

MEMORANDUM

TO: 13-7907

FROM: Daniel A. Nelson, Staff Hydrologist

DATE: February 18, 2016

SUBJECT: Field Exam Required

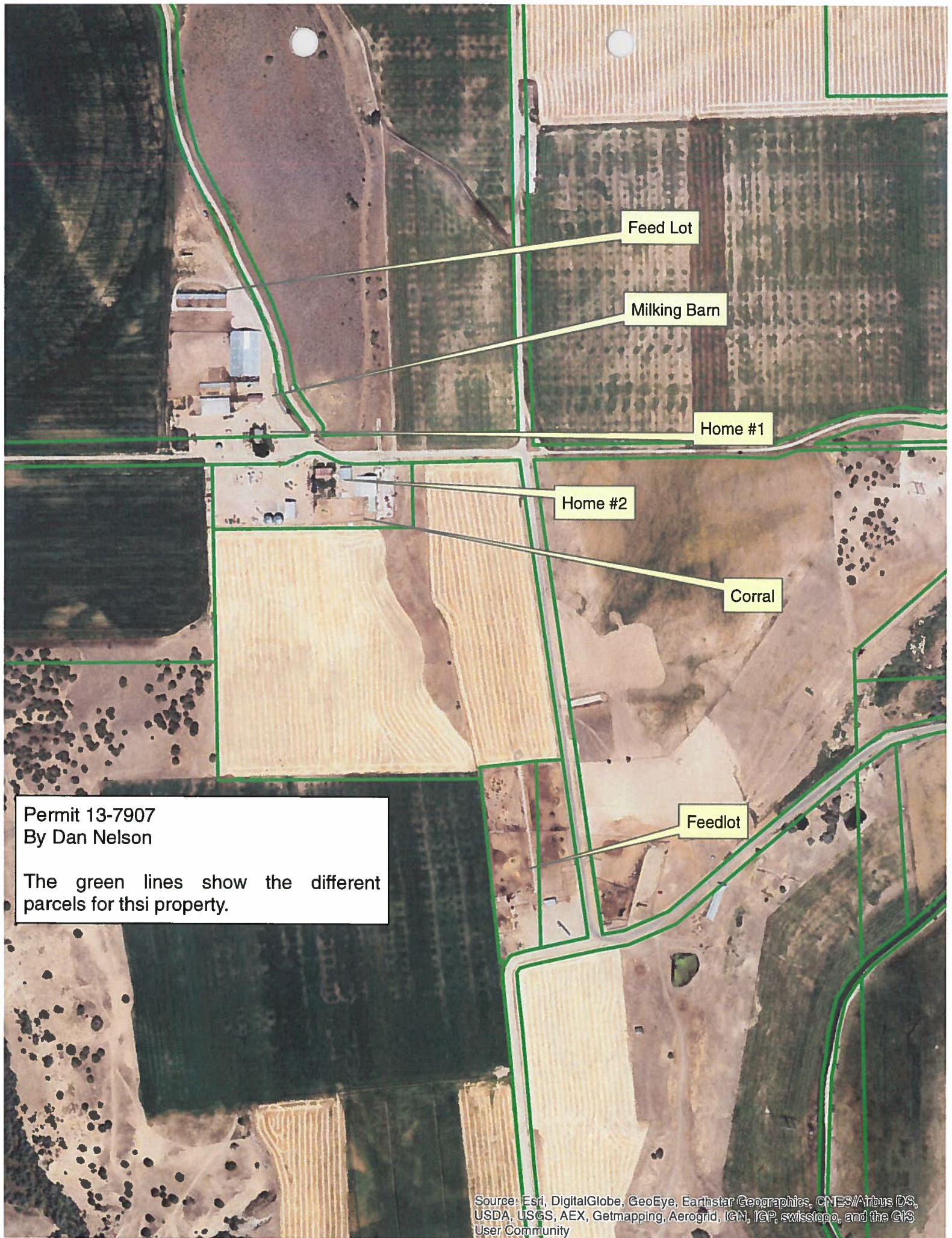
This permit was scheduled for an in-house exam at the state office. The records for this well, suggest that a field exam is necessary to determine what is actually being diverted. The water being used for this system has a top hole temperature of 155 degrees and a bottom hole temperature of 205 degrees. The permit is for stockwater and domestic use, so we don't know if it is possible to cool the water enough to provide stockwater, in-house use, and yard irrigation without some type of cooling unit, or do they mix the well water with the spring water they use.

The well driller's report also says that the well yields 6 to 8 gpm. The permit is for 0.06 cfs or 27 gpm. The question needs to be answered whether or not they pump the well with a pump capable of 27 gpm for a shorter period of time or do they have a smaller pump that runs a longer period of time.

Another question is how are they supplying water to the dairy barn? There is a dairy barn on site, but there are no commercial water rights. How are they supplying commercial use water to the dairy?

With these questions, we need to go to the property and figure out what exactly is happening at this site. I have included some maps and well information with this memo.

No. W 15328	Due no later than May 31, 2015 Annual Report Form		2. Registered Agent and Address (NO PO BOX)			
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF RECEIVED BY DUE DATE			DAVID BOSEN 2545 W 2400 N PRESTON 83263			
	1. Mailing Address: Correct in this box if needed. BOSEN LAND & LIVESTOCK, L.L.C. GOLDIE G BOSEN 2545 W 2400 N PRESTON ID 83263 USA		3. <u>New</u> Registered Agent Signature:*			
4. Limited Liability Companies: Enter Names and Addresses of at least one Member or Manager.						
Office Held	Name	Street or PO Address	City	State	Country	Postal Code
MANAGER	DAVID S BOSEN	2545 W 2400 N	PRESTON	ID	USA	83263
MEMBER	GOLDIE BOSEN	2545 W 2400 N	PRESTON	ID	USA	83263
5. Organized Under the Laws of: ID W 15328		6. Annual Report must be signed.* Signature: Goldie Bosen Name (type or print): Goldie Bosen Date: 03/25/2015 Title: Secretary				
Processed 03/25/2015		* Electronically provided signatures are accepted as original signatures.				



Permit 13-7907
By Dan Nelson

The green lines show the different
parcels for thsi property.



D0063559

AIR ROTARY & CABLE TOOL DRILLING • PUMPS

"Our Water Is Well Made"

Dave Bosen
Drilling prospectus

Preston, ID

1-800-499-3788
(208) 684-3788
FAX (208) 684-3582

692 A W. HWY. 39
BLACKFOOT, ID 83221

14" Bore Hole 40'-
10" Bore Hole 200'-
10" casing cemented 0-40'-
6" casing cemented 0-200'-
open Hole 6" 200'- 240'-

Conductor Pipe
10" 40'

14" Bore
Hole
40'

6" casing
cement grout
seal 0-40'

10" Bore Hole

0-17 Topsoil & Broken rock
17-32 Brown clay
32-46 Green shale firm
46-61 Brown clay
61-64 green shale
64-78 Brown clay
78-86 Broken green shale
86-88 Hard green shale
88-93 fractured green shale
93-95 Hard green shale
95-122 fractured green shale
122-131 Brown clay & shale
131-174 Brown clay trace shale
174-240 Dark green firm
240-240 fractured green shale firm
Trace H₂O @ 150-160'-
1-26pm Temp 65°

200'

open
Bore Hole

cement
grout seal
0-200'

H₂O @ 215-240
8-10 6pm Temp 97°

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0065884

Drilling Permit No. _____
Water right or injection well # 13-07907

2. OWNER:

Name David Bosen
Address 2545 West 2400 North
City Preston State ID Zip 83263

3. WELL LOCATION:

Twp. 15 North ☐ or South ☒ Rge. 39 East ☒ or West ☐
Sec 7 1/4 NE 1/4 NE 1/4

Gov't Lot _____ County Franklin
Lat 42 ° 08.372 (Deg. and Decimal minutes)
Long 111 ° 56.220 (Deg. and Decimal minutes)
Address of Well Site 2545 West 2400 North

City Preston
(Give at least name of road - Distance to Road or Landmark)
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 ft³)	Placement method/procedure
Neat Cement	-176'	-260'	.75 yards	Pumped

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Knife
Manufactured screen ☐ Y ☒ N Type _____
Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
-160'	-170'	1/4x6	3	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 ft³)	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) _____ Static water level (ft) 130
Water temp. (°F) 155 Bottom hole temp. (°F) 205
Describe access port Well Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
	6-8	60

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☒	☐

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	
				Y	N
			Modify Existing Well D0063559		
			Highest temperature recorded after well developed was 155° at the surface.		

Completed Depth (Measurable): 176

Date Started: Jan 28, 2015 Date Completed: Jan 30, 2015

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 Independent Drilling / KC Co. No. 343
*Principal Driller Rodney J. ... Date Feb 10, 2015
*Driller _____ Date _____
*Operator II Keith ... Date Feb 4, 2015
Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.