WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

Log No. 1636
Rec. 5/23 1951
Well No.
Permit No. 15636 & 19115
Do not fill in

Owner Vern Brown (E. O. Brown) Driller John Anderson

Address Gerlach Address Rt 1 Box [illegible] Lic. No. [illegible]

Location of well: SE ¼ NW ¼ Sec. 11, T. 37 N/S, R. 25 E, in Humboldt County

or ½ East from Gerlach

Water will be used for Irrigation Total depth of well 303'

Size of drilled hole 10" Weight of casing per linear foot [illegible]

Thickness of casing ¼" Temp. of water 68

Diameter and length of casing 10" [illegible] 42' in length

(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 1200 G.P.M.

If nonflowing well give depth of standing water from surface

If flowing well describe control works 12" [illegible]

(Type and size of valve, etc.)

Date of commencement of well 2/12/51 Date of completion of well 2/22/51

Type of well rig Cable tools

LOG OF FORMATIONS

From feet	To feet	Thickness feet	Type of material
0	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	52	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
52	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	11	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
91	97	[illegible]	[illegible]
[illegible]	[illegible]	1	[illegible]
[illegible]	2	[illegible]	[illegible]
102	111	9	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
119	154	35	[illegible]
[illegible]	[illegible]	2	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

(OVER)

Water-bearing Formation, Casing Perforations, Etc.

Chief aquifer (water-bearing formation)

from ..... to .....ft.

Other aquifers .....

No information

First water at.....feet.

Casing perforated

from ..... to .....ft.

Size of perforations

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.
10"	0	274	277	single red lead casing

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

WELL DRILLERS STATEMENT

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

Signed John Champion
Well Driller

By.....

License No.....

Dated....., 194.....

(Not to be filled in by Driller)

Verne Parmen Ranch #2 well 12/16/47
Old Wheeler Place Artesian. R. 12124

sec 10?

SE I/4-NW I/4-T37N-R25E, Washoe co. Gerlach, Nevada. I mile due East of ranch house. Temperature I02 Deg. F. 8" drilled hole, 8" casing for 70', I27' Of 6" standard pipe 20# per foot, all casing electric welded.

Driller, Warren W. Overholser. Lic. No. I5.
Began drilling Oct I3, I947, Finished drilling oct Oct 26, I947, clean out later.

0- 20' Black silt and yellow clay.
20'-40' Hard pan and yellow clay.
40'-73' Soft whitish hot water clay.
73'-&&7 small gravel aand and clay.
77'-82' hard brown and yellow clay.
82'-86' coarse gravel
86'090' hard blue clay.
90'-95' soft blue clay.
95'-I04' Soft gummy blue clay.
I04'-I08' blue clay, I/2" gravel.
I08'-II0' blue clay, heavy large gravel.
II0'-I20' Sandy cream, & blue clays, & large gravel.
I20'- I60'Gravel and blue clay.
I60'-I65' Blue clay only.
I65'- I67'blue clay and gravel
I67'- I69' Blue clay.
I69'-I90' White to yellow clay & gravel, Hot water clay deposits.
I908-I98' sand and gravel, No clay.
I98'-200' blue clay.
200'-220' blue clay and fine sand.
220'-228' small stratas of white and green clays.
228'-250' Yellowish white clay, hot water deposits.
250'-253' hard white limestone, Hot water lime.
253'-265' White clay, Quartz, and some red gravel.
265'-267' Teriffic loss of drilling mud, level dropped 20', well began flowing before rods could be pulled, stuck tools 5' off of bottom could hear gravel going to bottom of hole. Water flowing at the rate of 2I2 gpm, went to winnemucca for 8" casing, ran in 70' to keep surface from caving on upper artesian flow, I2'. Finished fishing tools out of hole Oct 26, I947.

Ran in I27' of 6" std Pipe, Was as far as we could force the casing down, and the farther we went down from II0' the more the water seemed to shut off. Was called to Arizona on an urgent trip and did not get back till approx. a month later. Left Oct 26, I947.

Tried to measure the static head level by putting on more drill rods and it is in excess of 35' coming through the rods on the bottom of the hole, small volume. Height seems not to affect it at all.

Intend to get a pressure gague and measure the upper flows.

Under the present circumstances it is hard to determine exactly where the flows are originating from.

November 2I, I947 ran in drill rods to clean out 6" std pipe down to the bottom of the perforations., and found them clean to the bottom.

Perfprations are 25' 10ng X I'x I/4" tapered self cleaning slots. 56 slots, and open bottom. 8" casing is I0# per foot.

Installed a I25# 6# 6" gate valve on the 6# std pipe, welded a cap on the 8" pipe to the #2 6" pipe, and cut a hole in the side of the 8" pipe and welded a 2-I/2" nipple for a valve on the 8" flow, which is approximately80gpm, combined flows are " 2I2 Gpm, believe we can develop more by blowing out with air compressor, will try after the first of the year.

Warren W. Overholser
Dec 13, 1947

12/16/47
P. 12133

Verne Pafmen Ranch
Old Wheeler Place.

SE I/4- SW I/4 Sec IO T37N-R25E, Washoe county, Gerlach, Nevada.
Static level 8', Temp, 60 Deg F, Located 50' N of ranch house.
8" Drilled hole, Run 6" Std pipe 20# per foot. Electric arc welded.
Gravel packed on the outside of casing, washed and flushed.
Begin Oct II, Finished Oct I2, I947. Lic. No. I5.
Driller, Warren W. Overholser, Gerlach, Nevada.

0'- I0' sandy gravel.
I0'- 20' yellow clay and sand.
20'- 30' black clay, water strata.
30'- 40' black sand, yellow clay, small gravel.
40'- 50' yellow clay,,sand and small gravel.
50'- 60' yellow clay, and fine sand,
60'- 70' soft yellow clay.
70'- 80' " " " sand and small gravel.
80'- 90' soft rusty clay.
90'- II0' small stratas of clay, pea sized gravel.
II0'-II5' Coarse gravel and sand. water strata.
II5'- I22' Gravel stratas, soft brown to yellow clays, water.

Ran in I23' of 6" std pipe to bottom, Perforated I/4"x 8" slots 28 perforations from II9' to I22' . Hole outside of pipe was gravel packed and washed and flushed completely, cleaned and tested, pumped 65gpm from I7'6" and after two hrs pumping, water gained on pimp to I2'. Next morning level was 8'.

Owner wanted to run a test hole on down to I50'.

I22'-I33' Small stratas of yellow, pink, lt green clays.
I33'-I40' Small clay stratas, water gravel stratas 2' thick.
I40'-I45' Very hard cemented gravel stratas
I45'-I50' Gravel and soft stratas of pink clay.9 (small)
Welded on braces on casing 2' below surface.

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November 22, I947. Owner wanted to try for an artesian in this well. Moved from well #2 - artesian, set up over hole, mixed mud, ran in rods to I50'
I50'-I60' pink clay and gravel.
I60'-I68' pink clay and gravel.
I68'-I70' pink clay.
I70'-I80' " " and gravel
I80'-206' White clay, (artesian Hot water Indications).
206'-2I0' small stratas, pink ,green and white clays.
2I0'-2I3' pink clay.
2I3'-230' " " and gravel.
230'-246' pink clay,sand and gravel.
246'-248' hard pink and dark green clays.
248'-272' Cemented gravel, very hard white Quartzmixed, afraid of breaking through into ~~a grave~~ an artesian flow, going after 4" std pipe tp cement in before going down any further,.

Dec 8, I947 pipe lost by RR co. enroute, circulated mud for 2-I/2 hrs pulled rods, ran in 272' 8" of 4" std Pipe, I0.78# per foot, with extra heavy couplings, one coupling with saw tooth as a cutting shoe.

Cont'd on Sh. 2

Welded all collars top and bottom with spot excepting one so that in case no artesian were developed the casing could be unscrewed I4' inside the gravel packed casing. Thereby giving more water to his present well.
Dumped two thirty foot bailer buckets of cement in the bottom of hole then let casing down into cement, and let set overnight,.
Ran in bit,and two lengths of drill pipe, and slips didnot hold on account of ice on fods, they dropped through to the bottom, ran in 140' Of rods with fishing tap, was succesful the first fish.

Ran in 230' of drill fods and started drilling out cement plug 272' went out of casing into new ground.

272'-280' Very hard cemented gravel, white Quartz mixed.
280'-295' " " " " " "
295'-300' Brown and pink clay.
300'-320' white hot water clays.
320'-330' 2" to 3" stratas of rust brown and grey clays, with quartz
330'-340' white grey clays, white quartz sands. water strata. sand.
340'-400' Rusty brown clays,white quartz,loss of mud, water strata.
400'-4I0' brown cemented sands, hard.
4I08-430'White and grey clay, loss of mud, water strata.
430'-440' White cemented quartz, or solid strata.
440'-450' alternate white and brown clay stratas, small ones.
450'-460' brown clay, and Quartz sands, water strata.
460'-490' " " " " "

DecII, pumped 65 gpm from 4" casing with I5' drawdown bailed sands and water raised to within 4' of the land surface, or 5' from the top of the pipe. Intend using the air compressor the first of the year on it to bring in a good flow.

Signed Dec 13, 1947
Warren A. Overholser.