WELL LOG AND REPORT TO THE STATE ENGINEER OF NEVADA

(Statutes 1939, chapter 178, section 7. See page 2 of this form)

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PERMIT TO APPROPRIATE WATER, SERIAL NUMBER 11357

Permittee Joe Cardinal Driller John Frewalt

Address Address Box 386 Las Vegas Nevada

Location of well NW¼ SE¼ Sec. 13 T. 20 S., R. 61 E., M.D.B.&M.
(Describe in legal subdivisions.)

Water will be used for Quasi-Municipal & Domestic Total depth of well 293 ft.

Size of drilled hole 16" to 50 ft& 8" to 293 Thickness of casing ¼"

Weight of casing per linear foot 35 lbs. Quality of casing New

Diameter and length of casing 89 ft of 8" I.D.
(Casing 12" in diameter and under give inside diameter; casing over 12" in diameter give outside diameter.)

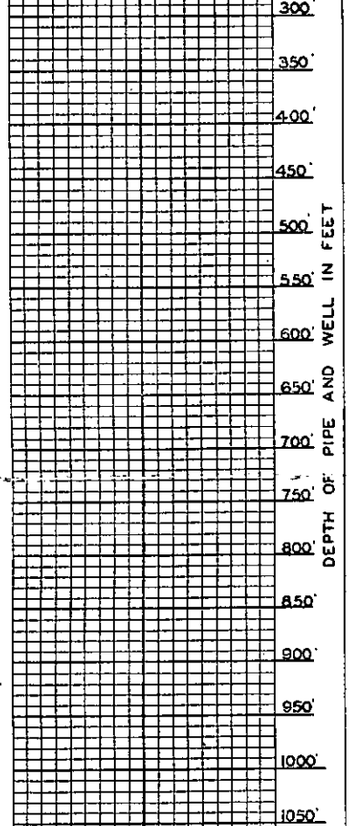
If flowing well give flow in c.f.s. and pressure

If nonflowing well give depth of standing water from surface 38.5 ft

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

Date of commencement of well Dec. 3, 1946 Date of completion of well Dec. 30, 1946

Type of well rig Cable tools

Screens, seals, plugs, grouts, etc.	Well diagram	Formations. State if dry or water bearing	Kind of casing, liner, shoe, etc.
Cemented with 1 3/4 yds.		1 ...3 soil 3...13 lime gravel 13...60 brown lime 48 surface water 60...80 white lime 80...100 brown lime (water) 100...140 white clay 140...150 sand stone (water) 150...160 white lime 160...293 broken brown lime with increase in water in seams.	Chief aquifer (water-bearing formation) from 140 to 150 ft. Other aquifers 80 to 100 160 to 293 Casing perforated from 69 to 89 ft. Size of perforations ½" by 8"

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