

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 15-7329

Exam Date: 03-13-15

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)?
- X
- Y
-
- N

a. Irrigation of 5 acres or less

b. Storage of up to 14.6 AF for stockwater purposes only

c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less

d. Other < >

2. Current Owner: Name: Nalder

Owner of Record Correct? X Y NAddress of Record Correct? Y X N

If No: Address: Change of address on statement of completion but already returned mail from that address.

3. Beneficial Use Fees have been paid:
- X
- Y
-
- N Receipt No: E040683

4. SOURCE**TRIBUTARY**

Groundwater

Method of Determination: Well Log

Change in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:
- X
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: POU PIN: RP0369524A

2. Other water rights with the same point of diversion:
- X
- NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments:

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater		SE	NW	SE	19	13S	37E	B.M.	Oneida
								B.M.	

Method of Determination: well log.

Change in POD? Y X N Amendment Required? Y X N

- 2.
- PLACE OF USE:**
- Use: Domestic, Irrigation, Stockwater

TW P	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13S	37E	19														4.4			
		Lot #																	
Total Acres =																		4.4	

Method of Determination: Home and corrals visible on GIS imagery. PIN RP0369524A Irrigation- photos sent by permit holder show 4 valve system to big gun sprinklers onto limited grasses. Per Dan N. this is enough for 4+ acres. No current NAIP imagery and Landsat inconclusive. POU taxlot within QQ, not across creek and excluding roads and home.

Change in POU? ____Y __X__N Amendment Required? ____Y __X__N

___ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

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

___ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

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

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: < _____ >

E. FLOW CALCULATIONS

____Additional Computation Sheets Attached

Measured Method:

Domestic:

Per Application Processing Memo #22, 0.04 cfs for domestic use, with yard. 0.02 cfs for domestic, no yard.
No yard excluding condition – 0.04 cfs

Stock:

Per App. Processing Memo #3, 0-10 livestock, 0.02 cfs

Irrigation:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable 4.4 acres(0.03 cfs) = 0.13 cfs

See theoretical sheet: 5 hp pump can pump 0.14 cfs.

Permit allowed = 0.04 cfs domestic, 0.02 cfs stock, 0.14 cfs irrigation
License recommend for 0.04 cfs domestic, 0.02 cfs stock, 0.13 cfs irrigation.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.4 \times 3.5 = 15.4$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \times 214 \times 1.9835 = 55.2$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 15.4$$

2. Volume Calculations for Other Uses:

Domestic:

Per Application Processing Memo #22, 1.2 afa for domestic use, with yard. 0.6 afa for domestic, no yard.
No condition indicating irrigation component covers all yard irrigation. Recommend 1.2 afa

Stock:

Per App. Processing Memo #3, 0-10 livestock, 0.2 afa

License recommend for 15.4 afa irrigation, 0.6 afa domestic, 0.2 afa stock. Will limit to irrigation afa as domestic limit in condition and max. diversion limited to irrigation use.

G. PURPOSE OF USE

Irrigation ☒ Y ☐ # Stock 10 Domestic # of Homes 1

Other:

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: GIS Imagery and Application Information

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Season of Use: 04/01-10/31
Headgate: 3.5
Cons. Use: 2.5

Water District: None
Wild and Scenic Watersheds: None

Conditions:
13,000 gal per day limit for domestic use.

Limiting total cfs and afa to irrigation use as per permit. Added condition 132 per Dan N.

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

I. 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	0.04 CFS	N/A AF - condition
Stockwater	01/01 to 12/31	0.02 CFS	0.4 AF
Irrigation	04/01 to 10/31	0.13. CFS	15.4 AF
<u>Totals:</u>		0.13 CFS	15.4 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ X None

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☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

Other:

J. AUTHENTICATION

Field Examiner's Name Denelle Turner Date 05/07/15

Reviewer 1. Denise A. Nelson Date 5-4-15

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 15-7329
 Reviewer: D. Favreau
 Date of Review: 5/1/2015

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	5	5	5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	105	105	105
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.16 70	0.14 63	0.13 57
			0.14 63.15

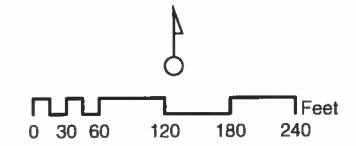
The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

The horsepower a common HP used for domestic wells. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the well log. Screens between 40 and 180 feet. $(180-40)/2+40$ and $(180-25)/2$

15-7329



D. Favreau

03/23/15

19

NWSE

13S37E

NESE

SWSE

SESE

15-7329

0 110 220 440 660 880 Feet

D. Favreau 03/23/15

NENW

15-7329

0 110 220 440 660 880 Feet

D. Favreau 03/23/15

NWNW 1 NENW NWNE NENE

SWNW 4 SENW SWNE SENE

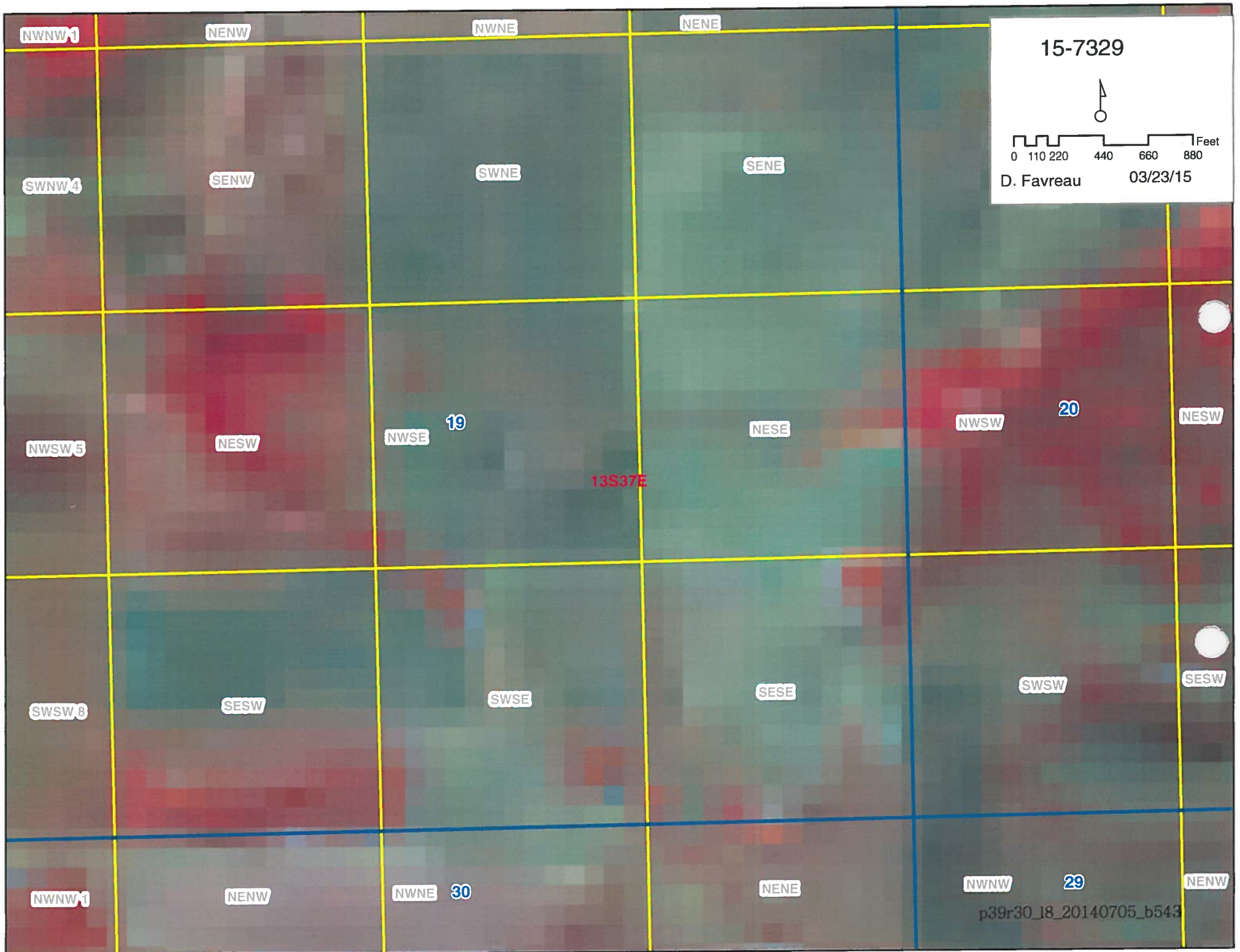
NWSW 5 NESW NWSE 19 NESE NWSW 20 NESW

13S37E

SWSW 8 SESW SWSE SESE SWSW SESW

NWNW 1 NENW NWNE 30 NENE NWNW 29 NENW

The USDA-FSA Aerial Photography Field office asks to be credited in derived products.



IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

15

1. WELL TAG NO. D 0058672

Drilling Permit No. _____

Water right or Injection well # _____

2. OWNER: Loren + Shauna Walder

Name _____

Address 312 N MainCity Malad State ID Zip 83252

3. WELL LOCATION:

Twp. 13 North ☐ or South ☒ Rge. 37 East ☒ or West ☐Sec. 19 SE 1/4 1/4 1/4 1/4Gov't Lot _____ County Oneida

Lat. _____ (Deg. and Decimal minutes)

Long. _____ (Deg. and Decimal minutes)

Address of Well Site 12355 N 3835 E

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

City MaladLot. _____ Blk. _____ Sub. Name Lot 4 Country Estates

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 ³)	Placement method/procedure
Bentonite	0	38	29 bags	Overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6	0	180	6"	steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 180

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Machine + torchManufactured screen ☐ Y ☐ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
40	140	1/4"	90	6	steel	.250
140	180	1/4"	120	6	steel	.250

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method

11. FLOWING ARTESIAN:

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

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 30 Static water level (ft) 25'Water temp. (°F) cold Bottom hole temp. (°F) coldDescribe access port well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
	85	

Test method:

Pump	Bailer	Air	Flowing artesian
☒	☐	☒	☐

Water quality test or comments: good

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	8	Dark Bm top soil		X
10	8	38	gravel cobbles	X	X
6	38	60	gravel cobbles	X	X
6	60	68	gravel cobbles	X	X
6	68	75	Bm clay		X
6	75	83	gravel cobbles		X
6	83	90	Bm clay		X
6	90	103	gravel cobbles	X	X
6	103	112	Bm clay		X
6	112	117	gravel cobbles	X	X
6	117	125	gravel sand	X	X
6	125	140	gravel cobbles	X	X
6	140	160	gravel cobbles Bm clay	X	X
6	160	175	cobbles in gravel Bm clay	X	X
6	175	180	Bm clay		X

RECEIVED

DEC 08 2010

Department of Water Resources
Eastern RegionCompleted Depth (Measurable): 180Date Started: 10-16-10 Date Completed: 10-28-10

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 M. J. Westfell Driller Co. No. 543Principal Driller Michael Franken Date 11-5-10Driller Miles Franken Date 11-1-10

Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Right	15-2006	N	REYNOLDS, TALIESIN	PEABODY CREEK	POD					X												0
Water Right	15-2006	N	REYNOLDS, TALIESIN	PEABODY CREEK	POU					8.0	7.0											15
Water Right	15-4085	N	GLENN, LEON	SPRING	POD							X										0
Water Permit	15-7187	N	PRICE, BLAINE	GROUND WATER	POU							15.0	30.0		10.0	35.0						25
Water Permit	15-7329	N	NALDER, LAREN M; NALDER, NALDER,	GROUND WATER	POD														X			0
Water Permit	15-7329	N	NALDER, LAREN M; NALDER,	GROUND WATER	POU														4.6			4.6
Water Permit	15-7329	N	NALDER, LAREN M; NALDER,	GROUND WATER	POU														X			0

15-7329



0 30 60 120 180 240 Feet

D. Favreau 03/23/15

NESE

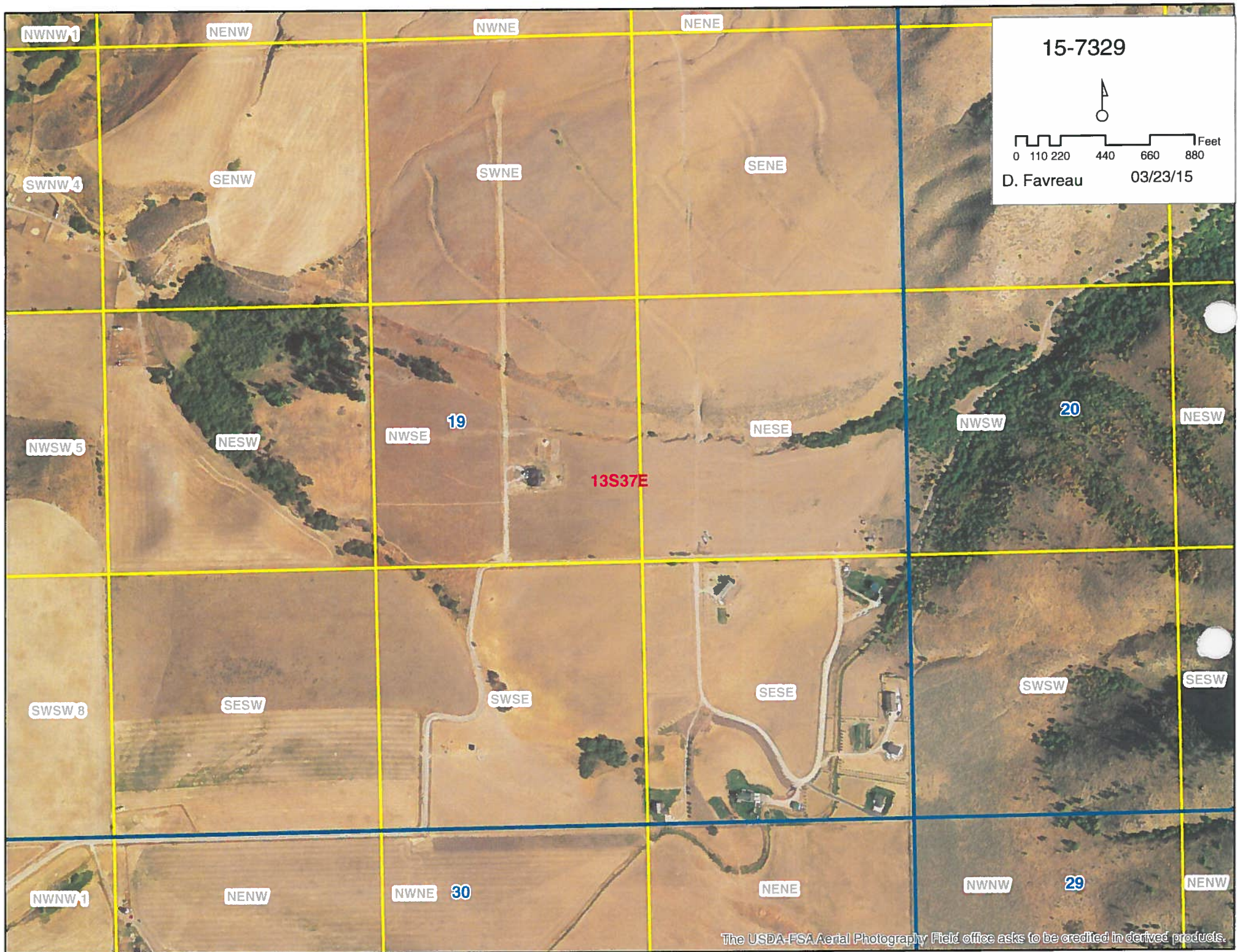
SESE

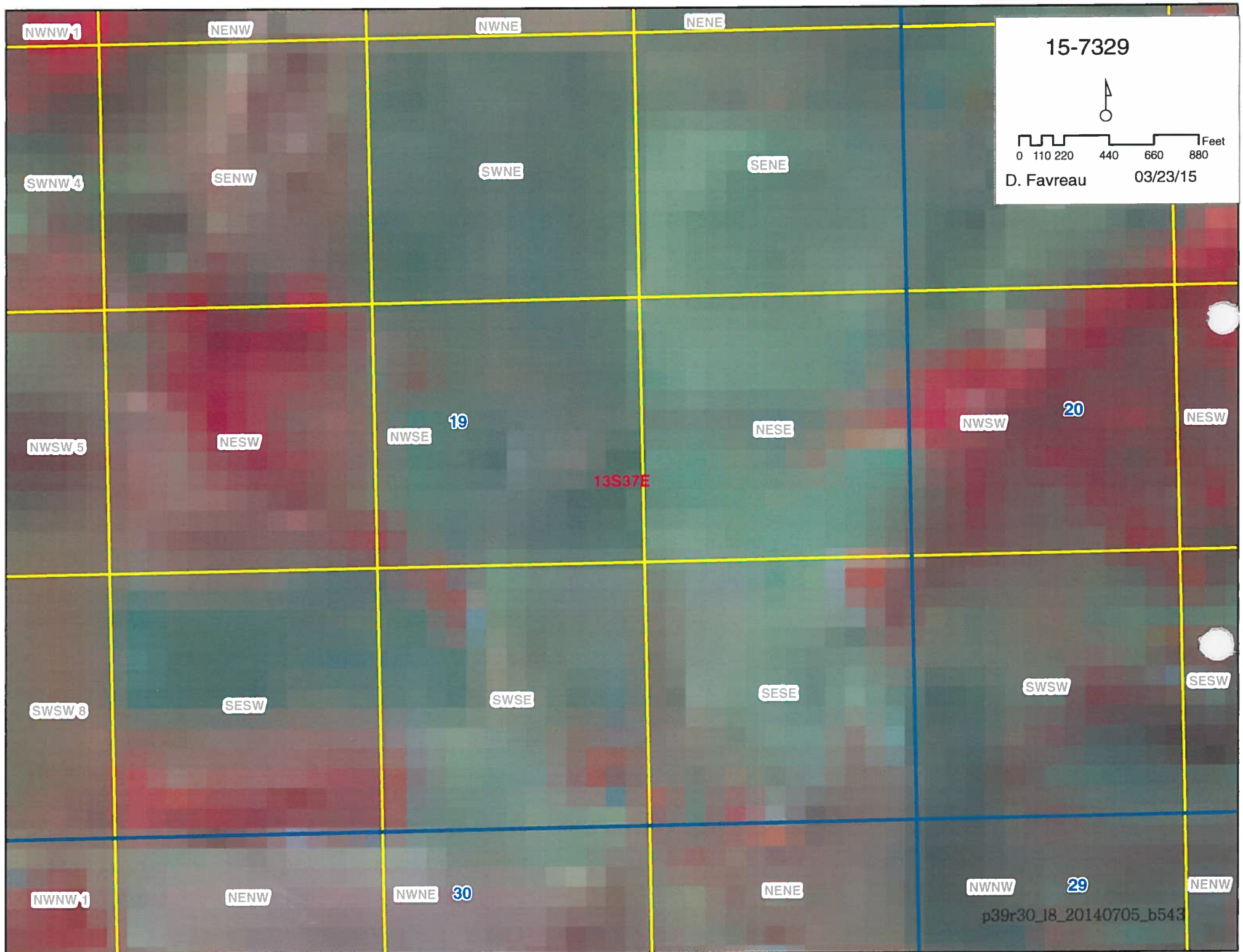
NWSE

SWSE

19

13S37E





Nelson, Dan

From: Laren Nalder [larennalder@yahoo.com]
Sent: Tuesday, April 28, 2015 7:23 AM
To: Nelson, Dan
Subject: Fwd: NALDER IRRIGATION PHOTOS
Attachments: 20150405_165707_resized_1.jpg; 20150405_165430_resized_2.jpg; 20150405_165238_resized_1.jpg

Sent from my T-Mobile 4G LTE Device

----- Original message -----

From: Laren Nalder <larennalder@yahoo.com>
Date: 04/18/2015 12:50 PM (GMT-07:00)
To: stan.nelson@idwr.idaho.gov
Cc:
Subject: NALDER IRRIGATION PHOTOS

Hi Dan

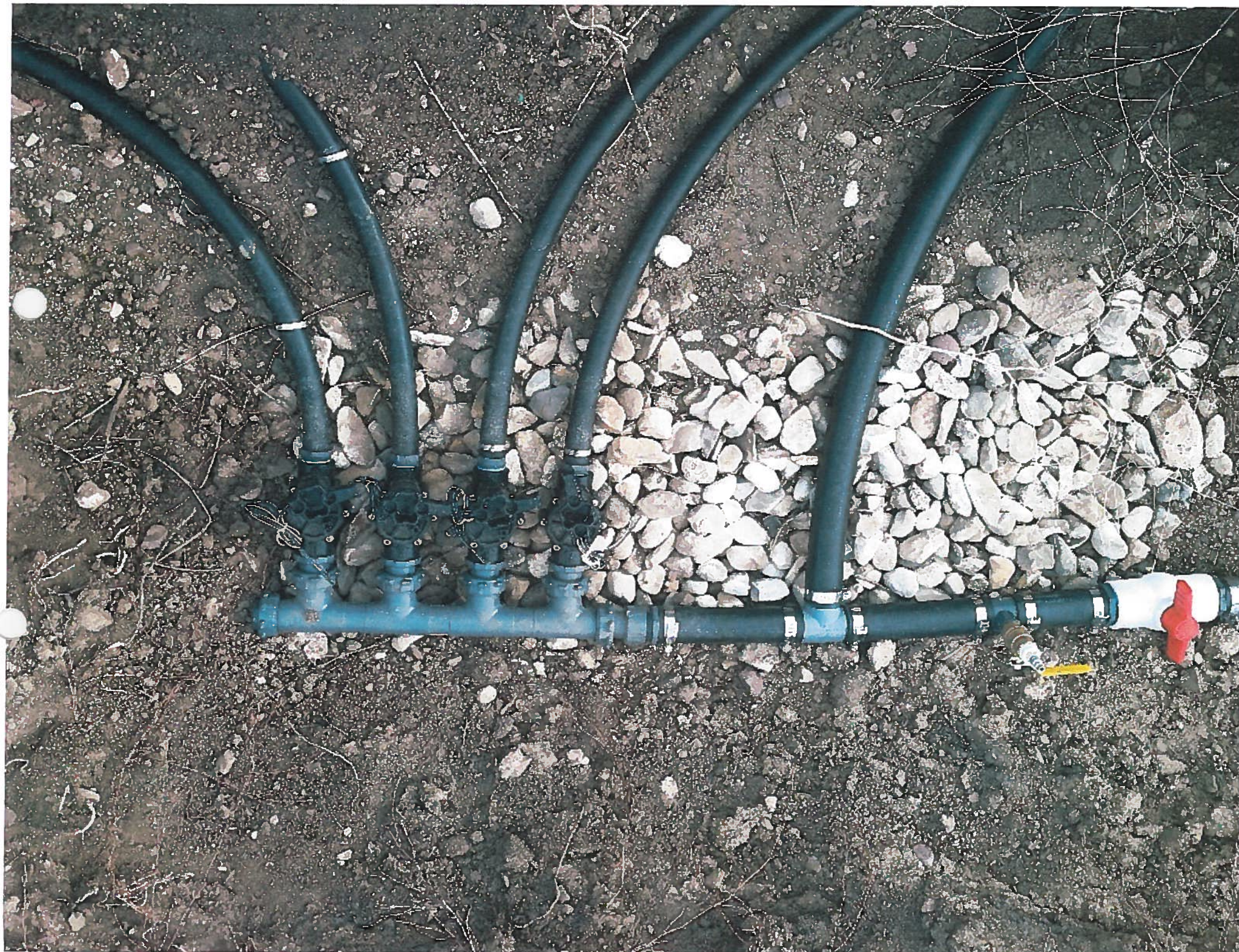
I'm sorry this has taken such a long time getting this to you, we have been having trouble getting the right email hopefully this one works.

I have attached photos of my irrigation system if you need more please let me know.
also could you please respond back so that I know whether you got it this time or not.
Thank you for your patience.

Shauna Nalder
6355 N 3835 E
Malad City, ID 83252
(208) 766-7777

Sent from my T-Mobile 4G LTE Device







MEMORANDUM

TO: File 15-7329

FROM: Daniel Nelson – Staff Hydrologist

DATE: March 25, 2015

SUBJECT: Telephone Conversation with Permit Owner.

On this date, Shauna Nalder returned a telephone call I made on March 14, 2014 concerning her water use. During the in-house field exam review, it was unclear if Ms. Nalder had irrigated her property. Ms. Nalder confirmed she has irrigated the property and has grass that is growing. She claimed that they run sheep on this pasture. She informed me that she will send me photos and a map showing the area that he is irrigating and the area that he is applying the water.