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DEPARTMENT OF
WATER RESOURCES

July 28, 2005

Mr. Shelley Keen
Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

Subject: Permit 63-12530 - Joseph and Laura Gallia

Dear Shelley:

On behalf of Joseph and Laura Gallia, this letter requests a modification of permit 63-12350. The requested modification would consist of listing a water-bearing zone of 350 to 400 feet rather than a water-bearing zone of 380 to 430 feet.

The existing Gallia domestic well is completed with well screen from 358 feet to 368 feet (well drillers report attached). A recent pumping test of the well indicates that it should be capable of producing in excess of 50 gpm with an upgraded pump. As a result, it appears that the well could support both the domestic uses at the Gallia home and the irrigation use (45 gpm, 5 acres) allowed under water right permit 63-12530.

Review of the Gallia domestic well log, and other well logs in the vicinity of the Gallia property, shows that the aquifer in that area consists of an inter-bedded sequence of sand and clay. The individual sand layers may be locally isolated from overlying and underlying sand layers by clay beds. However, these individual sand layers are not separate aquifers, but rather zones with similar pressure, temperature, and chemistry within the larger regional aquifer. As a result, the slightly shallower water-bearing zone proposed by this modification is part of the same aquifer. There will be no difference in impact on other water users if the Gallias pump from a sand layer at 360 feet rather than from a sand layer at 380 feet. Furthermore, obtaining the entire supply from a single well rather than two wells presents less long-term risk to the aquifer.

We look forward to your approval of this request. If you have any questions or comments, please contact me.

Sincerely,

Terry M. Scanlan, P.E., P.G.

Cc: Joe Gallia

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. DRILLING PERMIT NO. _____

Other IDWR No. D0025103

2. OWNER:

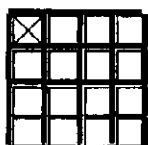
Name Irving Ray

Address 615 N Windsor

City Mesa State AZ Zip 85213

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

W  Twp. 5 North ☒ or South ☐
Rge. 1 East ☐ or West ☒
Sec. 32 1/4 10 acres NW 1/4 40 acres NW 1/4 160 acres

Gov't lot _____ County Canyon

Lat: _____ Long: _____

Address of Well Site N/A

City Middleton

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name Chukar Point

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0'	18'	7	sacks

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

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2'	358'	250	steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 10' Length of Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations Method washed in _____
☒ Screens Screen Type telescoping

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
358'	368'	.016		5.5"	slst	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

204ft. below ground Artesian Pressure _____ lb
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump	☐ Bailer	☒ Air	☐ Flowing Artesian
Yield gal/min.	Drawdown	Pumping Level	Time
30 GPM		340'	1 Hr.
20 gpm		320'	

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered 208'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water				Y	N
Bore Dia	From	To	Remarks: Lithology, Water Quality & Temp.		
10"	0'	1'	sandy top soil	☐	☒
10"	1'	4'	sandy brown clay	☐	☒
10"	4'	18'	sandy tan clay	☐	☒
8"	18'	44'	sandy tan clay	☐	☒
8"	44'	73'	sandy tan clay w/Gravel	☐	☒
8"	73'	80'	brown sand	☐	☒
6"	80'	91'	brown sand	☐	☒
6"	91'	116'	brown sand w/tan clay	☐	☒
6"	116'	151'	sandy tan clay	☐	☒
6"	151'		sandy tan clay	☐	☒
		170'	w/small sticky tan clay strips	☐	☒
6"	170'	189'	sticky tan clay	☐	☒
6"	189'	208'	sandy tan clay	☐	☒
6"	208'	211'	quartz sand & silt	☐	☒
6"	211'	216'	sticky tan clay	☐	☒
6"	216'	232'	sandy tan clay	☐	☒
6"	232'	235'	quartz sand w/pea gravel	☐	☒
6"	235'	242'	brown sand w/tan clay	☐	☒
6"	242'	256'	sticky tan clay	☐	☒
6"	256'	261'	fine brown & mica sand	☐	☒
6"	261'		hard sticky tan clay	☐	☒
		308'	w/small brown sand strips	☐	☒
6"	308'	322'	sticky lt. blue clay	☐	☒
6"	322'	330'	fine brn sandw/sticky tan clay strip	☐	☒
6"	330'	338'	sticky tan clay	☐	☒
6"	338'	343'	fine quartz & brown sand	☐	☒
6"	343'	345'	sticky tan clay	☐	☒
6"	345'	358'	sticky blue clay	☐	☒
6"	358'	368'	fine quartz & mica sand	☐	☒

Completed Depth: 368 (Measurable)

Date: Started 5-24-02 Completed 5-30-02

13. DRILLER'S CERTIFICATION

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

Firm Name SOS Welldrilling & Pump Co Firm No. 212

Firm Official Frank Schinner Date 6-25-02

Supervisor or Operator Dickson Date 6-25-02
(Sign once if Firm Official & Operator)

Date: 6/21/02 Time: 5:16 PM

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

67358

Office Use Only

Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: : : Long: : :

1. DRILLING PERMIT NO. **D0607085**

Other IDWR No. **63-98-W-0347-000**

2. OWNER:

Name **Ken Spaeth**
Address **3412 Grover Court**
City **Boise** State **Id.** Zip **83705**

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S
Twp. **5** North ☒ or South ☐
Rge. **1** East ☐ or West ☒
Sec. **31** 1/4 **NE** 1/4 **NE** 1/4
Gov't Lot _____ County **Canyon**
Lat: : : Long: : :
Address of Well Site **1 mi E. Can-Ada rd.**
City **Star**
(Give at least name of road + distance to Road or Landmark)

Lt. **16** Blk. **2** Sub. Name **Monument Ridge**

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	24	7	Overbore

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

Was drive shoe seal tested? ☒ Y ☐ N How? **Pressure**

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	1	363	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

230 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: **Sanitary Well Cap**

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
60		365	2

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Wat
10"	0	5	Top Soil	No
10"	5	24	Sand/strips of clay	No
8"	24	35	Sandstone	No
8"	35	75	Gravel	No
8"	75	180	Sandstone	No
8"	180	190	Clay	No
8"	190	205	Sandstone	No
6"	205	220	Sandstone	No
6"	220	230	Clay	No
6"	230	270	Sand/Sandstone	Yes
6"	270	280	Blue Clay	No
6"	280	295	Sandstone	No
6"	295	358	Brown & Grey Clay/str sand	No
6"	358	362	Blue Clay	No
6"	362	371	Sand	Yes

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WATER RESOURCES
WESTERN REGION

RECEIVED

JUL 06 1998

Department of Water Resources

Completed Depth **371**
Date: Started **6/4/98** Completed **6/11/98**

13. DRILLER'S CERTIFICATION

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

Firm Name **Can-Ada Well & Pump** Firm No. **304**

Firm Official **Earl Skinner** Date **6/19/98**

Supervisor or Operator **[Signature]** Date **6/19/98**

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4 _____	1/4 _____	1/4 _____	
Lat: _____		Long: _____	
☒ Air ☐ Flowing Artesian			

1. WELL TAG NO. D 000 1817
 DRILLING PERMIT NO. 63-98-W-0162-000
 Other IDWR No. _____

2. OWNER:
 Name Cass Atkins
 Address 1116 Langtree Gulch
 City Star State ID Zip 83669

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>5</u>		North ☒ or South ☐	
W		Rge. <u>1</u>		East ☐ or West ☒	
E		Sec. <u>31</u>		1/4 <u>NW</u> 1/4 <u>NE</u> 1/4	
S		Gov't Lot _____		10 acres County <u>Ada</u> 40 acres 160 acres	
		Lat: _____		Long: _____	
		Address of Well Site <u>1116 Langtree Gulch</u>		City <u>Star</u>	

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name Monument
Ridge

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Bentonite	0	48	850LB	Overbore	

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 338
 Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+1.5	338	.25	Steel	☒	☐	☒	☐
5"	335	340	.25	Steel	☒	☐	☒	☐
					☐	☐	☐	☐

Length of Headpipe 5' Length of Tailpipe MICROFILMED

9. PERFORATIONS/SCREENS

Perforations Method _____
 Screens Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
340	350	.018	-	5"	Stainless	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

200 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
40 GPM	-	320	2 HR

Water Temp. 60° Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 23

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Wa

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y
10"	0	2	Top Soil	
"	2	6	Hard Pan	
"	6	26	Sandy Clay	
"	26	37	Tan Clay	
"	37	48	Sand	
6"	48	78	Gravel & Sand	
	78	93	Tan Clay	
	93	97	Sand	
	97	127	Sandy Clay	
	127	135	Sand	
	135	150	Tan Clay	
	150	156	Sand	
	156	168	Sandy Clay	
	168	172	Sand	
	172	200	Sandy Clay	
	200	203	Sand	
	203	230	Sandy Clay	
	230	236	Sand	
	236	238	Tan Clay	
	238	245	Sand	
	245	260	Blue Clay	
	260	265	Sand	
	265	278	Sandy Clay	
	278	290	Fine Sand	
	290	298	Sandy Clay	
	298	305	Coarse Sand	
	305	309	Gray Clay	
	309	314	Sand	
	314	326	Red-Brown Clay	
	326	330	Sand	
	330	338	Blue Clay	
	338	350	Sand	
	350		Clay	

Completed Depth 350' (Measure ab)
 Date: Started 3-24-98 Completed 4-1-98

13. DRILLER'S CERTIFICATION

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

Company Name Grouse Well Drilling Firm No. 409
 Firm Official Ray E. Colman Date 4-2-98
 and
 Driller or Operator Andy Clark Date 4-2-98
 (Sign once if Firm Official & Operator)

