

[illegible]

Method of Determination:

3. none Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. **See narrative**

see aerial Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

 x Aerial Photo Attached (required for irrigation of 10+ acres).

 x Photo of Diversion and System Attached

4.

<u>Well or Diversion</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
<u>well</u>	ALL UNKNOWN				

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

<u>1. Measurement</u>	<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements: **no measurements taken**

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method:

[1] IDWR standard from table entitled MAXIMUM INSTANTANEOUS WATER REQUIREMENTS FOR DOMESTIC USE = 0.22 cfs for internal use in 24 homes

[2] $0.02 \times 24 \text{ homes} = 0.48 \text{ cfs}$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: **not applicable**

$V = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$
I.R.

$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$
D.R.

$V = \text{Smaller of } \frac{V}{\text{I.R.}} \text{ and } \frac{V}{\text{D.R.}} =$

2. Volume Calculations for Other Uses: **DOMESTIC**

[1] 0.6 afa per household from the IDWR domestic table x 24 homes = 14.4 afa

[2] $0.22 \times 365 \text{ days/year} \times 1.9835 = 159.3 \text{ afa}$

V = Smaller of V and V = 14.4 afa
I.R. D.R.

G. NARRATIVE/REMARKS/COMMENTS

The permit was issued for the Northstar Subdivision in Canyon County. The correct fee was paid.

The permit was issued for the internal domestic use in 24 homes. ArcMap indicated that no homes have been build. A letter was sent to the permittee at the address of record but no response was received and the mail was not returned. The taxlot layer of ArcMap states that the subdivision land is owned by the Idaho Banking Co., so I sent a letter re the field exam and the ownership issues to the bank. They did not respond and the mail was not returned.

I conducted a field exam on 5/2/2012. The well and a locked pump house were seen. No pump or motor information was available. It appears that the entire infrastructure is in place such as the utilities, cable, plus an irrigation system, landscaping, paved streets. Wood and metal stakes were present at several of the lots.

IDWR policy is to consider that water is being beneficially used when water lines are stubbed in to a lot, even if no house has been built. The stub in is considered the beneficial use. I am certain that the water is stubbed in to each lot, though I was not able to confirm it with anyone familiar with the site or with as-built drawings. It is very unlikely that the entire infrastructure is in place except the water lines. It is unreasonable to assume the infrastructure present would be disturbed to install the domestic water system.

Surface water has historically been used on the site for irrigation. Additionally, water right no. 63-33225 for 0.616 cfs/138.6 afa from ground water for irrigation of 30.1 acres is appurtenant to the property. The legal description for the POD is the same as the subdivision well, but the backfile show the POD as being north and across the street from the subdivision well. There is no information in either of the files to indicate whether the old irrigation well or new subdivision well was to be used to deliver the irrigation water. No transfer was filed or is necessary if the new well was intended to replace the older well.

Available data is insufficient to calculate a theoretical flow. If the IDWR standard quantity of 0.02 cfs for one home internally use is used to calculate domestic flow, the result is 0.48 cfs. The table entitled MAXIMUM INSTANTANEOUS WATER REQUIREMENTS FOR DOMESTIC USE is another IDWR standard for determining the quantity to be recommended for internal domestic use for multiple homes. For 24 homes, the table indicates that 0.22 cfs is needed and that is the permitted diversion rate. The well log indicates during well development, 500 gpm, or 1.1 cfs was pumped. Due to the extensive infrastructure in place and the pump rate, it is reasonable to assume the system pumps 0.22 cfs. The rate and volume recommended for licensing is 0.22 cfs and 14.4 afa.

Have conditions of permit approval been met? ☒ Yes ☐ No

The water bearing zone condition can be deleted because this use is downstream from the Star Bridge.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.220 CFS	14.40 AF
	<u>Totals:</u>	0.220 CFS	14.40 AF

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ☒ None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name Willy Umic Date 7-2-12

Reviewer _____ Date _____



63-32262 -- 2011 Bing Maps aerial of place of use [outlined in red] and point of diversion.
No houses have been built but all infrastructure is in place.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

LESSER OF FOUR CHOICES

1) Permit amount	<u>.22</u>	cfs	&/or	_____	af storage
2) Beneficial use limit	<u>.22</u>	cfs	&/or	_____	af storage
3) System measurement	_____	cfs	&/or	_____	af storage
4) Proof fee amount	<u>1.0</u>	cfs	&/or	_____	af storage
Recommended Amount	<u>.22</u>	cfs	&/or	_____	af storage

NOTES

- 1) Can never exceed permit amount.
 - 2) Beneficial use limits are recognized standards: 0.03 cfs for up to 5 acres, 0.02 cfs beyond 5 acres, stockwater chart, in-house domestic chart etc. Some exceptions acceptable if already approved in permit: excessive rate for parks etc.
 - 3) System measurement can be actual measurement reflecting typical operations or theoretical measurement or some combination of both if actual measurement does not reflect true capacity of system based on other supporting information. Be cautious about using just theoretical measurement to limit the amount of water.
 - 4) Confirm correct proof fee was paid. See "wr field exams/proof fees-2 schedules" for pre 11/1/1991 schedule and for on/after 11/1/1991 schedule.
- If permit includes rate of flow and storage, fee is the greater amount for those two categories. Example with current filing fees:

1.0 cfs = \$100

15 af = \$50

required fee = \$100

If proof paid amount is the limiting factor for recommended flow/storage, confirm this was addressed in proof process but owner declined to pay more. If cannot confirm owner was provided a chance to pay correct fee, use 30-day letter for last chance to pay. Without additional payment, allow maximum rate/storage per fee paid.

**IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM**

1. IDENTIFICATION # D0053349 (Tag #, etc.)

OTHER APPLICABLE # 63-32262 (Water right #, etc.)

2. OWNER Jim Carrie Phone 208-861-6344

Address POB 624 City Mountain Home

State ID Zip 83647 Email www.jscarrie@aol.com

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. 43.6152 Long. -116.7326

Twp _____ Rge _____ Sec _____ 1/4 _____ 1/4 _____

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES no measurements taken

INSPECTED BY Wing Umic DATE 5-2-12

Form 238-7
6/07

NORTH STAR

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

COPY

1. WELL TAG NO. D DO053349Drilling Permit No. 906463-853822Water right or injection well # 63-322622. OWNER: LITER MOUNTAIN DEVELOPMENT INC.Name JIM CARRYAddress PO BOX 624City MT. HOME State ID Zip 83647

3. WELL LOCATION:

Twp. 3 North ☒ or South ☐ Rge. 3 East ☐ or West ☒Sec. 8 SW 1/4 NW 1/4 NW 1/4Gov't Lot _____ County CANYONLat. 43 ° 36 ' 917 (Deg. and Decimal minutes)Long. 116 ° 43 ' 949 (Deg. and Decimal minutes)Address of Well Site FROM KARCHER RD 1/2 MILE NORTHON WAGNER ROAD City CALDWELL, IDALot. 1 Blk. 2 Sub. Name NORTHSTAR SUBDIVISION

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection☐ Other DOMESTIC 24 HOMES

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 ³)	Placement method/procedure
BENT. CHIPS	1	75	3000 LBS	SLOW POUR
BENT. GRUNT	75	150	1800 LBS	PRES. GROUTED

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing Liner	Threaded	Welded
10	12	220	.365	STEEL	☒	☐	☒
10	250	273	.365	STEEL	☒	☐	☒
10	293	295	.365	STEEL	☒	☐	☒

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☒ Y ☐ N Type WIRE WOUND TYPE S STEELMethod of installation SET IN PLACE

From (ft)	To (ft)	Slot size	Number	Diameter (nominal)	Material	Gauge or Schedule
230	250	.030	—	10"	STAINLESS	STANDARD
273	293	.030	—	10"	STAINLESS	STANDARD

Length of Headpipe N/A Length of Tailpipe 2 FT.Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
8-12 SILICA	306	200	9000 LBS	SLOW POUR

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____Describe control device N/A

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 2 N/A Static water level (ft) 84Water temp. (°F) 58 Bottom hole temp. (°F) 58Describe access port WELL SEAL FOR PATESS ADAPT.

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Baker	Air	Flowing artesian
116 FT	500 GPM	12 HOURS	☒	☐	☐	☐

Test method:

Water quality test or comments: _____

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
16	0	8	HARD TOP SOIL	Y
16	8	22	GRAVEL & SAND	
16	22	56	SAND GRAVEL & CLAY	
16	56	68	CLAY	
16	68	72	CLAY LITTLE GRAVEL & SAND	
16	72	80	SANDY CLAY	
16	80	105	SANDY CLAY	
16	105	113	SAND AND CLAY	
16	113	150	CLAY	
16	150	215	CLAY AND SAND SEAMS	
16	215	218	SAND	X
16	218	225	SAND	X
16	225	235	CLAY	
16	235	236	SAND	X
16	236	240	CLAY	
16	240	260	CLAY AND SAND LAYERS	X
16	260	280	SAND	X
16	280	290	SAND	X
16	290	295	SANDY CLAY	X
16	295	300	CLAY	
16	300	306	CLAY	

Completed Depth (Measurable): 295Date Started: 10-15-08 Date Completed: FINISHED PUMPING 4-8-09

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 ADAMSON PUMP & DRILL CO. No. 457Principal Driller DAVE ADAMSON Date 4-10-09

Driller _____ Date _____

Operator LARRY MOORE Date 4-10-09Operator KEVIN YOUNG Date 4-10-09

* Signature of Principal Driller and rig operator are required.

MEMORANDUM

TO: 63-32262 licensing file

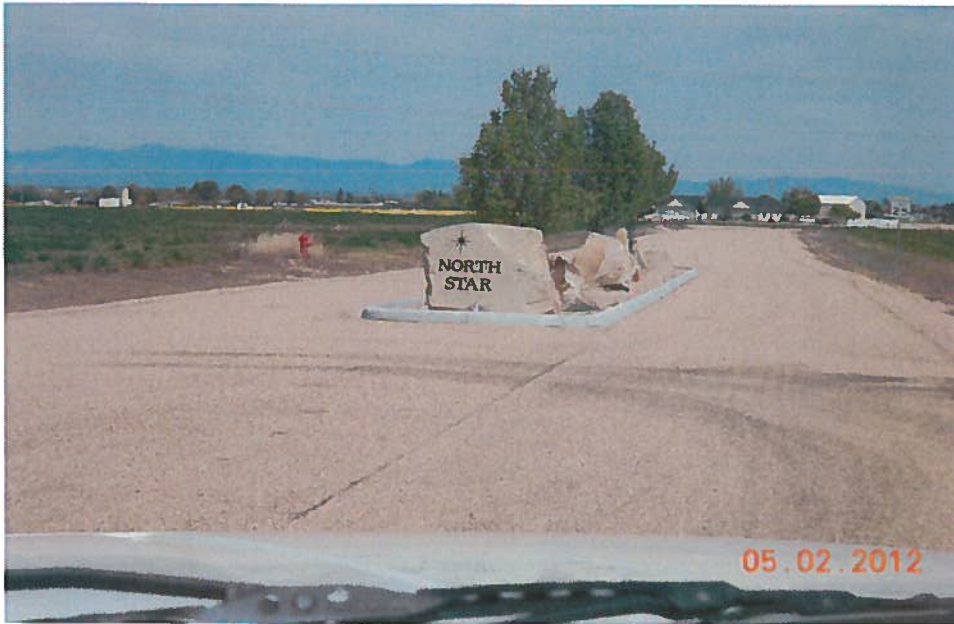
FROM: Vicky Music

DATE: July 9, 2012

RE : IDEQ Public Water System [PWS]

Brandon Lowder, IDEQ, called me today in response to an e-mail I left for an IDEQ program manager regarding the status of the Northstar subdivision PWS. Brandon said that the developer submitted the facility and well plans, IDEQ began the project review, had questions and corresponded with the applicant by mail in 9/2009. IDEQ did not receive the additional information IDEQ needed for final approval of the PWS. A PWS number has not been assigned to the subdivision system. The PWS number is assigned by an IDEQ engineer at a point in the engineering review when it looks approvable.

Brandon said that the project does not appear on the website list because it lacked final approval. The project is currently on hold but can be revived if and when the project is revived and the clarification sought by IDEQ is provided.



Looking east down
Spring Meadow Dr.
from Walker Blvd.



Looking south from
Long Meadow Dr .
Well seen in left
foreground. Pump
house seen right.