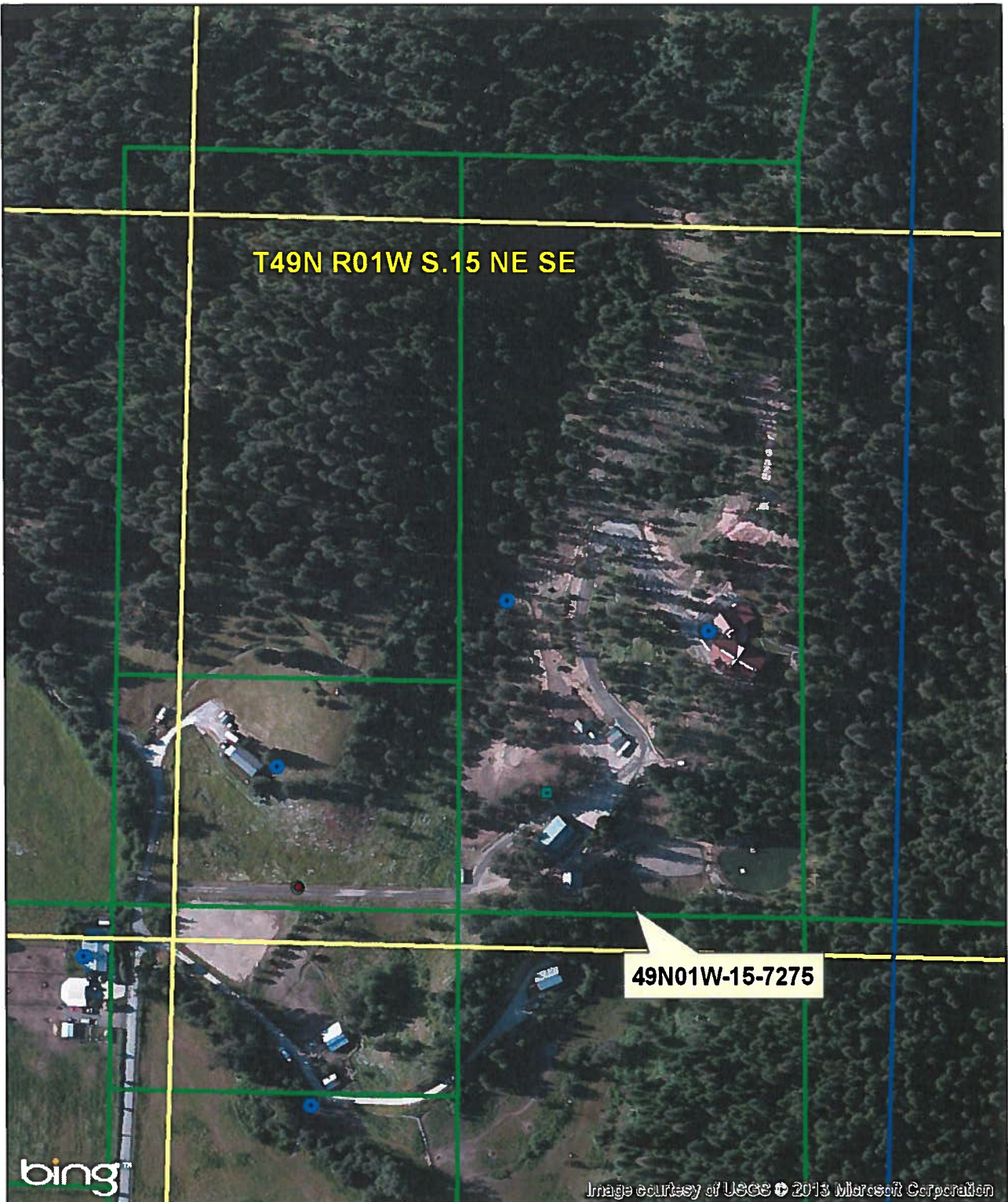


94-8056 FERGUSON PIN 49N01W15NESE



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0058179

Drilling Permit No. 859464

Water right or injection well # _____

2. OWNER:

Name Don Ferguson

Address 9198 S. Fern Creek Rd

City Cataldo State Id Zip 83810

3. WELL LOCATION:

Twp. 49 North ☒ or South ☐ Rge. 01 East ☐ or West ☒

Sec. 15 NE 1/4 SE 1/4 1/4

Gov't Lot _____ County Shoshone

Lat. N47° 35.542 (Deg. and Decimal minutes)

Long. W116° 26.381 (Deg. and Decimal minutes)

Address of Well Site 9198 S. Fern Creek Rd

City Cataldo

(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 ft ³)	Placement method/procedure
Bentonite	0	40	31-50 lb. bags	Overbored

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8	+16	40	288	Steel	☒	☐	☐	☒
4	-25	185	36.40	PVC	☐	☒	☒	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 40'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☐ N Method _____

Manufactured screen ☒ Y ☐ N Type Factory-Slotted

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
-185	-165	.015	20'	4"	PVC	Sch. 40

Length of Headpipe N/A Length of Tailpipe N/A

Packer ☐ Y ☒ N Type N/A

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
None				

11. FLOWING ARTESIAN:

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

Describe control device N/A

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 85' Static water level (ft) 85'

Water temp. (°F) _____ Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Test method:
	<u>100+</u>	<u>4 Hours</u>	Pump ☐ Bailor ☐ 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
12	0	11	Red Clay		X
12	11	23	Weathered Shale		X
12	23	40	Shale		X
6	40	85	Shale		X
6	85	87	Fractured Shale (5-GPM)	X	
6	87	123	Shale		X
6	123	129	Fractured Shale 5 GPM	X	
6	129	181	Shale		X
6	181	185	Fracture Shale (100 GPM)	X	

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JUL 21 2010

IDWR/North

Completed Depth (Measurable): 185'

Date Started: 7-9-10 Date Completed: 7-13-10

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 Horsley Drilling Co. No. 632

*Principal Driller C-Mark Horsley Date 7-13-10

*Driller _____

*Operator II _____

Operator I _____

* Signature of Principal Driller and rig operator are required.

SCANNED

APR 25 2013

49N 01W 15



**Northwest
Hydro-Fracturing**

Increasing Water Well Yield



Permit No. P33248 #822626
Tag No. D0003198

FRACTURING LOG

1. OWNER NAME: Don Ferguson
Address: 9198 S Fern Creek Rd Cataldo, ID 83810

Total depth 240

Diameter 6"

2. TYPE OF WORK: Hydrofracturing

3. WELL TESTS:

Yield: gal./min. with ft. drawdown after Hrs.
Pre-frac: _____

Post-frac: _____

4. HYDRO-FRACTURING LOG

168 -210

210 - bottom

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SEP - 7 2004

IDWF North

5. FRACTURER'S STATEMENT:

This well was hydro-fractured under my jurisdiction and this report is true to the best of my knowledge and belief.

Company Name Northwest Hydro-Fracturing

Address 13812 W Lincoln Rd Spokane, WA 99224

Signed *Raymond R. Rasmussen*

Date Job was done 8/5/04

6. LOCATION OF WELL: County Kootenai
NE 1/4 SE 1/4 Sec. 16 T 49N N, R 1W WM