WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

Log No. 1607
Rec. 4/30 1951
Well No.
Permit No. 11812
Do not fill in

Owner DR. H. E JACOBSON Driller WARREN W. OVERHOLSER

Address 758 So TAYLOR-ST, FALLON NEVADA Address BOX 73, FERNLEY NEV Lic. No. 15

Location of well: SE ¼ NE ¼ Sec. 33, T. 16 N/S, R. 29 E, in ~~Eureka~~ Churchill County

or Old LEES Hot SPRING AREA.

Water will be used for DOMESTIC + COMMERCIAL Total depth of well 535'

Size of drilled hole 6" Weight of casing per linear foot 11.58 # @ foot

Thickness of casing 1/4" Temp. of water 156°-F top - Bottom 190°-F

Diameter and length of casing 4" - 536'
(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 1½ g.p.m.

If nonflowing well give depth of standing water from surface

If flowing well describe control works 4" TEE - CAP - 2½" BRASS VALVE
(Type and size of valve, etc.)

Date of commencement of well Jan 26 Date of completion of well Feb 26-51

Type of well rig Failing Rotary - 314 - C

LOG OF FORMATIONS

From feet	To feet	Thickness feet	Type of material
0	150'	150'	Hard Rock water formation 58°-F
150	175'	25'	End of Hot water Rock, black Volcanic rock cuttings - Very hard.
175	185'	10'	Black Volcanic rock broken
185	195'	10	sandy Cemented rock Clay Huge filling pores like a sponge
195	200	05	Fault, ? Bentonit Clay sand + small Red Particles, temp 78°-F
200	210	10	Reddish, blue, green, white gravel particles, w. small strata of clay Clay hard 2 to 3" in depth. Hard.
210	220	10	Fissure, lost some mud but no hydrostatic Pressure. Med hard
220	230	10'	86°-F - Soapstone rock med hard Clay strata with small strata of lt blue med between temp 86°-F
230	240	10	same as above, some gravel milky white. 92°-F
240	250	10	yellow hard clay, wavy, rock cuttings, dark blue black w some pyrite 92°-F
250	260	10	black Concentrate, green blue grey, red Cuttings Clay seams 94°-F
260	270	10	Hard gravel Conglomerate, pieces of basalt, porous rock with Vuggy holes filled with soapstone Clay temp (OVER) 96°-F

Water-bearing Formation, Casing Perforations, Etc.

Chief aquifer (water-bearing formation) from 496 to 535 ft.

Other aquifers Probably a very small seepage all along where white clay particles occur.

First water at 496 feet.

Casing perforated from 515 to 535 ft.

Size of perforations 3/16 X 12" Long

28 Perforations

LOG OF FORMATIONS—*Continued*

From feet	To feet	Thickness	Type of material
270	280	10	Clay gravel, Hard Conglomerate matrix
280	290	10	Very hard mottled silicified diabase or basalt? - Vuggish.
290	300	10	Same as above temp 102°-7
300	310	10	Small stratas Very hard clay between, Kind of bentonite Having lots silicified, grey, green rock. quartzy mottled basalt
310	320	10	Same as above Very hard temp 104°-7
320	330	10	Basalt rock small round vugs filled with waxy clay temp 110°-7
330	338	8	Basalt " greenish black strata same as above 114°-7
338	350	12	Broken formation, greenstone, brown Conglomerate Clay very tough perhaps a soapstone or deteriorated basalt, some white Chunks of clay, Hot water Clay. temp 116°-7 Vuggy basalt too

CASING RECORD

Diam. casing	From feet	To feet	Length	"Remarks"—Seals, Grouting, Etc.
4"-I.D.	+1	535	536	None
				360' - casing later Recovered.

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

Water 1502 Parts per million
Flow 1½ gpm, Max, no amount of bailing would yield any more. Ran 535 foot of drill rod + hooked up air Compressor and pumped well, but did not increase the flow. - Vuggy section on bailer

WELL DRILLERS STATEMENT

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

Signed Warren M. Querholser
Well Driller

By WMC

License No. 15

Dated April 28, 1951

(Not to be filled in by Driller)

of rock, [redacted]

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360 - 370 - 10 Hard Clay, with various gravels all cuttings sharp - no rounded gravel 120°-7

370 - 385 - 15 Black blue, lt white hot water Clay in alternate stratas.

385 - 391 - 6 Clay, then re-cemented hard pans, wavy rocks yellow, purple blue, black in alternate stratas of water clay - H. temp 134°-7

391 - 400 - 9 Black, green, blue, Red, lt green, a kind of soapstone Rock. Very hard stratas.

400 - 410 - 10 grey, green, black, red, rusted particles, white Quartz, Calcite, Iron Pyrite with small soft stratas of white Clay between - Evidently a hot water Clay. temp 126°-7

410 - 420 - 10 Same as above, soapstone Rocks, all Colors & white.

420 - 460 - 10 Grey hard rock, Quartzy basaltic with white Vugs like a sponge filled with Hot water mud. 128°-7 - white soft mud filling pores in Rock.

460 - 470 - 10 Same as above 130°-7.

470 - 480 - 10 white Clays & Rock of all Colors, med hard temperature 132°-7

480 - 494 - 14 white Clays - Rock green, yellow Chunks, some gas cuttings in mud.

494 - 496 - 2 Bright Red Clay + gravel strata Very hard Cemented strata, temp 134°-7

496 - 500 - 4 White Clays softer, Clay, gravel, temp 140°-7

500 - 514 - 14 Same as above.

514 - 520 - 6 Almost Pure white hot water Clays making mud white, green, & black, white and yellow, med hard rocks, temp 144°-7 Explosive gas pockets.

520 - 535 - 15 Soft white muds & sands of a greenstone, some little stratas of a purpulish nature, changing mud Colors fast for a few minutes. Temp 158°-7 Lots of gas bubbles, very little mud loss. Bottom of hole very hard rock. Temp 158°-7

Finished Feb 26 - 1951

Fishing for [illegible]

[illegible]

Log #1607