u>	<u>25</u>	<u>Clay, COBBLE, gravel</u>		☒
<u>10</u>	<u>25</u>	<u>35</u>	<u>Gravel, Sand, water</u>	☒	
<u>10</u>	<u>35</u>	<u>60</u>	<u>Shale rock</u>		☒
<u>6</u>	<u>60</u>	<u>100</u>	<u>Shale, rock</u>		☒
<u>6</u>	<u>100</u>	<u>170</u>	<u>Shale, Fractures 30 gpm</u>	☒	
<u>6</u>	<u>170</u>	<u>160</u>	<u>Broken, Fractures Shale, water 70 gpm plus</u>	☒	

Completed Depth (Measurable): 160

Date Started: Sp 22-75 Date Completed: Sp 23-75

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Universal Drilling Co. No. 650

*Principal Driller Ed H A V Date Sp 26-75

*Driller Ed H A V Date Sp 26-75

*Operator II Ed H A V Date Sp 26-75

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.