

MONTANA WELL LOG REPORT

Form No. 603 R2-99

Well ID#

This log reports the activities of a licensed Montana well driller and serves as the official record of work done within the borehole and casing and describes the amount of water encountered. This form is to be completed by the driller and filed with DNRC within 60 days of completion of the work. Acquiring Water Rights is the well owner's responsibility and is not accomplished by the filing of this report. Well log information is stored in the Groundwater Information Center at the Montana Bureau of Mines and Geology (Butte) and water right information is stored in the Water Rights Bureau records (Helena). For fields that are not applicable, enter NA. *Optional fields are in italics.* Record additional information in the REMARKS section.

1. WELL OWNER:

Name Kevin Finn
 Mailing address P.O. Box 130 APO, AP

2. WELL LOCATION: List ¼ from smallest to largest

_____ ¼ _____ ¼ _____ ¼ _____ ¼, Section 24
 Township 26 N/S Range 19 EW County Lake
 Lot 11,12 (Tract)/Blk 1 Subdivision Name Swan Terrace Shores
 Well Address _____
 GPS Yes No
 Latitude _____ Longitude _____
 Error as reported by GPS locator (± feet)
 Horizontal datum NAD27 WGS84

3. PROPOSED USE: Domestic Stock Irrigation
 Public water supply Monitoring Well Other: _____

3. TYPE OF WORK:

New well Deepen existing well Abandon existing well
 Method: Cable Rotary Other: _____

5. WELL CONSTRUCTION DETAILS:

Borehole:
 Dia. 10 in. from 0 ft. to 35 ft.
 Dia. 6 in. from 35 ft. to 58 ft.
 Dia. _____ in. from _____ ft. to _____ ft.

Casing:
 Steel: Wall thickness .250 Threaded X Welded
 Dia. 6 5/8 in. from +2 ft. to 58 ft.
 Dia. _____ in. from _____ ft. to _____ ft.

Plastic: Pressure Rating _____ lbs. Threaded Welded
 Dia. _____ in. from _____ ft. to _____ ft.

Perforations/Slotted Pipe:

Type of perforator used _____
 Size of perforations/slots _____ in. by _____ in.
 _____ no. of perforations/slots from _____ ft. to _____ ft.
 _____ no. of perforations/slots from _____ ft. to _____ ft.

Screens: Yes No

Material _____
 Dia. _____ Slot size _____ from _____ ft. to _____ ft.
 Dia. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel Packed: Yes No

Size of gravel _____
 Gravel placed from _____ ft. to _____ ft.

Packer: Yes No

Type _____ Depth(s) _____

Grout: Material used Bentonite

Depth from 0 ft. to 25 ft. OR Continuous feed

6. WELL TEST DATA:

A well test is required for all wells. (See details on well log report cover.)
 Static water level 22 ft. below top of casing or
 Closed-in artesian pressure _____ psi.
 How was test flow measured:
 bucket/stopwatch, weir, flume, flowmeter, etc _____

Yellowstone groundwater closure area only - Water Temperature _____ °F

AQUIFER TEST DATA FORM ATTACHED

Test - 1 hour minimum

Drawdown is the amount water level is lowered below static level.

All depth measurements shall be from the top of the well casing.
 Time of recovery is hours/minutes since pumping stopped.

Air test*

50 gpm with drill stem set at 54 ft. for 2 hours
 Time of recovery 5 hrs/min. Recovery water level 22 ft.

OR Bailer test*

_____ gpm with _____ ft. of drawdown after _____ hours
 Time of recovery _____ hrs/min. Recovery water level _____ ft.

OR Pump test*

Depth pump set for test _____ ft.
 _____ gpm pump rate with _____ ft. of drawdown after _____ hrs pumping
 Time of recovery _____ hrs/min. Recovery water level _____ ft.

OR Flowing Artesian*

_____ gpm for _____ hours
 Flow controlled by _____

*During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.

7. WELL LOG:

Depth, Feet		Material:
From	To	Color/rock and type/descriptor (example: blue/shale/hard, or brown gravel/water, or brown/sand/heaving)
0	12	Tan clay, sand gravel & boulders
12	35	Tan clay, sand and gravel
35	58	Sand, gravel & water 50 GPM

RECEIVED**APR 15 2004****M.B.M.G.**

ADDITIONAL SHEETS ATTACHED

8. DATE WELL COMPLETED: 04/12/04

9. REMARKS: _____

10. DRILLER/CONTRACTOR'S CERTIFICATION:

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name, firm, or corporation (print) Cyclone Drilling Inc.
 Address 14953 East Lake Shore, Bigfork, MT 59911
 Signature Butch Tiemyer
 Date 04/13/04 License no. 583



Montana Department of
ENVIRONMENTAL **Q**UALITY

Judy Martz, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • www.deq.state.mt.us

November 27, 2002

Bob Fulton
217 Main Street
Polson Montana 59860

RE: **Swan Terrace Shores Lots 11 & 12**
Amended Creating Lindseth Tract 1
Lake County
E.Q. #03-1571

Dear Mr. Fulton:

The plans and supplemental information relating to the water supply, sewage, solid waste disposal, and storm drainage (if any) for the above referenced division of land have been reviewed as required by ARM Title 17 Chapter 36(101-805) and have been found to be in compliance with those rules.

Two copies of the Certificate of Subdivision Plat Approval are enclosed. The original is to be filed at the office of the county clerk and recorder. The duplicate is for your personal records.

Development of the approved subdivision may require a General Discharge Permit for Storm Water Associated with Construction Activity. Please contact Brian Heckenberger at (406) 444-5310 for more information. Failure to obtain this permit (if required) prior to development can result in significant penalties.

Your copy is to inform you of the conditions of the approval. Please note that you have specific responsibilities according to the plat approval statement primarily with regard to informing any new owner as to any conditions that have been imposed.

If you wish to challenge the conditions of this Certificate of Subdivision Plat Approval, you may request a hearing before the Board of Environmental Review or the Department, pursuant to Section 76-4-126, MCA and the Montana Administrative Procedures Act.

If you have any questions, please contact this office.

Sincerely,

Brenda K. Jackson
for

Bonnie Lovelace, Chief
Water Protection Bureau

BL/bkj

cc: County Sanitarian
County Planning Board

STATE OF MONTANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
CERTIFICATE OF SUBDIVISION APPROVAL
(Section 76-4-101 through 76-4-131, MCA 1995)

TO: County Clerk and Recorder
Lake County
Polson, Montana

E.Q. #03-1571

THIS IS TO CERTIFY THAT the plans and supplemental information relating to the subdivision known as **Swan Terrace Shores Lots 11 & 12 Amended Creating Lindseth Tract 1**

A Tract of land located in Government Lot 3, Section 24, Township 26 North,
Range 19 West, P.M.M., Lake County, Montana

consisting of 1 Lot reviewed by personnel of the Permitting and Compliance Division, and,

THAT the documents and data required by ARM Chapter 17 Section 36 have been submitted and found to be in compliance therewith, and,

THAT the approval of the Plat is made with the understanding that the following conditions shall be met:

THAT the Tract size as indicated on the Plat to be filed with the county clerk and recorder will not be further altered without approval, and,

THAT this approval supersedes the October 3, 1969 Lake County Swan Terrace Shores Subdivision Plat for Lots 11 and 12 only, and all copies of the 1969 Plat should be marked Lindseth Tract 1 across both lots 11 & 12 with notes that EQ#03-1571 supersedes the original plat approval, and

THAT the Tract shall be used for one single-family dwelling, and,

THAT individual water system will consist of a **well cased to a minimum depth of 70 feet** constructed in accordance with the criteria established in Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM and the most current standards of the Department of Environmental Quality, and,

THAT data provided indicates an acceptable water source at a depth of approximately 70 feet, and,

THAT the individual sewage treatment system will consist of a 2000 gallon dual compartment septic/dose tank, a 18 foot by 18 foot intermittent sand filter, and a pressure-dosed subsurface drainfield of such size and description as will comply with Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM, and,

THAT the pressure-dosed subsurface drainfield shall have 3 laterals measuring 27 feet long and 3 foot wide to provide a total absorption area of 243 square feet, and,

THAT the bottom of the drainfield shall be at least four feet above the water table, and,

THAT water supply systems, sewage treatment systems and storm drainage systems will be located as shown on the approved plans, and,

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Swan Terrace Shores Lots 11 & 12 Amended
Creating Lindseth Tract 1
EQ # 03-1571

THAT no sewage treatment system shall be constructed within 100 feet of the maximum highwater level of a 100 year flood of any stream, lake, watercourse, or irrigation ditch, nor within 100 feet of any domestic water supply source, and,

THAT all sanitary facilities must be located as shown on the attached lot layout, and,

THAT the developer and/or owner of record shall provide the purchaser of property with a copy of the Plat, approved location of water supply and sewage treatment system as shown on the attached lot layout, and a copy of this document, and,

THAT instruments of transfer for this property shall contain reference to these conditions, and,

THAT plans and specifications for any proposed sewage treatment systems will be reviewed and approved by the county health department and will comply with local regulations and ARM, Title 17, Chapter 36, Subchapters 3 and 9, before construction is started.

THAT departure from any criteria set forth in the approved plans and specifications and Title 17, Chapter 36, Sub-Chapters 1, 3, and 6 ARM when erecting a structure and appurtenant facilities in said subdivision without Department approval, is grounds for injunction by the Department of Environmental Quality.


Pursuant to Section 76-4-122 (2)(a), MCA, a person must obtain the approval of both the State under Title 76, Chapter 4, MCA, and local board of health under section 50-2-116(1)(i), before filing a subdivision plat with the county clerk and recorder.

YOU ARE REQUESTED to record this certificate by attaching it to the Plat filed in your office as required by law.

DATED this 27th day of November, 2002.

JAN P. SENSIBAUGH
DIRECTOR

By: _____


Bonnie Lovelace, Chief
Water Protection Bureau
Permitting and Compliance Division
Department of Environmental Quality

Owner's Name: Daniel W. Lindseth