



WATER-RIGHT DOCKET

Death Valley National Park

Docket No: 35

STOVEPIPE WELLS, WELL #1

Supporting Hydro Data

09-12-1973: driller's well log, water well drillers report; september 12, 1973

Driller's well log

76426

ORIGINAL
File with DWR

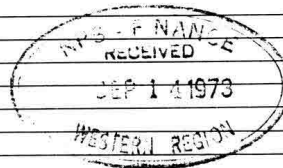
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do Not Fill In

Nº 76425

State Well No. _____
Other Well No. _____

(1) OWNER: U. S. Dept. of Interior National Park Service Water Resources Section 450 Golden Gate Ave., Box 36063 San Francisco, Calif. 94102		(11) WELL LOG: Total depth _____ ft. Depth of completed well _____ ft. Formation: Describe by color, character, size of material, and structure 0 70 Alluvium (size 0-18") mixed 70 73 Boulders 73 78 Clay 78 102 Alluvium, mixed 102 112 Clay 112 143 Alluvium - mixed 143 173 Boulders 173 175 Sandy clay 175 181 Broken multi-colored rock with bits of sandy clay 181 185 Sandy clay 185 189 Broken multi-colored rock 189 195 Sand or sandy clay 195 211 Broken multi-colored rock 211 315 Broken multi-colored rock with thin layers of clay				
(2) LOCATION OF WELL: County Inyo Owner's number, if any _____ Township, Range, and Section T16S, R44E, Sec. 1, NE 1/4 of NW 1/4 Distance from cities, roads, railroads, etc. About 1200' south of Hwy. 190 on west side of Mosaic Canyon Rd.						
(3) TYPE OF WORK (check): New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐ If destruction, describe material and procedure in Item 11.						
(4) PROPOSED USE (check): Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐		(5) EQUIPMENT: Rotary ☒ Cable ☐ Other ☐				
(6) CASING INSTALLED: STEEL: ☒ SINGLE ☐ DOUBLE ☐ OTHER: _____ If gravel packed _____						
From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
Up 1'	264	3"	1/2"	12 1/4"	0	315
	264	294	8 pipe size s.s. screen			
	0	12	14"	#12		
Size of shoe or well ring: Flat Plate SS Size of gravel: #8 Monterey Sand Graveled up to 126' only						
Describe joint: Threaded - Drive pipe couplings 3/4" steel plate welded to 3" pipe and top of 14", #12 casing imbedded in concrete.						
(7) PERFORATIONS OR SCREEN: Type of perforation or name of screen Johnson 316 ELC stainless steel						
From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.		
264	294			.040 slot		
(8) CONSTRUCTION: Was a surface sanitary seal provided? Yes ☒ No ☐ To what depth 12 ft. Were any strata sealed against pollution? Yes ☐ No ☒ If yes, note depth of strata _____ From _____ ft. to _____ ft. From _____ ft. to _____ ft. Method of sealing Concrete in 30" hole around 14" casing						
(9) WATER LEVELS: Depth at which water was first found, if known 1394 ft. Standing level before perforating, if known _____ ft. Standing level after perforating and developing _____ ft.						
(10) WELL TESTS: Was pump test made? Yes ☒ No ☐ If yes, by whom? Belknap Yield: 74 gal. min. with 13 ft. drawdown after 18 hrs. Temperature of water 82°F Was a chemical analysis made? Yes ☐ No ☒ Was electric log made of well? Yes ☐ No ☒ If yes, attach copy _____						
NAME Bill Belknap BB:JA (Person, firm, or corporation) (Typed or printed) Address P. O. Box 846 Reedley, California 93654 [SIGNED] vh (Well Driller) License No. 106833 Dated 9/12/73 , 19____						



SKETCH LOCATION OF WELL ON REVERSE SIDE

FORM 9-1642B
(DEC 68)WELL SCHEDULE
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by W. Werrell Source of data Field Date Sept 12, 73 Map Stovepipe Wells - 15'

State California County Inyo Sequential number 14

Latitude: 36° 36' 04" N Longitude: 117° 08' 47" W

Lat-long accuracy: 16 T. 16 N. 44 S. Sec. 1 NE. NE NW. Mount Diablo BL.

Local well number: 016 S 9 4 4 E 01 COIM Other number: NPS Stovepipe Wells #1

Local use: W 09 A 1 Owner or name: National Park Service

Owner or name: NPS STOVEPIPE 1 Address: _____

Ownership: County, Ed Gov't City, Corp or Co, Private, State Agency, Water Dist _____

Use of water: (A) Air cond, Bottling, Comm, Dewater, Power, Fire, Irr, Med, Ind, P S, Rec, (S) Stock, Inetit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other _____

Use of well: (A) Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, (W) Withdraw, Waste, Destroyed _____

DATA AVAILABLE: Well data ☐ Freq. W/L meas.: ☐ Field aquifer char. ☐

Hyd. lab. data: ☐

Qual. water data: type: ☐

Freq. sampling: ☐ Pumpage inventory: yes ☐ no, period: ☐

Aperture cards: ☐

Log data: Drillers log

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 315 ft 315 (Meas) steel tape ☐

Depth cased: 264 ft 264 Casing type: Extra thick steel Diam. 8 in ☐

Finish: (C) porous gravel w. concrete, (F) gravel w. screen, (H) horiz. open perf., screen, sd. pt., shored, open hole, (S) other _____

Method: (A) air bored, cable, dug, hyd, jetted, (J) air reverse trenching, driven, drive wash, (P) percussion, rotary, other _____

Date Drilled: Aug 25, 73 9 7 3 Pump intake setting: _____ ft ☐

Driller: Bill Belknap Reedley, Calif

Lift: (A) air, bucket, cent, jet, multiple, multiple, none, piston, rot, submerg, turb, other _____ Deep ☐ Shallow ☐

Power: (type) diesel, elec, gas, gasoline, hand, gas, wind, H.P. _____ Trans. or meter no. _____

Descrip. MP Top of casing 1.6 ft ft above LSD, Alt. MP _____

Alt. LSD: 90 90 Accuracy: Altimeter - 5' accuracy ☐

Water Level: 145.4 ft above MP; Ft 145 Accuracy: Steel Tape ☐

Date meas: Sept 8, 73 9 7 3 Yield: 72 gpm 72 Method determined ☐

Drawdown: 14.3 ft 114 Accuracy: E. probel 0 Pumping period 18 hrs 18

QUALITY OF WATER DATA: Iron _____ Sulfate _____ Chloride _____ Hard. _____

Sp. Conduct 4,400 K x 10⁶ 6 Temp. 82 °F 82 Date sampled Sept 9, 73 9 7 3

Taste, color, etc. Mineralized taste, clear

Well No.

16 S / 4 E - 1 C 1

Well is located 146 ft south and 38 ft west of brass cap. This cap is on the township line, at midsection in the north boundary of Sect 1. Cap is also the southwest corner of Stovepipe Wells.

Aquifer test conducted on
Sept 8-9, 1973 by N.P.

Well No. 16 S / 4 E 1 C 1

Latitude-longitude 36.36.04^N 117.08.47^W

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD
 Physiographic Province: Basin & Range 2:2 Section: Great
 Basin: A Drainage Basin: Death Valley 7:0 A Subbasin:
 Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) offshore, (F) pediment, (G) hillside, terrace, undulating, valley flat, (H) (K) (L) (U) (V)
 MAJOR AQUIFER: Quaternary Recent Q:R Terrace deposit 0:T
 Lithology: Poorly sorted conglomerate P:C Origin: Fluvial 2 Aquifer Thickness: 151 ft
 Length of well open to: 30 ft Depth to top of: 14.5 ft 1.4.5
 MINOR AQUIFER: system series aquifer, formation, group Aquifer Thickness: ft
 Lithology: Origin: Depth to top of: ft
 Length of well open to: ft Depth to top of: ft
 Intervals Screened: 264'-294'; Johnson Well Screen - 316 ELC Stainless Steel - Slots = 0.040"
 Depth to consolidated rock: ft Source of data:
 Depth to basement: ft Source of data:
 Surficial material: Infiltration characteristics:
 Coefficient Trans: spd/ft Coefficient Storage:
 Perm: spd/ft² Spec cap: gpm/ft; Number of geologic cards:

Drilling mud varied greatly during this operation resulting in recirculation of drill cuttings and thus very poor formation samples. No log of samples was made.

Surface casing is 14" diameter, 12 ft deep and cemented.

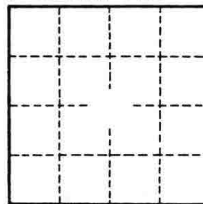
Drilled hole is 12 1/4" diameter.

After drilling stopped, hole filled in to 294 ft below

L.S.D.

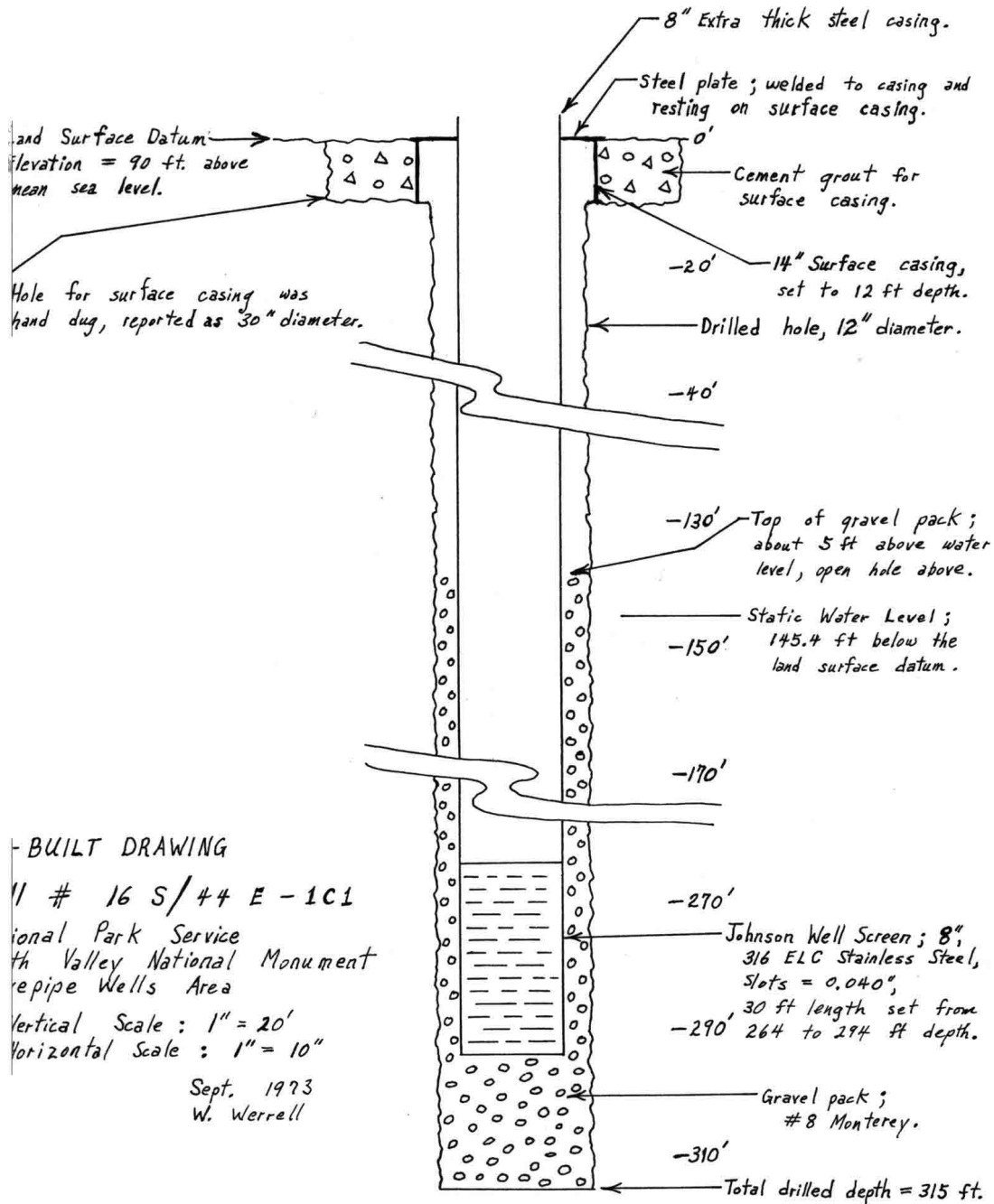
Drillers Log:

Depth	Thickness	Description
0-70	70	Alluvium
70-73	3	Boulders
73-78	5	clay
78-102	24	Alluvium - mixed
102-112	10	clay
112-143	31	Alluvium - mixed
143-173	30	Boulders
173-175	2	Sandy clay
175-181	6	Broken multi colored rock with bits of sandy clay
181-185	4	Sandy clay
185-189	4	Broken multi colored rock
189-195	6	Sand or sandy clay
195-211	16	Broken multi colored rock with thin layers of clay occasionally.
211-315	104	#8 Monterey gravel (well rounded with gravel-packed with coarse sand, clean)



Well No. 16 S / 4 E - 1 C 1

GPO: 1972 O-475-840



Docket Information

Number of Documents in Docket 4

Documents Dated from 9/9/1973 to 9/12/1973

Docket Compiled: 3/8/2011