WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

Log No. 8593
Rec. Aug 4 1965
Well No. 21512
Permit No.
Do not fill in.

21512

PLEASE COMPLETE THIS FORM IN ITS ENTIRETY

Owner Las Vegas Valley Water District Driller Phelps Pump & Equipment Co.

Address 3700 West Charleston Blvd. Address 400 East Lake Mead Lic. No. 98

Location of well: NE ¼ SE ¼ Sec 11, T. 20 N/S, R. 60 E, in Clark Count

or Well #29 in Gowan Field

Water will be used for Municipal Total depth of well 1000'

Size of drilled hole 0 to 100 26" 100' to 1000' 16" Weight of casing per linear foot 20-54# 16"=62#

Thickness of casing 20" ¼ 16" Double 8 ga. Temp. of water

Diameter and length of casing 16" X 1000' 20" X 100'
(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 162'

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

Date of commencement of well 11/11/64 Date of completion of well 6/11/65

Type of well rig Cable Tool 36L

LOG OF FORMATIONS

From feet	To feet	Thickness feet	Type of material
0	18	18	Fill & caliche
18	56	38	Clay
56	63	7	Caliche
63	167	104	Clay
167	274	107	Gravel
274	314	40	Sand & gravel
314	334	20	Clay
334	350	16	Clay w/same gravel & rock
350	358	8	Cemented sand
358	370	12	Cemented sand & gravel
370	394	24	Pea gravel
394	410	16	Fine sand & gravel
410	418	8	Gravel & big rock
481	422	4	Cemented gravel
422	426	4	Cemented sand
426	450	24	Coarse loose gravel
450	462	12	Cemented gravel
462	466	4	Loose gravel
466	486	20	Sand & gravel
486	514	28	Red clay
514	530	16 ~~Gravel~~	Gravel
530	570	40	Cemented gravel
570	575	5	Sand & gravel
575	590	15	Hard cemented gravel
590	600	10	Loose gravel
600	616	16	Cemented gravel

Water-bearing Formation, Casing Perforations, etc.

Chief aquifer (water-bearing formation)

from 524 to 900 ft

Other aquifers 177-310

360-466

First water at ..... feet.

Casing perforated

from 177 to 310 / 360 to 466 / 524 to 900 ft.

Size of perforations

1/8 X 2½

(OVER)

919

LOG OF FORMATIONS—Continued

From feet	To feet	Thickness	Type of material
616	630	14	Large gravel
630	650	20	Gravel & sand
650	670	20	Cemented gravel
670	740	70	Loose gravel
740	782	42	Cemented gravel
682	790	108	Caliche
790	822	32	Cemented gravel
822	842	20	Loose gravel
842	866	24	Cemented gravel
866	870	4	Cemented gravel & tight sand
870	882	12	Cemented gravel
882	890	8	Caliche
890	958	68	Cemented gravel
958	960	2	Red clay
960	964	4	Pink sandstone
964	968	4	Hard sandy lime
968	1000	32	Hard cemented gravel

CASING RECORD

Diam. casing	From feet	To feet	Length	REMARKS—Seals, Grouting, etc.
20"	0	100	100	Cemented 20" from 100' up to surface gravelfilled
16"	0	1000	1000	100' to 1000'

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

Test pumped up to 3750 GPM from 265'

WELL DRILLER'S STATEMENT

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

Signed PHELPS PUMP & EQUIPT.
Well Driller

By [illegible]

License No. 98

Dated JULY 30, 1965

(Not to be filled in by Driller)