WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

Log No. 4611
Rec. July 15 1959
Well No.
Permit No.
Do not fill in

Owner Howard O. Shellhamer Driller J.C. Faretto & Son
Address Box 26, Steamboat, Nevada Address 736 Humbold St; Reno Lic. No. 2
Location of well: SE ¼ NW ¼ Sec. 4, T. 17 N/8, R. 20 E, in Steamboat Valley, Washoe County
or East of Reno-Carson Hwy about ½ mile south of Steamboat.
Water will be used for Domestic Total depth of well 37 ft.
Size of drilled hole 6 inch Weight of casing per linear foot 12.89 Lbs.
Thickness of casing .188 of an inch Temp. of water 58°
Diameter and length of casing Diam O.D. 6 5/8". 3'-10" to 11'-10" lengths.
(Casing 12" in diameter and under give inside diameter; casing 12" in diameter give outside diameter.)
If flowing well give flow in c.f.s. or g.p.m. and pressure
If nonflowing well give depth of standing water from surface 0'-09"
If flowing well describe control works
(Type and size of valve, etc.)
Date of commencement of well June 11, 1959 Date of completion of well June 17, 1959
Type of well rig Speed Star 71 Cable Tool Rig

LOG OF FORMATIONS

From feet	To feet	Thickness feet	Type of material
0	6	6	Black soil.
6	18	12	1st water. Granite sand with soil.
18	20	2	Black sticky soil with sand.
20	34	14	2nd water, Black clay with fine to coarse sand. Stony.
34	35	2	Blue clay.
35	37	2	3rd water. Fine to coarse sand, silty, mica, and gravel.

(OVER)

Water-bearing Formation, Casing Perforations, Etc.

Chief aquifer (water-bearing formation)
from 35 to 37 ft.
Other aquifers

First water at 6 feet.

Casing perforated
from to ft.

Size of perforations

919

LOG OF FORMATIONS—*Continued*

From feet	To feet	Thickness	Type of material

CASING RECORD

Diam. casing	From feet	To feet	Length	"Remarks"—Seals, Grouting, Etc.
6"	0'-06"	34'-08"	35'-02"	6 5/8" O.D. Black pipe. Welded with 1/4"x3" couplings. Short pattern drive shoe. Grouted casing with clay.

GENERAL INFORMATION—Pumping Test, Quality of Water, Etc.

Sand granite, some black material. Cleaned well with air 8 gal. per minute 14 ft pumping level. Well pronounced safe, no harmful bacteria.

WELL DRILLER'S STATEMENT

This well was drilled under my jurisdiction and the above information is true to my best information and belief.

Signed J.C. Faretto & Son
Well Driller

By Harold J. Faretto

License No. 2

Dated June 30, 1959

(Not to be filled in by Driller)

1959 JUL 15 AM 9 08

ENGINEER

DENIED

REPORT ON WATER ANALYSIS

Water analysis on old well. This well was not drilled by J.C. Faretto & son.

At the time well was drilled, I believe M.B. Peterson was the owner. At present the owner is Howard O. Shellhamer. There are three reports on this old well. I believe it was drilled to 40 ft. or more in depth.

Laboratory # 17832	State of Nevada Department of Food
Jan. 2, 1951	and Drugs
Results:	
Suspended Matter:	Slight
Organic Matter:	None
Sediment:	Considerable-principally iron
Color:	Slightly turbid
Odor:	None
Total Solids	335 ppm
Iron	present
Carbonate	0 ppm
Bicarbonate	329 ppm
Chloride	11 ppm

Laboratory # 18714	State of Nevada Department of Food
Sept. 10, 1952	and Drugs.
Results:	
Suspended Matter:	Turbid
Color:	Turbid
Sediment:	Iron-like
Total Solids	362 ppm
Iron	Present
Carbonate	0 ppm
Bicarbonate	373 ppm
Sulfate	trace
Chloride	16 ppm

Howard O. Shellhamer is now the present owner.

Laboratory # 19734	State of Nevada Department of Food
Aug. 19, 1954	and Drugs.
Results:	
Suspended Matter:	Some
Organic Matter:	None
Sediment:	Heavy Fe 2 0 3
Color:	None
Odor:	None
Total Solids	328 ppm
Carbonate	0 ppm
Bicarbonate	160 ppm
Chloride	38 ppm

Remarks: Should use settling tank to settle out iron.
Moderately mineralized.

REPORT ON WATER ANALYSIS

Water Analysis on new well drilled by J.C. Paretto & son.
June 16, 1959 submitted by Howard O. Shellhamer.
Reported June 24, 1959.
Water examined for bacterial polution to the Nevada State Department of Health. Pronounced safe.

Remarks: Chemical analysis of this water sample indicates total iron in an amount not recommended for domestic use according to the U.S. Public Health Service Drinking Water Standards. If the iron, turbidity and sediment can be removed, this water may prove satisfactory for general domestic use.

Laboratory # 22335 — State of Nevada Department of Food and Drugs.

Total Dissolved Solids Solids:		292 ppm
Total Iron (Fe):		1.4 ppm
Turbid:		Turbid
Sediment:		Small amount
Hardness as Ca CO 3:		Gray Tan
Non-Carbonate		0 ppm. Total 180 ppm.
	PPM	EPM
CA	41.6	2.08
MG	18.5	1.52
NA	(26	1.12)
K	(calculated)	
Cation Totals:		
CO 3	0	0.00
HCO 3	270	4.43
SO 4	10	0.20
Cl	3	0.08
NO 3	0.5	0.01
Anion Totals		

REPORT ON MY PERSONAL OPINION

I have two bottles of water, one from the old well and one from the new well, the well we drilled.

Water taken from the old well smells of "rotten egg". This odor surely would mean "sulfur water" or Hydrogen Sulfide Gas. This water from the old well when drawn is clear but turbidity appears after 48 hours on standing. Water turns to a tan color with a ball of tan color sediment on the bottom of the jar. This water cannot be used for drinking or washing clothes but will grow grass.

Water taken from the new well has sediment because pumped with air. The air stirs up the material when pumped while a centrifugal pump does not in most cases. Water taken from this new well has no "rotten egg" smell or odor. This water after many days setting in a jar has a very slight tan color and is almost clear in color. This water will wash clothes without staining. Water from this new well seems to be a good drinking water, odorless and tasteless. The owner and I and others have drank it and pronounced it good.