

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 94-7036 Priority August 13, 1973 Amount .15 cfs

THIS IS TO CERTIFY, that RUSSELL DALTON
of Kellogg, Idaho, has complied with the terms and conditions of Permit
No. 94-7036 issued pursuant to Application for Permit dated August 13, 1973,
and has submitted proof to the Department of Water Resources on August 17, 1978,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of .15 cfs of water from Rosebud Gulch,
tributary to South Fork Coeur d'Alene, and that the permit holder has applied to a beneficial use and
established a right to use water as follows: River

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
<u>Domestic</u> <u>(60 units)</u>	from <u>January 1</u> to <u>December 31</u>	at <u>15</u> cfs and	<u>72</u> acre feet
	from _____ to _____	_____ cfs and	_____
	from _____ to _____	_____ cfs and	_____
	(both dates inclusive)		

Subject, however, to the condition that no more than .15 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
72 acre feet per year, said waters to be diverted within the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 13, Twp. 48N,
Rge. 3E, B.M. in the County of Shoshone

Description and location of place of use:

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
48N	3E	13					X												
		14	X																

Total number of acres irrigated _____

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 23 day of
February, 19 81.

Director

PROFESSIONAL

Identification No. 94-7036

Application No. _____

STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION

APPLICATION FOR PERMIT **APPROVED**

To Appropriate the Public Waters of the State of Idaho
(TYPE OR PRINT IN INK)

1. Name of applicant Russel Dalton PH: 786-3763
post office address Sunshine Star Route, Kellogg, Idaho
2. Source of water supply Rosebud Gulch which is a tributary of S. F. Coeur d'Alene River
3. a. Location of point of diversion is NW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 13 Township 48N
Range 3E B.M. Shoshone County; additional points of diversion if any: _____

- b. If water is not consumed, it will be discharged into _____ at a point in _____ $\frac{1}{4}$
of _____ $\frac{1}{4}$ of Section _____ Township _____ Range _____ B.M. _____
4. Water will be used for the following purposes:
Amount 0.5 for Domestic purpose from Jan. 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. 0.5 cubic feet per second and/or
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. Small diversion dam with 4" pipeline
leading to place of use.

- b. Height of storage dam _____ feet, active reservoir capacity _____ acre feet; total reservoir
capacity _____ acre feet, materials used in storage dam: _____
Period of year during which storage will occur _____ to _____ inclusive.
(Mo. Day) (Mo. Day)
- c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use
is 5 years.
b. Estimated construction cost is \$ _____.
8. Description of proposed uses:
a. If water is **not** for irrigation:
(1) Give the place of use of water: NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 13 Township 48N
NE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 14 Township 48N
Range 3E B.M. _____
(2) Amount of power to be generated: _____ hp under _____ feet of head.
(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be
supplied with domestic water 60 mobile homes
(5) If water is to be used for other purposes describe: Irrigation of lawns.

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP.	RANGE	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	

Total number of acres to be irrigated _____

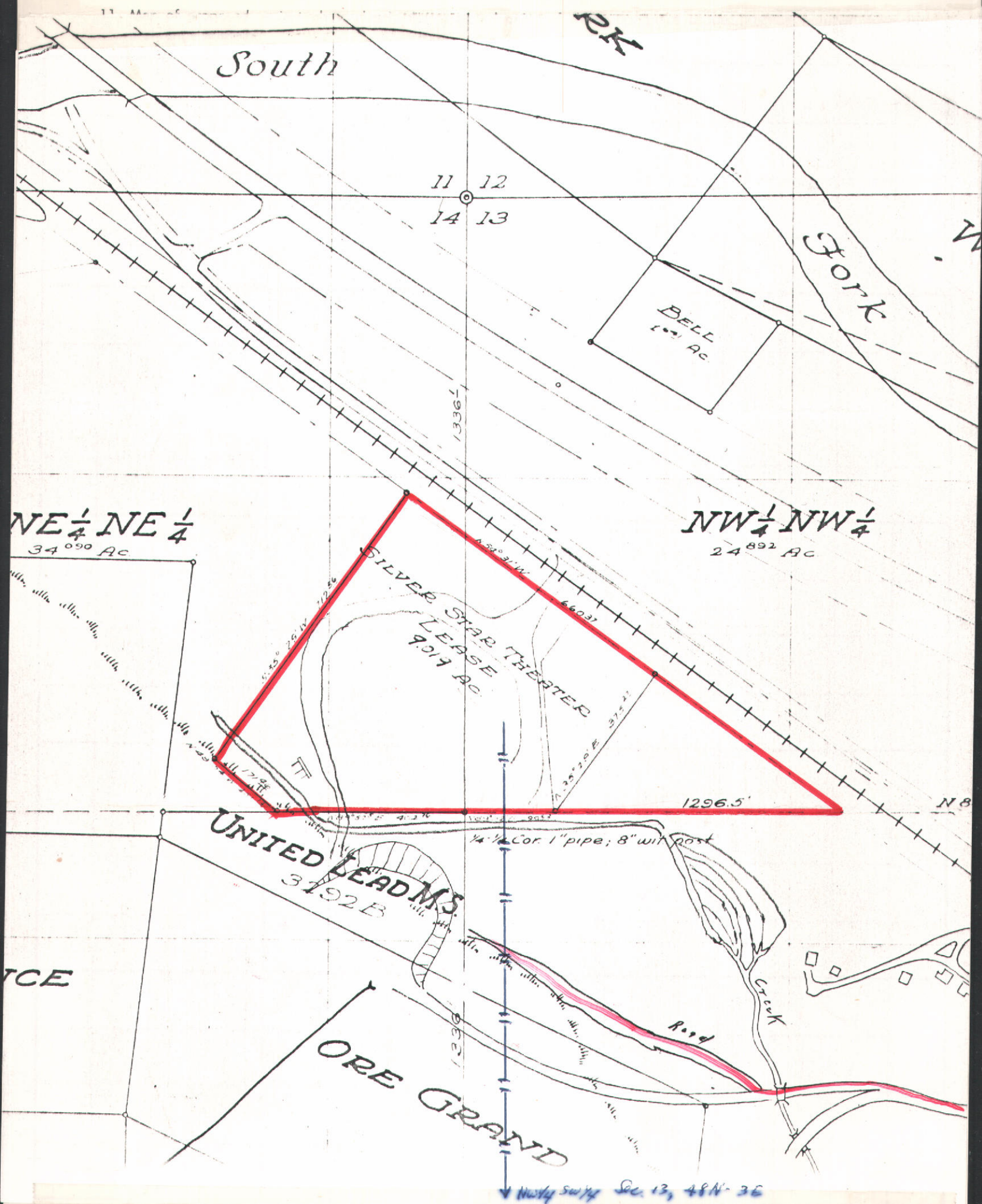
c. Describe any other water rights used for the same purposes as described above. _____

9. a. Who owns the property at the point of diversion Hecla Mining

b. Who owns the land to be irrigated or place of use Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing _____

10. Remarks _____



BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Russell Dalton
(Applicant)

94 7036

Proposed Priority 8/13/1973

Received by FE Date 8/13/73 Time 9:30 am.

Preliminary check by FE Fee \$ 25.00

Receipted by FE Date 8/13/73 # 11851

Publication prepared by CR Date 8-16-73

Published in Kellogg Evening News

Publication dates 8-23 & 8-30-73

Publication approved CP Date 9-17-73

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by W JLS

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER ADMINISTRATION

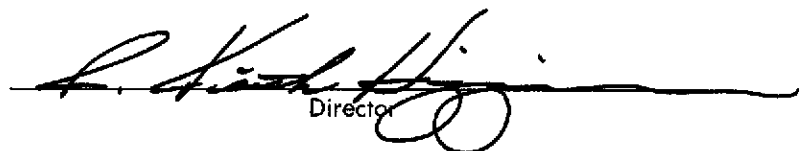
This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 94-7036, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before September 1,, 19 78.
- c. Other: A measuring device of a type approved by this department shall be permanently installed and maintained as part of the diverting works.

2. Denial of said application is for the following reasons: _____

Witness my hand this 28th day of September 1973.


Director

94 7036

DEPARTMENT OF WATER ADMINISTRATION
- STAFF ANALYSIS -

Item	Initial	Date	
(1)	<u>LE</u>	<u>8/13/73</u>	Application No. <u>94-7036</u>
(2)			☒ Source ☒ Point of Diversion ☒ County ☒ Quantity of Water and Period of Use ☒ Description of Diverting Works ☒ Time required for B/U of water ☒ Place of Use or Acres Irrigated ☒ Map ☒ Signature ☒ Fee
(3)	<u>LE</u>	<u>8/13/73</u>	In form to receipt
	<u>LE</u>	<u>8/13/73</u>	Send Copies to: ☒ Idaho State Health Department ☒ Idaho Fish and Game Department ☒ Bureau of Land Management
(4)			☐ Request Special Use Permit from U.S.F.S. ☐ Request Easement from B.L.M. ☐ Request Information from Applicant
(5)	<u>LE</u>	<u>8/13/73</u>	In form for advertising
(6)			Located within Water District No. _____
(7)			Critical groundwater area: yes _____ no _____
(8)			Groundwater levels: ____ Decline (comment) _____ ____ Stable (comment) _____ ____ Increasing (comment) _____
(9)			Comments: _____
(10)	<u>CP</u>	<u>9-17-73</u>	Affidavit of Publication received (date) <u>SEPTEMBER 17, 1973</u>
(11)	<u>CP</u>	<u>9-17-73</u>	Final date for protests <u>SEPTEMBER 10, 1973</u> Protests received: yes _____ no ☒
(12)			Date and Place of hearing _____ Decision reached at hearing _____
(13)	<u>LE</u>	<u>9/17/73</u>	All requested information received from agencies or applicant yes ☒ no _____
(14)	<u>LE</u>	<u>9/17/73</u>	Action recommended: ☒ Approve Priority <u>8/13/73</u> ☐ Deny Reason for Reduction _____ ☒ Measuring device required ☐ See attached sheet for additional conditions of approval ☐ No additional conditions for approval
(15)	District <u>Northern</u>	By <u>Robert E. Smith</u>	Date <u>9/17/73</u>

94 7036

DEPARTMENT OF WATER RESOURCES
FIELD REPORT

1. Name of permit holder Russell Dalton
 Post office address Box 313, Osburn, Id Phone 786-3763
 Person to contact _____ Phone _____

2. Source of water supply: Groundwater ☐ Surface water ☒ Rosebud Gulch
 (name spring, stream, etc.)
 Tributary to S.F. Coeur d'Alene River

3. Water will be used for the following purposes:

Amount 0.5 c.f.s. for domestic
 _____ AF/Annum (nature of use)

Period of Use: from 4/1 to 12/31
 (mo.-day) inclusive (mo.-day)

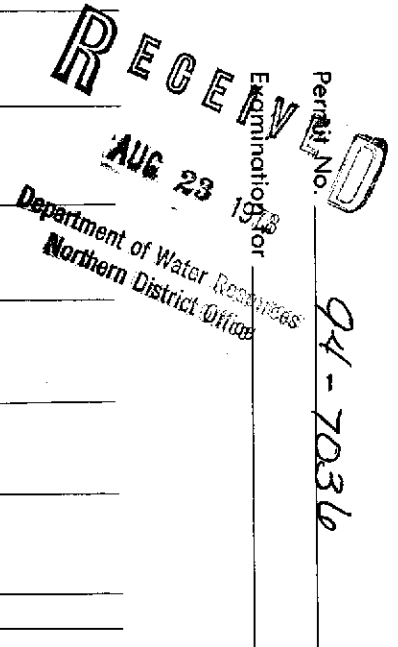
Amount _____ c.f.s. for _____
 _____ AF/Annum (nature of use)

Period of Use: from _____ to _____
 (mo.-day) inclusive (mo.-day)

Amount _____ c.f.s. for _____
 _____ AF/Annum (nature of use)

Period of Use: from _____ to _____
 (mo.-day) inclusive (mo.-day)

Other uses: _____



4. Total amount to be appropriated:

Max Rate of Diversion 0.5 cubic feet per second and annual volume _____ AF/Annum.

5. Location of Point(s) of Diversion:

Township 48N N/S, Range 3E E/W, B.M., Section 13, Subdivision NW 1/4 SW 1/4 Shoshone County
 Township _____ N/S, Range _____ E/W, B.M., Section _____, Subdivision _____ 1/4 _____ 1/4 _____ County
 Township _____ N/S, Range _____ E/W, B.M., Section _____, Subdivision _____ 1/4 _____ 1/4 _____ County

Other Points of Diversions: _____

Description of diverting works: 4 ft. cement dam, 3 in. waterline from dam to place of use

Measuring device required: yes ☒ no ☐

6. Lands to be irrigated or place of use.

TWP.	RANGE	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
48N	3E	13						X											
		14	X																

TOTAL ACREAGE _____

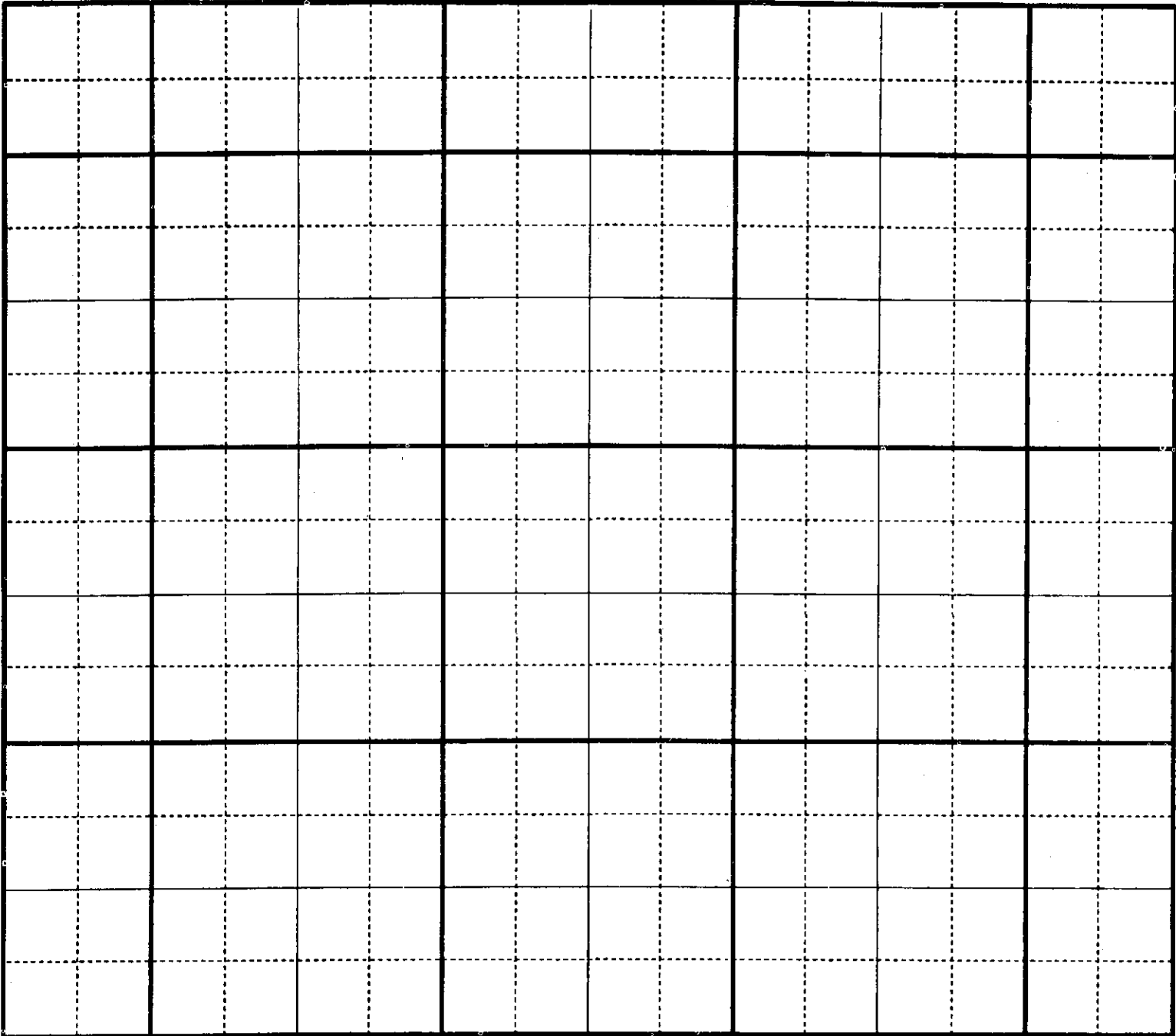


Diagram of System

DATE OF EXAM 9-1-78

ACREAGE

Found _____
Recommended _____

Irrigation Requirement _____ Ac Ft/Ac

USE

Irrigation Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Domestic Q = 0.15 c.f.s. V = 104.7 AF/Ann. from Jan 1 to Dec 31
Livestock Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____

Is water co-mingled? yes _____ no ✓

Name source: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Exchange? yes _____ no ✓

Name source exchanged with: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Point of injection:
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Point of exchange:
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Total Q measured 6.5 gpm Method of measurement meter

Total Q recommended 0.15 cfs Meter No. 779996 Type Memo Condition good

Total V recommended 104.7 AF/Ann

Recommended Amendments:

P.D. _____
Place of Use _____
Other _____
None _____

MEASUREMENT CALCULATION:

$6.5 \text{ gpm} = 0.05 (365) \times 98 = 104.7 \text{ AF/Ann}$
448.8

SYSTEM DESCRIPTION:

Dam in stream w/holding tank & pipe line to place of use

REMARKS:

For 60 Mobile Homes used in addition to 99-7026
Mr. Nelson accompanied me on exam

94-7026 - may or may not be same trailers probably
not as 99-7026 included 2 more lots.

Examiner's Signature J King Date 9-1-78

Checked by Bob Haynes Date 9.5.78

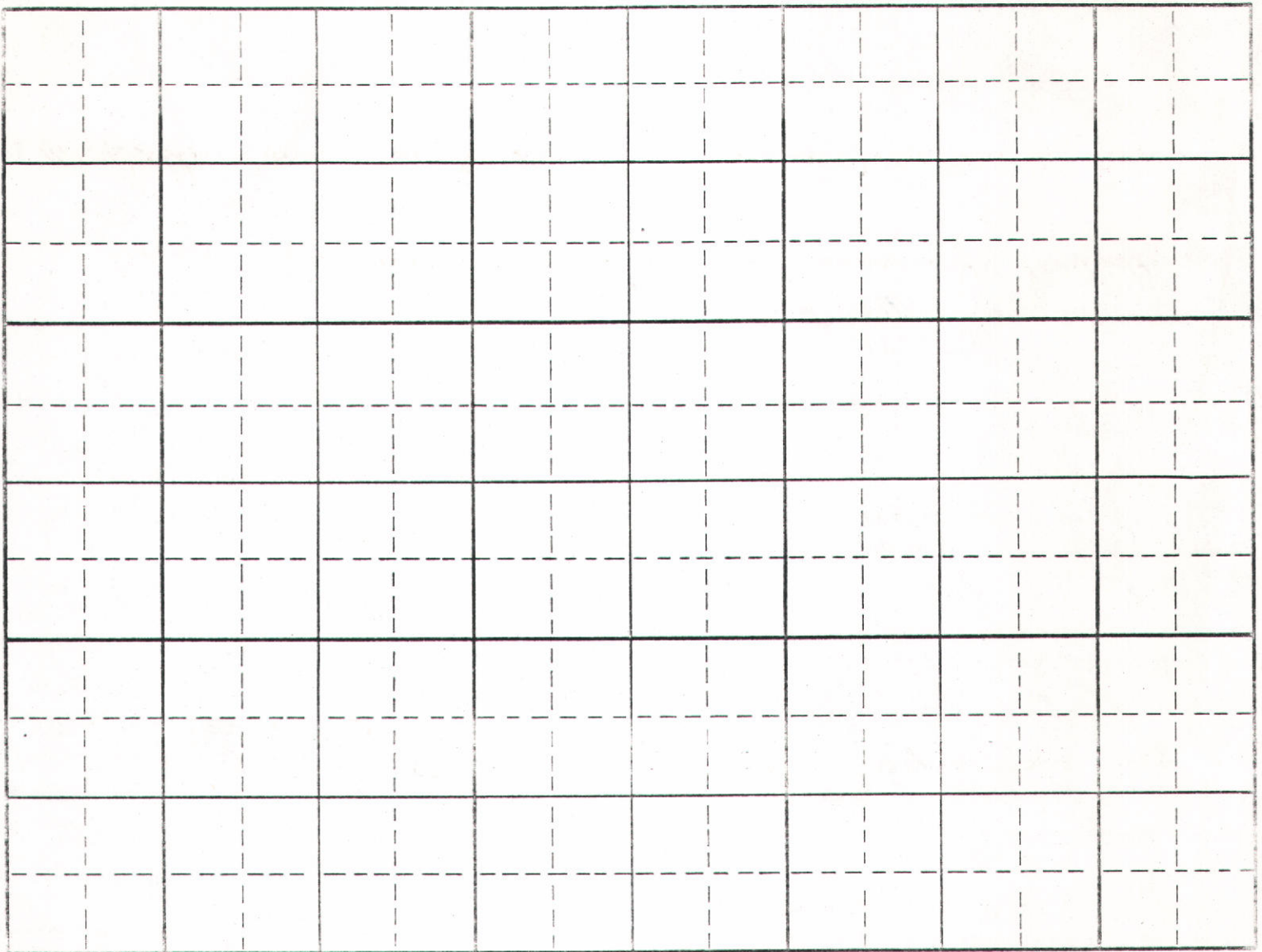
Approved by _____ Date _____

Permit No. _____

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

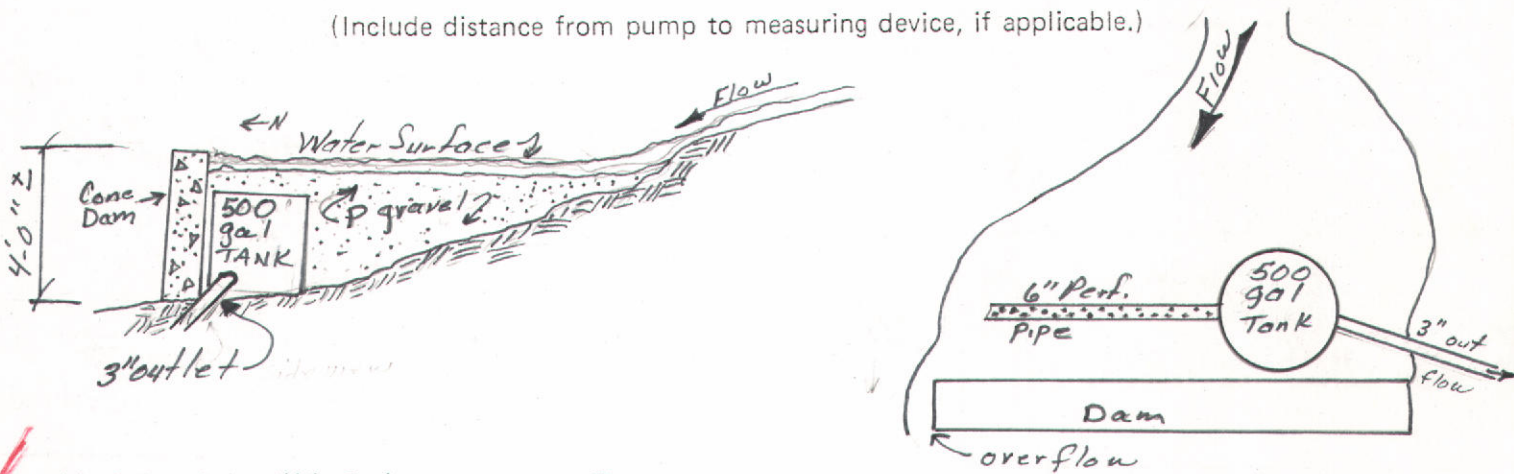
Allow 60 units for permit

MAP (Attach Aerial Photo)



SCHEMATIC DIAGRAM OF SYSTEM

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: NW SW, 13, 48N-3E

Place(s) of Use

TWP.	RGE.	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
48N	3E	13						X											
		14	X																

Recommended Amendments:

- ☐ Change P.D. as reflected above
☐ Change P.U. as reflected above

- ☐ Add P.D. as reflected above
☐ Add P.U. as reflected above

- ☒ None
☐ Other

Examiner's Signature King
 Checked by Bob Haynes
 Approved by Robyn

Date 9-17-80
 Date 9/18/80
 Date 11/19/80

Flow Computations on 94-7036

$$\text{Total Head} = 160 \text{ Ft}$$

$$\text{Operating Pressure} = 45 \text{ psi or } 105 \text{ Ft}$$

$$\text{Therefore Friction loss head} = 55 \text{ Ft}$$

$$\text{Pipe Diameter} = 3 \text{ inch}$$

$$\text{Pipe Length} = 2600 \text{ Ft}$$

Using Hazen Williams Formula

$$V = 1.318 C_{HW} R^{.63} S^{.54}$$

$$\begin{aligned} V &= 1.318 C_{HW} \left(\frac{\pi (.125)^2}{\pi (.125)} \right)^{.63} \left(\frac{55}{2600} \right)^{.54} \quad \text{Assume } C_{HW} = 110 \\ &= (1.318)(110)(.0625)^{.63} (.02115385)^{.54} \\ &= 3.15 \text{ fps} \end{aligned} \quad \begin{array}{l} \text{(New} \\ \text{Riveted} \\ \text{Steel} \\ \text{Pipe)} \end{array}$$

$$Q = AV$$

$$= \pi (.125)^2 3.15$$

$$= .154 \text{ cfs}$$

RGJ

2-9-81

✓ DRT 2-13-81

UNRECORDED

Identification No. 94-7036

Permit No. _____

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

RECEIVED

AUG 17 1978

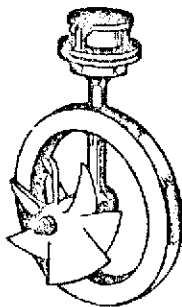
Department of Water Resources

1. a) Name of Permit Holder Russell Dalton
b) Post Office Address Box 313 Osburn, Idaho 83849
2. Permit Number 94-7036
3. Date of Priority that you are prepared to establish Sept. 1 1977
4. a) Source from which water was appropriated Rose-Bud Gulch
b) Location of the point of diversion: NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 13
Township 48N, Range 3E Boise Meridian, Other points of diversion: _____
Shoshone County
5. a) The amount of water and use to which the water has been applied:
Amount 0.5 for Domestic purposes from Jan 1 to Dec. 31 incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
b) Total amount appropriated 0.5 cfs and/or acre-feet per annum
c) Describe how and by whom measurement of rate of flow or amount of storage was made and the qualifications of the person making the measurement: Norman Smith Professional Engineer
4' diversion dam with 3" pipe line leading to place of use
6. If the means of diversion and conveyance are owned by someone other than the Permit Holder:
a) Give the name or description of the canal, ditch or other works by which the water is conducted to the place of use:
3" Cal. water line
b) Describe the agreement or understanding by which you take water from the works: _____
7. a) Briefly describe the works for diverting and conveying the water to the place of use, (if from a subterranean source, give the pump size, motor size, size of well casing, depth of well; if from surface water, give brief description of diversion structure and/or canal or ditch) ~~4 foot cement dam~~ 4 Foot cement dam, 3inch water line from dam to place of use .
b) Describe the type and size of measuring device which you have installed at your point of diversion:
3" Muesco line meter Approved by your dept. by a letter dated April 14th 1978
signed by L. Glen Saxton
c) Give well driller's name and address and the date the well was completed: _____
8. If for other than irrigation, describe the beneficial use to which you have applied the water and the place of use:
Domestic and Irrigation of lawns

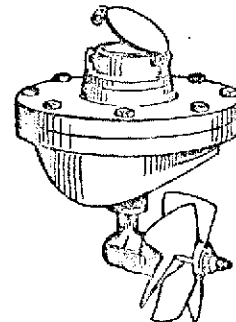
8/22/78

MUESCO

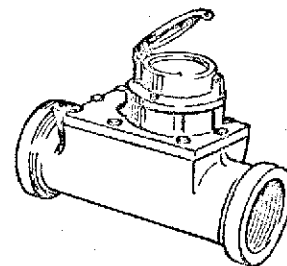
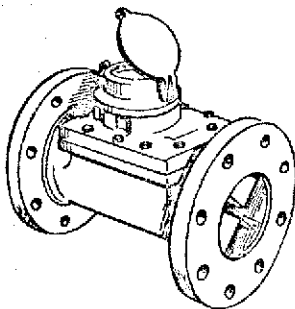
Measurement and Control Division



3" TTM



RATE A FLOW PROPELLER METERS



MODEL

00
01
02
03
05
07

TYPE

FLANGED TUBE METER
CAST IRON FLANGED TUBE METER
FABRICATED STEEL TUBE METER
THREADED TUBE METER
INSERT A METER
WELDING SADDLE METER

For Municipal and Industrial Applications

MAINTENANCE INSTRUCTIONS

Your Rate-A-Flow meter has been designed to be as maintenance free as possible. There will be occasions, however, that will require the disassembly, inspection, and replacement of internal parts.

Periodic protective maintenance is highly desirable and should be practiced once a year to assure continuous performance and accuracy.

Where tube meters are used, dummy cover plates are available so that the meterhead can be removed and the service line may remain in operation.

To remove meterhead, remove cap screws and lift meterhead assembly from the line, taking care not to damage propeller.

Inspect meterhead gasket and if cut or damaged, it should be replaced.

Remove register by removing two stainless steel screws holding register to meterhead.

The change gears on the register and meterhead should be inspected and replaced if excessive wear is visible.

The register may be cleaned by using a soft brush dipped in solvent.

If excessive wear is evident in the register gears or bushings, the unit should be returned to the factory for repair or replacement of the complete unit.

The register may be lubricated by using a light instrument oil.

The gear box can be inspected by simply turning the propeller with the fingers, checking for binds or drag in the assembly.

If inspection reveals the unit is not functioning smoothly and free of binds and drag, the assembly should be replaced or repaired.

First remove vertical shaft by removing lock ring directly underneath vertical shaft gear. Then remove vertical shaft by lifting it from the meterhead.

Remove the propeller and then remove the three stainless screws holding the prop support arm to the gear box. After screws are removed, the complete unit will slide out with a slight twist or turning action.

Complete unit is visible and now it can be determined if it should be repaired or replaced.

Reassemble meter by reversing the above procedure.

Prior to securing register in place, make certain gears are properly meshed. Too tight a mesh will retard the operation of the unit.

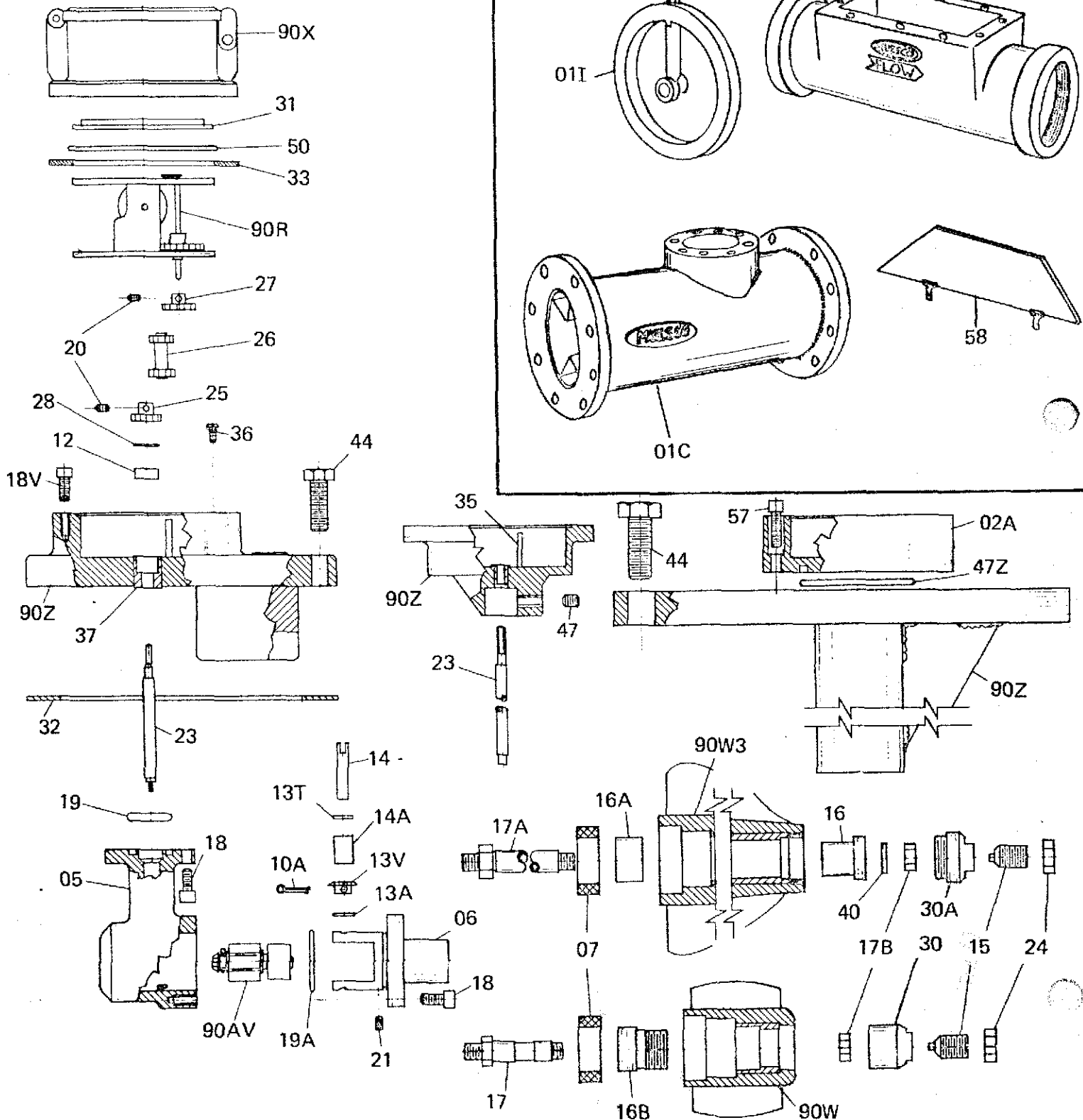
Meter may now be reinstalled in the line.

Meter is factory lubricated and does not require field lubrication.

If factory repair is required, the complete meterhead and register may be sent to the factory at MUESCO, Inc., Western Division, 674 N. Batavia St., Orange, Calif., 92668.

REPAIR PARTS BULLETIN FOR MUESCO MAIN LINE PROPELLER METERS

WHEN ORDERING REPAIR PARTS BE SURE TO
TO GIVE THE METER SERIAL NO., SIZE,
MODEL AND ITEM NO.



X = Not Applicable

These Prices Subject to Change Without Notice

NO.	PART NO.	DESCRIPTION	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"
01C	000090T	Cast Iron Flanged Tube 00,01	95.00	115.00	135.00	185.00	235.00	290.00	X	X	X	X	X	X	X
01F	020001	Fabricated Steel Tube 02	X	X	135.00	185.00	235.00	290.00	350.00	450.00	550.00	650.00	850.00	1000.00	1500.00
01I	050090T	Insert A Meter Ring 05	X	X	95.00	105.00	110.00	120.00	150.00	200.00	250.00	300.00	375.00	450.00	600.00
01T	030001	Threaded Tube 03	95.00	115.00	135.00	X	X	X	X	X	X	X	X	X	X
01W	070001	Welding Saddle 07													
02A	020002A	FST Reg Base	X	X	X	X	X	X	X	30.00	30.00	30.00	30.00	30.00	30.00
05	000005V	Gear Box	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
06	000006V	Prop Support Arm	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
07	000007W	Ring Magnet	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
10A	000010AV	Cotter Pin	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
12	000012V	Hard Rubber Bushing	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
13A	000013AV	Teflon Washer	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
13	000013VC	36 Tooth Bevel Gear	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
14A	000014AVC	Sleeve Bevel Gear Shaft	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	000014VC	Bevel Gear Shaft	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
15	000015	Pivot Thrust Bearing	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
16A	000016AW	Rear Bushing 3-B Prop	X	X	X	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
16B	000016BW	6-B Prop Bushing	8.00	8.00	8.00	8.00	X	X	X	X	X	X	X	X	X
16	000016W	Front Bushing 3-B Prop	X	X	X	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
17A	000017AV	3 Blade Prop Shaft	X	X	X	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
17B	000017B	Prop Lock Nut	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70
17	000017V	6 Blade Prop Shaft	8.00	8.00	8.00	8.00	X	X	X	X	X	X	X	X	X
18	000018V	Socket Head Cap Screw	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
19A	000019AV	1 1/4" 'O' Ring	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
19	000019V	1" 'O' Ring	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
20	000020V	Register Gear Set Screw	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
21	000021V	Set Screw Support Arm	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
23	000023	Vertical Shaft	7.00	7.00	7.00	7.25	7.50	7.75	8.00	8.25	8.50	9.00	9.50	11.00	12.00
24	000024	Lock Nut	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70	.70
25	000025	Vertical Shaft Gear (Specify Teeth)	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
26	000026	B-C Gear (Specify Teeth)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
27	000027	Register Gear (Specify Teeth)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
28	000028Z	Retaining Ring	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	000030	6-B Nose Cone	3.50	3.50	3.50	3.50	X	X	X	X	X	X	X	X	X
30A	000030A	3-B Nose Cone	X	X	X	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
31	000031X	Register Lens	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
32	000032	Cover Plate Gasket	1.50	1.50	2.00	3.50	3.50	3.50	4.00	4.00	4.00	4.50	4.50	5.00	5.00
33	000033	Register Box Gasket	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50	.50
35	000035Z	B-C Gear Post	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	000036V	Pan Head Screw	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25	.25
37	000037Z	Vertical Shaft Bushing	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
40	000040	Flat Washer	X	X	X	.40	.40	.40	.40	.40	.40	.40	.40	.40	.40
42	000042	Bonnet	5.00	5.50	6.00	X	X	X	X	X	X	X	X	X	X
44	000044	Cover Plate Bolts	.50	.50	.50	.75	.75	.75	.75	.75	.75	.75	.75	.75	.75
47	050047	ISM Set Screw 05	X	X	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
47Z	020047Z	Register Base O Ring	X	X	X	X	X	X	X	1.50	1.50	1.50	1.50	1.50	1.50
50	000050X	Lens Retaining Ring	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80
57	050057B	FST Reg Base Bolt	X	X	X	X	X	X	X	.50	.50	.50	.50	.50	.50
58	070058	Straightening Vanes 07													
90AV	000090AV	Rotor Magnet Shaft Assy.	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
*90R	000090R	Register Complete	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
90V	000090V	6-Blade Support Arm Assy.	80.00	80.00	80.00	80.00	X	X	X	X	X	X	X	X	X
90V	050090V	Above less Gear Box 05	60.00	60.00	60.00	60.00	X	X	X	X	X	X	X	X	X
90V3	000090V3	3-Blade Support Arm Assy.	X	X	X	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
90V3	050090V3	Above less Gear Box 05	X	X	X	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
90W	000090W	6-Blade Propeller	40.00	40.00	50.00	50.00	X	X	X	X	X	X	X	X	X
90W3	000090W3	3-Blade Propeller	X	X	X	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	140.00
90X	000090X	Register Box Assy.	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
90Z	000090Z	Cover Plate Assy.	52.00	63.00	75.00	100.00	130.00	160.00	185.00	225.00	275.00	300.00	325.00	350.00	400.00
90Z	050090Z	ISM Register Base Assy. 05	X	X	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
102	B-102	Cap Nut	1.30	1.30	1.30	1.30	1.30	X	X	X	X	X	X	X	X
103	B-103	3/8 Ball Bearing	6.50	6.50	6.50	6.50	6.50	X	X	X	X	X	X	X	X
104	B-104	5/16 Ball Bearing	6.50	6.50	6.50	6.50	6.50	X	X	X	X	X	X	X	X
117	B-117	6B Ball Bearing Shaft	8.00	8.00	8.00	8.00	X	X	X	X	X	X	X	X	X
117A	B-117A	3B Ball Bearing Shaft	X	X	X	X	16.00	X	X	X	X	X	X	X	X

*Specify Type of Registration and Meter Size

Stainless Steel Parts Add 25%

Parts Requiring 250 PSI Drilling add 25%

See Back Page for Optional Equipment, Warranty Coverage and Repair Charges.

BE SURE TO GIVE THE METER SERIAL NO. WHEN ORDERING

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Russell Dalton,
Sunshine Star Route, Kellogg, Idaho
has on August 13, 1973 submitted Application No. 94-7036
for a permit to appropriate 0.5 cubic feet per second ~~acres feet per annum~~
of water from Rosebud Gulch
by means of small dam and pipeline
within the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 13, T. 48N, R. 3E, B.M., Shoshone County

to be used from Jan. 1 to Dec. 31
for domestic purposes for 60 mobile homes

within the NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 13; NE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 14, T. 48N, R. 3E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Administration, 401 Front Ave., Coeur d'Alene, Idaho, 83814 on or before September 10, 1973.

R. KEITH HIGGINSON

Director

Published in the Kellogg Evening News, Kellogg, Idaho
on August 23 and August 30, 1973