Log No. 8301
Rec. 19
Well No. .....
Permit No. 21922
Do not fill in.

WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

PLEASE COMPLETE THIS FORM IN ITS ENTIRETY

Owner: Hacienda Hotel — Driller: Allen Water Well Service Co.

Address: Las Vegas Blvd. So. — Address: 911 So. Main St. — Lic. No. 40

Location of well: ~~SW~~ NE ¼ SE ¼ Sec. 29, T. 21 N/S, R. 61 E, in Clark County

or Permit 21922

Water will be used for: Commerical — Total depth of well: 802'

Size of drilled hole: 25" 0 to 76' 19" 76' to 802' — Weight of casing per linear foot: 53 & 28 lbs.

Thickness of casing: 1/4 wall — Temp. of water

Diameter and length of casing: 20" OD 0 to 75' 10" ID 0 to 802'
(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: 57'

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

Date of commencement of well: 4/4/64 — Date of completion of well: 5/14/64

Type of well rig: Rotary rig.

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WATER RESOURCES
DIVISION OFFICE
LAS VEGAS, NEVADA

LOG OF FORMATIONS

From feet	To feet	Thickness feet	Type of material
0	4	4	sandy soil
4	18	14	hard caliche
18	25	7	sand, gravel, boulders
25	43	18	red sandy clay
43	56	13	cemented conglomerate w/boulders
56	80	36	red sandy clay
80	85	5	sandy clay w/ gravel
85	92	7	sand
92	120	28	red sandy clay w/gravel streaks.
120	138	18	hard caliche
138	170	32	clay and sand
170	307	137	red sandy clay w/gravel streaks.
307	327	20	sand
327	348	21	cemented gravel
348	352	4	coarse sand
352	448	96	red sandy clay
448	544	96	cemented conglomerate
544	548	4	coarse sand
548	570	22	conglomerate
570	573	3	sand and gravel
573	612	39	conglomerate
612	648	36	sand gravel & boulders
648	695	47	conglomerate
695	727	32	sand and gravel
727	757	37	cemented gravel
757	772	15	coarse sand
772	802	28	cemented gravel

(OVER)

Water-bearing Formation, Casing Perforations, etc.

Chief aquifer (water-bearing formation)
from 612 to 648 ft.

Other aquifers: 307-327, 348-352, 544-548, 570-573, 695-727, 757-772

First water at: 85 feet

Casing perforated
from 500 to 800 ft.

Size of perforations
5/32 x 1½" 12 rows on 5" centers.

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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.
20"OD	0	75'	75'	conductor pipe cemented in place.
10-3/4OD	0	802	802'	machine perforated liner set with centering guides and gravel packed in place with 56 yards of 3/8" washed pea gravel.

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

WELL DRILLER'S STATEMENT

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

Signed Allen Water Well Service Co.
Well Driller

By [signature]

License No. 40

Dated 12/28/64, 19

(Not to be filled in by Driller)