9-230

15 JUNE 72

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ____ / District ____

COLUMBUS Jct. TEST PUMPING WELL

TIME Hr.	TIME Min.	HOLD	WET +-	Water level WL	Corrected Elec. Line WL	DRAW down		METER				
9 20/A		25	14.43	10.57						SWL – steel tape		
		20	+0.30	20.30						SWL – Elec. line		
										∴ 9.73 cor. fac. from E. line		
10.00 A.								00183800		start		
	1	20	+0.30	20.30	10.57							
	2	30	+2.27	32.27	22.54	11.97						
	3	45	+0.63	45.63	35.90	25.33						
	4											
	5	60	+0.72	60.72	50.99	40.42						
	6									{ pumping rate for		
	7	80	-0.25	79.75	70.02	59.45				test held @ 205 gpm		
	8	85	0.00	85.00	75.27	64.70						
	9	85	+0.48	85.48	75.75	65.18				temp. held at 12°C		
	10		+0.78	85.78	76.05	65.48						
	12		+1.38	86.38	76.65	66.08						
	14		+1.85	86.85	77.12	66.55						
	16		+2.29	87.29	77.56	66.99						
	18		+2.63	87.63	77.90	67.33						
	20		+2.96	87.96	78.23	67.66						
	25		+3.50	88.50	78.77	68.20						
	30		+3.98	88.98	79.25	68.68		00190200	@ 33 min			
	35		+4.28	89.28	79.55	68.98						
	45		+4.75	89.75	80.02	69.45						
	55	90	+0.07	90.07	80.34	69.77						
11 00/A	60		+0.29	90.29	80.56	69.99		00196300	@ 11 02/A			
11 30/A	90		+0.88	90.88	81.15	70.58						
12 00/N	120		+1.37	91.37	81.64	71.07						
1 00/P	180		+1.85	91.85	82.12	71.57		00221100	@ 1 02/P			
3 15/P	315			91.54	84.81	74.24		00249700	@ 3 20/P			
5 10/P	430			95.33	85.60	75.03		00272600	@ 5 13/P			

Well loc. ≈ 600' E of present 2 town wells and on N side road to dump; ≈ 585' – 7½ tape elev.

NENESWSE 19-75-4

16th T = 12°C, Wat. sample collected @ 9 30/A – 23½ hrs.

Q = 205 gpm

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COLUMBUS JCT — PUMPING Well (con't)

TIME Hr	TIME MIN	HOLD	Wat +-	WL	Corrected Elec. Line WL	DRAW DOWN		METER				
8 10 P	610			95.73	86.00	75.43		00309000 @ 8 10 P				
16th 12 10 A	850			96.02	86.29	75.72		00358600 @ 12 10 A				
7 10 A	1270			93.38	83.65	73.08		00444400 @ 7 10 A		{ town pumped 85,800 gal. from midnight to 7 00 AM		
9 36 A	1416	95	-1.06	93.94	84.21	73.64		FINAL				
9 55	1435							00479000		pump shut off		
9 57		30	1.05	28.95						{ steel tape used for recovery measurements		
9 59		28	2.60 ?	25.40								
10 01		26	2.30	23.70								
10 02		24	1.09	22.91								
10 03		23	0.77	22.23								
10 05			1.26	21.74								
10 06		26	4.67	21.33								
10 07		23	2.31	20.69								
10 09		22	1.04	20.96								
10 11			2.26	19.74								
10 13		21	1.95	19.05								
10 15		20	1.33	18.67								
10 17			1.78	18.22								
10 20			2.20	17.80								
10 25		19	1.88	17.12								
10 35		22	5.42	16.58								
10 45		19	2.79	16.21								
10 55			3.05	15.95								
11 10			3.35	15.65								
11 25		18	2.55	15.45								
11 55 A		17	1.87	15.13								
1 32 P		15	0.25	14.75								
3 00 P		16	1.00	15.00						both pumps on		
7 35 P		15	0.98	14.02								
17th 7 18 A		12	0.58	11.42						#1 pump on		
9 48 A		12	0.79	11.21								

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COLUMBUS JCT Obs. WELL #1 at 46 feet

TIME Hr	TIME Min	HOLD	WET	Water level	DRAW down							
9 20 A		12	0.68	11.32					SWL – Steel tape			
				10.48					SWL – Elec. tape			
									∴ +0.84 Corr to Elec. tape			
9 59 A		10.40	+.84 =	11.24								
10 00 A									START PUMP			
	10 sec	10.57	+0.84 =	11.41	0.17					Elec tape		
	40 sec	13.44	+0.84 =	14.28	3.04					" "		
	1 MIN	15.52	+0.84 =	16.36	5.12					" "		
	4	31	5.02	25.98	14.74					Steel tape		
	5:20	30	2.57	27.43	16.19							
	6:15		1.89	28.11	16.87							
	7	31	2.44	28.56	17.32							
	8		1.91	29.09	17.85							
	9	32	2.47	29.53	18.29							
	10		2.11	29.89	18.65							
	12	33	2.51	30.49	19.25							
	14		2.02	30.98	19.74							
	16	34	2.60	31.40	20.16							
	18	35	3.26	31.74	20.50							
	20		2.96	32.04	20.80							
	25		2.37	32.68	21.39							
	30	36	2.92	33.08	21.84							
	40		2.30	33.70	22.46							
	50		1.90	34.10	22.86							
	60	37	2.56	34.44	23.20							
	90	38	2.88	35.12	23.88							
12 00 Noon	120		2.42	35.58	24.34							
1 00 P	180		1.87	36.13	24.89							
3 10 P	310	40	0.78	39.22	27.98							
5 05 P	425	41	0.88	40.12	28.88							
8 05 P	605		0.44	40.56	29.32							
16th 12 05 A	845		0.25	40.75	29.51							

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COLUMBUS JCT — Obs. well #1

TIME Hr	TIME MIN	HOLD	WET	Water level	DRAW down							
7 00 A	1260	41	2.93	38.07	26.83							
9 15 A	1395		3.06	37.94	26.70							
9 20 A	1400		2.91	38.08	26.84							
9 25 A	1405		2.90	38.10	26.86							
9 36 A	1416		2.50	38.50	27.26							
9 41 A	1421		2.37	38.63	27.39							
9 46 A	1426		2.30	38.70	27.46							
9 52 A	1432		2.22	38.78	27.54							
9 55 A	1435									PUMP OFF		
	1	39	4.99	34.01					Town well pumping during recovery			
	2	38	8.88	29.12								
	3	32	5.61	26.39								
	4	29	4.31	24.69								
	5	28	4.42	23.58								
	6	27	4.22	22.78								
	7	26	3.85	22.15								
	8	25	3.37	21.63								
	9		3.80	21.20								
	10	24	3.16	20.84								
	12		3.72	20.28								
	14	23	3.18	19.82								
	16		3.55	19.45								
	18	22	2.86	19.14								
	20		3.13	18.87					(CON'T)			
	25	21	2.64	18.36			TIME Hr	TIME MIN	HOLD	WET	WL	
	30		3.02	17.98			1 30 P		16	0.43	15.57	
	35		3.33	17.67			3 08 P			0.29	15.71	
	45		3.76	17.24			7 30 P			1.14	14.86	
10 55 A	60		4.20	16.80		17TH	7 15 A		13	0.80	12.20	
	90	20	3.69	16.31			9 45 A			0.33	12.67	
11 55 A	120	19	3.02	15.98								

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COLUMBUS JCT — Obs. in South Plant Well

TIME Hr	TIME MIN	HOLD	Wat	Water level	DRAW down							
				13.30						SWL		
10 00 A	0	16	2.73	13.27						SWL		
	1		2.73									
	2		2.73									
	3		2.75	13.25								
	4		2.76	13.24								
	5		2.76									
	6		2.76									
	7		2.75	13.25								
	8		2.74	13.26								
	9		2.70	13.30	0.03							
	10		2.67	13.33	0.06							
	12		2.60	13.40	0.13							
	14		2.51	13.49	0.22							
	16		2.42	13.58	0.31							
	18		2.32	13.68	0.41							
	20		2.22	13.78	0.51							
	22		2.11	13.89	0.62					(CONT)		
	24		~~1.79~~ 1.97	14.03	0.76							
	26		1.90	14.10	0.83		TIME Hr	TIME MIN	HOLD	Wat	Water level	
	28		1.80	14.20	0.93		3 00 P		33	2.41	30.59	
	30		1.70	14.30	1.03		5 00 P		38	3.02	34.98	
	32		1.60	14.40	1.13		8 00 P		33	1.04	31.96	
	35		1.46	14.54	1.27		12 00 MID		38	2.86	35.14	
	40		1.25	14.75	1.48	16TH	7 00 A		22	1.99	20.01	
	45		1.04	14.94	1.67							
	50		0.88	15.12	1.85							
	55		0.70	15.30	2.03		Pumping at water plant caused erratic water levels and measurements were stopped					
	60		0.54	15.45	2.18							
11 30 A	90	~~16~~ 15	0.08	~~16.92~~ 15.92	2.65							
12 00 NOON	120	17	0.32	16.68	3.41							
1 00 P	180	18	0.64	17.35	4.08							

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