

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

 File No. { Washington ...
 District

Production and mineral content test made on Altoona town well in

TIME	DW	GPM	TEMP	Res R _F 1.9	Temp corr	Res R _S	Hard Ness	IRON	REMARKS
10:31	193.75								M.P. top of wood pl R _F well 1 = 437 at 64°F Temp water of well 55
10:55	193.75								Pump well 4 MIN to Lu at approx 400 gpm
12:37	193.74								
1:00p									Pump started
1:03	199±	4"	60.5	268	-84	284			
1:08				342					
1:10									
1:12	193.90								pump stopped
1:24	193.40								
1:57									Resume pumping
2:00			64.7	380	-65	315			
2:04			64.3	332	-58	274	1360	2.0	
2:06									Pumping stopped
2:30									Resume pumping
2:35	195.5	4" 400±	63.5	332	-60	272			
2:40	198.75	390±	65.9	326	-50	276			
2:45	198.0		66.9	316	-44	272			
2:47		390±							
2:50	197.5		67.2	316	-43	273			
2:53		370±							
2:55			67.5	325	-42	279	1340	6.0	water slightly cloudy
3:00	196.88		68.2	375	-46	329			water cloudy
3:02		370±							
3:05	196.8		68.5	375	-44	331			slight H ₂ S odor
3:10	196.8	370±	68.7	375	-44	331			water clearing
3:15			68.7	368	-43	325			
3:20	196.5		68.8	364	-42	322	1350	1.2	
3:30		350±	68.9	368	-42	326			
3:35	196.3								
3:40	196.02	330	69.0	364	-41	323			

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TIME	DW	GPM							
9:55									Pumping resumed
9:57	203.4	565							
10:02	203.3								
10:04			68.6	316	-37	279			Water clear
10:08				326	-37	289			
10:10	201.28	6	68.9	358	-41	317			
10:12			68.9	364	-41	323			
10:15				410	-45	365			
10:18			69.6	405	-42	363			
10:20		565		400	-41	359			
10:23			69.7	389	-40	349			
10:25	201.72								
10:30				382	-39	343			
10:33	201.88								
10:34			69.7	375	-38	337			
10:35		565							
10:40			69.8	370	-37	333			
10:45	201.65			368	-37	331			
10:53				373	-37	336			
10:59									Pump stopped
11:10	191.83								
11:11									Pumping Resumed
11:13	199.36								
11:15		442							
11:18			69.6	321	-33	288			
11:23			69.5	374	-38	336			
11:27				371					
11:30	198.75	442	69.7	379	-38	341			R _c 447 - Old well
11:40			69.8	378	-38	340			
11:46	198.55		69.8	376	-38	338			

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	Time	DW	GPM	Temp	R _f	R _s	Hardn	Iron	Remarks
	July 7								
59	7:50	193.34							
	8:00			65.1	400	-66	334		Pumping resumed
	8:02			65.6	394	-62	332		
	8:04			66.1	400	-60	340		
#32	8:09			66.8	400	-57	343		
	8:10			67.4	389	-53	336		
	8:12		320	67.6	321	-42	279		Water cloudy
	8:14			67.6	321	-42	279		
#33	8:16			67.8	316	-40	276		
	8:18	196.0		67.7	326	-42	284		
	8:20			67.8	326	-42	284		
	8:22	196.4		67.8	326	-42	284		
#34	8:24		320	67.9	326	-41	285		
	8:26			68.0	336	-42	294		
	8:28			68.2	368	-45	323		
	8:30			68.4	368	-44	324		
	8:32			68.7	368	-42	326		
	8:34	196.1		68.8	368	-42	326		
	8:37			69.0	368	-41	327		
	8:38			69.0	368	-41	327		
	8:40			69.2	368	-40	328		
	8:42	194.7							
	8:45		255	69.2	368	-40	328		
	8:50			69.3	368	-39	329		
	8:53	194.4							
	8:55			69.4	368	-39	329		
	9:00			69.4	368	-39	329		
	9:05			69.4	370	-39	331		
	9:07	194.25							
	9:10		255	69.5	370	-39	331		Pumping rate increased
	9:15			69.6	374	-39	335		

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Time	DW	GPM	Temp	Rf	Tc	R _s	Hardn	Iron	Remarks
9:20		460							
9:21			69.8	390	-39	351			
9:25			69.9	390	-39	351			Pumping rate decreased
9:30			69.9	390	-39	351			
9:34	194.4								
9:35		255	69.9	390	-38	342			
9:40			69.9	374	-37	337			
9:45			69.9	376	-37	339			
9:50			69.9	374	-37	337			
9:55			69.8	374	-37	337			Pump rate increase
10:00		477	69.9	378	-37	341			
10:05	200.45		69.9	390	-39	351			
10:08				385	-39	356			
10:09									Pump rate decrease
10:10									Pump stopped
10:13									pumping resumed
10:15		555	69.9	394	-39	355			
10:18				390	-39	351			
10:21		570							
10:22									water sample collected (white cor slightly)
10:23				390	-39	351			
10:26			70.0	390	-38	352			
10:27		405							Pumping rate dec
10:30			70.1	405	-39	366			
10:35		370	70.0	384	-38	346			
10:40			70.0	379	-37	342			
10:45			70.0	379	-37	342			
10:48	176.85								
10:51			70.0	379	-37	342			old well 447-Rc at 58.1'
10:55			70.0	379	-37	342			
11:00			70.0	379	-37	342			
11:03									Increase pump rate

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Altoona

Time	DW	GPM	Temp	Rc	TC						
11:08			70.0	384	-38	346					
11:11		580±									
11:13	203.9		7'								
11:15			70.1	390	-37	353					
11:20			70.1	390	-37	353					
11:25		560±	70.1	386	-37	349					
11:40			70.2	380	-37	343					
11:45	202.9	610±									
12:00	202.7	555±	70.3	384	-36	348					
12:35	202.7	555	70.3	380	-36	344					
12:45			-								Reduce pump rate
1:02	198.2	405	70.2	384	-37	347					
1:25	201.4	516	70.4	390	-36	354					Speed up
1:41	198.3	420±	70.4	390	-36	354					
2:05	196.65		70.4	390	-36	354					
2:06	202.6	520									
2:20	199.25	480	70.5	390	-36	354					
2:42	199.35	477	70.2	384							
3:00	198.9	420									
3:02			70.3	390							Old well ^{Rc} 452 at 57.5°F
3:30	198.9	420									
3:31	198.7		70.3	392							
4:00	198.97	420									
4:01			70.4	390							
4:31	199.0	460±	70.2	390							
5:00	198.93	460±	70.7	390							
5:30	199.2	460±	70.7	380							
6:00	199.1	460±	70.7	390							
7:10	199.1	460±									
7:11			70.4	390							
7:30											Water sample collected
7:32											Shut down

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Alhooa - July 7

	DW	GPM	TEMP	R _f						
7:32										Pumping stopped
8:02										Resume pumping
8:03:20			69.8	750	395					
8:04:30			70.1	740	389					
8:05			69.9	750	395					
8:05:30			69.9	740	389					
8:07			69.9	750	395					
8:08			69.9	750	395					
8:09			69.9	755	397					
8:10			70.0	750	395					
8:11			70.0	750	395					
8:12			70.0	690	363					
8:13			69.9	620	326					
8:14			69.9	600	315					water sample collected
8:15			69.8	605	318					
8:16			69.8	605	318					
8:17			69.8	600	315					
8:18			69.8	600	315					
8:19		275 ±	68.8	605	318					
8:20			69.7	620	326					
8:21			69.7	690	363					
8:22			69.7	700	368					
8:23			69.6	705	371					
8:24			69.5	710	374					
8:25			69.5	730	384					
8:26			69.5	730	384					
8:27			69.4	740	389					
8:28			69.4	740	389					
8:29			69.4	740	389					
8:30			69.5	740	389					
8:32			69.5	740	389					
8:36			69.7	740	389					

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 follow
 log
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