

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF U.S. 60 WATER DISTRICT)
OF SHELBY AND FRANKLIN COUNTIES, KENTUCKY)
FOR A CERTIFICATE OF PUBLIC CONVENIENCE) NO. 2014-00101
AND NECESSITY TO CONSTRUCT PURSUANT TO)
THE PROVISIONS OF KRS 278.020 AND KRS 278.300)
)

SUPPLEMENTAL ANSWERS TO COMMISSION STAFF'S
FIRST REQUEST FOR INFORMATION

Comes U.S. 60 Water District of Shelby and Franklin Counties,
Kentucky ("U.S. 60"), by counsel, and respectfully submits the
following Supplemental Answers to Questions 7, 12 and 21 of the
Commission Staff's First Request for Information.

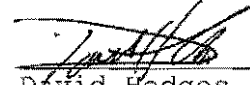
Respectfully submitted,

Mathis, Riggs, Prather & Ratliff, P.S.C.

By 

Donald T. Prather
500 Main Street, Suite 5
Shelbyville, Kentucky 40065
Phone: (502) 633-5220
Fax: (502) 633-0667

I, the undersigned David Hedges, being the Manager of U.S. 60 Water
District of Shelby and Franklin Counties, Kentucky, certify that the
Answers contained herein are true and accurate to the best of my
knowledge, information and belief formed after a reasonable inquiry.


David Hedges

May 16, 2014
Date

7. Provide any available hydraulic models showing the average daily water turnover for the proposed storage tank.

Response: See attached summary of original data.

Responsible Witness:

Jihad A. Hallany, PE

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* * * * * K Y P I P E 5 * * * * *
*
*           Pipe Network Modeling Software
*
*           Copyrighted by KYPIPE LLC
*           Version 5 - February 2010
*
* * * * *

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Date & Time: Thu May 15 09:31:19 2014

Master File : q:\consulting\broughman\shelby water\modeling\us-60\prop
model-us60\us-60 wt system.KYP\us-60 wt system.P2K

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SUMMARY OF ORIGINAL DATA
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U N I T S S P E C I F I E D

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FLOWRATE ..... = gallons/minute
HEAD (HGL) ..... = feet
PRESSURE ..... = psig
METERED FLOW ..... = gallons
POWER COST ..... = 0.050 $/kW-Hr

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P I P E L I N E D A T A

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E MINOR N A M E COEFF.	N O D E N A M E S		L E N G T H (ft)	D I A M E T E R (in)	R O U G H N E S S C O E F F .	L O S S
	#1	#2				
0.00	P-1-CV	J-7 J-1	9630.53	8.00	120.0000	
0.00	P-10-CV	R-1 I-PS-1	4745.39	10.00	120.0000	
0.00	P-11	J-514 I-PS-2	220.63	6.00	120.0000	
0.00	P-12	J-514 J-515	1790.83	6.00	120.0000	
0.00	P-13	J-508a J-96	14273.45	6.00	120.0000	

0.00	P-14	J-508a	J-509	5057.95	6.00	120.0000
0.00	P-15	J-509	J-510	10320.01	6.00	120.0000
0.00	P-16	J-510	J-6	1098.25	6.00	120.0000
0.00	P-17	J-510	J-422	5842.51	6.00	120.0000
0.00	P-18	J-520	J-254	1908.68	6.00	120.0000
0.00	P-19	J-509	J-520	483.29	6.00	120.0000
0.00	P-2	J-370a	J-3	548.84	12.00	120.0000
0.00	P-20	J-520	J-8	3851.86	6.00	120.0000
0.00	P-21	J-8	J-521	2737.09	6.00	120.0000
0.00	P-22	J-535	J-5	662.40	8.00	120.0000
0.00	P-23	J-535	J-11	2740.96	4.00	120.0000
0.00	P-24	J-11	J-536	1576.29	4.00	120.0000
0.00	P-25	J-15	J-17	5040.29	12.00	120.0000
0.00	P-26	J-7	J-3	180.92	612.00	120.0000
0.00	P-27	J-512	J-511	238.25	6.00	120.0000
0.00	P-28	J-10	J-406	4136.00	6.00	120.0000
0.00	P-284	J-243	J-486	8236.16	4.00	120.0000
0.00	P-285	J-243	J-244	3516.66	4.00	120.0000
0.00	P-288	J-247	J-485	3679.55	8.00	120.0000
0.00	P-289	J-417	J-16	4468.29	8.00	120.0000
0.00	P-29	J-503a	J-503	5835.75	8.00	120.0000
0.00	P-290	J-417	J-250	8442.49	6.00	120.0000
0.00	P-291	J-250	J-249	11872.28	4.00	120.0000
0.00	P-293	J-16	J-510	2935.71	6.00	120.0000
0.00	P-294	J-16	J-520	7843.84	6.00	120.0000
0.00	P-295	J-254	J-522	3411.31	6.00	120.0000
0.00	P-296	J-254	J-514	439.55	6.00	120.0000

0.00	P-297	J-409	J-400	11821.30	8.00	120.0000
0.00	P-298	J-409	J-423	14506.92	8.00	120.0000
0.00	P-299	J-424	J-405	9069.38	6.00	120.0000
0.00	P-3	J-4	J-347	581.45	6.00	120.0000
0.00	P-30	J-2	J-502	789.74	4.00	120.0000
0.00	P-300	J-424	J-425	3325.82	6.00	120.0000
0.00	P-301	J-525	J-526	6231.98	6.00	120.0000
0.00	P-302	J-400	J-513	613.47	6.00	120.0000
0.00	P-303	J-513	J-512	1243.30	6.00	120.0000
0.00	P-305	J-486a	J-485a	2764.79	6.00	120.0000
0.00	P-306	J-487a	J-485a	1160.34	6.00	120.0000
0.00	P-307	J-485a	J-484a	1727.88	6.00	120.0000
0.00	P-308	J-263	J-484a	1268.51	8.00	120.0000
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0.00	P-31	J-12	J-2	10930.62	4.00	120.0000
0.00	P-310	J-475	J-476	1285.49	6.00	120.0000
0.00	P-311	J-461	J-476	11341.91	6.00	120.0000
0.00	P-312	J-476	J-477	4654.97	6.00	120.0000
0.00	P-313	J-477	J-474	2352.83	8.00	120.0000
0.00	P-314	J-274	J-276	3858.48	6.00	120.0000
0.00	P-315	J-482	J-276	6705.74	6.00	120.0000
0.00	P-316	J-276	J-479	1197.76	6.00	120.0000
0.00	P-317	J-277	J-479	2896.65	6.00	120.0000
0.00	P-318	J-479	J-478	2477.98	6.00	120.0000
0.00	P-319	J-279	J-478	13086.27	6.00	120.0000
0.00	P-32	J-494	J-371	6187.82	6.00	120.0000
0.00	P-320	J-478	J-474	4154.37	6.00	120.0000

0.00	P-321	J-281	J-530	1876.87	6.00	120.0000
0.00	P-322	J-474	J-530	3972.66	8.00	120.0000
0.00	P-323	J-530	J-472	437.14	8.00	120.0000
0.00	P-324	J-283	J-528	8257.86	6.00	120.0000
0.00	P-325	J-285	J-529	4169.81	6.00	120.0000
0.00	P-326	J-472	J-464	3929.75	8.00	120.0000
0.00	P-327	J-286	J-461	4417.13	6.00	120.0000
0.00	P-328	J-461	J-464	5950.69	6.00	120.0000
0.00	P-329	J-461	J-288	1944.50	6.00	120.0000
0.00	P-33	J-498	J-369	760.13	6.00	120.0000
0.00	P-330	J-289	J-466	4149.18	6.00	120.0000
0.00	P-331	J-468	J-466	2583.39	6.00	120.0000
0.00	P-332	J-467	J-465	2594.45	6.00	120.0000
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0.00	P-334	J-465	J-463	2151.97	6.00	120.0000
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0.00	P-336	J-463	J-296	8679.73	8.00	120.0000
0.00	P-337	T-D	J-296	1834.20	8.00	120.0000
0.00	P-338	J-296	J-456	186.71	8.00	120.0000
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0.00	P-34	J-529	J-472	902.18	6.00	120.0000
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0.00	P-347	J-428	J-430a	12401.22	4.00	120.0000
0.00	P-348	J-429	J-428	1306.98	6.00	120.0000
0.00	P-349	J-429	J-431	7940.31	6.00	120.0000
0.00	P-35	J-528	J-530	795.99	6.00	120.0000
0.00	P-350	J-434	J-505	7731.34	8.00	120.0000
0.00	P-351	J-310	J-434	12397.63	8.00	120.0000
0.00	P-352	J-449	J-310	887.99	4.00	120.0000
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0.00	P-354	J-433	J-434	5715.78	4.00	120.0000
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0.00	P-357	J-447	J-448	9167.15	4.00	120.0000
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0.00	P-36	J-529	J-528	660.41	4.00	120.0000
0.00	P-360	J-428	J-427	2659.62	10.00	120.0000
0.00	P-361	J-427	J-425	2809.96	6.00	120.0000
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0.00	P-363	J-432	J-433	4507.02	4.00	120.0000
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0.00	P-368	J-322	J-325	4541.46	3.00	120.0000
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0.00	P-37	J-1	J-511	1189.28	6.00	120.0000

0.00	P-370	J-326	J-322	3100.21	6.00	120.0000
0.00	P-371	J-327	J-329	1499.48	6.00	120.0000
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0.00	P-373	J-330	J-332	1537.06	6.00	120.0000
0.00	P-374	J-333	J-335	1574.36	6.00	120.0000
0.00	P-375	J-334	J-335	678.62	8.00	120.0000
0.00	P-376	J-324	J-334	3638.85	8.00	120.0000
0.00	P-377	J-329	J-326	2086.50	8.00	120.0000
0.00	P-378	J-326	J-331	3377.60	8.00	120.0000
0.00	P-379	J-331	J-332	985.81	8.00	120.0000
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0.00	P-382	J-336	J-338	6709.89	6.00	120.0000
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0.00	P-384	J-381a	J-336	8790.43	4.00	120.0000
0.00	P-385	J-382a	J-381a	3993.00	4.00	120.0000
0.00	P-386	J-380a	J-381a	2688.01	4.00	120.0000
0.00	P-387	J-375	J-381a	4553.57	4.00	120.0000
0.00	P-388	J-375	J-12	4088.35	4.00	120.0000
0.00	P-389	J-388	J-502	927.82	8.00	120.0000
0.00	P-39	J-370a	J-382	134.49	12.00	120.0000
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0.00	P-393	J-408	J-423	5334.43	4.00	120.0000
0.00	P-394	J-423	J-424	4085.37	8.00	120.0000
0.00	P-395	J-407	J-405	5424.13	6.00	120.0000

0.00	P-396	J-347	J-404a	1306.55	6.00	120.0000
0.00	P-397	J-348	J-403	1614.26	6.00	120.0000
0.00	P-398	J-401	J-402	1404.27	6.00	120.0000
0.00	P-399	J-347	J-403	718.00	6.00	120.0000
0.00	P-4	J-4	T-W	373.75	6.00	120.0000
0.00	P-40	J-13	J-288	7411.94	4.00	120.0000
0.00	P-400	J-347	J-402	1590.58	6.00	120.0000
0.00	P-401	J-406	J-437	5427.23	6.00	120.0000
0.00	P-402	J-406	J-516	1447.27	6.00	120.0000
0.00	P-403	J-403	J-400	4514.84	6.00	120.0000
0.00	P-404	J-398	J-400	1348.06	6.00	120.0000
0.00	P-405	J-397	J-398	4274.73	6.00	120.0000
0.00	P-406	J-355	J-357	2063.55	6.00	120.0000
0.00	P-407	J-357	J-356	1593.04	6.00	120.0000
0.00	P-408	J-357	J-358	4340.52	6.00	120.0000
0.00	P-409	J-395	J-358	5390.39	4.00	120.0000
0.00	P-41-CV	J-14	J-409	5985.05	8.00	120.0000
0.00	P-410	J-360	J-396	3467.75	6.00	120.0000
0.00	P-411	J-396	J-397	1526.06	6.00	120.0000
0.00	P-412	J-396	J-395	1975.31	6.00	120.0000
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0.00	P-418	J-375a	J-376a	5190.42	4.00	120.0000
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0.00	P-42	O-PS-2	J-14	368.76	8.00	120.0000
0.00	P-420	J-376a	J-377a	4886.79	4.00	120.0000
0.00	P-421	J-377a	J-494	19991.16	4.00	120.0000
0.00	P-422	J-377a	J-378a	1731.87	6.00	120.0000

0.00	P-423	J-371	J-373	4642.15	6.00	120.0000
0.00	P-424	J-373	J-370	513.01	6.00	120.0000
0.00	P-425	J-373	J-367	2804.67	6.00	120.0000
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0.00	P-428	J-367a	J-378	286.99	6.00	120.0000
0.00	P-43	J-508a	J-15	327.27	12.00	124.4518
0.00	P-430	J-378	J-498	5213.92	6.00	120.0000
0.00	P-431	J-369	J-382	6864.76	6.00	120.0000
0.00	P-433	J-380	J-382	2350.91	4.00	120.0000
0.00	P-434	J-382	J-7	591.77	8.00	120.0000
0.00	P-435	J-381	J-384	377.75	3.00	120.0000
0.00	P-436	J-381	J-380	1749.30	3.00	120.0000
0.00	P-437	J-381	J-383	2715.98	3.00	120.0000
0.00	P-44	J-17	J-9	11580.03	12.00	120.0000
0.00	P-45	J-17	J-509	295.38	12.00	124.4518
0.00	P-5	J-5	J-422	3146.57	8.00	120.0000
0.00	P-545	J-484	J-485	4855.40	4.00	120.0000
0.00	P-546	J-485	J-417	8511.77	8.00	120.0000
0.00	P-547	J-486	J-247	2263.93	4.00	120.0000
0.00	P-548	J-486	J-487	5701.15	4.00	120.0000
0.00	P-561	J-507	J-429	5517.87	8.00	120.0000
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0.00	P-563	J-505	J-431	2576.10	8.00	120.0000
0.00	P-564	J-505	J-506	2462.47	8.00	120.0000
0.00	P-565	J-518	J-427	2346.18	4.00	120.0000
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0.00	P-567	J-404a	J-405	2823.97	6.00	120.0000

0.00	P-568	J-348	J-404a	475.14	6.00	120.0000
0.00	P-569	J-516	J-4	3453.14	6.00	120.0000
0.00	P-570	J-516	J-517	1456.30	6.00	120.0000
0.00	P-571	J-503	J-388	4065.01	8.00	120.0000
0.00	P-572	J-503	J-504	2376.46	4.00	120.0000
0.00	P-574	J-96	J-3	484.81	6.00	120.0000
0.00	P-575	J-281	J-473a	2604.40	6.00	120.0000
0.00	P-576	J-473a	J-524	2335.32	6.00	120.0000
0.00	P-577	J-473a	J-527	3429.58	6.00	120.0000
0.00	P-578	J-530	J-477	6346.94	6.00	120.0000
0.00	P-579	J-477	J-525	4892.00	6.00	120.0000
0.00	P-580	J-525	J-477	4819.08	8.00	120.0000
0.00	P-581	J-525	J-306	9378.83	6.00	120.0000
0.00	P-582	J-600	J-489	1683.46	8.00	120.0000
0.00	P-583	J-263	J-489	3510.14	8.00	120.0000
0.00	P-585	J-489	J-491	2821.82	6.00	120.0000
0.00	P-587	J-522	J-508a	955.80	6.00	120.0000
0.00	P-588	J-522	J-523	4133.75	4.00	120.0000
0.00	P-589	J-370a	PT-1	4253.88	12.00	120.0000
0.00	P-6	O-PS-1	J-9	1037.96	12.00	120.0000
0.00	P-7	J-6	J-420	652.19	8.00	120.0000
0.00	P-8	J-420	J-535	1147.65	8.00	120.0000
0.00	P-9	PT-1	J-15	10965.18	12.00	120.0000

P U M P / L O S S E L E M E N T D A T A

THERE IS A DEVICE AT NODE
(ID= 5)

PS-1 DESCRIBED BY THE FOLLOWING DATA:

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
311.00	142.00	47.00
305.00	212.00	61.00
296.00	283.00	68.00
279.00	354.00	71.00
246.00	425.00	68.00

THERE IS A DEVICE AT NODE PS-2 DESCRIBED BY THE FOLLOWING DATA:
(ID= 7)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
210.00	150.00	75.00 (Default)
147.00	300.00	75.00 (Default)
80.00	500.00	75.00 (Default)

N O D E D A T A

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	JUNCTION ELEVATION (ft)	EXTERNAL GRADE (ft)
J-1		1.00	878.00	
J-10		2.00	750.00	
J-11		1.10	700.00	
J-12		3.00	680.00	
J-13		1.00	810.00	
J-14		0.00	710.00	
J-15		0.00	750.00	
J-16		6.00	825.00	
J-17		0.00	720.00	
J-2		2.00	790.00	
J-243		1.00	700.00	
J-244		2.00	665.00	
J-247		2.00	878.00	
J-249		2.00	640.00	
J-250		3.00	853.00	
J-254		3.00	745.00	
J-263		0.00	765.00	
J-274		2.00	767.00	
J-276		2.00	805.00	
J-277		1.00	760.00	
J-279		1.00	702.00	
J-281		0.00	796.00	
J-283		1.50	747.00	
J-285		1.50	664.00	
J-286		2.00	678.00	
J-288		2.00	710.00	

J-289	1.50	765.00
J-296	0.00	806.00
J-3	0.00	920.00
J-303	2.00	754.00
J-304	3.00	843.00
J-306	3.00	752.00
J-310	3.00	692.00
J-322	2.00	705.00
J-324	0.00	810.00
J-325	2.00	809.00
J-326	2.00	877.00
J-327	1.00	741.00
J-328	1.00	761.00
J-329	0.00	770.00
J-330	2.00	792.00
J-331	2.00	815.00
J-332	1.00	815.00
J-333	1.00	786.00
J-334	0.00	825.00
J-335	0.00	825.00
J-336	0.00	793.00
J-338	0.00	812.00
J-341	1.00	811.00
J-342	0.00	827.00
J-347	8.00	865.00
J-348	4.00	902.00
J-355	1.00	823.00
J-356	1.00	893.00
J-357	1.00	837.00
J-358	1.00	888.00
J-360	2.00	750.00
J-367	1.50	789.00
J-367a	10.00	917.00
J-369	7.00	852.00
J-370	5.00	770.00
J-370a	0.00	922.00
J-371	5.00	888.00
J-373	5.00	825.00
J-375	2.00	817.00
J-375a	2.00	712.00
J-376a	1.00	793.00
J-377a	4.00	814.00
J-378	4.00	917.00
J-378a	1.00	843.00
J-380	1.00	900.00
J-380a	2.00	697.00
J-381	1.00	900.00
J-381a	2.00	785.00
J-382	0.00	922.00
J-382a	2.00	785.00
J-383	2.00	770.00
J-384	1.00	903.00
J-388	1.00	835.00
J-395	5.00	767.00

J-396		2.00	777.00
J-397		2.00	850.00
J-398		2.00	887.00
J-4		0.00	910.00
J-400		6.20	889.00
J-401		3.00	883.00
J-402		5.00	882.00
J-403		3.50	865.00
J-404a		0.00	902.00
J-405		2.00	904.00
J-406		2.00	894.00
J-407		2.00	891.00
J-408		1.50	751.00
J-409		3.00	731.00
J-417		5.00	741.00
J-420	Bridgeport B	1.00	725.00
J-422		7.20	683.00
J-423		0.00	905.00
J-424		4.00	915.00
J-425		2.00	921.00
J-426a		1.00	873.00
J-427		2.00	913.00
J-428		3.00	912.00
J-429		6.00	913.00
J-430a		1.50	763.00
J-431		2.00	881.00
J-432		2.00	892.00
J-433		2.00	861.00
J-434		3.00	732.00
J-435a		3.00	850.00
J-436a		1.00	786.00
J-437		3.00	852.00
J-444		3.50	646.00
J-447		3.50	795.00
J-448		3.00	853.00
J-449		2.00	685.00
J-453		3.50	825.00
J-454		3.00	860.00
J-455		4.00	844.00
J-456		3.50	806.00
J-457		3.00	668.00
J-459		2.00	823.00
J-461		3.00	663.00
J-463		3.00	828.00
J-464		4.00	815.00
J-465		2.00	825.00
J-466		3.00	824.00
J-467		1.50	807.00
J-468		1.50	803.00
J-472		2.00	809.00
J-473a		2.00	639.00
J-474		5.00	805.00
J-475		2.00	765.00
J-476		4.00	621.00

J-477	4.00	805.00
J-478	2.00	803.00
J-479	2.00	805.00
J-482	2.00	648.00
J-484	1.00	702.00
J-484a	2.00	764.00
J-485	2.00	826.00
J-485a	2.00	638.00
J-486	2.00	845.00
J-486a	1.50	748.00
J-487	1.00	629.00
J-487a	2.00	630.00
J-489	2.00	764.00
J-491	1.50	600.00
J-494	5.00	900.00
J-498	7.00	806.00
J-5	0.00	730.00
J-502	2.00	875.00
J-503	2.00	865.00
J-503a	2.00	741.00
J-504	2.00	790.00
J-505	3.00	800.00
J-506	1.50	835.00
J-507	3.50	898.00
J-508	3.50	890.00
J-508a	6.00	750.00
J-509	4.00	720.00
J-510	4.00	775.00
J-511	1.00	875.00
J-512	1.00	875.00
J-513	1.00	885.00
J-514	2.00	710.00
J-515	2.00	740.00
J-516	0.00	887.00
J-517	1.50	875.00
J-518	2.00	920.00
J-519	1.00	900.00
J-520	3.00	720.00
J-521	1.00	735.00
J-522	0.00	762.00
J-523	2.00	885.00
J-524	2.00	607.00
J-525	4.00	781.00
J-526	1.50	700.00
J-527	2.00	816.00
J-528	2.00	770.00
J-529	2.00	790.00
J-530	4.00	809.00
J-535	1.00	735.00
J-536	1.10	730.00
J-6	1.00	740.00
J-600	3.00	752.00
J-7	0.00	920.00
J-8	4.00	690.00

J-9		0.00	740.00	
J-96		8.00	910.00	
I-PS-1	Bridgeport B	0.00	745.00	
I-PS-2		0.00	710.00	
PT-1	Proposed Tan	----	914.00	1005.00
R-1	Pea Ridge Ta	----	810.00	930.00
T-D	Driscoll Tan	----	843.00	975.00
T-W	Waddy Tank	----	912.00	994.00
O-PS-2		0.00	710.00	
O-PS-1	Bridgeport B	0.00	745.00	

O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

E P S D A T A

TOTAL TIME FOR SIMULATION	=	72.000
NORMAL TIME PERIOD FOR CALCULATIONS	=	1.000
NORMAL TIME PERIOD FOR TABULATED OUTPUT	=	1.000
NORMAL TIME PERIOD FOR POSTPROCESSING FILE	=	1.000

EPS OUTPUT SELECTION: THE ABOVE TABULATED OUTPUT OPTIONS ARE INCLUDED WITH THE FOLLOWING EXTENDED PERIOD PRINT OPTIONS

INTERMEDIATE REPORTS (tank status, flow meter, regulating valve, etc.)

TABULATED FOR ALL INTERMEDIATE TIME PERIODS

TABULATED FOR ALL STATUS CHANGES (tanks, pressure switches, etc.)

V A R I A B L E H E A D T A N K D A T A

EXTERNAL FLOW	TANK NAME	MAXIMUM ELEVATION	MINIMUM ELEVATION	TANK CAPACITY	INITIAL VOLUME
gpm	(*)	ft	ft	gals	gals
0.00	PT-1(1)	1014.00	984.00	744729.	521311.
0.00	T-D(1)	1015.00	915.00	235023.	141014.
0.00	T-W(1)	1020.00	970.00	84902.	40753.

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

P R E S S U R E S W I T C H D A T A

REFERENCE ELEMENT	REFERENCE NODE	SWITCHING GRADES (ft)	
PS-1	PT-1	1005.00	& 1014.00
PS-2	T-W	990.00	& 1015.00

S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES	(p) =	217
NUMBER OF END NODES	(j) =	192
NUMBER OF PRIMARY LOOPS	(l) =	22
NUMBER OF SUPPLY NODES	(f) =	4
NUMBER OF SUPPLY ZONES	(z) =	1

12. State the equalization portion of the tank volume and how the volume was calculated.

Response: We did not calculate a volume for the equalization portion of the tank.

Responsible Witness:

Jihad A. Hallany, PE

21. Provide hydraulic modeling calculations which include an extended-period simulation of the water system when the proposed water tank is included.

Response: Please see answer to preceding Request No. 7 above.

Responsible Witness:

Jihad A. Hallany, PE