

[illegible]

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements: Domestic 5 gallons in 17 seconds
Power Weir 6" wide 2" head

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Domestic
5 gal in 17 sec
18 gpm
0.04 cfs

Power See Attached

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

$$.11 \times 365 \times 1.9835$$

$$79.7 \text{ AF}$$

Power

$$1 \times 1.2$$

$$1.2 \text{ AF}$$

Domestic

$$\begin{array}{r} 79.7 \\ + 1.2 \\ \hline 80.9 \text{ AF} \end{array}$$

Total

G. NARRATIVE/REMARKS/COMMENTS

THIS SYSTEM USES WATER OUT OF DELYLE CREEK FOR DOMESTIC AND POWER. A MEASUREMENT OF THE DOMESTIC USE WAS TAKEN DURING THE FIELD EXAM. IT WAS 5 GALLONS IN 17 SECONDS OR 0.04 CFS. THE OUT FLOW FROM THE POWER USE FLOWS THROUGH A MEASURING DEVICE THAT MEASURED 0.11 CFS. THE TOTAL DIVERSION OUT OF DELYLE CREEK IS 0.15 CFS.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
POWER	01/01 to 12/31	0.110 CFS	79.70 AF
DOMESTIC	01/01 to 12/31	0.040 CFS	1.20 AF
<u>Totals:</u>		0.150 CFS	80.90 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name

Date 11-20-08

Reviewer

Date 11/20/08

Table 7.—Three-halves powers of numbers for use in determining $H^{3/2}$, $h^{3/2}$, or $(H+h)^{3/2}$. (See sec. 14.)—Continued

Number	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5.5	12.90	12.93	12.97	13.00	13.04	13.07	13.11	13.15	13.18	13.22
5.6	13.25	13.29	13.32	13.36	13.39	13.43	13.47	13.50	13.54	13.57
5.7	13.61	13.64	13.68	13.72	13.75	13.79	13.82	13.86	13.90	13.93
5.8	13.97	14.00	14.04	14.08	14.11	14.15	14.19	14.22	14.26	14.29
5.9	14.33	14.37	14.40	14.44	14.48	14.51	14.55	14.59	14.62	14.66
6.0	14.70	14.73	14.77	14.81	14.84	14.88	14.92	14.95	14.99	15.03
6.1	15.07	15.10	15.14	15.18	15.21	15.25	15.29	15.33	15.36	15.40
6.2	15.44	15.48	15.51	15.55	15.59	15.62	15.66	15.70	15.74	15.78
6.3	15.81	15.85	15.89	15.93	15.96	16.00	16.04	16.08	16.12	16.15
6.4	16.19	16.23	16.27	16.30	16.34	16.38	16.42	16.46	16.50	16.53

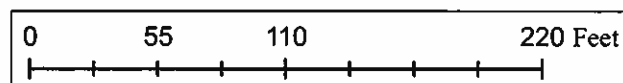
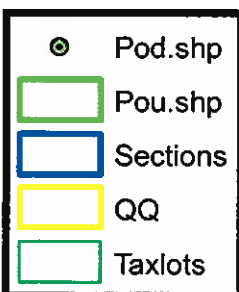
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2" = .17' head
6" = .5' Length

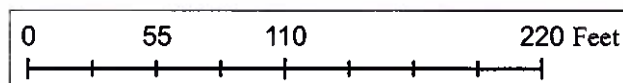
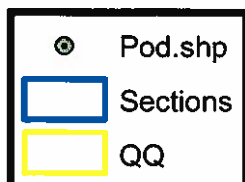
Table 8.—Discharge of standard contracted rectangular weirs in second-feet. Values below and to left of heavy line determined experimentally; others computed from the formula $Q=3.33(1-0.2H)^{1.485}H^{1.485}$ (See sec. 15.)

Head H_f feet	Length of weir, L , feet										
	0.5	1.0	1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.01	0.002	0.003	0.005	0.007	0.010	0.013	0.016	0.020	0.023	0.026	0.030
0.02	0.005	0.009	0.014	0.019	0.025	0.031	0.037	0.044	0.050	0.056	0.063
0.03	0.009	0.017	0.026	0.034	0.044	0.053	0.063	0.074	0.084	0.095	0.105
0.04	0.013	0.026	0.040	0.053	0.071	0.086	0.103	0.120	0.138	0.155	0.173
0.05	0.018	0.037	0.055	0.074	0.109	0.143	0.180	0.218	0.260	0.297	0.334
0.06	0.024	0.048	0.073	0.097	0.146	0.195	0.244	0.293	0.342	0.391	0.439
0.07	0.030	0.061	0.092	0.123	0.185	0.246	0.308	0.368	0.431	0.493	0.554
0.08	0.036	0.074	0.112	0.149	0.226	0.300	0.375	0.450	0.526	0.601	0.676
0.09	0.043	0.086	0.133	0.178	0.268	0.358	0.448	0.538	0.628	0.718	0.807
0.10	0.051	0.103	0.156	0.208	0.314	0.419	0.524	0.630	0.735	0.840	0.945
1.0	0.056	0.115	0.179	0.243	0.362	0.483	0.605	0.726	0.848	0.969	1.09
1.1	0.058	0.135	0.204	0.273	0.412	0.550	0.689	0.827	0.965	1.10	1.24
1.2	0.061	0.155	0.230	0.308	0.464	0.620	0.776	0.933	1.09	1.24	1.40
1.3	0.074	0.169	0.250	0.338	0.518	0.693	0.867	1.04	1.22	1.39	1.56
1.4	0.082	0.181	0.264	0.351	0.538	0.718	0.892	1.06	1.24	1.41	1.59
1.5	0.091	0.188	0.284	0.381	0.575	0.768	0.952	1.16	1.35	1.54	1.74
1.6	0.100	0.205	0.313	0.419	0.632	0.845	1.06	1.27	1.48	1.68	1.91
1.7	0.109	0.226	0.342	0.459	0.692	0.926	1.16	1.39	1.63	1.86	2.09
1.8	0.122	0.245	0.372	0.499	0.744	1.01	1.26	1.52	1.77	2.02	2.28
1.9	0.132	0.265	0.403	0.531	0.774	1.09	1.37	1.64	1.92	2.20	2.47
2.0	0.142	0.286	0.433	0.564	0.811	1.18	1.48	1.78	2.07	2.37	2.67
2.1	0.152	0.307	0.467	0.627	0.948	1.27	1.59	1.91	2.23	2.55	2.87
2.2	0.162	0.328	0.500	0.672	1.02	1.36	1.71	2.06	2.39	2.72	3.08
2.3	0.173	0.350	0.534	0.718	1.08	1.45	1.82	2.19	2.55	2.92	3.29
2.4	0.184	0.373	0.568	0.764	1.16	1.55	1.94	2.33	2.72	3.11	3.50
2.5	0.185	0.395	0.603	0.811	1.23	1.64	2.06	2.48	2.89	3.31	3.72
2.6	0.197	0.418	0.639	0.860	1.31	1.74	2.18	2.63	3.07	3.51	3.95
2.7	0.207	0.442	0.675	0.909	1.38	1.84	2.31	2.78	3.24	3.71	4.18
2.8	0.218	0.466	0.712	0.959	1.45	1.95	2.44	2.93	3.43	3.92	4.41
2.9	0.229	0.490	0.750	1.01	1.53	2.05	2.57	3.09	3.61	4.13	4.65
3.0	0.230	0.514	0.788	1.06	1.61	2.16	2.70	3.25	3.80	4.34	4.89
3.1	0.232	0.539	0.827	1.11	1.69	2.26	2.84	3.41	4.18	4.56	5.14
3.2	0.234	0.564	0.866	1.17	1.77	2.37	2.98	3.58	4.38	4.75	5.39
3.3	0.235	0.590	0.905	1.22	1.85	2.48	3.12	3.75	4.58	5.01	5.64
3.4	0.234	0.615	0.945	1.28	1.94	2.60	3.26	3.92	4.58	5.24	5.90
3.5	0.236	0.638	0.986	1.33	2.02	2.71	3.40	4.09	4.78	5.47	6.16
3.6	0.237	0.666	1.03	1.39	2.11	2.82	3.59	4.26	4.98	5.70	6.42
3.7	0.237	0.714	1.07	1.43	2.19	2.94	3.64	4.45	5.19	5.94	6.69
3.8	0.238	0.743	1.11	1.50	2.28	3.06	3.73	4.62	5.40	6.18	6.95
3.9	0.239	0.772	1.15	1.56	2.37	3.18	3.89	4.80	5.61	6.42	7.24
4.0	0.240	0.801	1.20	1.62	2.46	3.30	4.14	4.99	5.83	6.67	7.51
4.1	0.241	0.830	1.24	1.68	2.55	3.42	4.30	5.17	6.05	6.92	7.80
4.2	0.242	0.860	1.28	1.74	2.64	3.55	4.46	5.36	6.27	7.18	8.06
4.3	0.243	0.890	1.33	1.80	2.74	3.68	4.61	5.55	6.49	7.43	8.37
4.4	0.244	0.920	1.37	1.86	2.83	3.80	4.77	5.75	6.72	7.69	8.67
4.5	0.245	0.950	1.42	1.92	2.92	3.93	4.94	5.94	6.95	7.96	8.96
4.6	0.246	0.981	1.46	1.98	3.02	4.06	5.10	6.14	7.18	8.22	9.26
4.7	0.247	1.01	1.51	2.04	3.12	4.19	5.26	6.34	7.41	8.48	9.56
4.8	0.248	1.04	1.56	2.11	3.22	4.32	5.40	6.54	7.64	8.73	9.87
4.9	0.249	1.08	1.60	2.17	3.32	4.46	5.56	6.74	7.88	9.05	10.17
5.0	0.250	1.11	1.65	2.24	3.41	4.59	5.77	6.95	8.12	9.30	10.48

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MEASURING DEVICE.JPG



PLACE OF USE 1.JPG



PLACE OF USE 2.JPG



PLACE OF USE 3.JPG



POINT OF DIVERSION.JPG



POWER PLANT.JPG



SIZE OF PIPE.JPG



VALVE FOR POWER.JPG

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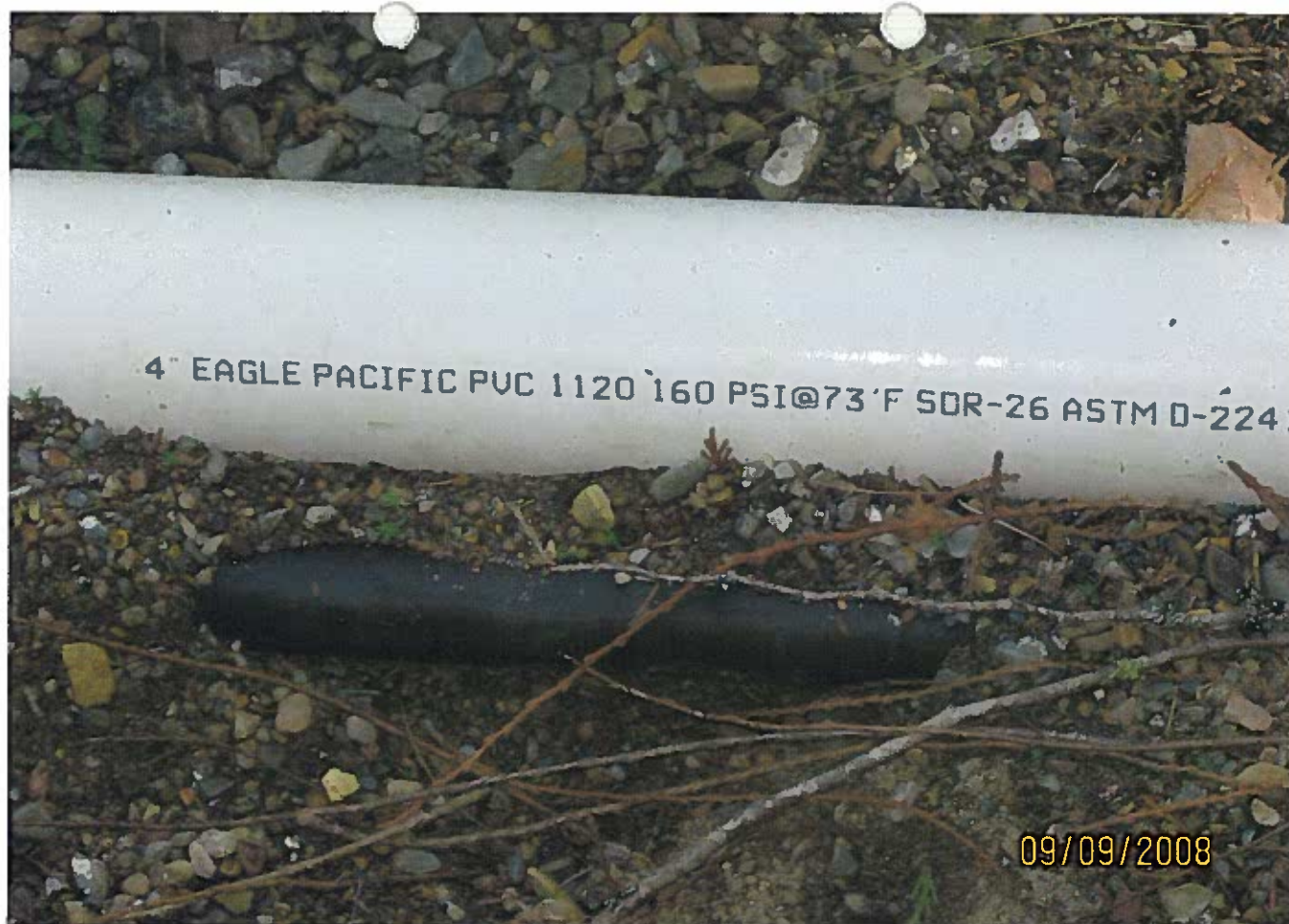
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