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September 12, 2019

Via Hand Delivery

Nick Miller
Western Regional Manager
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082

RECEIVED

SEP 12 2019

WATER RESOURCES
WESTERN REGION

Re: Application for Transfer No. 82161 in the name of SUEZ Water Idaho Inc.

Dear Nick:

This letter and its enclosures respond to your June 17, 2019, email in which you propose that SUEZ Water Idaho Inc. ("SUEZ") specify a "defined set of irrigated acres" to be irrigated with water right no. 63-123F upon transfer approval.

The enclosed map depicts SUEZ's service area and the "defined set of irrigated acres" within the service area that will be irrigated under water right no. 63-123F. As described on the map, SUEZ proposes that its service area be approved as a permissible place of use within which it is entitled to irrigate 136.8 acres in a single irrigation season, and that the specific area containing 136.8 acres depicted on the map will be the actual irrigated place of use until further notice.

The enclosed memorandum prepared by SUEZ describes the methodology used to identify the specific area containing 136.8 irrigated acres. Figure 1 of the memorandum depicts the area in detail.

Your June 17 email states that the identification of the specific irrigated area is required because of concerns over potential enlargement of the water right. To further address that concern, SUEZ would agree to the imposition of a 4.5 acre-foot per acre volume limitation (which is the Department's standard field headgate requirement in this area) even though water right no. 63-123F currently has no such limitation.

Nick Miller
September 12, 2019
Page 2 of 2

Please let me know if there is any additional information necessary to complete the Application's processing. As always, do not hesitate to call or email if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read 'MPL', with a long horizontal flourish extending to the right.

Michael P. Lawrence
Attorney for SUEZ Water Idaho Inc.

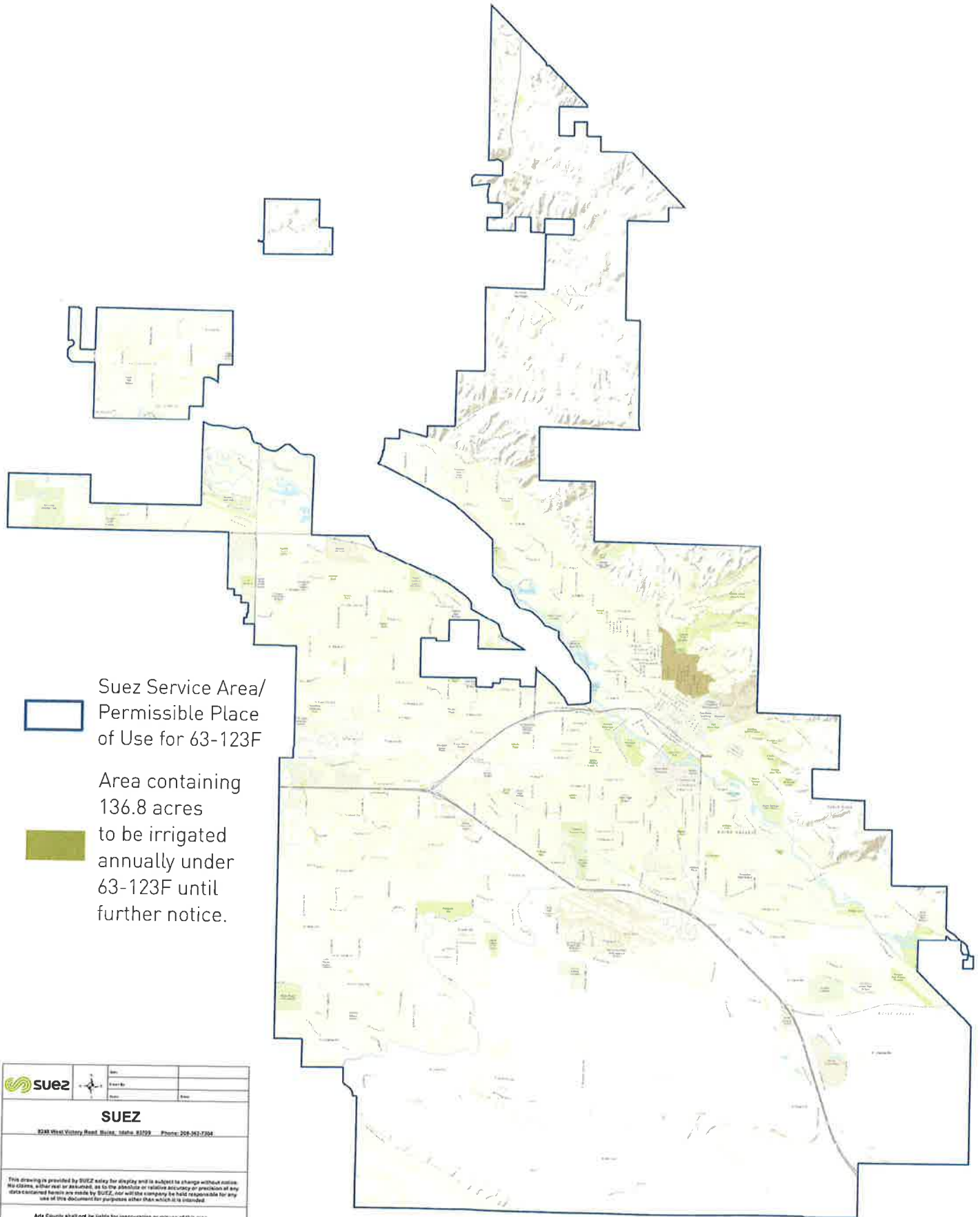
Enclosures (map and memorandum)

cc (via email):

John Marshall
SUEZ Water Idaho Inc.

30-160_14812314_1.doc

Lexington Hills Water Right Transfer





FROM Cathy Cooper
Director of Engineering

TO Mike Lawrence
Attorney, Givens Pursley

Roger Dittus
Hydrogeologist

DEPARTMENT Engineering, Idaho Operations DATE September 4, 2019

SUBJECT Lexington Hills Water Right Transfer –
Irrigated Area Calculation Methodology

BACKGROUND

The developers of Lexington Hills, a subdivision in Eagle, Idaho, reserved a piece of their original irrigation water right appurtenant to the formerly irrigated land now covered by rooftops and paved areas. The water right (63-123F), is for 1.385 cfs of irrigation water from March 1 to November 15, with an acre limit of 136.8 acres.

SUEZ intends to buy this water right and transfer the place of use and place of diversion for use in SUEZ's municipal system and service area. In connection with the transfer, the Idaho Department of Water Resources is requiring SUEZ to identify specific acres within SUEZ's service area that will be irrigated with the water right.

This memorandum documents our analysis identifying those acres, which are displayed in Figure 1 below.

SUMMARY OF PLACE OF USE CALCULATION

We chose an area within the SUEZ service territory that can be supplied by either the Marden Water Treatment Plant (WTP) or Columbia WTP (the proposed post-transfer points of diversion for water right 63-123F), and that is not included in a canal company boundary, and therefore would not have a canal irrigation water right. The North End of Boise was selected.

We used a three-step analysis to determine where 136.8 acres would be irrigated in SUEZ's service area under the transferred water right: (1) identify an area in Boise's North End where 136.8 acres is irrigated, based on average percentage of irrigated land in the vicinity; (2) determine how many acres within that initial area are likely irrigated with domestic wells or irrigation water rights; and (3) increase the initially identified area to account for the domestic wells and irrigation water rights.

In summary, based on the average percentage of irrigated area in Boise's North End (approximately 36 percent), a total land area of 380 acres was initially identified ($136.8 \text{ acres} / 0.36 = 380 \text{ acres}$). To this shape, we added 5.0 acres in areas where no private wells or irrigation water rights exist to account for irrigation from individual domestic wells and irrigation rights in the initially identified 380 acre area. The final result is the 385 acre area identified in Figure 1, within which 136.8 acres will be irrigated with the transferred water right.



DETAILED PLACE OF USE CALCULATION

1. INITIAL IRRIGATED AREA CALCULATION BASED ON SAMPLE GRIDS. To determine an average irrigated area percentage of residential area in the North End we randomly selected 5 sample areas, and manually calculated the irrigated area percentage in these grids. The average percentage of irrigated area in the five sample grids is approximately 36%. Appendix A includes the detailed sample area calculation information.

Based on this 36% figure, we initially identified a total land area of 380 acres ($136.8 / 0.36$) as the area containing the lands proposed for irrigation under the transferred water right.

2. DOMESTIC WELL AND IRRIGATION WATER RIGHT ANALYSIS. We searched the IDWR database for individual wells in the initial 380 acre area to account for any area that might be irrigated by domestic/irrigation wells. We found nineteen total well locations in the area, with fourteen well logs expressly describing "domestic" use, one describing "yard," one describing "lawn," and three describing "irrigation" use. Because we identified only one recorded irrigation water right associated with any of the wells (discussed below in the irrigation water rights paragraph), we assumed the "yard," "lawn," and two of the "irrigation" wells supply uses similar in nature to "domestic" irrigation. Thus, we identified a total of 18 wells that appear to be associated with unrecorded domestic water rights.

Although each domestic well can irrigate up to 0.5 acres under an unrecorded domestic water right, the lots in this area average about 0.2 acres total. We assume that only one lot is irrigated with each well, for a total of 18 lots covering a total of 3.6 acres ($18 \text{ lots} \times 0.2 \text{ acres} = 3.6 \text{ acres}$) within the initial 380 acre area that are irrigated with private wells under unrecorded domestic water rights. To address this, we added 3.6 acres to the initial 380 acre area. Appendix B includes information used in this analysis, including the well logs.

We also searched IDWR's database for irrigation water rights with places of use in the initial 380 acre area. There are four irrigation water rights identified as wholly or partially within the area. Of these, only two of them appear to actually irrigate land—0.5 acres—in the 380 acre area. To account for this, another 1.4 acres ($0.5 \text{ acres} / 0.36 = 1.4$) was added to the initial 380 acre area. Appendix C includes information used in the irrigation water right analysis.

3. FINAL PLACE OF USE CALCULATION. Based on the average percentage of irrigated area in Boise's North End (approximately 36 percent), a total land area of 380 acres was initially identified ($136.8 \text{ acres} / 0.36 = 380 \text{ acres}$). To this shape, we added 5.0 acres in areas where no private wells or irrigation water rights exist to account for irrigation from individual domestic wells and irrigation rights in the initially identified 380 acre area. The final result is the 385 acre area identified in Figure 1, within which 136.8 acres will be irrigated with the transferred water right.

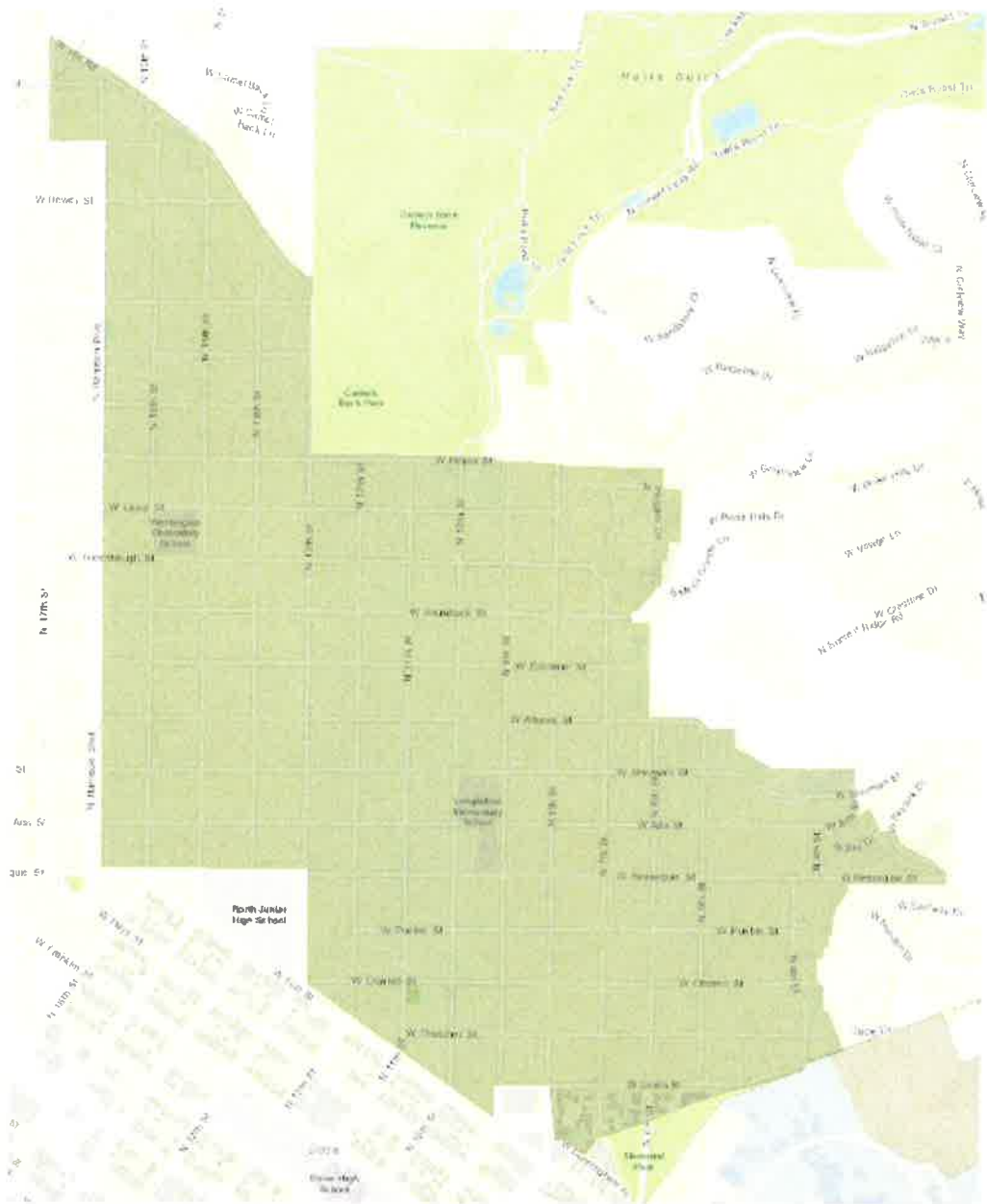


Figure 1 – SUEZ Irrigated Area, 385 acres total, within which 136.8 acres will be irrigated with the transferred water right No. 63-123F.

APPENDIX A

SAMPLE GRID IRRIGATED AREA CALCULATION

1. A 2.3 acre grid square was created
2. 5 sample sites of 2.3 acres each were randomly selected in Boise's North End area.
3. Ortho photos from 2013 (flown in fall or spring) show a clearer view of ground cover without tree leaves present than ESRI-produced USA NAIP imagery NDVI layer from 2017. We used the 2013 imagery for this calculation since it did not include as much tree cover.
4. The images were manually assessed and we covered the grass/irrigable areas with a vibrant green color.
5. A color summarizer on the web was used to calculate areas of different colors, <http://mkweb.bcgsc.ca/color-summarizer/?home>
6. The 5 grid squares analyzed are included on the following pages.
7. Average irrigated percentage calculated from the 5 random grid squares is approximately 36%.

Sample Grid	Irrigated Percentage
First Sample Grid	32.5%
Second Sample Grid	38.6%
Third Sample Grid	33.7%
Fourth Sample Grid	36.3%
Fifth Sample Grid	37.5%
Average	35.7%

First Sample Grid – 32.5% Irrigated Area

IMAGE COLOR SUMMARY



THE IMAGE IN WORDS:
 antique aquashield area
 arrowtooth beige bison bronze
 cougar crangleburn cream
 crownhead dark darkish deep
 dns double dune dusty eighth
 element emerald flimpro
 fuscous grayish green grey
 grullo half hide hunter joss
 lodge hermit malts masala
 match medium millbrook mine
 monde moss naga nocturnal
 nomad oil oilskin olive pable
 pastel pointer pranda quarry
 quarter raincloud routeburn
 sand seagrass shadow shaft slate
 stone stonevall synchronise
 tabac tallman tapa tea
 thorndon touchstone triple
 white

COLOR CLUSTERS

Colors in the image were clustered into 10 groups **by means**. The average color of the colors for each cluster is shown. The names are the closest **named color** and its distance is shown using ΔE . The tags are the set of words formed by all named neighbours within $\Delta E \leq 5$. The list of words above is the set of all unique words in this set of words.

Cluster colors, sized by number of pixels:

cluster	pixels	name	HEX	RGB	HSV	LCH	Lab	tags
	20,975	 100% green (HEX: 006400)	#006400	16 187 32	116 97 73	65 82 142	66 -64 57	dark green green
	77,045	 15% (20,195) greyish brown (HEX: 8B734D)	#8B734D	121 118 100	41 21 50	50 11 30	50 0 11	arrowhead arrowtooth crownhead dune grullo half hide hunter joss lodge hermit malts masala
	10,975	 11% (11,771) dark brown (HEX: 654321)	#654321	87 83 72	44 11 34	35 7 34	35 0 7	dark brown dark brownish dark brownish green lodge hermit malts masala millbrook mine
	33,895	 10% (10,132) light brown (HEX: D2B48C)	#D2B48C	150 154 132	39 20 05	84 19 31	84 5 18	dark brown dark brownish dark brownish green lodge hermit malts masala millbrook mine
	7,135	 0% (0,0,0) black (HEX: 000000)	#000000	45 50 48	25 5 78	10 2 45	29 -47 7	dark brown dark brownish dark brownish green lodge hermit malts masala millbrook mine
	7,545	 1% (1,111) dark grey (HEX: 333333)	#333333	137 130 124	43 12 37	17 9 33	37 -49 15	dark brown dark brownish dark brownish green lodge hermit malts masala millbrook mine
	5,985	 1% (1,111) green (HEX: 008000)	#008000	47 154 71	113 92 64	60 82 144	66 -62 38	dark green green
	7,835	 1% (1,111) dark green (HEX: 006400)	#006400	52 131 35	130 61 57	45 48 144	45 -55 28	dark green dark greenish dark greenish green
	7,135	 1% (1,111) green (HEX: 008000)	#008000	58 187 34	114 92 64	58 82 144	66 -62 38	dark green greenish greenish green
	4,315	 1% (1,111) light green (HEX: 90EE90)	#90EE90	123 195 15	112 85 85	64 97 138	64 -24 21	dark green greenish greenish green

Second Sample Grid – 38.6% Irrigated Area

IMAGE COLOR SUMMARY



THE MAGIC OF WORDS

akarsa ash bandicoot basin chain charleston cliffhanger
climate cloud comsilk cotton cougar cragmound dark double
eight element eternity evolution lion forest friar fruit granite
gravel green grey gruff half haze heavy haze isotonic karens
kilarney light mandrake mangrove medium merlin metal mist
modular maze nocturnal nullarbor oil olivian olive pasika
paste, penar piston praida pure quart reaction relic rock
roubleum salad sandcastle seed sial stonheghe trye swamp
tapa tea touchstone transporter triple truffle volcanic
woodsword yeller

COLON CLUSTERS

Colors in the image were clustered into 10 groups (**k-means**). The average color of the colors for each cluster is shown. The name is the closest **named color** and its distance is shown using ΔE . The tags are the set of words formed by all named neighbours within $\Delta E < 2$. The list of words above is the set of all unique words in this set of words.

Cluster colors, sized by number of nodes:

[illegible]

IMAGE COLOR SUMMARY



the usual six words:
 aquashield arrowtown ash black
 burnside cement charleston cornsilk
 cougar crabgrass dark deep
 double dragon eighth element
 equilibrium evolution flimpo
 foundry fear from granite grass
 green grey half haze heathered
 heavy hippie ironside ivory
 kangaroo karen lemon light
 lighthouse lioness mandrake masala
 medium metal millberry monde
 napsa next olive overland oyster
 pale pale paradise pastel power
 pointer pure quart quarter quill
 raptor reic salad sea space squall
 stone stonevial still synchronise
 talsman tava ste tris trisiana
 tripnateptree triples triple truffie
 tuatara white yellow

COLOR CLUSTERS

Colors in the image were clustered into 10 groups (**means**). The average color of the colors for each cluster is shown. The name is the closest **named color** and its distance is shown using ΔE . The tags are the set of words formed by all named neighbours within $\Delta E \leq 5$. The list of words above is the set of all unique words in this set of words.

Cluster colors, sized by number of pixels:

[illegible]

Fourth Sample Grid - 36.3% Irrigated Area

IMAGE COLOR SUMMARY



THE IMAGE IN WORDS
 arrowtown ash asphalt bean
 brown cement charleston
 cliffhanger cloud cobblestone
 cotton cougar craigeburn dark
 double dragon egg eighth
 eternity evolution fern finar
 gargyle granite green grey half
 heavy hippie internet jungle
 karaka kelley maire makara
 malta mangrove marshland
 marlin metal midnight milky
 modular mondo moss napa
 navajo nest nuckel nomad
 nullarbor olive outback pasifika
 pastel pointer portland praida
 quarry quarter ragoon relic rock
 seed shadow soya stone
 stoner-all style synchronise
 talisman tea touchstone
 trainporter treetops triple
 truffle volcanic way wheat white

COLOR CLUSTERS

Colors in the image were clustered into 10 groups (k-means). The average color of the colors for each cluster is shown. The name is the closest named color and its distance is shown using Jk. The tags are the set of words formed by all named neighbours within Jk - 5. The list of words above is the set of all unique words in this set of words.

Cluster colors, sized by number of pixels:

cluster	pixels	name	HEX	RGB	HSV	LCH	Lab	tags
1	31.1%	dark green	#048833	10 187 51	136 95 73	65 32 142	65 -04 51	dark green grass
2	11.6%	dark brown	#454432	72 74 52	25 51 29	51 3 112	33 -12 7	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass
3	13.4%	dark brown	#030000	10 30 30	10 20 30	41 13 100	41 -12 12	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass
4	12.0%	dark brown	#7B7B7B	123 120 104	52 15 48	50 10 101	50 -12 9	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass
5	3.0%	dark brown	#1B1B1B	140 129 102	18 10 51	51 11 84	51 -12 11	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass
6	5.0%	dark brown	#A4502A	164 157 158	43 10 54	52 11 83	52 -12 11	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass
7	8.0%	dark brown	#000000	58 42 37	172 12 17	51 4 140	51 -12 11	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass
8	2.1%	dark brown	#C0C0C0	154 150 151	47 8 76	52 11 83	52 -12 11	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass
9	2.0%	dark green	#109C44	48 157 68	131 95 68	57 62 143	57 -04 51	dark green grass
10	1.0%	dark brown	#447545	74 120 73	119 42 50	48 37 141	48 -12 24	cliffhanger way heavy mangrove marshland truffle trinity touchstone wheat wheat wheat wheat wheat grass

Fifth Sample Grid – 37.5% Irrigated Area

IMAGE COLOR SUMMARY



TYPE IMAGE IN WORDS

army bandicoot bedrock black
cobalt conkerew cornish
cragbeum dark dale double
dragon dusty ephyrar evolution
fear glitterati granite gravel
green grey half haze halter
ironsand isotonix karens
killamry linen medium
millbrook monad napa oil olive
overland pastis pentar piston
possessed praida pure raptor
rockpod schist sea slother squall
strong tallisman tana tapa tea
terrain triple

LONDON CLUSTERS

Colors in the image were clustered into 10 groups. **Color means**: The average color of the colors for each cluster is shown. The name is the closest **named color** and its distance is shown using ΔE . The tags are the set of words formed by all named neighbours within $\Delta E \leq 5$. The list of words above is the set of all unique words in this set of words.

Cluster colors, sized by number of pixels:



Image	Accuracy	Image	F1A	F1B	F1C	LCM	LoP	Tags
	27.54%		0.78759	0.783.82	0.858.34	0.7.3.742	0.7.05.57	Dark, smoky, greenish
	37.42%		0.55002	0.5.37.37	0.5.17.16	0.5.3.707	0.6.742.8	Orange, reddish, dark, light, dark, greenish, brown, grey, green
	70.93%		0.94547	0.9.92.72	0.9.58.54	0.5.72.50	0.5.47.93	Orange, red, light, dark, greenish, brown, grey, green
	70.90%		0.95070	0.9.93.70	0.7.47.71	0.7.10.37	0.2.47.33	Red, brown, dark, greenish, brown, grey, green, orange, brown, grey, light, dark, greenish, brown, grey, green
	73.50%		0.94770	0.9.88.70	0.90.8.22	0.3.1.74	0.7.42.3	Orange, light, dark, greenish, brown, grey, green, orange, brown, grey, light, dark, greenish, brown, grey, green
	72.74%		0.92703	0.7.98.07	0.97.33.71	0.6.7.742	0.6.04.70	Dark, smoky, greenish
	1.32%		0.98740	0.9.97.35	0.97.07.88	0.9.54.744	0.9.44.32	Light, greenish
	1.04%		0.94341	0.9.98.07	0.98.29.05	0.7.08.743	0.7.08.42	Dark, brown, light, dark, greenish, brown, grey, green
	1.21%		0.95435	0.9.98.05	0.93.43.41	0.40.32.743	0.40.20.33	Dark, brown, light, dark, greenish, brown, grey, green
	0.91%		0.90366	0.9.98.07	0.6.34.04	0.2.17.747	0.2.21.21	Light, greenish, brown, grey, green

APPENDIX B DOMESTIC WELL CALCULATION

Well Search Results from IDWR Web Site:

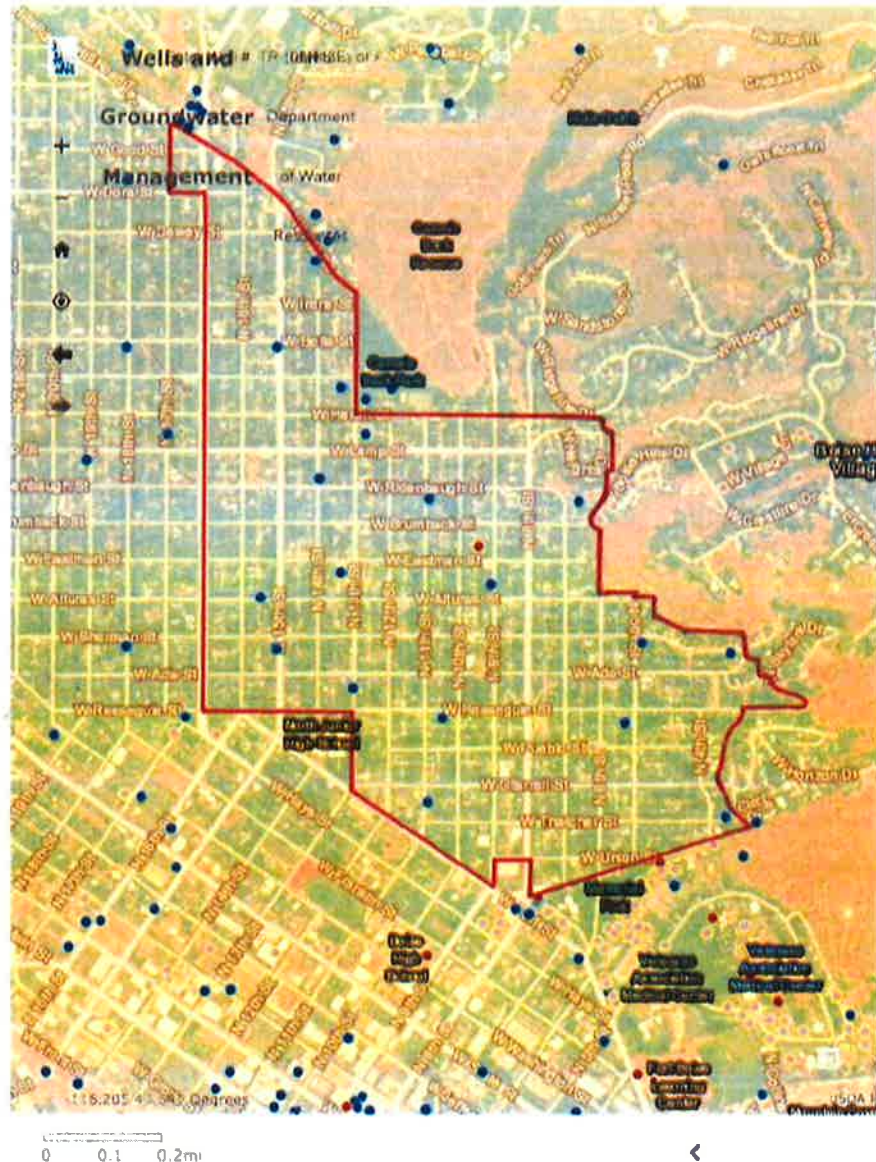


Figure B-1 – Well Search Results from IDWR Web Site and 385 Acre Area Containing 136.8 Acres to be Irrigated



1. 19 well locations found in IDWR's mapping system located within initial 380 acre area. See Figure B-1 above. The well logs are attached.
2. A total of 24 well logs linked to the 19 well locations.
 - 14 logs described domestic use.
 - 3 logs described irrigation use, only one of which (Brown) has an associated recorded irrigation water right (63-11609, addressed in Appendix C).
 - 1 log (Lunstrum) was for "yard" use.
 - 1 log (McLaughlin) was for "lawn" use.
 - 1 log (Mrs. Ralph Black) was a duplicate.
 - 1 log (Bill Cockerum) was for deepening an existing well.
 - 1 log (Rebeka Fredricks) was actually located outside the 380 acre area (in the NWNW of Sec. 3).
 - 1 log (Intermountain Gas) is a "Cathodic Protection Well" and not for domestic or irrigation use.
 - 1 log (Worbois) is an injection well and not for domestic or irrigation use.
3. Assumed the 14 domestic use wells, 2 irrigation wells (with no recorded water rights), 1 "yard" well, and 1 "lawn" well have associated unrecorded domestic water rights authorizing up to 0.5 acres of irrigation. Also assumed that each of these 18 wells irrigates only one lot.
4. Lots in the Boise North End average 0.2 acres total.
5. Irrigation of 18 lots with these private wells means that 3.6 acres must be excluded from the 380 acre area because those acres will not be served by the transferred water right no. 63-123F. To account for this, 3.6 acres must be added to the initial 380 acre area.

Received
1-30-68
Ref. 2 Baltimore

WELL OWNER: Mrs. Ralph Black
Name 1444 Baker
Address Brisbane, Calif.

Water is to be used for: *domestic*

CASING SCHEDULE: Threaded — Welded ☒

"Diam. from _____ ft. to _____ ft.
 "Thickness of casing _____ 222 _____

Steel ☒ concrete ☐ wood ☐ other ☐

perforations from _____ ft. to _____ ft.
 WAS SCREEN INSTALLED? Yes ☒ No ☐

Diam. Slot size Set from ft. to ft

strata off: _____

Locate well in section

Use other side for additional remarks

REPORT OF WELL DRILLER
State of Idaho

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:
Name Mrs. Ralph Black
Address 14th & Bella
Boise, Idaho

Owner's Permit No. _____
NATURE OF WORK (check): Replacement well ☐
New well ☐ Deepened ☒ Abandoned ☐

Water is to be used for: domestic

METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Dug ☐ Other _____

(explain)
CASING SCHEDULE: Threaded _____ Welded ☒

4 "Diam. from 39 ft. to 142 ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.

Thickness of casing: .237 Material: _____

Steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☐ No ☒ Type of
perforator used: _____

Size of perforations: _____ " by _____ "
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☐

Manufacturer's name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐

No. ☐ size of gravel _____ Gravel

placed from _____ ft. to _____ ft. Surface seal

provided? Yes ☐ No ☐ To what depth?

_____ ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐

No. ☒ Type of water: _____

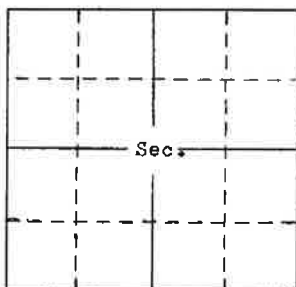
Depth of strata _____ ft. Method of sealing

strata off: _____

Surface casing used? Yes ☐ No ☒

Cemented in place? Yes ☐ No ☒

Locate well in section



LOCATION OF WELL: County Ada
SE 1/4 SW 1/4 Sec. 34 T. 4 N. 2 E. 10

Use other side for additional remarks

Size of drilled hole: 4" Total
depth of well: 163' Standing water
level below ground: 30' Temp. _____

Fahr. _____ Test delivery: 20 gpm
or _____ cfs Pump? ☐ Bail ☐

Size of pump and motor used to make test:

Compressor test

Length of time of test: one Hrs. Min. _____

Drawdown: 6 ft. Artesian pressure: ft. _____

above land surface Give flow _____ cfs

or _____ gpm. Shutoff pressure: _____

Controlled by: Valve ☐ Cap ☐ Plug ☐

No control ☐ Does well leak around casing?

Yes ☐ No ☐

DEPTH MATERIAL 041537 WATER

FROM TO YES OR NO

FEET FEET

39 58 muddy sand & gravel ☒

58 145 " " ☒

145 151 shale ☒ ☒

151 152 sand ☒

152 155 shale ☒ ☒

155 156 sand opening ☒

156 163 yellow clay ☒

Work started: Dec. 5 - 1967

Work finished: Jan. 15 - 1968

Well Driller's Statement: This well was

drilled under my supervision and this report

is true to the best of my knowledge.

Name: Ernest Kelsey

Address: R#1 - Star, Ida.

Signed by: _____

License No. 39 Date: Jan. 29 - 1968

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>LYNN A. BROWN</u> Address <u>2305 N. 14th ST</u> Drilling Permit No. <u>63-92-2-736</u> Water Right Permit No. _____	7. WATER LEVEL Static water level <u>34</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☐ Pump ☒ Bailor ☒ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td><u>506</u></td> <td><u>126'</u></td> <td><u>2 1/2</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	<u>506</u>	<u>126'</u>	<u>2 1/2</u>																																																										
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USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

Received
1-3-73
WA

1. WELL OWNER
Name Bill Cockrum
Address 2511 - Inglewood Rd Boise
Owner's Permit No. _____

7. WATER LEVEL
Static water level 32'-9" feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK
☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE
☒ Domestic ☐ Irrigation ☐ Test
☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED
☐ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION
Diameter of hole 6 inches Total depth 68 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
<u>1.25"</u> inches	<u>6</u> inches	<u>+1</u> feet	<u>68</u> feet
_____ inches	_____ inches	_____ feet	<u>67-8"</u> feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Gravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal? ☒ Yes ☐ No To what depth 28 feet
Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL
Sketch map location must agree with written location.

63

County Ada
SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 3 T. 3 N. 1 R. 2 E.

9. LITHOLOGIC LOG
39549

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
<u>6"</u>	<u>0</u>	<u>2</u>	<u>TOP SOIL</u>		
	<u>2</u>	<u>35</u>	<u>SANDY SALT CLAY</u>		
			<u>MIXED</u>		
	<u>35</u>	<u>67-8"</u>	<u>GRAVEL - WATER</u>	<u>X</u>	

8. WELL TEST DATA
☐ Pump ☐ Bailer ☒ Other Compressor

Discharge G.P.M.	Draw Down	Hours Pumped
<u>20</u>		<u>3 hr 30 min</u>

10. Work started 12/18/72 finished 12/25/72

11. DRILLER'S CERTIFICATION
This well was drilled under my supervision and this report is true to the best of my knowledge.

Ernest Kelsey 39
Driller's or Firm's Name Number

R#1 Box 56 Star Idaho
Address

Alta Kelsey 1/20/73
Signed By Date

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT



WELL DRILLER'S REPORT

3 RECEIVED

JUL 6 1977

State law requires that this report be filed with the Director, Department of Water Administration within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Bill Cochran</u> Address <u>2511 Inglerwood Rd. Boise</u> Owner's Permit No. <u>Ida</u>		7. WATER LEVEL Static water level <u>33'-7"</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow <u>1</u> Temperature <u> </u> ° F. Quality <u> </u> Artesian closed-in pressure <u> </u> p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																	
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5. WELL CONSTRUCTION Diameter of hole <u>6"</u> inches Total depth <u>227</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>2.50</u> inches Diameter <u>6</u> inches From <u>2</u> feet To <u>216</u> feet Was a packer or seal used? ☒ Yes ☐ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation <u> </u> inches by <u> </u> inches Number <u> </u> From <u> </u> feet To <u> </u> feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Johnson</u> Type <u>Stainless steel</u> Model No. <u> </u> Diameter <u>3</u> Slot size <u>30</u> Set from <u>210</u> feet to <u>227</u> feet Diameter <u> </u> Slot size <u> </u> Set from <u> </u> feet to <u> </u> feet Gravel packed? ☐ Yes ☒ No Size of gravel <u> </u> Placed from <u> </u> feet to <u> </u> feet Surface seal depth <u>40'</u> Material used in seal ☐ Cement grout ☒ Pudding clay ☐ Well cuttings Sealing procedure used ☒ Sherry pit ☐ Temporary surface casing ☐ Overbore to seal depth		10. WORK Work started <u>July 21</u> finished <u>Aug. 24, 1974</u>																																																																																																																	
6. LOCATION OF WELL Sketch map location must agree with written description Subdivision Name <u>OCT 08 1981</u> Lot No. <u> </u> Block No. <u> </u> County <u>Ada</u> <u>SW 1/4 NE 1/4 Sec. 3, T. 3 N, R. 2 E</u>		DRILLERS CERTIFICATION Firm Name <u>Ernest</u> Firm No. <u>39</u> Address <u>Star, Ida, R#1</u> Date <u>Aug. 25, 77</u> Signed by (Firm Official) <u>Ernest Kelsey</u> and <u> </u> (Operator)																																																																																																																	

098219

RECEIVED

FEB 17 1965

WELL LOG AND REPORT TO THE Department of Reclamation
STATE RECLAMATION ENGINEER OF IDAHO

SUBMIT WITHIN 30 DAYS AFTER COMPLETION OF WELL: SEE IDAHO STATUTES 42-238

Permit No. _____ Well No. _____ County Ada
Owner Ref Flenner
Address 320 - East Jefferson
Driller Ernest Kelsey
Address R#1 - Star, Idaho
Well location SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 2, T. 3 N. $\frac{1}{4}$ R. 2 E. $\frac{1}{4}$
Size of drilled hole 6"

Locate well in section

NW $\frac{1}{4}$	NE $\frac{1}{4}$
Sec. _____	
SW $\frac{1}{4}$	SE $\frac{1}{4}$

Total depth of well 62'
Give depth to standing water from the ground 27' Water temp. 50 °Fahr.
Test delivery was 30 g.p.m. or _____ c.f.s. Drawdown was 3' feet. Pump? _____ Bell? _____
Size of pump and motor used to make test Air Compressor tested
Length of time of test One hours _____ minutes.
If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____
If flowing well, described control works _____ (TYPE AND SIZE OF VALVE, ETC.)
Water will be used for irrigation Weight of casing per lineal foot _____
Thickness of casing 188 Casing material steel (STEEL, CONCRETE, WOOD, ETC.)
Diameter, length and location of casing 6" - 62' - ground level
(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
6"	1'	62'	62'	Open bottom gravel well

Number and size of perforations _____ located _____ feet to _____ feet from ground

Date of commencement of well Jan 18 - 1965 Date of completion of well Jan. 27 - 1965

SWNW S. 2 3N 2E

WELL LOG

[illegible]

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is complete, true and correct to the best of my knowledge and belief.

Signed H. J. Engleman

By _____

Dated Jan 27, 1965

License No. 256

Well Driller's Helper_____

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0064334

Drilling Permit No. 0162025-808100
Water right or injection well # _____

2. OWNER

Name **Flynnner, Scott**
Address **633 N. 14th St**
City **Boise** State **ID** Zip **83702**

3. WELL LOCATION:

Twp. **3** North ☒ or South ☐ Rge. **2** East ☒ or West ☐
Sec. **3** 1/4 **SW** 1/4 **NE** 1/4

Gov't Lot _____ County **Ada**
Lat. **43 ° 37.584** (Deg. and Decimal minutes)
Long. **116 ° 12.019** (Deg. and Decimal minutes)
Address of Well Site **2001 10th St.**

City **Boise**
Lot. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Med Chips	0	48	23 Bags	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2	108	.250	Steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☒ N Shoe Depth(s) **108'**

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type **Johnson**
Method of installation **Set In**

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
110	120	20		5"	Stainless	304

Length of Headpipe **4'** Length of Tailpipe **3'**

Packer ☒ Y ☐ N Type **K-Packer**

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
-----------------	-----------	---------	------------------------------------	------------------

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) **45'** Static water level (ft) **45'**
Water temp. (°F) **58** Bottom hole temp. (°F) **58**
Describe access port **Sanitary Well Cap**

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
65	75	30

Test method:

Pump ☐ Bailer ☐ Air ☒ Flowing artesian ☐

Water Quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water Y	N
10"	0	2	Top Soil		X
10"	2	10	Black Clay		X
10"	10	40	Brown Clay		X
10"	40	45	Coarse Sand	X	
10"	45	48	Brown Clay		X
6"	48	85	Gravel	X	
6"	85	110	Clay		X
6"	110	120	Coarse Sand	X	
6"	120	123	Blue Clay		X

RECEIVED

APR 15 2013

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) **123'**

Date: Started **3/29/2013** Completed **4/2/2013**

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name **Can-Ada Well & Pump Co.** Co. No. **304**

*Principal Driller **Earl Skinner** Date **4/11/2013**

*Driller _____ Date _____

*Operator II **Brad Skinner** Date **4/11/2013**

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

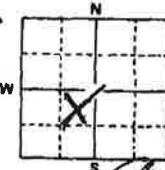
WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water
days after the completion or abandonment of the well.

Location Corrected by IDWR To:

T04N R02E Sec. 34 SESESW

By: mciscell 2012-08-28

1. WELL OWNER Name <u>Speed Garrett</u> Address <u>Bosse, Idaho</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>40</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ °F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																				
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☐ Pump ☒ Bailer ☐ Other Discharge G.P.M. <u>15</u> Draw Down <u>15'</u> Hours Pumped <u>2</u>																																																				
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection	9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>9"</td><td>0</td><td>1</td><td>Top soil</td><td></td><td></td></tr><tr><td>9"</td><td>1</td><td>30</td><td>Cemented Gravel</td><td></td><td></td></tr><tr><td>6"</td><td>20</td><td>53</td><td>Cemented Gravel</td><td></td><td></td></tr><tr><td>6"</td><td>53</td><td>62</td><td>Sand</td><td></td><td></td></tr><tr><td>6"</td><td>62</td><td>71</td><td>Hardy clay</td><td></td><td></td></tr><tr><td>6"</td><td>71</td><td>75</td><td>Clay</td><td></td><td></td></tr><tr><td>6"</td><td>75</td><td>76</td><td>Sand & Gravel</td><td></td><td></td></tr></tbody></table>	Hole Diam.	Depth		Material	Water		From	To	Yes	No	9"	0	1	Top soil			9"	1	30	Cemented Gravel			6"	20	53	Cemented Gravel			6"	53	62	Sand			6"	62	71	Hardy clay			6"	71	75	Clay			6"	75	76	Sand & Gravel		
Hole Diam.	Depth		Material	Water																																																	
	From	To		Yes	No																																																
9"	0	1	Top soil																																																		
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6"	53	62	Sand																																																		
6"	62	71	Hardy clay																																																		
6"	71	75	Clay																																																		
6"	75	76	Sand & Gravel																																																		
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other	051803 RECEIVED JUL 6 1979 Department of Water Resources Western Regional Office																																																				
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>76</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>250</u> inches Diameter <u>6</u> inches From <u>1</u> feet To <u>70</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Model No. _____ Type _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>20'</u> Material used in seal ☐ Cement grout ☐ Pudding clay ☒ Well cuttings Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth																																																					
6. LOCATION OF WELL Sketch map location must agree with written location.  Submission Name <u>1308 Hazel St. Boise, Ida.</u> Lot No. _____ Block No. _____ County <u>Ada</u> <u>N&SW</u> Sec. <u>34</u> T. <u>4</u> N/R. <u>2</u> E/W																																																					
10. Work started <u>6/12/78</u> finished <u>6/14/78</u>																																																					
11. DRILLERS CERTIFICATION Firm Name <u>Went Skinner</u> <u>2305 Canyon Dr.</u> Address <u>Meridian, Ida.</u> Date <u>6/15/78</u> Signed by (Firm Official) <u>Paul Skinner</u> and (Operator) <u>Kenneth C. Smith</u>																																																					

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

047882

WELL LOG AND REPORT TO THE STATE RECLAMATION ENGINEER OF IDAHO

Log No. **RECEIVED**
Rec. **19**
AUG 3 1954
Well No. **Department of Reclamation**
Permit No. _____

(DO NOT FILL IN)

Owner Mrs. Gerard Driller Jesse J. Doty
Address 5th & Resque Sts. 1319 Address Route 3 Boise Lic. No. 40
Location of Well: 8 1/2 Sec. 3, T. 3 N. R. 2 E. W. ada County.

and _____ feet N/S, and _____ feet E/W from _____ corner of _____ 1/4 Sec.

Water will be used for irrigation Total depth of well 43 ft.

Size of drilled hole 4" Weight of casing per linear foot 10.88

Thickness of casing 1/4 Casing material steel
e.g., pipe, concrete, wood.

Diameter, length and location of casing 42'-8" length casing
(Casing 12" in diameter and under give inside diameter; casing over 12" in diameter give outside diameter.)

Number and size of perforations _____ located _____ feet to _____ feet
from surface of ground.

Other perforations: _____

If flowing well, give flow in c.f.s. _____ or g.p.m. _____ and shut in pressure _____

If non-flowing well, give depth of standing water from surface 15'

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

On pumping test delivery was 2.5 g.p.m. or _____ c.f.s. Drawdown was less than 20 ft. feet

Length of time pumped during check was 4 hr. _____ min. Water temp. _____ ° Fahrenheit.

Date of commencement of well July 7-53 Date of completion of well July 10-53

Type of well rig 71 speed Star

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks — Seals, Grouting, Etc.
<u>4"</u>	<u>0</u>	<u>42-8</u>		

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

S. 3 S. N. 2 E

STANDARD
FORM NO. 1
1950

[illegible]

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

Signed

By

NOTARIZATION NOT NECESSARY
UNDER NEW LAW.

License No.

Dated _____, 19____.

Subscribed and sworn before me this _____ day of _____, 19____

Notary Public

My commission expires.

Residing at

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0063854

Drilling Permit No. 915144-863768

Water right or injection well # _____

2. OWNER

Name Intermountain Gas CompanyAddress P O Box 7608City Boise State ID Zip 83707

3. WELL LOCATION:

Twp. 3 North ☒ or South ☐ Rge. 2 East ☒ or West ☐Sec. 3 1/4 NW 1/4 SE 1/4

10 acres 40 acres 160 acres

Gov't Lot _____ County AdaLat. 43 ° 37.389 (Deg. and Decimal minutes)Long. 116 ° 12.100 (Deg. and Decimal minutes)Address of Well Site In alley btwn 11th & 12th and Fort & haysCity Boise

(Give at least name of road • Distance to Road or Landmark)

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection☒ Other Cathodic Protection Well

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
bentonite	0'	60'	1,800 lbs	poured & tagged
chips				

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8"	+1'	8'	.250	steel	☒	☐	☐	☐
8"	8'	50'	PVC	SDR-17	☒	☐	☐	☐
8"	50'	151'		steel	☒	☐	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 151

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____Manufactured screen ☐ Y ☒ N Type _____

Method of installation _____

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☐ N Artesian Pressure (PSIG) _____

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 14 Static water level (ft) 25

Water temp. (°F) _____ Bottom hole temp. (°F) _____

Describe access port _____

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
125	25	30	☐	☐	☒	☐

Water Quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water Y	N
12"	0'	1'	top soil		X
12"	1'	3'	brown sand		X
12"	3'	7'	brown clay		X
12"	7'	14'	sand coarse		X
12"	14'	44'	sand & gravel		X
12"	44'	46'	clay brown	X	
12"	46'	60'	sand & gravel	X	
8"	60'	71'	sand & gravel	X	
8"	71'	74'	brown clay		X
8"	74'	75'	brown sand	X	
8"	75'	102'	gray clay with hard strips		X
8"	102'	108'	cracks with white & gray sand	X	
8"	108'	115'	hard gray clay		X
8"	115'	121'	cracks with white gray sand	X	
8"	121'	133'	hard gray clay		X
8"	133'	137'	cracks with white gray sand	X	
8"	137'	150'	hard gray clay		X
8"	150'	151'	cracks	X	

RECEIVED

AUG 08 2012

WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable)

150

Date: Started 7-16-12Completed 7-20-12

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Down Right Drilling & Pump, Inc Co. No. 637*Principal Driller James P. Bergman Date 7-23-12*Driller Ray Blackett Date _____*Operator II Joe E. Eubank Date 7-23-12

Operator _____ Date _____

* Signature of Principal Driller and rig operator are required.

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

REG.

[illegible]

REPORT OF WELL DRILLER
State of Idaho

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER: W. L. Dunstrom
Name

Address 1215-2-15

Boise, Idaho

Owner's Permit No. _____

NATURE OF WORK (check): Replacement well ☐

New well ☐ Deepened ☒ Abandoned ☐

Water is to be used for: Yard

METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒

Dug ☐ Other _____

(explain)

CASING SCHEDULE: Threaded ☐ Welded ☒

6 "Diam. from 28 ft. to 50 ft.

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

"Diam. from _____ ft. to _____ ft.

Thickness of casing: .0250 Material:

Steel ☒ concrete ☐ wood ☐ other ☐

(explain)

PERFORATED? Yes ☐ No ☒ Type of perforator used: _____

Size of perforations: _____ " by _____ "

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☒

Manufacturer's name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐

No. ☒ size of gravel _____ Gravel

placed from _____ ft. to _____ ft. Surface seal

provided? Yes ☒ No ☐ To what depth?

20 ft. Material used in seal: Best mix

Did any strata contain unusable water? Yes ☐

No. ☐ Type of water: _____

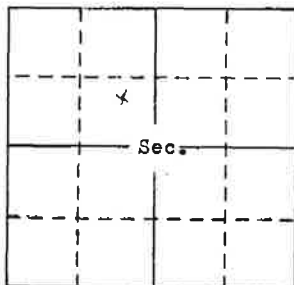
Depth of strata _____ ft. Method of sealing

strata off: _____

Surface casing used? Yes ☐ No. ☒

Cemented in place? Yes ☐ No ☒

Locate well in section



LOCATION OF WELL: County Ada
SE 1/4 NW 1/4 Sec. 3 T. 3 N. R. 2 E.

Use other side for additional remarks

Size of drilled hole: 6 " Total

depth of well: 50 Standing water

level below ground: 25-9 " Temp.

Fahr. _____ ° Test delivery: 25 gpm

or _____ cfs Pump? ☐ Bail ☐

Size of pump and motor used to make test:

Length of time of test: one Hrs. 10 Min.

Drawdown: 5 ft. Artesian pressure: ft.

above land surface _____ Give flow _____ cfs

or _____ gpm. Shutoff pressure:

Controlled by: Valve ☐ Cap ☐ Plug ☐

No control ☐ Does well leak around casing?

Yes ☐ No ☐ MATERIAL 038433 WATER

DEPTH FROM TO FEET FEET YES OR NO

28 50 gravel ☒

USGS

REPORT OF WELL DRILLER
State of Idaho

RECEIVED
MAY 31 1967

Department of Reclamation

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:
Name M. W. McLaughlin
Address 1418 - W. 2nd St. Boise, Idaho
Owner's Permit No. _____
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐
Water is to be used for: Lawn
METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Dug ☐ Other _____ (explain)
CASING SCHEDULE: Threaded ☐ Welded ☒
4" "Diam. from 0' ft. to 40' ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
Thickness of casing: 1.232 Material:
Steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☐ No ☒ Type of
perforator used: _____

Size of perforations: _____" by _____"
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☒

Manufacturer's name _____

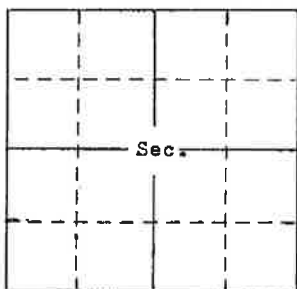
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No ☒ size of gravel _____ Gravel
placed from _____ ft. to _____ ft. Surface seal
provided? Yes ☐ No ☒ To what depth?
_____ ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐
No ☒ Type of water: _____
Depth of strata _____ ft. Method of sealing
strata off: _____

Surface casing used? Yes ☐ No ☒
Cemented in place? Yes ☐ No ☒

Locate well in section



LOCATION OF WELL: County Ada
NE 1/4 Sec. 3 T. 3 N. R. 2 E.

Size of drilled hole: 4" Total
depth of well: 40' Standing water
level below ground: 18' Temp. _____
Fahr. 50 ° Test delivery: 35 gpm
or _____ cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test:
Compressor test

Length of time of test: 2 Hrs. 10 Min.
Drawdown: 5 ft. Artesian pressure: ft.
above land surface _____ Give flow _____ cfs
or _____ gpm. Shutoff pressure: _____
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing?
Yes ☐ No ☐

DEPTH MATERIAL 40' WATER
FROM TO YES OR NO

FEET	FEET		YES	OR	NO
0	2'	top soil			
2	18'	sand			
18	24'	sand	X		X
24	40'	gravel	X		

Work started: May 24 - 1967
Work finished: May 26 - 1967
Well Driller's Statement: This well was
drilled under my supervision and this report
is true to the best of my knowledge.
Name: Ernest Kelsky
Address: Rt 1 Star, Ida.

Signed by: _____
License No. 39 Date: May 30 - 1967

Use other side for additional remarks

USGS

REPORT OF WELL DRILLER
State of Idaho

Location Corrected by IDWR To:

T03N R02E Sec. 3 NESWNE

By: mciscell 2012-09-06

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:
Name Ed McLean
Address 1703 - N - 9th
Boise, Ida.
Owner's Permit No. _____
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐
Water is to be used for: domestic
METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Dug ☐ Other _____ (explain)
CASING SCHEDULE: Threaded _____ Welded ☒
4 "Diam. from 0 ft. to 63 ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
Thickness of casing: 250 Material:
Steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☐ No ☒ Type of
perforator used: _____

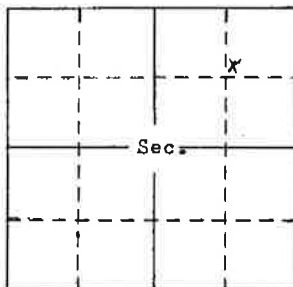
Size of perforations: _____ " by _____ "
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
WAS SCREEN INSTALLED? Yes ☐ No ☒
Manufacturer's name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No ☒ size of gravel _____ Gravel
placed from _____ ft. to _____ ft. Surface seal
provided? Yes ☒ No ☐ To what depth?
30 ft. Material used in seal: Clay

Did any strata contain unusable water? Yes ☐
No ☒ Type of water: _____
Depth of strata _____ ft. Method of sealing
strata off: _____

Surface casing used? Yes ☐ No ☒
Cemented in place? Yes ☐ No ☒

Locate well in section



LOCATION OF WELL: County Ada
NE 1/4 NE 1/4 Sec. 3 T. 3 N. 2 R. 2 E. 2

Use other side for additional remarks

Size of drilled hole: 4" Total
depth of well: 63 Standing water
level below ground: 31 Temp. _____
Fahr. 50 ° Test delivery: 25 gpm
or _____ cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test:
Compressor
Length of time of test: One Hrs. 30 Min.
Drawdown: _____ ft. Artesian pressure: ft. _____
above land surface Give flow _____ cfs
or _____ gpm. Shutoff pressure: _____
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing?
Yes ☐ No ☐
DEPTH MATERIAL 038435 WATER

FROM TO YES OR NO
FEET FEET

0	2	to sandy soil	X
2	26	Coarse sand and clay silt	X
26	31	thin clay streaks and silty clay	X
31	33	fine yellow sand and some pea gravel	X
33	50	gray sand & pea gravel	X
50	63	brown coarse sand & pea gravel	X

Work started: May 30-1969
Work finished: June 5-1969
Well Driller's Statement: This well was
drilled under my supervision and this report
is true to the best of my knowledge.
Name: Ernest Kelsey
Address: R#1 Star, Ida
Signed by: _____
License No. 39 Date: June 9-1969

USGS

REPORT OF WELL DRILLER
State of Idaho

Location Corrected by IDWR To:

T03N R02E Sec. 3 NWNWNE

By: mciscell 2012-09-06

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:
Name John Russel
Address 1914 - N. 13th
Boise, Idaho
Owner's Permit No. _____
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐
Water is to be used for: domestic
METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Aug ☐ Other _____ (explain)
CASING SCHEDULE: Threaded ☐ Welded ☒
4 "Diam. from 0 ft. to 59-7 ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
Thickness of casing: .237 Material:
steel ☒ concrete ☐ wood ☐ other ☐

(explain)
PERFORATED? Yes ☐ No ☒ Type of
perforator used: _____

Size of perforations: _____ " by _____ "
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☐

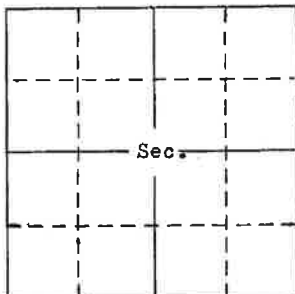
Manufacturer's name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No ☒ size of gravel _____ Gravel
placed from _____ ft. to _____ ft. Surface seal
provided? Yes ☐ No ☒ To what depth?
_____ ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐
No ☒ Type of water: _____
Depth of strata _____ ft. Method of sealing
strata off: _____

Surface casing used? Yes ☐ No ☒
Cemented in place? Yes ☐ No ☒

Locate well in section



LOCATION OF WELL: County Ada
SW 1/4 NE 1/4 Sec. 3 T. 3 N. 2 E. 1/4

Use other side for additional remarks

Size of drilled hole: 4 " Total
depth of well: 59-7 " Standing water
level below ground: .35 ' Temp. _____
Fahr. 50 ° Test delivery: 18 gpm
or _____ cfs Pump? ☒ Bail ☐
Size of pump and motor used to make test:
One horse submersible
Length of time of test: 2 Hrs. 0 Min.
Drawdown: 16 ft. Artesian pressure: ft.
above land surface _____ Give flow _____ cfs
or _____ gpm. Shutoff pressure: _____
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing?
Yes ☐ No ☐

DEPTH MATERIAL WATER
FROM TO YES OR NO
FEET FEET

0 ' .25 ' Coarse sand & Clay X
35 ' 59 ' gravel X

Work started: 6/12/67
Work finished: 6/16/67
Well Driller's Statement: This well was
drilled under my supervision and this report
is true to the best of my knowledge.
Name: Ernest Kelsey

Address: Rt 1 - Star - Ida.

Signed by: _____
License No. 39 Date: June 27-67

USGS

Ada County
Lot 14 - Blk. 21 - Hyde Park add.

file Book 1 of plats page 19

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

047879

WELL LOG AND REPORT OF THE STATE RECLAMATION ENGINEER OF IDAHO

Permit No. _____ Well No. _____ County ada
 Owner Henry Westby
 Address 311 Thatcher St Boise
 Driller F. J. Clayville
 Address 3817 Greenbrier Dr
 Well location 31 1/2 Thatcher St N 1/4 R. 2 E 1/4
 Size of drilled hole 6"

Locate well in section

NW 1/4	NE 1/4
SW 1/4	SE 1/4

Total depth of well 137 ft

Give depth to standing water from the ground 32 ft Water temp. _____ °Fahr.

On "Pumping Test" delivery was _____ g.p.m. or _____ c.f.s. Drawdown was _____ feet.

Size of pump and motor used to make test _____

Length of time of test _____ hours _____ minutes.

If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____

If flowing well, described control works _____

(TYPE AND SIZE OF VALVE, ETC.)

Water will be used for Domestic Weight of casing per lineal foot 19 lb

Thickness of casing 1/4" Casing material steel
 (STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing _____

(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER;
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.

Number and size of perforations _____ located _____ feet to _____ feet from ground

Date of commencement of well _____ Date of completion of well May 31-62

S. 2 3 N 2 E

WELL LOG

[illegible]

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed F. J. Clayville.
By _____

By _____

Dated Sept 9, 1962

License No. 43

APPENDIX C IRRIGATION WATER RIGHT CALCULATION

Using IDWR's online Irrigation Rights Finder mapping system, three irrigation water right places of use were identified as overlapping with the 380 acre area initially identified for use of the transferred water right. These are shown in Figure C-1 below.



Figure C-1 - IDWR Irrigation Rights Finder Map with SUEZ's approximate proposed irrigated area overlaid.



Four irrigation water rights are associated with the three places of use. However, only two of the water rights appear to actually be used within the 380 acre area—the IDWR Irrigation Rights Finder does not appear to correctly depict the place of use of the other two (which share a place of use). Details for these rights are provided in Figures C-2, C-3, and C-4 below.

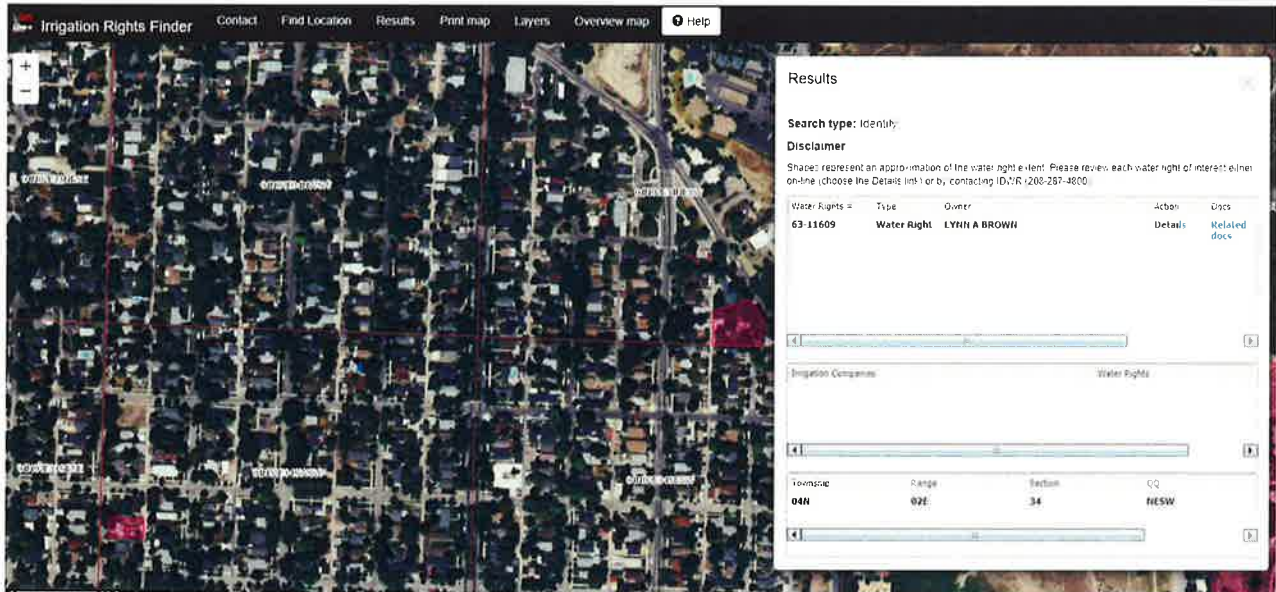


Figure C-2 - 63-11609: irrigation right; fully within proposed irrigated area; 0.3 acres.



Figure C-3 - 63-10609: irrigation right; partially within proposed irrigated area in NENE of Sec. 3; 0.2 acres.

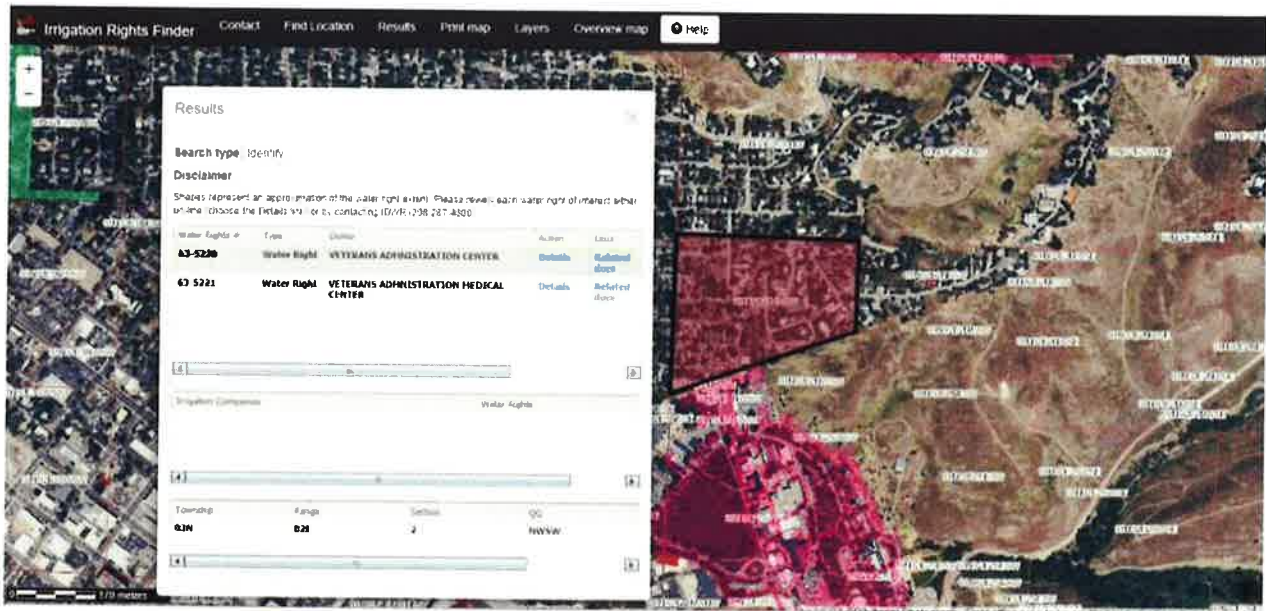


Figure C-4 - 63-5220 and 63-5221: irrigation right; 2 acres within NWSW of Sec. 2; owned by Veteran's Administration; but IDWR shape appears to be wrong—it encompasses the neighborhood to the north of the Veterans Administration land; result is no acreage included within SUEZ's irrigated acreage calculation

The two irrigation water rights within the 380 acre area (63-11609 and 63-10609) irrigate 0.5 acres. As described in Appendix B, irrigated land comprises approximately 36% of the land area in Boise's North End. Thus, to calculate the amount of land that must be added to the initial 380 acre area to account for the 0.5 acres irrigated under these irrigation rights, 0.5 was divided by the average irrigated acreage in the area of 36%, resulting in 1.4 acres ($0.5 / 0.36 = 1.4$ acres).