19/19-12BCCA1 OTHER INFORMATION IN Sierra Pacific File

WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

Log No. 6022
Rec. 7-11-61 19
Well No.
Permit No. 19909
Do not fill in

PLEASE COMPLETE THIS FORM IN ITS ENTIRETY

SIERRA PACIFIC WATER WELL #8

Owner SIERRA PACIFIC POWER COMPANY Driller LAYNE TEXAS COMPANY

Address 220 S. VIRGINIA ST. RENO, NEV. Address 5402 LAWNDALE - HOUSTON, TEX. Lic. No. 5573

Location of well: ¼ ¼ Sec 12, T 20 N/S, R 19 E, in WASHOE County

or ON PROPT. OF HIGH ST. SUB STATION

Water will be used for RENO WATER SUPPLY Total depth of well 530

Size of drilled hole 7 7/8 Weight of casing per linear foot

Thickness of casing Temp. of water 63°F

Diameter and length of casing 90' @ 30" 314' @ 18" 132' @ 24" 316' @ 12 3/4"
(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 42.38'

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

Date of commencement of well 4-21-61 Date of completion of well 6-4-61

Type of well rig ROTARY

LOG OF FORMATIONS

From feet	To feet	Thickness feet	Type of material
104	120'	16	SAND, FINE GRAVEL, & YELLOW CLAY
120	138	18	SAND, GRAVEL, & A FEW BOULDERS
138	148	10	BOULDERS
148	162	14'	CLAY & BOULDERS
162	178	16'	~~SANDY CLAY~~ GRAVEL & SAND
178	194	16	SANDY CLAY
194	204	10	SAND & GRAVEL
204	253	49	CLAY & GRAVEL STREAKS
253	270	17	GRAVEL
270	275	5	CLAY
275	282	7	GRAVEL & SAND
282	286	4	BOULDERS
286	295	9	HARD BOULDERS & CLAY STREAKS
295	299	4	HARD BOULDERS & CLAY
299	309	10	SAND, GRAVEL, & CLAY, BROKEN
309	317	8	CLAY & BOULDERS
317	328	11	SAND & GRAVEL
328	330	2	CLAY & BOULDERS
330	346	16	SAND & GRAVEL
346	348	2	CLAY & BOULDERS
348	353	5	SAND, GRAVEL & CLAY BREAKS
353	375	22	SANDY GRAVEL
375	378	3	CLAY & BOULDERS
[illegible]	[illegible]	24	SAND & GRAVEL

(OVER)

Water-bearing Formation, Casing Perforations, Etc.

Chief aquifer (water-bearing formation)

from 133 to 143' ft.

Other aquifers 153-178'
178-208', 248-258', 273-287',
289-308', ~~[illegible]~~-314.70'-334.30'
336.45-354.35', 356.50-380.95'
383-399.90'-409-425', 454-476'
478-510',

First water at 133 feet.

Casing perforated

from 133 to 510 ft.

Size of perforations

.045 GA. S.S. WW. SCREEN

919

LOG OF FORMATIONS—*Continued*

From feet	To feet	Thickness	Type of material
402	404	2	Clay & Boulders
404	415	11	Sandy Clay & Boulders
415	438	23	Sand & Little Gravel
438	454	16	Sandy Clay & Boulders
454	466	12	Sand & Gravel
466	468	2	Sandy Blue Clay
468	493	25	Sand & Gravel
493	497	4	Broken Sand
497	503	6	Shale
503	522	19	Gravel, Sand, & Clay
522	563	41	Hard Sandy Shale
563	575	12	Hard Sand & Gravel
575	583	8	Sandy Blue Shale
583	617	34	Sand & Shale Breaks
617	618	1	Boulder
618	626	8	Hard Cemented Sand & Gravel
626	627	1	Rock
627	655	28	Sand & Broken Clay
655	664	9	Sandy Clay
664	712	48	Sand & Broken Clay
712	722	10	Sand & More Clay
722	753	31	Sandy Clay & Sand

TD. 753'

CASING RECORD

Diam. casing	From feet	To feet	Length	"Remarks"—Seals, Grouting, Etc.
30"	0	90'	90'	
24"	+2	130	132'	- Cemented - 175 Sks.
18"	+3.54'	310.70'	314.29'	
12 3/4"	310.70	530'	219.30'	

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

3316 GPM - Pumping Level 107.23'

Static Water Level - 42.38'

Water Analysis

TDS - 356.7 Iron - .05 Chloride - 12

Cal. 38.8 Bicarb. 156.2 Hardness $CaCO_3$ - 154

Mag. 13.9 Sulfates 68 CPPM.

WELL DRILLER'S STATEMENT

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

Layne Texas Co.

Signed Wallace H. Clayton
Well Driller

By Wallace H. Clayton

License No. 5573

Dated 7-7, 1961

(Not to be filled in by Driller)

1961 JUL 11 AM 8 57

STATE ENGINEER