



IDAHO DEPARTMENT OF
WATER RESOURCES

BRBA FIELD EXAMINATION REPORT

Claim Number: 11-4079

Exam Date: 7/15/2026

Exam Time: 9:00 AM

IDWR Staff Present: Brian Wunsch & Christian Stewart.

Claimant/Representative Present: Mike Derricott (claimant).

☐ **No**

☒ **Yes**

Exam Location: 0.84 miles west on Derricott Lane from HWY 36, Montpelier.

Examiner's Signature:



Purpose of Exam: Verify PODs, diversion works, and diversion rate.

Conclusion of Exam:

The PODs and diversion works were verified. Manning's equation was used to calculate a theoretical rate of diversion. The calculated rate (1.90 cfs) exceeds the recommended rate (1.02 cfs).

Exam Narrative:

We met Mike at his property on Derricott Lane. We drove across his fields and stopped at each source, diversion point, and pond to get an understanding of how his systems function. GPS points were taken to verify places of interest back in the office. Measurements were taken for theoretical flow calculations. Both of the spring sites were degraded from cattle trampling, so no measurements could be taken on-stream.

Explanation of Elements not Examined:

- ☐ **POD:**
- ☒ **POU:** Aerial imagery was used to verify irrigated acres.
- ☐ **Quantity:**
- ☐ **Other:**

Amendments Needed:

- ☒ **No**
- ☐ **Yes:**

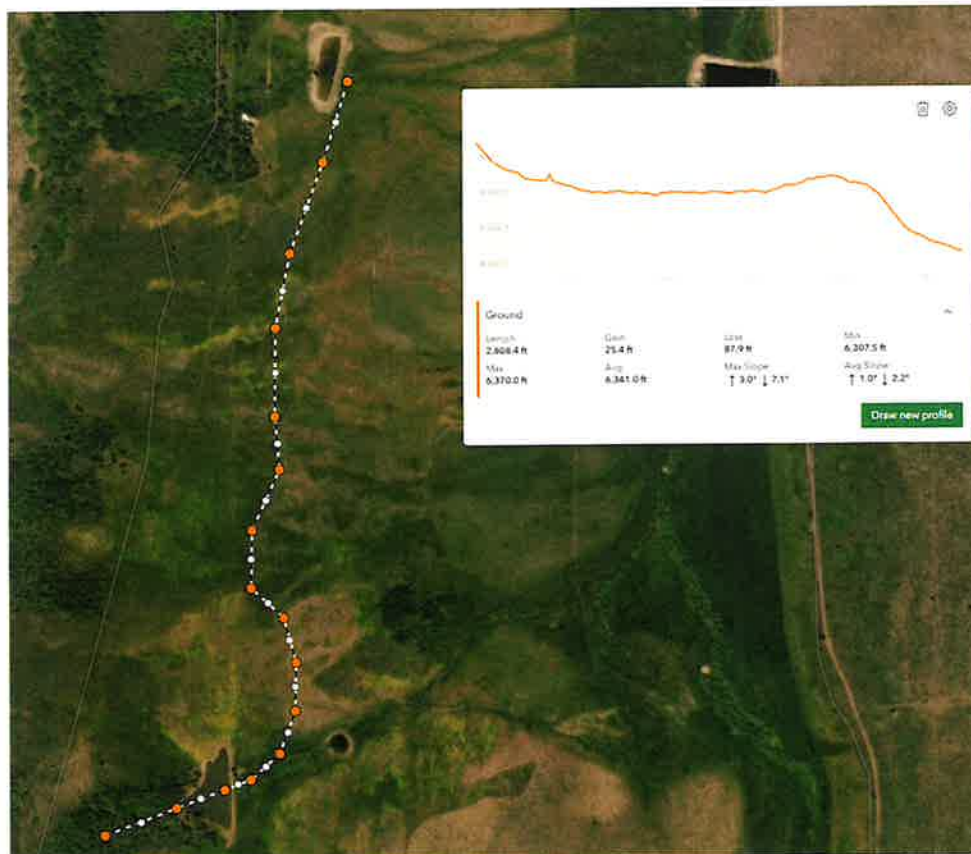
Flow/Volume Calculations:

South system:

Manning's Equation Calculator for Flow Rate in a Circular Conduit Flowing Full

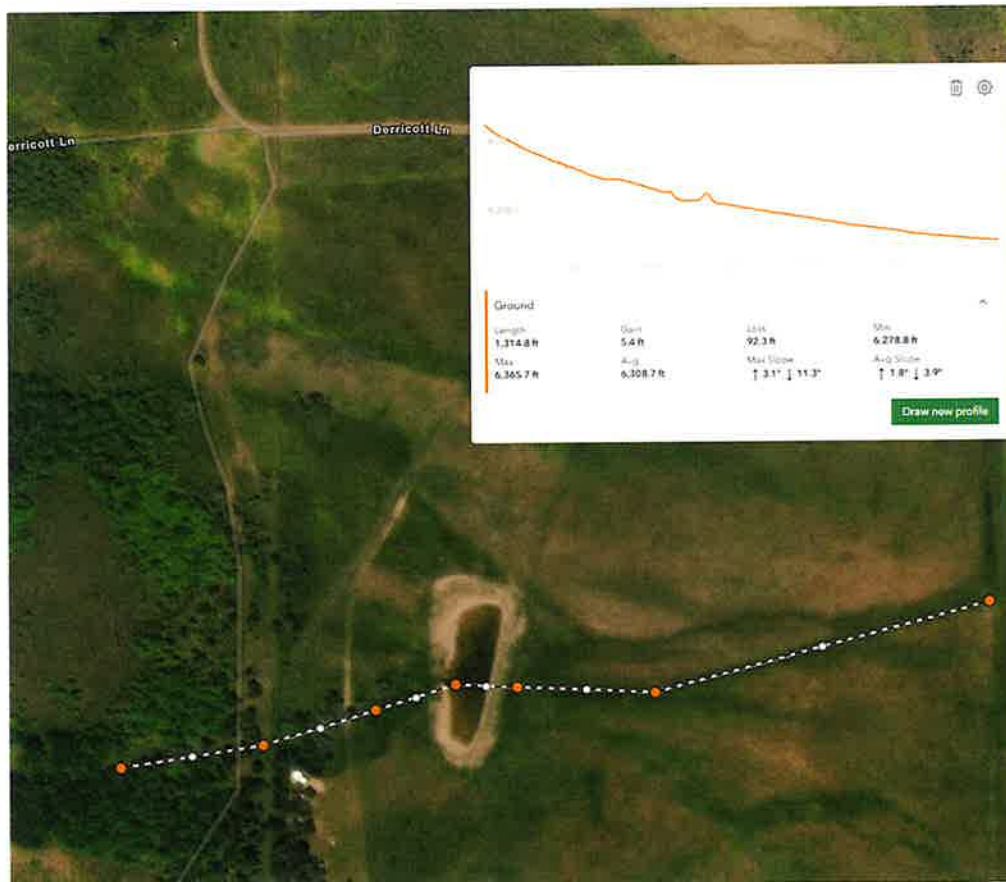
$S = 0.0223$ ft/ft
 $n = 0.009$ manning's coefficient
 $d = 6.0$ pipe diameter (inches)
 $D = 0.50$ pipe diameter (feet)
 $r = 0.25$ pipe radius (feet)
 $A = 0.20$ area (ft²)
 $WP = 1.57$ wetted perimeter (ft)
 $R = 0.13$ hydraulic radius (ft)

$Q = 1.20$ flow rate (CFS)

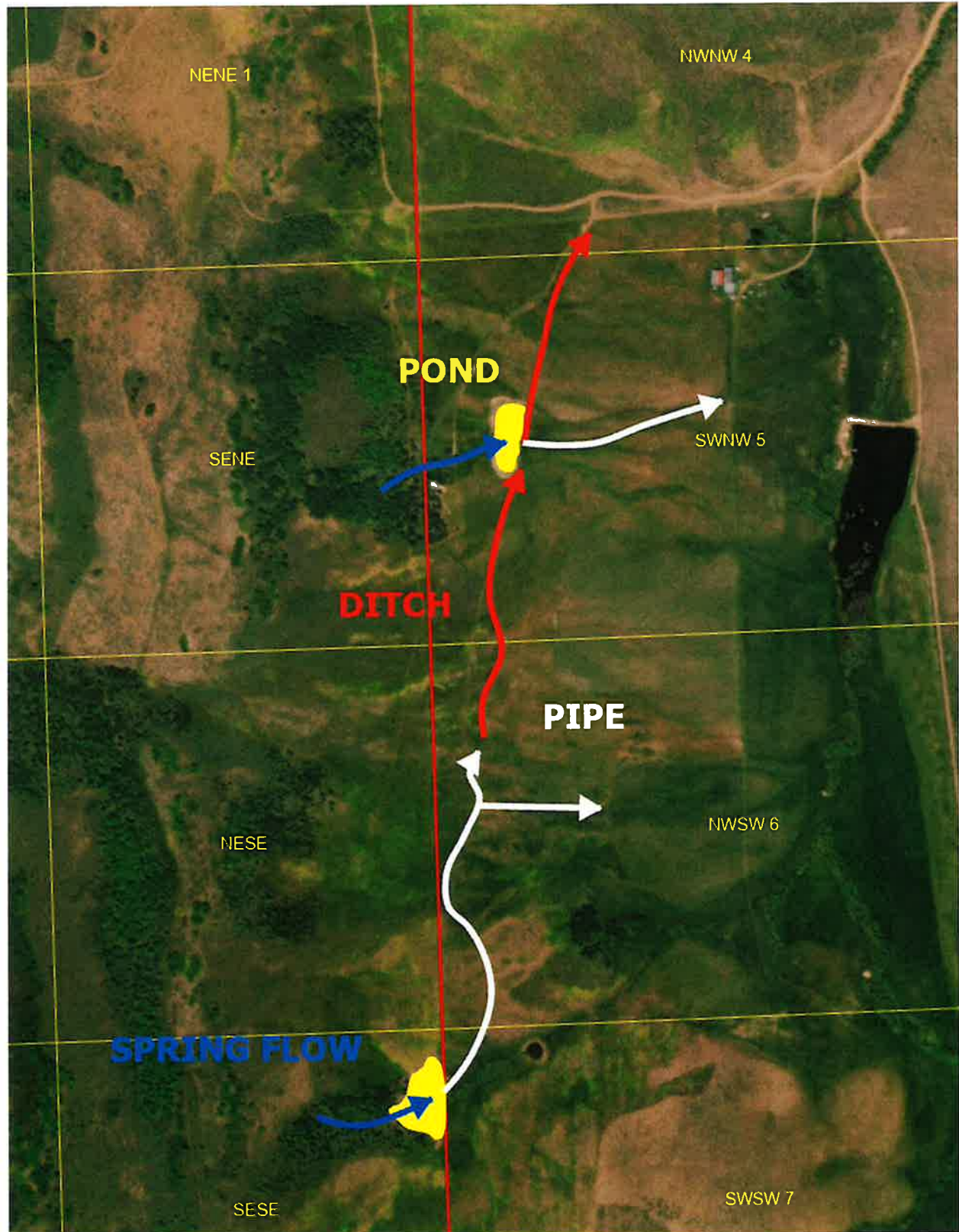


North system:

Manning's Equation Calculator for Flow Rate in a Circular Conduit Flowing Full	
S =	0.0661 ft/ft
n =	0.009 manning's coefficient
d =	4.0 pipe diameter (inches)
D =	0.33 pipe diameter (feet)
r =	0.17 pipe radius (feet)
A =	0.09 area (ft ²)
WP =	1.05 wetted perimeter (ft)
R =	0.08 hydraulic radius (ft)
Q = 0.70 flow rate (CFS)	



System Map:



Photos:



Photo 1: South pond.



Photo 2: South pond flush valve.



Photo 3: South pond valve to pipeline.



Photo 4: Pipeline from south pond.



Photo 5: Transition from pipeline to open ditch originating from south pond.



Photo 6: North pond.

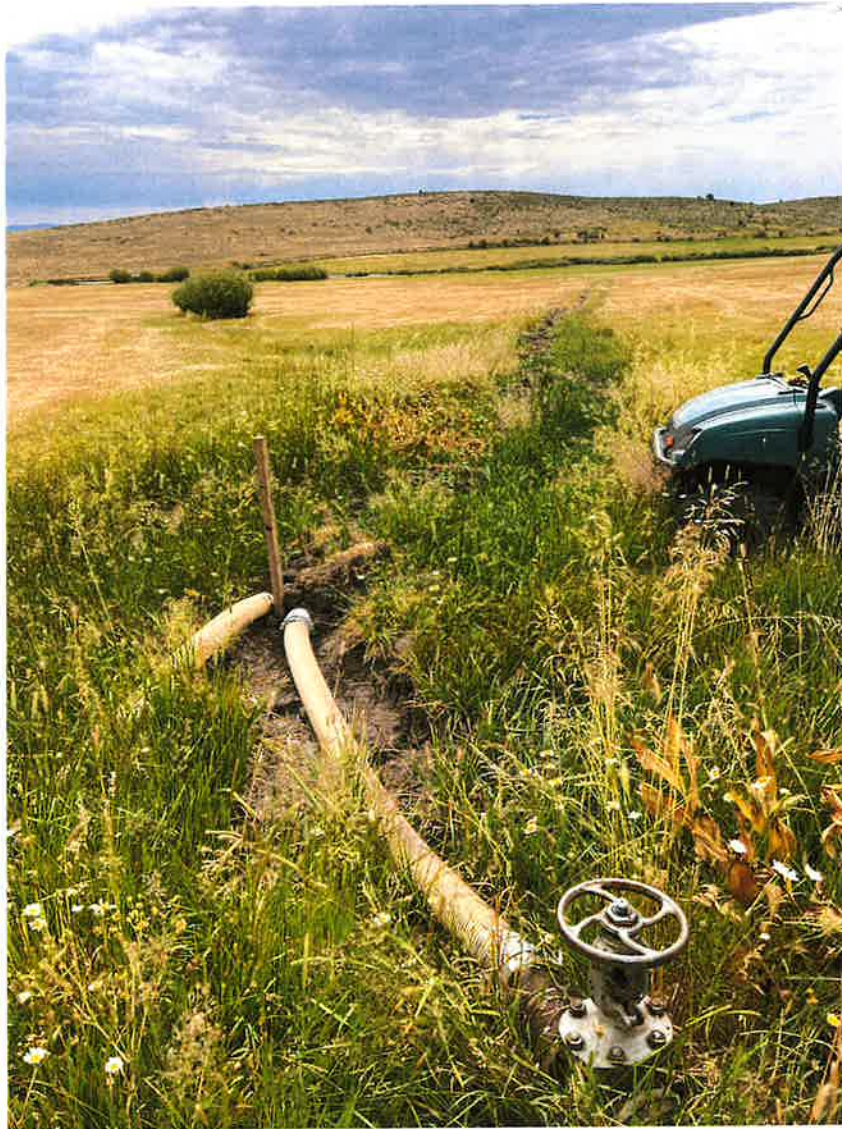


Photo 7: Valve to pipeline from north pond.