# WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

Log No. 4093
Rec. June 12, 1958
Well No.
Permit No. 17604
*Do not fill in*

Owner: Alter Creek Ranch  Driller: Lee Harvey

Address: Denio, Nevada  Address: Winnemucca, Nevada  Lic. No. 170

Location of well: approx. center Sec. 1/4 of 1/4 Sec. 4, T. 43 N., R. 27 E., in Humboldt County

or 1 Mi. So. West of Knott Creek Ranch Buildings

Water will be used for: Irrigation  Total depth of well: 1150

Size of drilled hole: 16" to 200 feet.  Weight of casing per linear foot:

Thickness of casing: 14" to 200 feet.  Temp. of water:

Diameter and length of casing: 16 1/2" to 200 feet. 12" to 500 feet - 10" to 1012 feet.
(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:

If flowing well describe control works:
(Type and size of valve, etc.)

Date of commencement of well: Mar. 28 - 1957  Date of completion of well: Apr. 24 - 1958

Type of well rig: Bucyrus Erie 24L Dragline

## LOG OF FORMATIONS

| From feet | To feet | Thickness feet | Type of material |
|---|---|---|---|
| 0 | 2 | 2 | Topsoil. |
| 2 | 18 | 16 | Hardpanny Clay. |
| 18 | 42 | 24 | Gravely Clay |
| 42 | 44 | 2 | Sand - water seep. |
| 44 | 92 | 48 | Sandy Clay |
| 92 | 102 | 10 | Sand & Gravel |
| 102 | 106 | 4 | Sticky Clay. |
| 106 | 125 | 19 | Sand & Gravel. |
| 125 | 200 | 75 | Sandy Clay. |
| 200 | 228 | 28 | Sticky Clay. |
| 228 | 292 | 64 | Sandy Clay |
| 292 | 301 | 9 | Cemented gravel |
| 301 | 320 | 19 | Sticky Clay |
| 320 | 325 | 5 | Cemented Gravel |
| 325 | 344 | 19 | Sticky Clay |
| 344 | 348 | 4 | Cemented Gravel |
| 348 | 353 | 5 | Sandy Clay |
| 353 | 356 | 3 | Cemented Gravel |
| 356 | 369 | 13 | Sandy Clay. |
| 369 | 376 | 7 | Volcanic Rock |
| 376 | 379 | 3 | Sticky Clay |
| 379 | [illegible] | 3 | Sand & [illegible] |

(OVER)

**Water-bearing Formation, Casing Perforations, Etc.**

**Chief aquifer (water-bearing formation)**

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

Other aquifers: 92 - 102
106 - 125
459 - 469
820 - 835
960 - 985
995 - 1002
1118 - 1124

First water at 42 feet.

**Casing perforated**

from 50' to ..... ft.

**Size of perforations**

3/16" Reg 2" Factory Slots.

## LOG OF FORMATIONS—*Continued*

| From feet | To feet | Thickness | Type of material |
|---|---|---|---|
| 381 | 392 | 11 | Sandy Clay |
| 392 | 395 | 3 | Cement Gravel |
| 395 | 397 | 2 | Sticky Clay |
| 397 | [illegible] | [illegible] | Gravel |
| 401 | 436 | 35 | Sandy Clay w/ thin sand streaks & some sticky streaks |
| 436 | 450 | 14 | Cemented Sand |
| 450 | 454 | 4 | Sticky Clay |
| 454 | 459 | 5 | Broken Clay & Sand & Gravel |
| 459 | 469 | 10 | Fine sand |
| 469 | 598 | 129 | Sandy Clay with thin sand streaks & sticky streaks |
| 598 | 660 | 62 | Sandy Clay |
| 660 | 662 | 2 | Sand & fine gravel |
| 662 | 681 | 19 | Sticky Clay |
| 681 | 689 | 8 | Sand & fine gravel. |
| ~~689~~ | ~~692~~ | ~~3~~ | ~~Sticky Clay~~ |
| 692 | 696 | 4 | Sand & fine gravel |

CASING RECORD 696–727 – 31 ft Sandy clay w/ sticky streaks

| Diam. casing | From feet | To feet | Length | "Remarks"—Seals, Grouting, Etc. |
|---|---|---|---|---|
| 16" | 0 | 204 | 204 | 727 – 739 – 12 ft – Volcanic Rock |
| | | | | 739 – 742 – 3 ft Sticky Clay |
| 12" | | 500 | 00 | 742 – 745 – 3 ft. Sand & fine gravel. |
| 10" | 472 | 1012 | 540 | 745 – 758 – 13 ft. Volcanic Rock. |
| | | | | 758 – 761 – 3 ft. Sand & fine gravel. |
| | | | | 761 – 785 – 24 ft – Sandy clay w/ sticky streaks |
| | | | | 785 – 788 – 3 ft – Vol. Rock – |
| | | | | 788 – 820 – 32 ft. – Broken Clay – Some Sticky Some Sandy & Some gravel Sticky on Bottom. |

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

1st test at 200 feet. Well made 525 gallon per Min. @ 110 ft lift
2nd test at 500 feet. Well Made 800 gallon per Min @ 125 ft lift
3rd test at 1035 feet. Well Made 1800 gallon per Min @ 175 feet lift.
4th test at 1150 showed Well should make 1900 gpm, from 175 feet pumping level.

## WELL DRILLER'S STATEMENT

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

Signed Lee Harvey Drlg Contr.
Well Driller

By Lee Harvey

License No. 170

Dated June 10, 1958

(Not to be filled in by Driller)

1958 JUN 12 AM 11 30

Continuation of Log. Knott Creek Well. 1760A

| | | | |
|---|---|---|---|
| 820 - 835 | - | 15 ft. | Sand & fine gravel. |
| 835 - 860 | - | 25 ft. | gravely clay |
| 60 - 960 | - | 100 ft. | sticky & sandy clay |
| 960 - 985 | - | 25 ft. | Coarse sand |
| 985 - 995 | - | 10 ft. | Sandy clay |
| 995 - 1002 | - | 7 ft. | Coarse & fine sand |
| 1002 - 1035 | - | 33 ft. | Sandy clay - |
| 1035 - 1041 | - | 6 ft. | sticky clay - |
| 1041 - 1118 | - | 77 ft. | sandy clay - |
| 1118 - 1124 | - | 6 ft. | sand & gravel. |
| 1124 - 1148 | - | 24 ft. | Sandy clay. |
| 1148 - 1150 | - | 2 | Granite. |

Sorry these logs are so late but I had a slow time getting the locations to an