

Appendix E

Field Measurements vs.
Hydraulic Model Results



**Cheney WSP
System Readings vs Model Results**

Locatation Name	Model Node	Reservoir Elevation	Field Measurement	Model Measurement	Difference
	J-###	Feet	PSI	PSI	Model-Field
<i>Main Zone</i>					
Meadowglenn and Silverthorn	J-172	2515.6	57	56	-1
112 Anderson Rd	J-72	2515.6	88	85	-3
Hampton and Oxford	J-240	2515.5	40	39	-1
2609 Eaton	J-820	2515.5	38	39	1
203 Elm	J-301	2514.7	62	63	1
601 Elm	J-31	2514.7	44	43	-1
403 5th	J-320	2514.6	46	46	0
Union and 2nd	J-355	2514.6	68	68	0
W. 5th and Lincoln	J-419	2514.5	52	53	1
Spring St.	J-507/508	2514.5	48	48	0
<i>Scenic Heights Zone</i>					
904 Moyer	J-615	N/A	92	96	4
920 Gary	J-611	N/A	78	82	4
567 Scenic Heights	J-606	N/A	66	67	1
1431 Ridgeview	J-602	N/A	56	56	0
1405 Gary	J-604	N/A	80	82	2
<i>High School Zone</i>					
Golden Hills and Lilac	J-725	2606.8	75	78	3
2224 Sunrise	J-722	2606.8	63	66	3
724 Montague	J-714	2606.7	51	52	1
702 Irene	J-704	2606.7	32	34	2
408 Irene	J-703	2606.6	55	57	2

Inputs	
<i>Storage</i>	
Reservoir Elevations MZ	2515'
Reservoir Elevations HSZ	2607'
<i>Pumps</i>	
Well 1	On
Well 2	On
Well 3	Off
Well 4	Off
Well 5	On
Well 6	Off
Well 7	Off
Well 8	On
Booster 1-1	Off
Booster 1-2	Off
Booster 2-1	On
Booster 2-2	Off
Booster 2-3	Off
Booster 3-1	On
Booster 3-2	Off
Booster 3-3	Off
<i>Demands</i>	
MZ:PHD, HS&SH:MDD	3363 GPM

Field Measurements VS Model Results

*Field measurements have unknown reservoir levels

Location	Node	Field P.S.I.	Model Node	Model PSI	Difference
215 N.9th	1	19	J-1	13	6
N. 10th and Cedar	7	27	J-7	33	-6
N9th and Elm	11	37	J-11	37	0
Erie and Oak	15	32	J-15	35	-3
N. 8th and Oak	16	40	J-16	39	1
N. 8th and Elm	19	41	J-19	41	0
Huron and Elm	20	41	J-20	39	2
N.7th and Elm	20	40	J-20	39	1
N.7th and Oakland	25	40	J-25	39	1
N. 6th and Oak	26	41	J-26	40	1
N. 6th and Elm	31	47	J-31	43	4
N. 5th and Oakland	38	42	J-38	40	2
N. 4th and Elm	42	50	J-42	50	0
N. 3rd and Elm	44	57	J-44	56	1
N. 3rd and Ash	46	51	J-46	46	5
N. 3rd and Oakland	47	47	J-47	46	1
N. 2nd and Oakland	48	49	J-48	48	1
N. 2nd and Ash	49	50	J-49	52	-2
N. 2nd and Elm	51	62	J-51	63	-1
1st and Elm	53	74	J-53	74	0
Pine and Front	55	78	J-55	78	0
1st and Pine	56	74	J-56	72	2
1st and Vine	57	71	J-57	70	1
1st and Columbia	58	68	J-58	68	0
3rd and Mary	105	62	J-105	63	-1
2nd and Mary	106	62	J-106	63	-1
6 Cheney-Spokane	107	67	J-107	65	2
5th and Clay	118	46	J-118	55	-9
5th and Clay	118	57	J-118	55	2
1st and Cheney- Spokane	126	68	J-126	63	5
Andrus and Cheney- Spokane	130	67	J-130	66	1
1st and College Hill	151	63	J-151	62	1
2222 1st	152	58	J-152	56	2
2400 University Place	159	52	J-159	51	1
Betz and Bethany	219	41	J-219	42	-1
N.6th and Simpson Parkway	227	40	J-227	37	3
N. 6th and Hampton	234	32	J-234	33	-1
N 6th and Betz	235	31	J-235	31	0
717 N. 8th	251	36	J-251	31	5
N. 8th and Sunrise	253	39	J-253	38	1
N. 3rd and Nolan Brown	258	45	J-258	44	1
473 Annie Place	264	41	J-264	35	6
500 N. 6th	265	40	J-265	37	3

N. 6th and Oakland	267	39	J-267	39	0
N. 4th and Oakland	269	45	J-269	44	1
1st and Calispel	303	74	J-303	74	0
1st and D	305	70	J-305	71	-1
1st and College	306	70	J-306	71	-1
2nd and D	308	65	J-308	66	-1
2nd and A	309	65	J-309	65	0
1st and C	310	72	J-310	72	0
1st and A	311	72	J-311	72	0
3rd and A	313	54	J-313	57	-3
4th and B	314	50	J-314	49	1
3rd. And Fst	316	62	J-316	59	3
3rd and College	316	59	J-316	59	0
5th and F	320	46	J-320	46	0
5th and A	321	46	J-321	45	1
7th and G	330	41	J-330	39	2
5th and I	334	49	J-334	48	1
W. 6th and J	336	44	J-336	42	2
6th and Union	336	41	J-336	42	-1
W. 7th and Washington	340	40	J-340	41	-1
W. 5th and J	345	55	J-345	55	0
4th and Union	346	60	J-346	59	1
4th and H	347	54	J-347	54	0
3rd. And Union	350	64	J-350	64	0
W. 2nd and L	351	65	J-351	62	3
W. 2nd and K	352	66	J-352	64	2
2nd and Union	355	67	J-355	68	-1
2nd and G	358	68	J-358	68	0
1st and G	362	73	J-362	72	1
1st and F	363	72	J-363	71	1
W. 2nd and Salnave	368	65	J-368	62	3
W. 6th and Washington	401	45	J-401	43	2
W.5th and Washington	405	61	J-405	59	2
W. 3rd and Washington	406	61	J-406	61	0
Salnave and Washington	407	66	J-407	62	4
W. 5th and Lincoln	418	60	J-418	53	7
W. 6th and Lincoln	421	43	J-421	41	2
Salnave and Buena Vista	428	60	J-428	58	2
W. 1st and Buena Vista	432	67	J-432	66	1
735 W. 1st	436	67	J-436	68	-1
Villard and Hattie	445	58	J-445	56	2
Salnave and Bonnie Way	458	45	J-458	41	4
1500 W. 1st	515	62	J-515	64	-2
W. 1st and Presley	517	66	J-517	64	2
Salnave and Dubois	614	100	J-614	99	1
Moyer and Patterson	615	100	J-615	96	4
N.10th and Oak	700	55	J-700	59	-4

N. 11th and Oakland	702	54	J-702	52	2
Oakland and Irene Pl	703	60	J-703	57	3
700 Irene Pl	704	34	J-704	34	0
N. 9th and Oakland	706	57	J-706	58	-1
N. 9th and Summit Dr.	711	62	J-711	61	1
724 Montague	714	54	J-714	52	2
Sunrise and Montague Dr.	716	63	J-716	61	2
907 Skyview	718	45	J-718	47	-2
713 N. 8th	720	71	J-720	71	0
N. 5th and Elm	34A	47	J-34A	46	1
W. 1st and L	824	67	J-824	67	0
532 Irene Pl	703A	40	J-703A	44	-4
1001 Summit Dr.	713A	40	J-713A	37	3
College and Front	J154	75	J154	78	-3
6th and B	J2338	42	J2338	42	0

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Reservoir Elevations MZ	2515'
Reservoir Elevations HSZ	2607'
<i>Pumps</i>	
Well 1	On
Well 2	On
Well 3	Off
Well 4	Off
Well 5	On
Well 6	Off
Well 7	Off
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Booster 1-2	Off
Booster 2-1	On
Booster 2-2	Off
Booster 2-3	Off
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Booster 3-2	Off
Booster 3-3	Off
<i>Demands</i>	
MZ:PHD, HS&SH:MDD	3363 GPM