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 $\gamma = 816039$ aquifer test report lower hawthorn aquifer CAPE CORAL, FLORIDA

APRIL, 1983 ry-draft

For:

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AQUIFER TEST REPOTT LOWER HAWTHORN AQUIFER CAPE CORAL, FLORIDA

APRIL, 1983

INTRODUCTION

This groundwater hydrology well test is sponsored by the Utilities Department of the city of Cape Coral; Florida to better determine the yield characteristics of the lower Hawthorn aquifer in the vicinity of the Reverse Osmosis plant.

Scope

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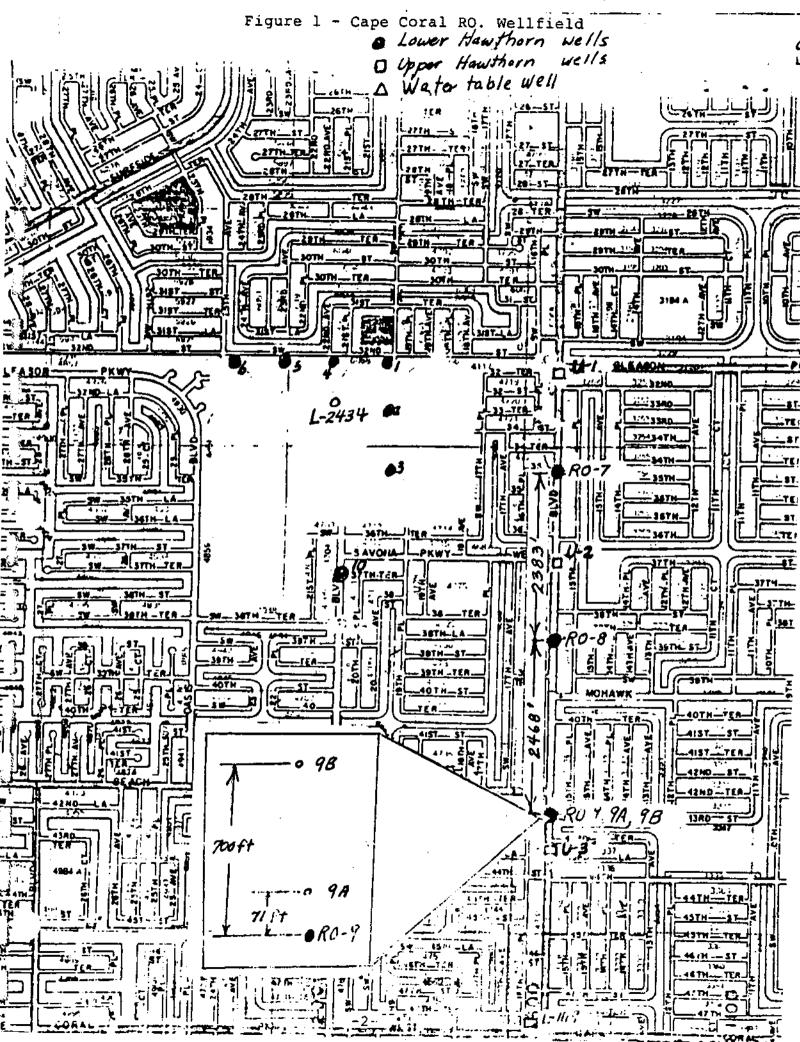
This report represents a summary and analysis of data from the test pumping of Well RO 9 in Cape Coral Reverse Osmosis wellfield. This pumping test occurred during the period of March 28 until April 7, 1983. Water level observations were precautiously made on March 7 and 8, 1983. This well will supply feed water to a Reverse Osmosis treatment plant located in Cape Coral.

Acknowledgment

The data collection was made by Durward H. Boggess, hydrologist and retiree from the U.S. Geological Survey. Analysis of data was made by the Hydrology Division, Layne-Western Company, Inc. The project was under the direction of Howard Needles Tammen and Bergendoff of Cape Coral, Florida.

Location of Wells

The wellfield providing water for the Reverse Osmosis plant is located in the southwest quadrant of the city limits of Cape Coral. As indicated in Figure 1, Well RO 9 is the southernmost well of the Reverse Osmosis wellfield. For the purpose of this test, two (2) observation wells (Wells 9A and 9B) were constructed to the north of Well RO 9. Well 9A is 70 feet from Well RO 9 and Well 9B is 700 feet from Well RO 9. Also during the test, Wells RO 7 and RO 8 were used as observation wells. The producing zone of the Reverse Osmosis wellfield is the lower Hawthorn aquifer. Well RO 9 is further described as being located near the center of the west side of the NW ½ of Section 10, Township 45 South, Range 23 East, in Lee County, Florida.



Description of Aquifers

The lower Hawthorn and Suwannee aquifers are both artesian. They contain water which is not potable due to the presence of dissolved solids. The water is not treatable to potable water standards by conventional softening processes. Water is not taken from aquifers deeper than the Suwannee because they are known to contain more highly mineralized water than the Suwannee aquifer. Although the well yield can be increased by drilling into the Suwannee aquifer, the mineral content also increases with depth. Therefore most water is taken from the lower Hawthorn aquifer.

The lower Hawthorn aquifer consists of sandy limestone in the lower part of the Hawthorn formation and upper part of the Tampa limestone. It extends from approximately 350 feet below land surface to 700 feet. The Suwannee formation begins at about 750 feet below land surface. The top 100 feet or so of this formation consists of a dense limestone or clay which serves to divide the Suwannee aquifer and the lower Hawthorn aquifer. The water producing portion of the Suwannee formation begins at about 800 feet and may extend to deeper than 1,000 feet. The lower Hawthorn and the Suwannee aquifers are both under sufficient artesian pressure to produce free flowing wells at land surface. This information is illustrated in Figure 2.

Although most wells in the Reverse Osmosis wellfield do not penetrate into the Suwannee aquifer, leakage from the Suwannee aquifer into the lower Hawthorn aquifer may occur. The data from the RO 9 pumping test will be evaluated to determine the leakage coefficient between the two aquifers.

Description of Wells

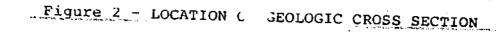
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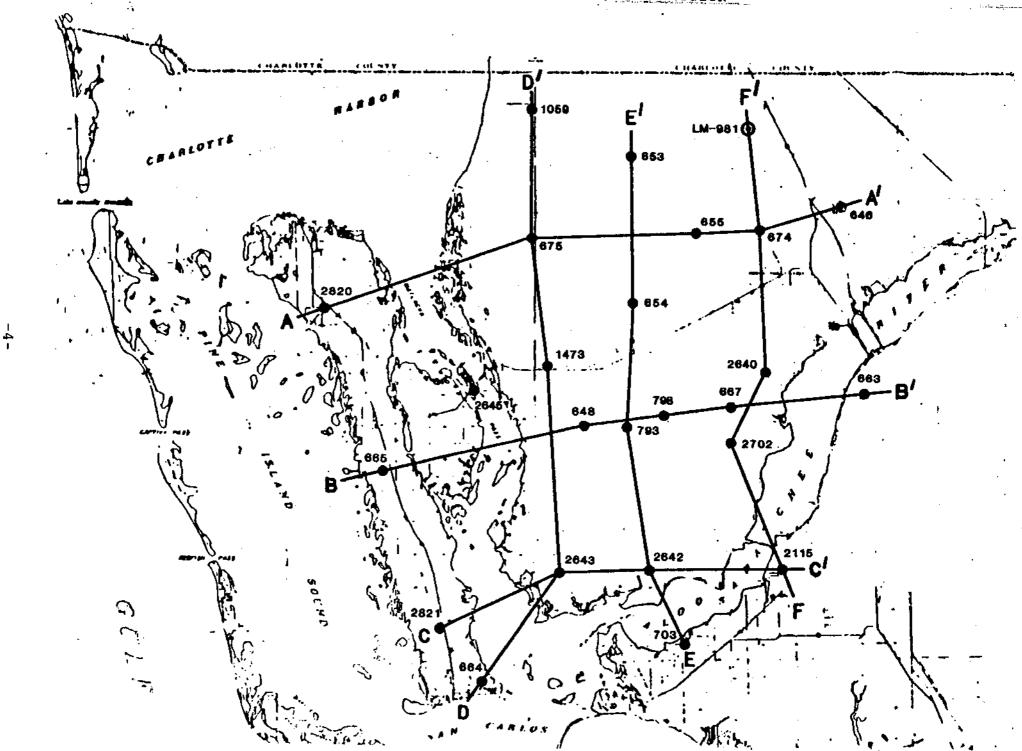
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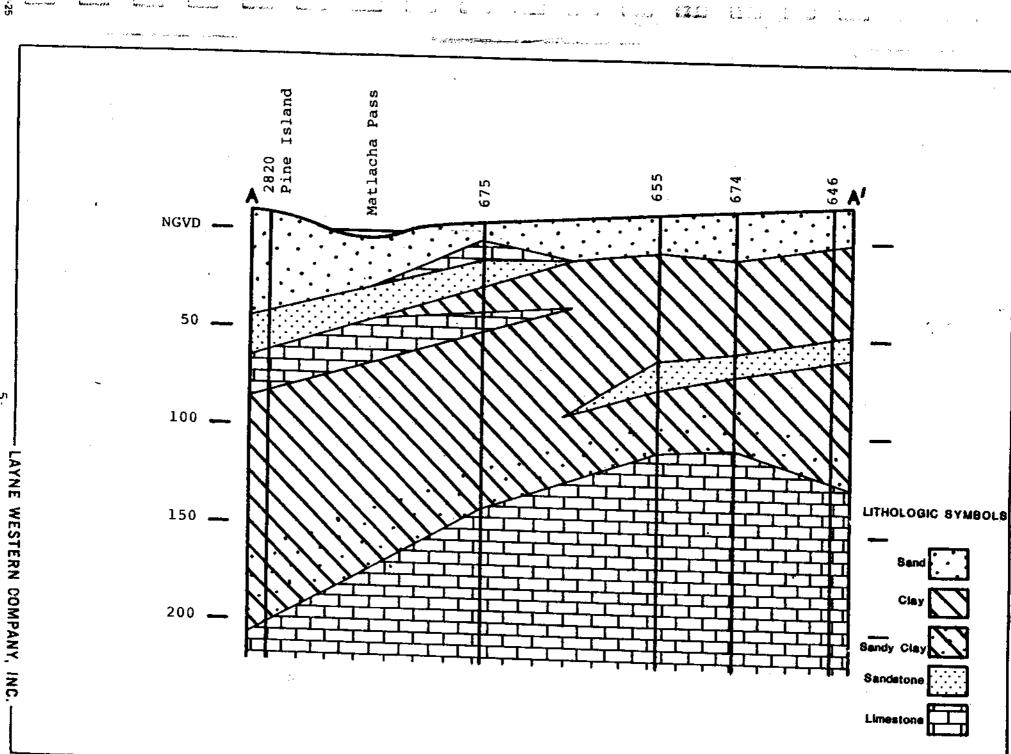
Well RO 9 is a 12-inch diameter well drilled to a depth of approximately 750 feet. This well is cased and cement grouted to a depth of 350 feet. This well, as are the other Reverse Osmosis wells, is an open hole limestone rock well extending through the whole depth of the lower Hawthorn aquifer. Observation wells 9A and 9B were similarly constructed except that they have a 4-inch diameter casing.

A summary of the driller's logs for RO Well 9 is given in Table 1. Additional well log data is given in Appendix I of the report.



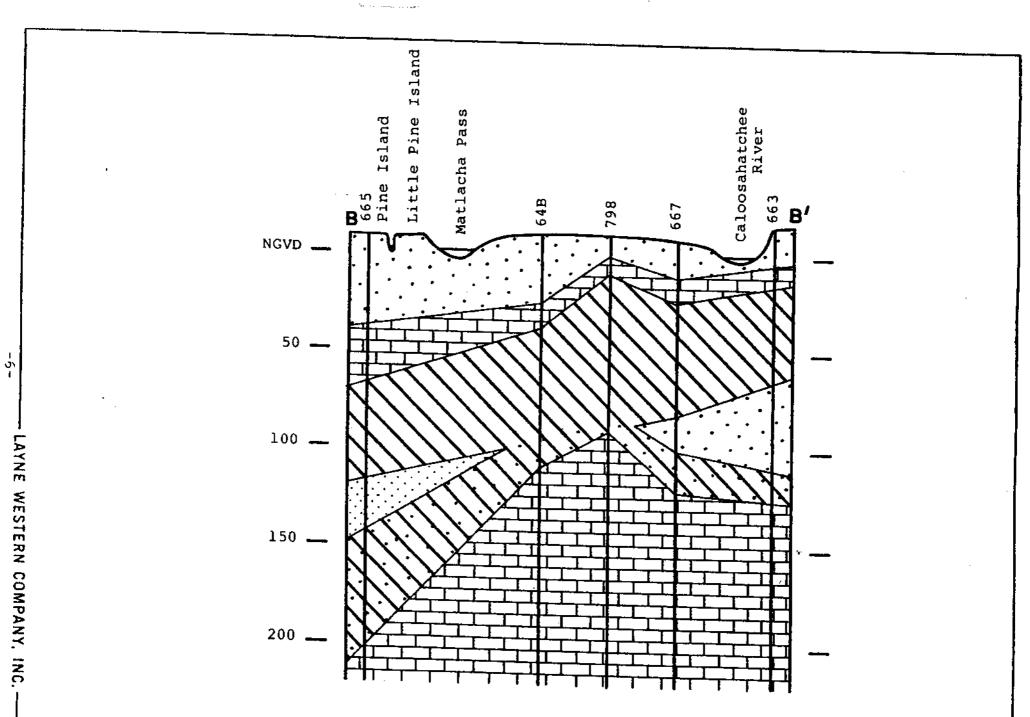
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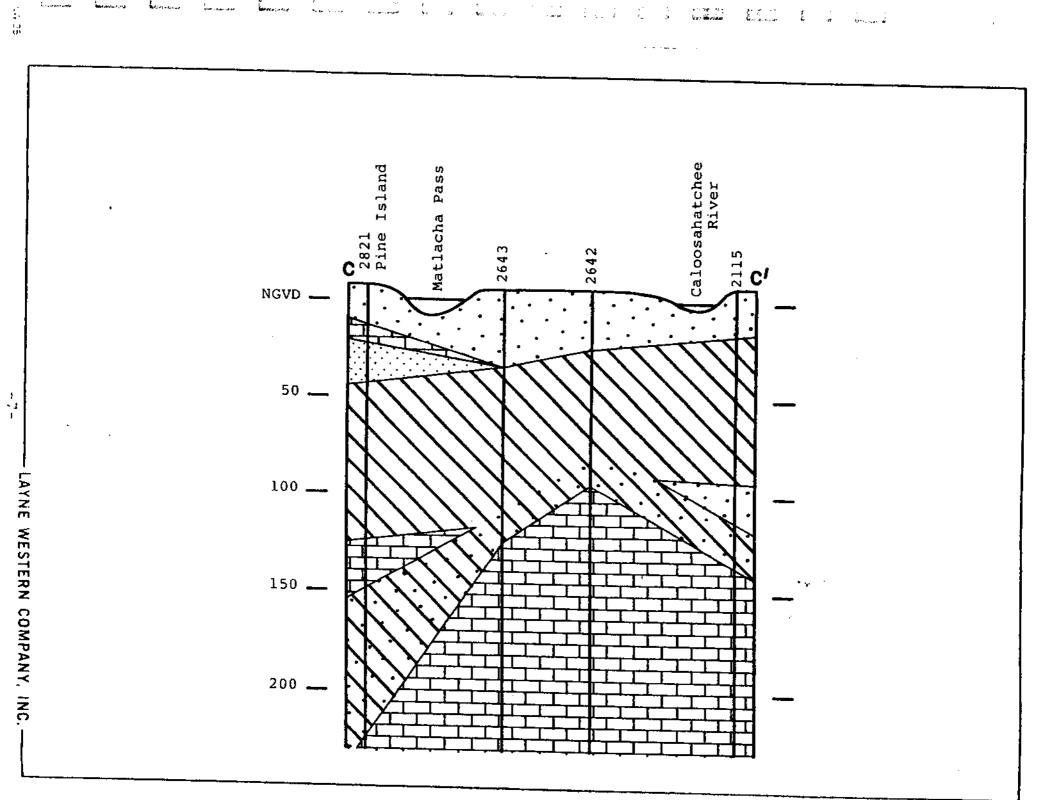


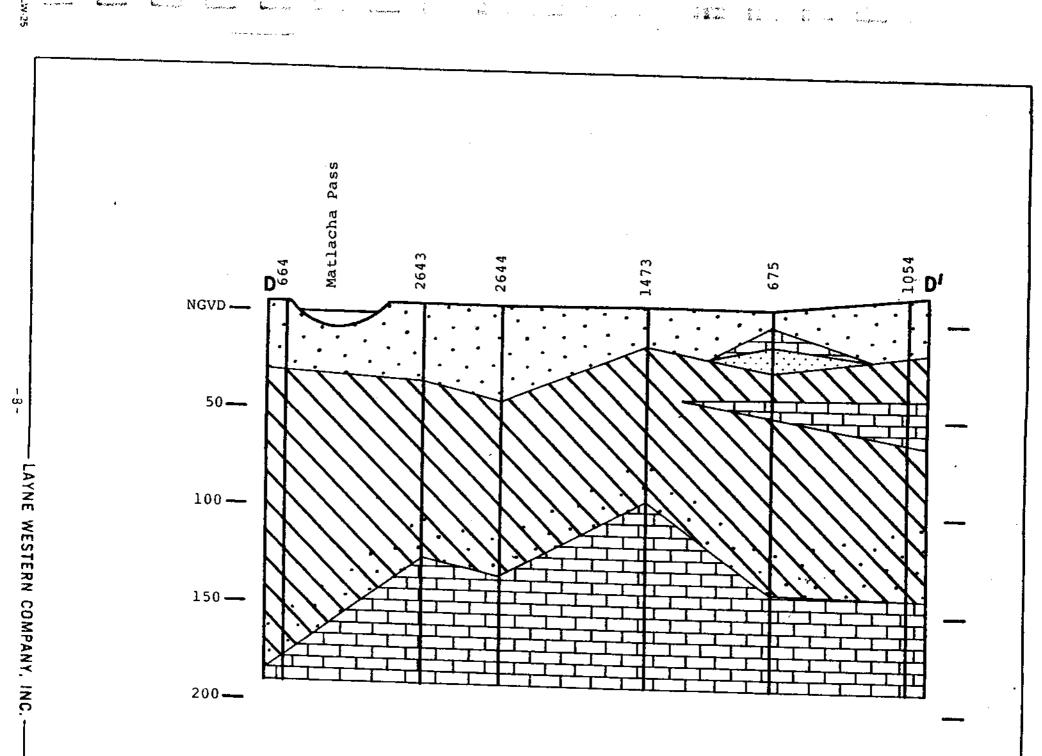
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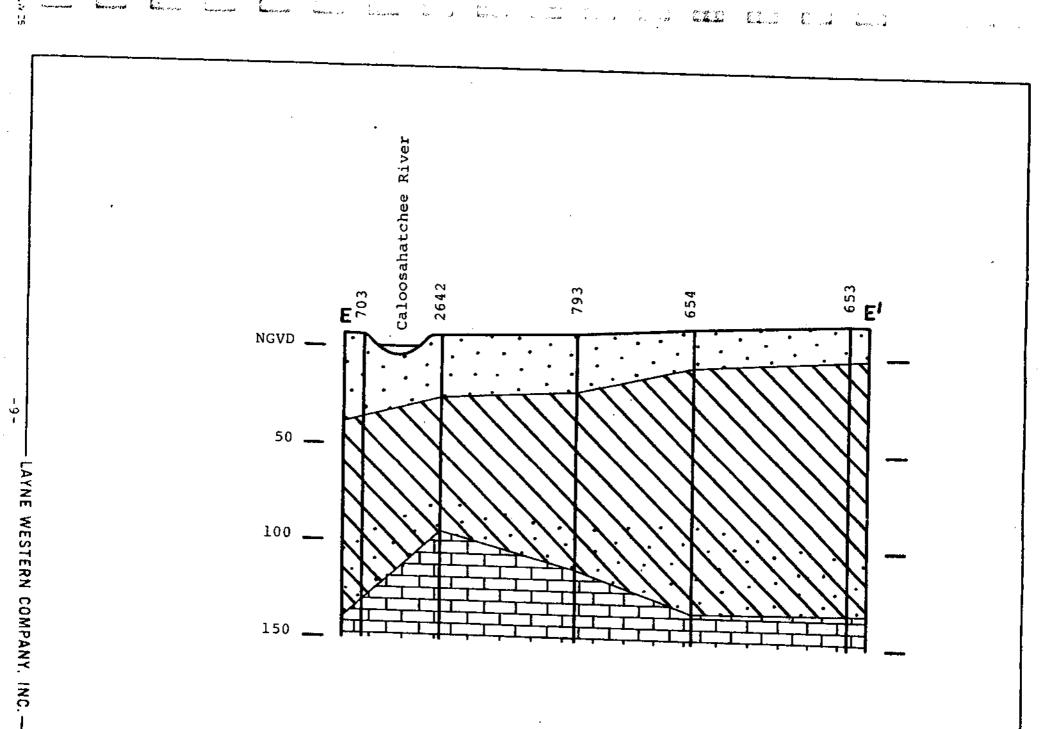
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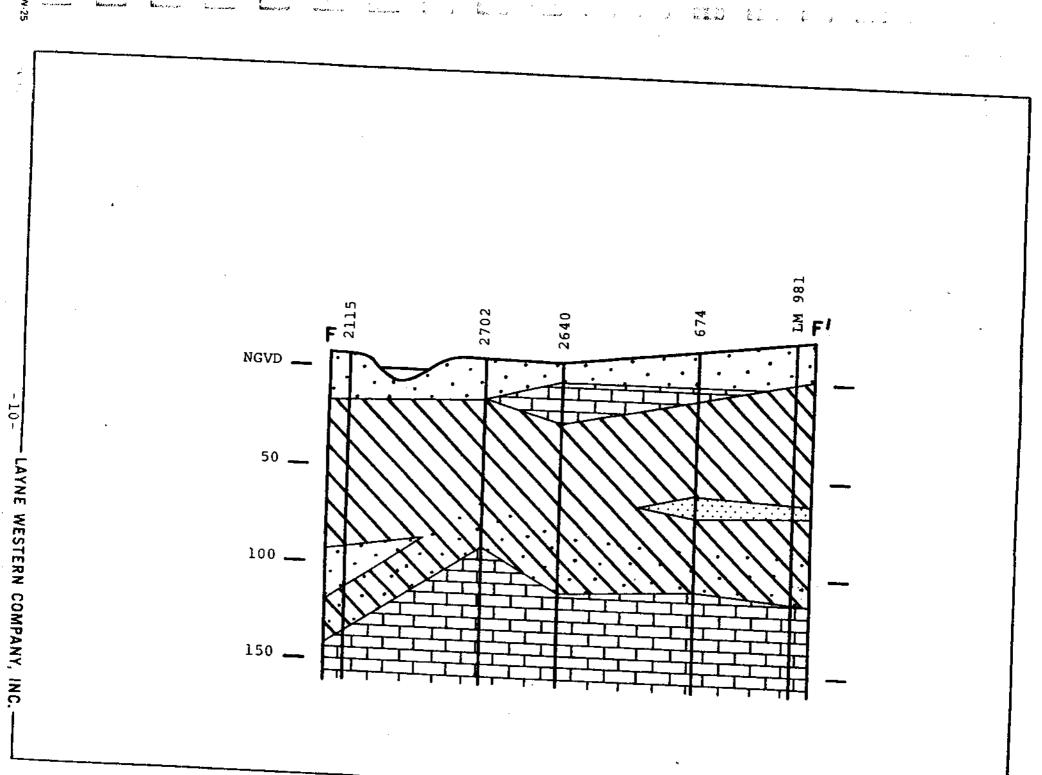


TABLE 1

DRILLER'S WELL LOG SUMMARIZED

R.O. WELL #9

Driller set 33 feet of 20-inch black steel surface casing from 3 feet above ground to 30 feet below ground. The well casing consisted of 353 feet of 12-inch diameter PVC Schedule 40 material set from 3 feet above ground level to 350 feet below the ground. Use 14.5 sacks of 94 lb grout amount with 5% bentonite.

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From	apth n <u>To</u>	Formation	Thickness Feet
0	20	Sand, Shell with Rock	20
20	35	Shell and mud, Thick	15
35	40	Green Clay	5
40	50	White Rock, Clay and Shell	10
50	90	Green Clay	40
90	100	Green Clay w/rock, Phosphate	10
100	105	Brown Shell w/rock Phosphate	5
105	180	Limestone	75
180	200	Green Clay	20
	295	Limestone	20 95
295	330	Clay	35
330	390	Limestone	60
390	445	Limestone w/clay	
445	490	Limestone	55
490	500	Gray Limestone	45
500	505	Limestone w/clay	10
505	510	White to Green Clay	5 5
510	520	Limestone	5
520	525	Gray Clay	10
525		White Clay	5 5 5 5 5 5 5
530	535	Green Clay w/limestone	5
535	540	White Clay and Limestone	5
540	545	Tan Limestone	5
545	550	White Clay w/limestone	5
550	570	Limestone w/clay	
570	580	Tan Limestone	20
	605	Brown Limestone	10
	610	White Limestone	25
610	705		5
705	755	Brown Limestone	95
		Clay	50

PUMPING TEST

An attempt was made to start the pumping tests on March 4 and again on March 11, 1983, but was discontinued after several hours each time because the rate could not be maintained. The information on these tests, although limited value, is included in Appendix II. The third start using a lower pumping rate, began on March 28 with continuous pumping of Well RO 9 until April 7, 1983. Recovery measurements were then made thru April 8, 1983.

There were numerous problems prior to and during the tests. The most serious of which were related to highly unusual weather patterns, which resulted in about 19.5 inches of rain and strong gusty winds. This caused several delays from early February to the actual start of the test. This threat continued during the entire test period.

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Table 2 gives the description of wells at or near the Cape Coral RO plant. Listed are the wells giving both the City number and the U.S.G.S. file number, the depth, aquifer unit or units, and other details. Table 3 gives the rainfall occurrence for February, March, and part of April, 1983.

During the course of this test, Wells RO 1, 2, 4, and 6 were being pumped to provide water to the Reverse Osmosis plant. These wells were pumped at a constant level for several weeks prior to and during the test. This was done in an attempt to stabilize the water level elevations throughout the area. However, it appears from results of the test that the pumping level within the Reverse Osmosis wellfield changed during the course of the test. This change in pumping rate effected the drawdown of Observation well L-2434, which is a permanent U.S.G.S. monitoring station. The drawdown in this well was registered as being 3 feet during the course of the test. This value would seem excessive considering the other observed well drawdowns. This apparent change in the pumping rates in the wellfield would also tend to effect the drawdown in Wells RO 7 and RO 8. Therefore, for the purpose of this data analysis, Wells RO 7 and RO 8 were not considered as fully responsive to the pumping of RO 9 well, but were used as backup for the results of the other tests.

					Table 2				
		DES	CRIPTION	OF WELLS AT	OR NEAR T	HE CAPE CORA	L RO PLANT		· .
Well <u>City</u> RO l	Number <u>USGS</u> L-2113	Depth <u>(Ft.)</u> 900	<u>Aquifer</u>	Casi Depth(ft)	ing Diam(in)	Alt. of Land Sur. _(NGVD)	Alt. of MP Above Land Sur.	Sp. Cap (gpm/ft)	Use of Well
RO 2 RO 3 RO 4	L-2249 L-2250 L-2251	745₩-128/ 685 705₩-1338	LH	362 362 347	10 12 12	7 6 6	2.3	86 50	Prod.
RO 5 RO 6 RO 7	L-2272 L-2273	705 (1-5)3 700 765	LH LH LH	345 350 345	12 12 12	6 6 6	2.4	102 34 28 17	14 M 15
RO 8 99 90		748 737	 LH LH	-	ime as RO 9 ime as RO 9 12) 9 8	2.3 2.5 2.4		11 11
9B RO 10 U 1	 L-2434	750 755 700	LH LH LH	350 350 353	4 4 12 4	8 8 8 7.03	2.5 1.9 	 	Obs. Obs. Prod.
U 2 U 3	 L-581	270 265 174	UH UH 	106 107 Reported sa	8 8 me as U 1	8 8 	3.1 2.1 2.3 2.2	 	Obs. Prod. Prod.
	L-1119 L-2644 L-1136	224 178 13	UH UH WT	42 128	8 2 4	9.92 7.51	3.0 2.1 3.2		Obs. Obs. Obs.
	•	LH - Low	er Hawtho) prn	4 SV - Su	9.71 wannee	2.6		Obs. Obs.

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UH - Upper Hawthorn

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WT - Water Table



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RAINFALL RECORDS FROM THE CAPE CORAL REVERSE OSMOSIS PLANT

•	February	1983 <u>March</u>	<u>April</u>	
1		.03		
2	2.1		.05	
3				
4				
5				
6	1.25			
. 7	. 4	1.07	~~-	
8		.79		
9			.03	-
10	.5	.27	1.25	
11		.10	.30	
12	.82			
13	2.06			
14				
15		.23		
16	· . 8	.32		
17	.13	1.33	~~~~	
18				
19	. 8			•
20				
21		.22		
22				
23				
24		2.00		
25	·· ···			
26				
27	2.17	.05		
28	1.04	.05		
29				
30				
31				
Total	12.07	7.43		

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AQUIFER ANALYSIS

Analyzing extensive test data is very difficult to fully understand the many changes occurring in the system. The early to middle portion of the data, usually from 5 to 1,500 minutes elapsed time, reflects the formation conditions in the vicinity of the well for the depth and thickness penetrated by the well and observation wells. This computed value of transmissivity is usually the lowest number obtained from the data and should be used for the evaluation of well performance. From 1,000 minutes to more than 10,000 minutes in elapsed time, the aquifer test data reflects factors occuring to the aquifer, such as boundaries, both leakage infiltration and barrier conditions, atmospheric pressure changes and pumpage of other wells at the plant. In reviewing the many drawdown plots, shown in Figures 3 thru 10, the above variations and changes are apparent.

Some of the raw data consisting of reorder charts and Barograph charts are given in Appendix II. There was a fluctuation of water levels of about 0.05 feet daily in the records. Since this was consistent, numbers were selected for the tables that represented the best fit. The variation in pressure was observed on the Barograph records attached in Appendix II.

Shown in Table 4 is the listing of various values of the formation coefficients calculated from the data. The **time versus drawdown data**, collected during the course of this test, was plotted on semilog graphs and log-log graphs for each of these three wells. The transmissivities and coefficient of storativities were calculated from these graphs. The plots of Wells RO 9 and 9A, shown in Figures 4 and 5, indicate a formation transmissivity of approximately 35,000 gpd/ft of aquifer for the early part of the test. The plots of Well 9B indicated a much higher transmissivity of about 100,000 gpd/ft. The values of coefficient of storativity were approximately 0.003. These values are similar to the values documented for Wells RO 1 thru RO 6.

Using the values of 35,000 gpd/ft for transmissivity and 0.003 for storativity, the theoretical specific capacity of the well is 17.7 gpm/ft of drawdown. This compares nearby exactly with the observed specific capacity of 17.8 gpm/ft.

Using a transmissivity of 35,000 and the actual drawdown of Well RO 9, a distance-drawdown semilog plot would indicate a radius of influence of about 3,000 feet. At this radius of influence, Wells RO 7 and L 2434 should not be affected by pumpage of Well RO 9 at 746 gpm. This would confirm that other factors influenced the drawdown of Wells RO 8 and RO 7 during the test.

Semilog Plot	<u>T_Early</u>	T Later	S
Well RO 9	35,200	75,750	
9A	37,870	93,780	.00023
9B	106,450	180,700	÷.0002
Well RO 8	-	174,300	.0011
Well RO 7		166,900	.00053
9A to 9B	24,660	Distance-D	rawdown
RO 9 to 9B	34,250	Distance-D	rawdown
			ž
Log-Log Plot	<u> </u>	<u>S</u>	P*
Well RO 9	34,600	.0054	.035
9A	38,000	.0016	.050
9B	93,000	.002	.017

TABLE 4 - SUMMARY OF FORMATION COEFFICIENTS

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T's are expressed in gpd/ft, S values are dimensionless, and leakage (P') given in gpd/ft^2 . 2

The aquifer's leakage factor was calculated using Walton's solution for transient condition, leaky aquifers. The leakage factor was determined to be 0.0335 gpd/ft². Assuming that all water to Well RO 9 was supplied by leakage from the Suwannee aquifer, then a circular area with a radius of 3,200 feet would be required to replenish the daily withdrawal of Well RO 9. This value closely agrees with the radius of influence from the distance-drawdown plot.

It should be noted on the log-log plot, attached as Figure 3, that the vertical leakage rate appeared to decrease as the drawdown decreased further from the test pumping well.

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In Table 5, listed are miscellaneous measurements in other Cape Coral wells in both the water table and upper Hawthorn aquifers during the test. The effect of these water level changes may have had some effect on the lower Hawthorn aquifer especially as noted in L-2434.

Figure 11 gives the water level hydrograph for L-2434, located at the Reverse Osmosis plant, reflecting the water level in the lower Hawthorn aquifer.

Figure 12 gives the water level hydrograph during the text for upper Hawthorn Observation well L-581.

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		<u>tri</u>			• -
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000000	000000000000			TEST WELL	· .
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	MATCH POINT SB				- -
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	- Construction of the second s	800mm	GE00000	085. WELLE = 700	s egul -
					X
	00000				
			MATCH POINT 94		•
		1			
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Cape. (Coral Hall po a				
Test	28 Mar - 7 Apr '83	E Cape Coral Well	1 0.	Cape Coral Well 98	
Match	Rate 745 GPH	E Match Point		Match Point	
0	= 10 = 10 ⁵	A L/u - 105		= 1/u = 100	-
r/B :	00005	r/B = 0.008			
	= 24.7 feet = 5.6 min	: - • 7400 min	n	E # 390 min	4
······································	= 34,600 gpd/ft = .00538	T = 38,000 g S = 0,0016	abo, ic	S = 0.00206	
Э	= 0.035 gpd/ft ²	관 P' = 0.05 gpd	1/ct ²	P' = 0.017	
				꽃 - 이번 영소 방법을 흘러 한다.	
19	108	LOOG	<u></u>	10,000	
	TI	ME	AS		
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AQUIFER TEST

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Cape Coral AME

DATE 3-28-83

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LCTATION_____

WELL NO. Pumped Well RO-9 JOB NO. OR 737

TIME OF	ELAPSED TIME	WATER LEVEL	DRAWDOWN	RECOVERY	REMARKS
DAY	IN MINUTES	FROM MS PT	IN FEET		Pumping Rat
	<u>S.W.L.</u>				
0829	0	+14.64	0		
0.900	<u>1.0</u>	- 8.24	22.88		
	2.5	9.92	24_56		
	3.0	10.45	25.09		
	4.0	11.01	25_65		
	5.0		26.02	-	
	7,3	12.29	26.34		
	8.0	12 53	27.17		
,	9.0	12.79	27.43		
	10.0	12.94	27.58		
	12.0	13.32	27.96		- ····
• 4	14.0	13.66	28.30		
	16.0	14.04	28.68		
	18.0	14.37	29.01		
	20.0	14.59	29.23		
	22.0	14.84	29.48		
	24.0	15.02	29.66		
	26.0	15.23	29.87		
	28.0	15.41	30.05	1	
X	30.0	15.54	30.18		
1	1 33.0	16.01	30.65		
л	36.0	16.27	30.91		
0940	40.0	16,52	31.16	·	
0945	45	16.88	31.52		
	50	17.14	31.78		
	<u>i 55</u>	17.39	32.03		
1000	60	17.62 i	32.267		770
	65	17.86	32-50	· · · · · · · · · · · · · · · · · · ·	
	70	<u>18.01</u>	32.65		
	<u>80</u> א <u>90</u>	18.33	32,97		
	<u><u> </u></u>	18,71	33.35	ļ. <u>, , , , , , , , , , , , , , , , , , , </u>	ļ
	$\frac{3}{100}$	19.03	33,67		
··· <u>·</u> – – – – – – – – – – – – – – – – – – –		19.47	34.11		
- <u>i</u>	140	19,85	34.49	·	÷
1200	160	20.12	34.76	<u> </u>	
1200	180	20.39	35.03	· · · · · · · · · · · · · · · · · · ·	746
1220	200	20.60	35.24	I	<u>í</u>
1250	230	20.84	35.48		1
1320	260	21.07	35,71	<u>í</u>	÷ ·
1350	290	21.44	36.08	i <u>,</u>	·
1420	320	21.60	36.24	· -	763
1450	350	21,76	36.40		753
1530	390	21.93		• •	i
.00	430	22.06	36.70		·
<u>550</u> ⊥740	470 -	22.44	37.08		750
1041	520	22.62	37.26		756
	<u>581</u> 640	22.82	<u>37.46</u> 37.60		
1940	640				

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LAKNE WESTERN DOMPANY I NO.

AQUIFER TEST

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DRAWDOWN

AME Cape Coral

DATE 3-28 thru 4-1-83

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LOCATION

WELL NO. Pumped WellRO-9 JOB NO. OR 737

TIME OF DAY	ELAPSED TIME IN MINUTES	WATER LEVEL From MS PT	DRAWDOWN IN FEET	RECOVERY	REMARKS Pumping Rate
	S.W.L.		Static +14.64		
2040	700	23.15	37 79		
2140	760	23,29	37.93		
2240	820	23.44	38.08		
2400	900	23.60	38.24		
3-29-83					
0140	1000	23.72	38,36		
0320	1100	23,84	38.48		
0500	1200	23.98	38.62		
0640	1300	24.09	38.73		
0800	1380	1			752
0.820	1400	24.18	38.82		
1000	1500	24.33	38.97		755
1320	1700	24.54	39,18		750
1640	1900	24.62	39.26		
2000	2100	24.74	39.38		
3-30-83)			·	
0205	2465	24.97	39.61		
0600	2700	25.01	39.65		
1100	3000	25.11	39,75		743
1740	3400	25.15	39,79		742
3-31-83					
0020	3800	25.34	39.98		74.8
0840	4300	25.35	39.99		745
1700	4800	25.55	40.19		740
4-1-83					/40
0300	5400	25.72	40.36		739
1300	6000	25.84	40.48	· · · · ·	741
2300	6600	25.94	40.58		748
4-2-83		63.74	40.20	*	1
0900	7200	25.95	40.59		748
2100	× 7920	26.08	40.72		740
4-3-83	- ÷	20,00	40.12	· · · · · · · · · · · · · · · · · · ·	
0830	로 3 8610	26.25	40.89	· · · · · · · · · · · · · · · · · · ·	74.8
2100 i	<u>5 8810</u> I 9360	26.25	40.89		748
4-4-83		20.29	40.95		/ 1/
0900	10,080	26 41	41.05		747
2100	10,080	26.41	41.05	,	747
4-5-83	<u> </u>				<u> </u>
0900	11,520		41 17		738
2100	12,240	26.53	41.17		750
4-6-83	<u>+6,64V</u>	27.07	41.71		1 /00
0900	12.960	27 04	41 69	· · · · · · · · ·	752
2100	13,680	27.04	41.68		751
		27.10	41.74	- <u></u>	101
4-7-83		07.16	4.2		<u> </u>
0750	14,330	27.16	41.80		·
<u>'900</u>	14,400 -	27.12	41.76	· · 	761
0905	14,405			<u></u>	751

LATINE WESTERN COMPANY, INC.

AQUIFER TEST RECOVERY

_ SAME Cape Coral

LOCATION

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N,

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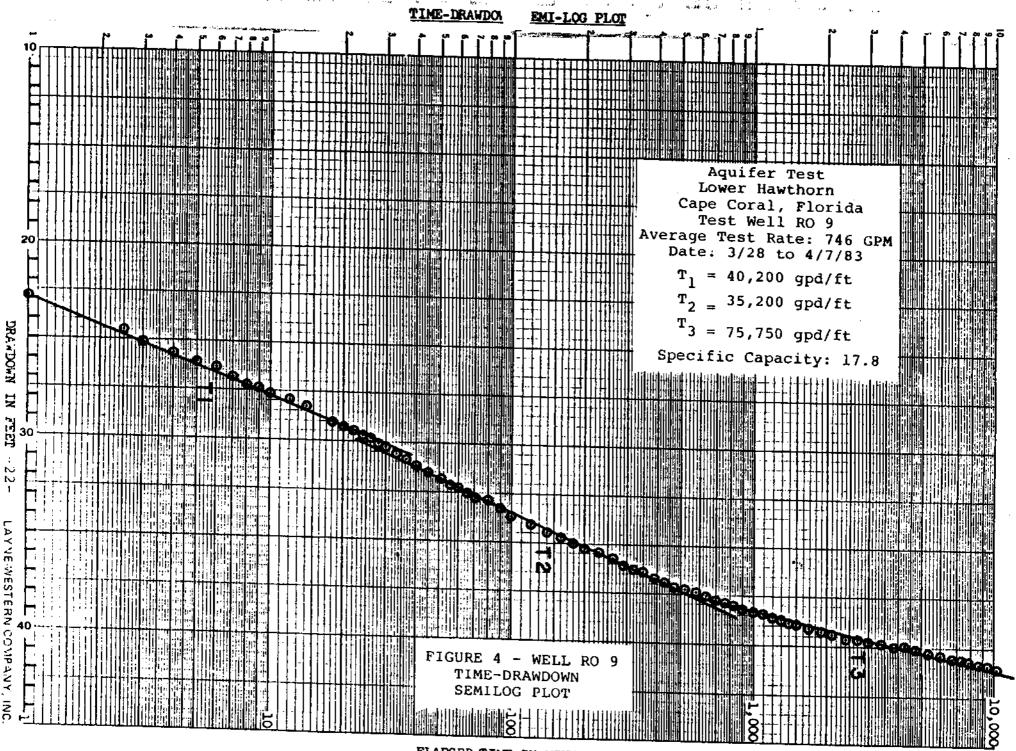
_____ OATE _____ 4-7-83

WELL NO RO 9 JOB NO. OR 737

- - - -

OCATION		W	ELLNO <u>RO9</u>	JOB NO	<u>OR 737</u>
Mea	as. Point 2.4 f	t. above LSD	<u>Top plate o</u>	f well	
TIMEOF	ELAPSED TIME	WATER LEVEL	DRAWDOWN		1
DAY	INMINUTES	ABOVE VS PT	IN FEET	RECOVERY	REMARKS
	S.W.I.,				· · · · · · · · · · · · · · · · · · ·
0750		-27.16		PWL -27.12	
0900	0	-27.12			
0905	0	+ 1.04		28.16	pump_off_
0909	4				<u></u>
0910	5	1,51		28.63	
	6	1.91		29.03	
· · · ·	7	2.28		29.40	
	8	2.58		29.70	
	<u> 9</u>	2.86		29.98	
0915	10	3.10		30.22	
	12	3.54		30.66	
	1 14	3.89			
	<u> </u>	4.21	<u> </u>		
0925	20	4.51		31.63	
1	22	4.77		31.89	
	24	4.99		32.11	
	26	5.41		32.33	
	28	5.60		32.53	
0935	30	5.78		32.72	
	33	6.02	<u> </u>	32.90	
	· 36	6.24	······································	33.36	
0945	40	6.53		33.65	<u> </u>
	45	6.82			· · · · · · · · · · · · · · · · · · ·
·	50	7.10		34.22	
0955	55	7.33		34.45	
0960	60	7.56		34.68	
0965	65	7.77		34.89	
<u> </u>	70	7.96		35.08	
1035	80	8.27		35,39	
1035	<u>>90</u>	8.55		35.67	
1105	100 120	8.81		35.93	
1105	$\frac{3}{2} - \frac{120}{140}$	9.22		36.34	
	160	9.56		36.68	
1205	180	<u>9.84</u> 10.08		36.96	
1225	200	10.08		37.20	
1/255	230			<u>37.40</u> 37.68	
1325	260	10.79		27 01	
1355	290				
1425	320	11.16		<u> </u>	
1455	350	11.31	· - · · - · - ·	38.28	,
1535	390	11.48	·····	38_43	
1615	430	11.63		38.75	
1655	470	11.76		38.88	
745	520	11.89		39.01	
.45	580	12.04	· · · · · · · · · · · · · · · · · · ·	39.16	
1945	640	12.12		39.24	
2045	700	12.22		39.34	· · · · · · · · · · · · · · · · · · ·
2145	760	12.33		39.45	

AME Cape Coral DATE 4-7-83 DCATION WELL NO R0 9 JOB NO. OR 73' TIME OF ELAPSED TIME WATER LEVEL DRAWDOWN RECOVERY REM S.W.L. TIN FEET PWL -27.12 39.54 39.54 39.54 4.8.83 900 12.42 39.56 39.66 39.65 0015 100 12.70 39.82 39.95 39.82 0325 1100 12.83 39.95 39.82 39.95 0345 1300 12.99 40.11 40.25 40.21 40.21 0905 1440 13.13 40.25 40.21 40.21 40.21 1 1 1 1 1 40.25 40.21	
CATION WELL NO. RO JOB NO. OR 73 TIME OF DAY ELAPSED TIME IN MINUTES WATER LEVEL ABOVE MS PT IN FEET DRAWDOWN IN FEET RECOVE RY PWL -27, 12 REM 2245 B20 12, 42 39.54 39.66 39.66 0005 900 12, 54 39.66 39.65 39.65 0145 1000 12, 70 39.82 0325 100 12.92 40.04 0645 1300 12.99 40.21 0835 1400 13.13 40.25 0305 1440 13.13 40.25 1 1 1	
TIME OF DAY ELAPSED TIME IN MINUTES WATER LEVEL ABOVE MS PT DRAWDOWN IN FEET RECOVERY REM 2245 820 12.42 39.54 -27.12 2245 820 12.42 39.54 - 4-8-83	
DAY IN MINUTES ABOVEMS PT IN FEET S.WL PWL -27.12 39.54 2245 820 12.42 39.54 A=8-83 0005 900 12.54 39.66 0145 1000 12.70 39.82 039.55 0325 1100 12.83 39.95 0645 0645 1300 12.92 40.04 0645 0835 1400 13.09 40.21 0905 0905 1440 13.13 40.25 0100	<u>Z. </u>
DAY IN MINUTES ABOVEMS PT IN FEET S.WL PWL -27.12 39.54 2245 820 12.42 39.54 A=8-83 0005 900 12.54 39.66 0145 1000 12.70 39.82 039.55 0325 1100 12.83 39.95 0645 0645 1300 12.92 40.04 0645 0835 1400 13.09 40.21 0905 0905 1440 13.13 40.25 0100	
DAY IN MINUTES ABOVEMS PT IN FEET S.WL PWL -27.12 39.54 2245 820 12.42 39.54 A=8-83 0005 900 12.54 39.66 0145 1000 12.70 39.82 039.55 0325 1100 12.83 39.95 0645 0505 1200 12.92 40.04 06445 0645 1300 12.92 40.11 0835 0905 1440 13.13 40.25 010	
S.WL. PWL -27.12 2245 820 12.42 39.54 4-8-83 39.66 0005 39.66 0145 1000 12.70 39.82 0325 1100 12.83 39.95 0505 1200 12.92 40.04 0645 1300 12.99 40.11 0835 1400 13.09 40.21 0905 1440 13.13 40.25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< td=""><td>APKS</td></t<>	APKS
2245 820 12.42 39.54 4-8-83	
4-8-83 39.00 12.54 39.66 0105 900 12.70 39.82 0325 1100 12.83 39.95 0505 1200 12.92 40.04 0645 1300 12.99 40.11 0835 1400 13.09 40.21 0905 1440 13.13 40.25	<u> </u>
0145 1000 12.70 39.82 0325 1100 12.83 39.95 0505 1200 12.92 40.04 0645 1300 12.99 40.11 0835 1400 13.09 40.21 0905 1440 13.13 40.25	
0145 1000 12.70 39.82 0325 1100 12.83 39.95 0505 1200 12.92 40.04 0645 1300 12.99 40.11 0835 1400 13.09 40.21 0905 1440 13.13 40.25	
0325 1100 12.83 39.95 0505 1200 12.92 40.04 0645 1300 12.99 40.11 0835 1400 13.09 40.21 0905 1440 13.13 40.25	
0645 1300 12.99 40.11 0835 1400 13.09 40.21 0905 1440 13.13 40.25	
0835 1400 13.09 40.21 0905 1440 13.13 40.25	
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ELAPSED TIME IN MINUTES

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HAME Cape Coral

DATE 3-28-83

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UCATION______ JOB NO.____ OR 737_____

Meas. Po	<u>pint 2.5ft. abov</u>	<u>ve LSD To</u>	op of cap	·	
TIME OF DAY	ELAPSED TIME	WATER LEVEL ABOVEMS PT	DRAWDOWN IN FEET	RECOVERY	REMARKS
	S.W.L.		Static WL +14.	64	
0828	0	+14.64			······································
	0.25	11.15	3.49		·····
	0.50	10.42	4.22		<u> </u>
	0,75	9,85	4.79		· · · · · · · · · · · · · · · · · · ·
	1.00	9.58	5.06		f
	1.50	8.78	5.86	· · · · · · · · · · · · · · · · ·	·····
	2.00	8.28	6,36		
	2.5	7.87	6,77	- †	······································
	3.00	1.52	7,12		
	3.50	7.23	.7.41		
	4.00	6.98	7.66		
	4.50	6.75	7.89		
د د د د د د د د د د ز	5.00	6.55	8.09		·····
⁻ ,	6.00	L 6.20		· · · · · · · · · · · · · · · · · · ·	
	7.00		8.44	· · · · · · · · · · · · · · · · · · ·	
	8.00	5.82	8.82		
	9.00	5.58	9.06		
·•·;		5.33	9.31	· · · · · · · · · · · · · · · · · · ·	
<u> </u>	10.00	5.12	9.52		
<u></u>	12.00	4.75	9.89		
r		4.43	10.21		
	16.00	4.13	10.51		<u> </u>
<u>i</u>	18.00	3.83	10.81	<u> </u>	
	20.00	3.59	11.05		
	22.00	3.38	11.26	•	
	24.00	3.18	11.46		
	26.00	2.99	11.65	L	
·····	28.00	2.83	11.81	· · · · · · · · · · · · · · · · · · ·	
	30.00	2.67	11.97	· · ·	
	33.00	2.42	12.22	<u> </u>	;
	36.00	2.18	12.46		
	40.00	<u>1.93</u> i	12.71	<u> </u>	
	¥ <u>45.00</u>	1.63	13.01	·	
	$\frac{1}{2}$ 50.00	1.38 (13.26	· · · · · · · · · · · · · · · · · · ·	
		1.13	13.51		
1000	60.00	0.93	13.71	1	
1005	65.00	0.72	13.92	!	
1010	70.00	0.55	14.09		
1020	80.00	0.23	14.41	1	· · · · · · · · · · · · · · · · · · ·
1030	90.00	-0.06	14.58		r
1040	100.00	-0.31	14.89		
1100	120.00	-0.73	15.47		
1120 :	140.00	-1.07	15.71		
1141 j	161.00	-1.37	16.01		
1201	180.00	-1.60	16.24		
1221	204.00	-1.80	16.44		
52 ;	232.00	-2.04	16.68	······································	
1321	261.00	-2.24	16.88	· · · · · · · · · · · · · · · · · · ·	
1351	391,00	-2.48	17.12		
1421	321.00	-2.64	17.28		
1451 7	351.00	-2.78			
le de la deserva de la companya de l		<u> </u>			

AQUIFER TEST

DRAWDOWN DATE 3-28-83

IAME Cape Coral

CONTION_____

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WELL NO. 9A JOB NO. OR 737

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1531 1611		ABOVENS PT	IN FEET		REMARKS
1611	S.W.L.	· • · · · · · · · · · · · · · · · · · ·	Static +14.64		<u></u>
1611	391.00	-2.93	17,57		
	431.00	-3.08	17.72	· · ·	· · ·
1651	471.00	-3.28	17.92		
1741	521.00	-3.43	18,07	· · · · ·	
1844	584.00	-3.61	18.25		
1942	642.00	-3.75	18,39		
2043	703.00	-3.92	18,56		
2142	762.00	-4.06	18,70		
2241	821	-4.17	18,81		İ
3-29-83					<u> </u>
0002	902,00	-4.32	18,96		
0146	1006.00	-4.45	19,09		
0323	1103.00	-4,56	19.20	· · · · · · · · · · · · · · · · · · ·	
0502	1202.00	-4.64	19.28		
0642	1302.00	-4.76	19.40		<u></u>
0821	1401.00	-4.86	19.50		
1002	1502	-4.98	19.62		
1322	1702.00	-5.13	19.77		
1645	1905.00	-5.18	19.82	•	
203	2103.00	-5.29	19.93		
-30-83 1					
0210	2470.00	-5.49	20.13	· · · · · · · · · · · · · · · · · · ·	
0603	2703.00	-5.52	20.16		
1101	3001.00	-5.64	20.28	· · · · · · · · · · · · · · · · · · ·	
1743	3403.00	-5.64	20.28		
3-31-83					
0842	4302.00	-5.80	20.44		
1702	4802.00	<u>-5.96</u>	20.60		<u> </u>
4-1-83		<u> </u>			
0303	5403.00	-6.14	20.78		
	<u>≻ 6003.00</u>	-6.27	20.91		
2303	<u>ਝ</u>	-6.33	20.97		
4-2-83	ā	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
0702	1402.00	-6.37	21.01		-,
2103	7923.00	-6.44	21.08	ا ــــــــــــــــــــــــــــــــــــ	
4-3-83	0005.00				· · · · · · · · · · · · · · · · · · ·
0825	8605,00	-6.55	21.9	··-··	
2102	9362.00	-6.63	21.27		· · · · · · · · · · · · · · · · · · ·
4-4-83	10 092 00	C 70		·	<u> </u>
0902	10,082.00	-6.70	21.34		
2102	10,802.00		21.41	·	
4-5-83	11 500 00				
0902	11,522.00	-6.81	21.45 :	· · · · · · · · · · · · · · · · · · ·	
2102	12,242.00	-7.03	21.67	<u>}</u>	
6-83	12 062 00		01.00		
02	12,962.00	-7.05	21,69		
4-7-83	13,682.00	-7.09	21.73	·····	
	14 225 06				
0755 0900	<u>14,335.00</u> 14,400.00	-7.11	21.75	<u></u>	

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LAKNE WESTERN COMPANY I NO

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AQUIFER TEST RECOVERY

AME Cape Coral

LOCATION

DATE 4-7,8-83

WELL NO. 9A JOB NO. OR 737

Meas. Po	int 2.5 ft. abo	<u>ve LSD Top of</u>	cap		
TIME OF DAY	ELAPSED TIME IN MINUTES	WATER LEVEL ABOVEMS PT	DRAWDOWN IN FEET	RECOVERY IN FEET	REMARKS
	S.W.L,			PWL -7.13	
0755		-7,11	· · · · · · · · · · · · · · · · · · ·		
0900		-7.13			·
0905	Pump Off				
1	.24	-2.00		5 13	
	1.59	at tube top=	+0.10*	7.23	
	3.00	+0.99		8.12	
<u>_</u>	3.50	1.29		8.42	
	4.00	1.51		8.64	
	4.50	1.75	<u>.</u>	8.88	
	5.00	1.97	·	9.10	
44	5.50	2.16 2.36		9.29	
•	7.00			9.49	· · · · ·
·	8.00	2.68	······	9_81	
	9.00	3.25	<u> </u>	10.14	
	10.00	3.49			
	12.00	3.90			
	14.00	4.26	······································	11.03	
	16.00	4.57	·····	11.70	······································
	18.00	4.85	······································	11.98	
	20.00	5.09		12.22	
• • • • • • • •	1 22.00	5.32		12.45	
	24.00	5.53	·······	12.66	
· · · · · · · · · · · · · · · · · · ·	26.00	5.72		12.85	
	28.00	5.90		13.03	
<u></u>	30.00	6.05		13.18	
	33.00	6.29		13.42	
1	36.00	6.50		13:63	
<u> </u>	40.00	6.75		13.88	
1	45.00	7.04	· · · · · · · · · · · · · · · · · · ·	14.17	
- i	<u>50.00</u>	7.31		14.44	······
	₹ 55.00	7.54		14.67	
ş 	<u>5 60.00</u> <u>+ 65.00</u>	7,74 '	• <u></u>	14.87	
	70.00	7.94		15.07	
	80.00	<u>8.12</u> 8.43		15.25	/
	90.00	8.69		15.56	
	100.00	8.93		15.82	·····
[*] [*]	120.00	9.34	··· -		
·····	140.00	9.67		16.47	
· · ···· · · · · · · · · · · · · ·	160.00	9,94	<u> </u>		
	180.00	10.16		<u>1 17.07</u>	
· · · · · · · · · · · · · · · · · · ·	202.00	10.39		17.29	<u> </u>
<u>i</u>	232.00	10.64			
327	262.00	10.87	· · · · · ·	17.77	····-
57	292.00 -	11.07			
4 26	321.00	11.24	· , · · · · · · · · · · · · · · ·	18.20	
457	352.00	11.38	· · · · ·	<u>18.37</u> 18.51	
537	392.00	11,55		18.68	
517 .	432.00	11.70		<u></u>	· ·

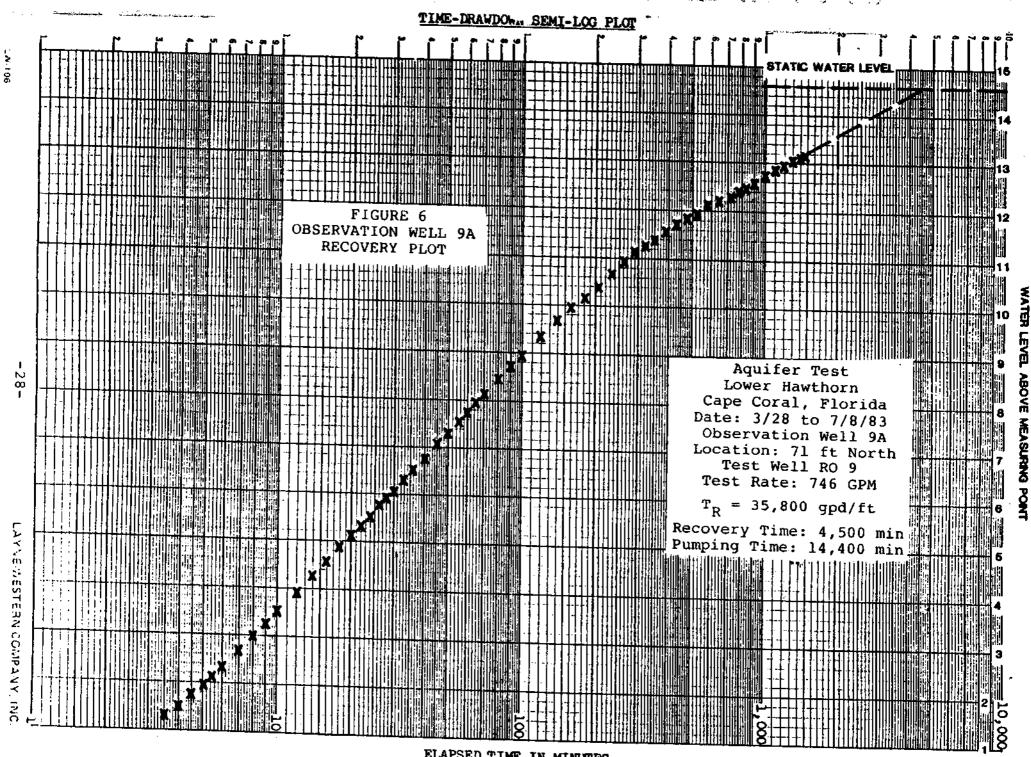
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:	DUIFER TEST RECOVERY	•	
NAME Cape Coral	OAT	E 4-7,8,-83	· · · · · · · · · · · · · · · · · · ·
LOCATION	WELL NO. 92	A JOB NO.	OR 737

TIME OF DAY	ELAPSED TIME IN MINUTES	WATER LEVEL ABOVEMS PT	DRAWDOWN IN FEET	RECOVERY IN FEET	REMARKS
	S.W.L.			PWL -7.13	
1657	472.00	11.82	· ····	18.95	
1747	522.00	11.92		19.05	
1846	581.00	12.08		19.03	
1950	645.00	12.16		19 29	
2048	703.00	12.27		19.40	·····
2148	763.00	12.37			
2248	823,00	12.45		19.50	
4-8-83				19_50	
0007	902.00	12.57			
0147	1002.00	12.73		19 70	······································
0327	1102.00	12.86		19.86	· · · · · · · · · · · · · · · · · · ·
0507	1202.00	12.96		19.99	
0646	1301.00	13.02		20.09	
0827	1402.00	13.11	<u> </u>	20.15	
0909	1444.00	13.16		20.24	
	1444.00	1 13.10	······	20.29	
		<u></u>			
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} 		<u> </u>		!	
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ELAPSED TIME IN MINUTES

	pe Coral		UFER TEST	3-28-83	
		· · · · ·	WELL NO. 98		OR 737 '
Meas. Po	oint 1.9 ft. abo	ve LSD	Forme	r top of cap	
TIME OF DAY	ELAPSED TIME	WATER LEVEL FROM MS PT	DRAWDOWN	RECOVERY	REMARKS
il	S.W.L.	10 100 10 F1	IN FEET		<u> </u>
0800	0	+14.90			<u> </u>
0858	0	14.88			· · · · · · · · · · · · · · · · · · ·
	15 Sec.	14.87	0.01	- · · · · · · · · · · · · · · · · · · 	<u>+</u>
		14,87	0.03		
	45 Sec.	14,83	0.05		<u> </u>
	1.0	14.80	0.08		<u>+</u>
	1.5	14.76	0.12	···	†. •
	2.0	14.70	0.18		j
	2.5	14.65	0.23		<u> </u>
	3.0	14.59	0.29		<u> </u>
	3,5	14.55	0.33	· · · · · · · · · · · · · · · · · · ·	<u> </u>
,	4.0	14.50		· † ··	· · · · · · · · · · · · · · · · · · ·
	4.5	14.45	0.43		
<u>ز</u>	5.0	14.40	0.48	· · · · · · · · · · · · · · · · · · ·	·
	6.0	14.32	0.56		
`	7.0	14.25	_0.63		
	8.0	14.18	0.70		
	9.07	14.12	0.76		
}	10.0	14.07	0.81		
·	12.0	13.97	0.91		
	: 14.0	13.88	1.00		
	1 16.0	13.80	1.08		
	18.0	13.73	1.15		· · · · · · · · · · · · · · · · · · ·
	20.0	13.67	1.21		
	22.0	13.60	1.28		
		13.54	1.34		
· <u> </u>	26.0	13.49 1	1.39		
	38.0	13.44	1.44		
<u> </u>	30.0	13.39	1.49	<u></u>	
	33.0	13.32	1.56	i 	
	<u> }36.0</u>	13.26	1.62	ļ	
1	40.0	13.18	1.70	ļ ļ	· · · · ·
j 	40.0 45.0 1 50.0	13.08	1.80	ļ <u> </u>	······································
·	± 50.0 55.0	13.00	1.88	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·	60.0	12.93	1.95	/	
·		12.85	2.03	<u> </u>	· · · · · · · · · · · · · · · · · · ·
·	<u>65.0</u> 70.0	12.79	2.09	-	
. <u></u>	80.0	12.72	2.16		
·	90.0	12.50	2.27		
·	100.0	12.50	2.38	1	
	120.0	$\frac{12.41}{12.25}$	2.47 2.63	! 	
1124	144.0	$\frac{12.25}{12.08}$	2.63		
1143	163.0				
1202	182.0	11.96	2.92		•
?22	202.0	<u>11.86</u> 11.78	3.02		
1253	233.0		3.10		
1322	262.0	<u>11.67</u> 11.57	3.21	.	<u></u>
1353	293.0		3.31	.	
1423	323_0	11.49	3,39		
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LAKNE WESTERN COMPANY I NG

		AQU	HFER TES	s'	r ay	⊊ + \/L y
j.			RAWDOWN	•	•	
NAME	Cape Coral	*.		OATE	3-28,29,30-8	3
-		· .	<u>. </u>	<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·
LOCATION _	·	N	VELL NO.	9B	JOB NO.	<u>OR_737</u>
-	· · · · · · · · · · · · · · · · · · ·	1				
					·	
TIMEO	ELAPSED TIME	WATER LEVEL	DRAW	COWN	RECOVERY	REMARKS
DAY	IN MINUTES	FROM MS PT		TEET		- warney
1 1	S.W.L.			+14.90	<u> </u>	
1453	353.0	11.35	3.53			
1533	393.0	11.27	3.61		<u> </u>	- · · · · · · · · · · · · · · · · · · ·
1613	433.0	11.20	3.68		<u> </u>	
1653	463.0	11.12	3.76			
1743	523.0	11.04	3.84			
1847	587.0	10.94	3.96			
1944	644.0	10.84	4.06			
2045	705.0	10.74	4.16			
2144	764.0	10.66	4.24	·····		
2243	823.0	10.59	4.31			
3-29-8						
0005	1 905.0	10.49	4.41			
0148	1008.0	10.42	4.48		· · · · · · · · · · · · · · · · · · ·	
0326	1106.0	10.38	4.52		4	
0506	1206.0	10.33	4.57			
0644	1304.0	10.26	4.64			
0824	1404.0	10.20	4.70			ļ
1-04	1504.0	10.13	4.77	 		
1324	1704.0	10.07	4.83			<u> </u>
1649	1909.0	10.07	4.83			<u> </u>
2006	2106.0	9.98	4.92			<u> </u>
3-30-8						<u></u>
0604	2475.0	9.86	5.04			<u> </u>
1104	3004.0	9.86	5,04			<u> </u>
1745		9.82	5.08	·		1
3-31-8	3405.0	<u>9.89</u>	5.01			<u> </u>
0026	3806.0	9.79	5.11			<u> </u>
0845	4305.0	9.82	5.08	<u> </u>		· · ·
1704	4804.0	9.74	5.16			· · · · · · · · · · · · · · · · · · ·
4-1-83	· · · · · · · · · · · · · · · · · · ·	2.77	10	- ·· - · - · - · - · - · - · - · - · -	· · · · · · · · · · · · · · · · · · ·	<u></u>
0305	5405.0	9.57	5.33			<u>L</u>
1305		9.49	5.41		·	<u> </u>
2306	<u>3 6005.0</u> <u>4 6606.0</u>	9.47	5.43			
4-2-83				<u>.</u>		
0904	7204.0	9.47	5.43			
2105	7925.0	9.42	5.48			
4-3-83	<u> </u>	74	<u> </u>			
0835	8615.0	9.33	5.57	1		
2104	9364.0	9.27	5.63	1		
4-4-83				<u>i</u>		, <u>, , , , , , , , , , , , , , , , </u>
0906	10,086.0	9.21	5.69	r		
2106 4-5-83	10,806.0	9.19	5.71		÷	
4-5-83	· · · · · · · · · · · · · · · · · · ·			: :	1	
0904	11,524.0	9.17	5,73			
105	12,245,0	9.13	5.77	,		
<u>105</u> 4-6-83					· · · · · · · · · · · · · · · · · · ·	
0905	12,965.0	9,11	5.79			
2104	13,684	9.09	5.81			
L	k.					

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LAYNE WESTERN DOMPANY (ND)

Page S OF S

AQUIFER TEST DRAWDOWN

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LOCATION

<u>pe_Coral</u>

WELL NO. 9B JOB NO. OR 737

_____ OATE <u>3-30 thru 4-7-83</u>

TIME OF DAY	ELAPSED TIME IN MINUTES	WATER LEVEL From MS PT	DRAWDOWN IN FEET	RECOVERY	REMARK
1	S.W.L.		Static +14.90	1	
4-7-83					Ţ
0758	14,338	9.08	5.82		ļ
0900	14,400	9.08	5.82		
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<u> </u>					
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	l <u> </u>				
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			<u> </u>		
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AQUIFER TEST RECOVERY - - - - -

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NAME	Cape Coral	RE	COVERY	4-7-83	
LOCATION	i	14			
			ELL NO. 9B		
Meas.	Point 1.9 ft above	LSD Form	er top of cap	Kreidt ~	HNTB
TIME OF DAY	ELAPSED TIME	WATER LEVEL	DRANDOWN	RECOVERY	REMARKS
		ABOVE MS PT	IN FEET	IN FEET	
0758	S.W L.			PWL +9.08	
0900	0	+9.08		<u> </u>	
0905	Pump Off .25	9.08		0	
	.50	9.09	· · · · · · · · · · · · · · · · · · ·	0.01	· · · · · · · · · · · · · · · · · · ·
	. 75	9.10		0.02	
	1.00	9.11		0.03	
	1.50	9.15		0.07	
	2.00	9.19		0.11	
···- •	2.50	9.21	······································	0.13	
	3.00	9.25		0.17	
· · · · · · · · · · · · · · · · · · ·	3.50	9.30		0.22	
	4.00	9.34	<u> </u>	0.26	
· · · · · · · · · · · · · · · · · · ·	5.00	9.38	<u> </u>	0,30	<u> </u>
	6.00	9.41		0.33	
	7.00	9.54		1	
	8.00	9.60		0.46	
	9.00	9.65		0.52	
	10.00	9.70		L 0.62	
·· <u> </u>	12.00	9.80		0.72	· · · · · · · · · · · · · · · · · · ·
	14.00	9.88		0.80	
	1 16.00	9.96		0.88	
	18.00	10.03		0.95	
	20.00	10.09		1.01	
	22.00	10.15 !		1.07	<u></u>
·	24.00	10.21		1.13	
	26.00	10.26		1.18	
<u> </u>	28.00	10.31		.1.23	
	30.00	10.36		1,28	
·····,·· · · · · · · · · · · · · · · ·	> 36.00	10.43 i		1,35	·
	$\frac{1}{1}$ $\frac{1}$	10.49 10.57		1.41	
	→ <u>45 00</u>	10.67		1.59	·····
	<u><u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u>	10.76	<u> </u>	1.68	
	55.00	10.84		1.76	
s 2	60.00	10.91		1.83	
	65.00	10.98	1	1,90	
	70.00	11.06	i	1,98	
	80.00	11.17		2.09	
	90.00	11.29	 	2.21 1	
·	100.00	11.39	. <u> </u>	2.31	
:	120.00	11.58	i	2.50	
· · · · · · · · · · · · · · · · · · ·	140.00	11.74		2.66	
· · · · · · · · · · · · · · · · · · ·	180.00	<u>11.88</u> 12.00		2.80	
<u> </u>	200.00	$\frac{12.00}{12.11}$		2.92	
1257	232.00	12.28		3.03	
1329	264.00	12.28		3.20	· · · · · · · · · · · · · · · · · · ·
1358	293.00	12.52		3.44	
1428	323.00	12.63	· · · · · · · · · · · · · · · · · · ·	3 55	

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LAYNE WEETERN JONPANK, NC

AQUIFER TEST

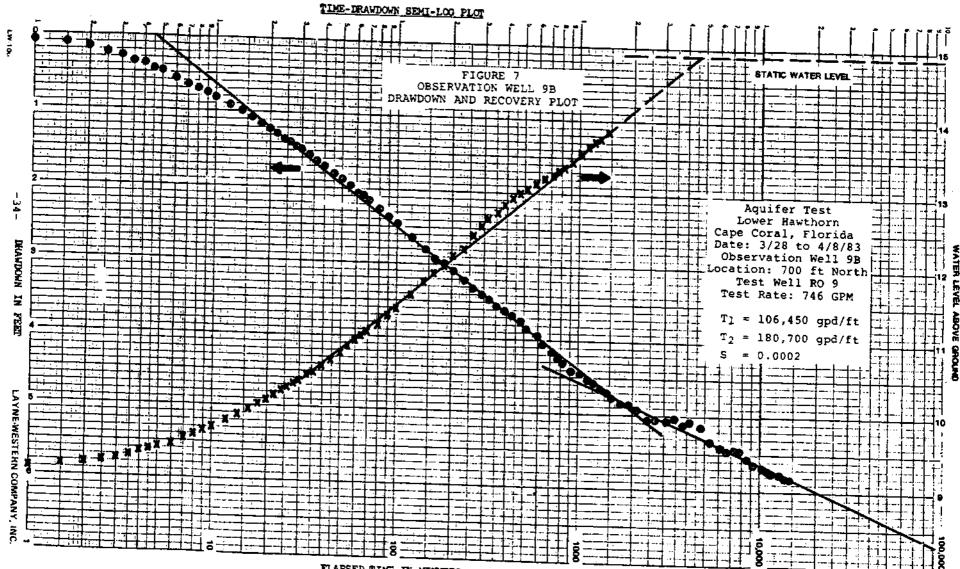
AME Cape Coral DATE 4-7-83

LOCATION ______ WELL NO. 9B JOB NO. OR 737

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TIME OF DAY	ELAPSED TIME IN MINUTES	WATER LEVEL ABOVEMS PT	DRAWDOWN IN FEET	RECOVERY	REMARKS
· · · · · · · · · · · · · · · · · · ·	S.W.L.			PWL +9.08	···· ·································
1459	354	12.71	···· ·· ··· ··· ··· ··· ·	3.63	
1539	394	12.82	· · · · · · · · · · · · · · · · · · ·	- 3.74	· · · · · · · · · · · · · · · · · · ·
1619	434	12.90		3.82	
1659	474	12.98		3.90	
1749	524	13.05		3.97	· · · ·
1848	583	13.13		4.05	
1955	650	13.20		4.03	··· ·
2051	706	13.24		4.12	··
2150	765	13.30			· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·	4.22	
2250	925	13.34	_	4.26	<u> </u>
4-8-83	0.54				<u></u>
0009	904	13.43		4.35	<u> </u>
0149	1004	13.54		4.46	<u></u>
0329	1104	13.64		4.56	
0509	1 1204	13.70		4.62	
0040	1303	13.74	- <u></u>	4.66	
0829	1404	13.80		4.72	
0915	1450	13.82		4.74	
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ELAPSED TIME IN MINUTES

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AQUIFER TEST DRAWDOWN

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IAME Cape Coral

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DATE 3-28-83

WELL NO. RO-8 JOB NO. OR 737

TIMEOF	ELAPSED TIME	WATER LEVEL	DRAWDOWN	RECOVERY	REMARKS
DAY	IN MINUTES	ABOVEMS PT	IN FEET	RECOVERI	1
		- ADUVERD ET	IN FEE1		Pumping Rate
	S.W.L.				
0813	0	16.21	<u> </u>		
	<u> </u>	16.21	0		·
		16.21	0		
		16.21	0	<u></u>	
+	18	16.21			
	20		01		
+	22		.01		
+	24	16.20			
	26	-16.20			
		16.19		·	<u></u>
	30	16.19			
	33	16.19			
<u> </u>	36	16.18	03		
	40	16.18			
	45	16.17	04		
		16.16	05		
	55	16.15			
	60	16.15	<u> </u>		
	65	16.14	.07		
	70	16.13	.08	<u> </u>	
· · ·	80	16.11	.10		
	90	16.11			
	100	16.10	. 11		
ł	120	16.08	.13		
	140	16.05	. 16		
	160	<u> 16.</u> 01	. 20		
	180	16.00			
	205	15.94	.27		
	236	15.92	29	-	
	260	15.94	.27	+	
· · · · ·	290	15.92		-	
	320	15.91		· · · · · · · · · · · · · · · · · · ·	
	350	15.88			
	390	15.87	. 34		
· · · ·	430	15.83	.38		······································
:	470	15.80		- • ·····-	j
1746	526	15.72	. 49	· · · · · · · · · · · · · · · · · · ·	<u></u>
1850	590	15.69	. 52		
1950	650	15.62		<u> </u>	· · · · · · · · · · · · · · · · · · ·
2051	711	15.56	.65		
2151	771	15,49	. 72		
2251	831	15.49	.78		
3-29-83	0.51	10,40		- <u>-</u>	
0013	913	15 30			
		15.38	.83	<u> </u>	$\frac{38k''}{28k''} = \frac{765g}{765g}$
0156	1016	15.33	. 88	+	385'' = 765q
)335	1115 .	15.28	.93		<u>385" = 765g</u>
0515	1215	15.25	.96		$38\frac{1}{3}" = 765g$
0652	1312	15.19	1.02		<u>385" = 765g</u>
0826	1406	15.16	1.05		

AQUIFER TEST DRAWDOWN

HAME Cape Coral

DATE 3-28,29,30-83

LOCATION

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1327 1651 2010 3-30-83 0218 0610	S.W.L. 1707 1911 2110	ABOVE 45 PT	IN FEET Static 16.21	t	
1651 2010 3-30-83 0218 0610	1707 1911			1.	
1651 2010 3-30-83 0218 0610	1911		ן א וב	T	
2010 3-30-83 0218 0610			<u>1.16</u> 1.17		<u> </u>
3-30-83 0218 0610	2110	15.04		·····	
0218 0610		14.97	1.24		<u> </u>
0610	0.420	1.00			
	2478	14.83	1.38	<u></u>	
	2710	14.83	1.38	· · · · · · ·	
1107	3007	14.79	1.42		
1750	3410	14.85	1.36		
3-31-83					
0850	4310	14.78	1.43		
1708	4808	14.69	1,52		
4-1-83					
+0308	5408	14.54	1.67		
1315	6015	14,46	1.75	· · · ·	••••••
2309	6609	14.44	1,77	1	
4-2-83					
0906	7206	14.44	1.77		
2107	7927	14.39	1.82		
4-3-83					
0840	8620	14.32	1.89		
2107	9367	14.26	1.95		
4-4-83		<u> </u>	1.95		
0928	10,108	14.21	2.00		
2110	10,810	14.19	2.00		
4-5-83	40,010	<u> </u>	2.02		· · · · · · · · · · · · · · · · · · ·
0915	11,535	14.19	2 02		
2108	12,248		2.02	·····	
4-6-83	12,240	14.18	2.03		
	10.067	14.20			
0907	12,967	14.18	2.03		
2108	13,688	14.17	2.04		
4-7-83	1.4. 227				
0757	14,337	14.18	2.03		· · · · · · · · ·
0900	14,400	14.18	2.03		
		<u> </u>			
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LAYNE WESTERN COMPANY, INC.

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AQUITER TEST

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AME <u>Cape Coral</u>

LOCATION

RECOVERY DATE 4-7-83

WELL NO. _____ JOB NO. _____ OR 737

TIME OF DAY	ELAPSED TIME	WATER LEVEL ABOVE MS PT	DRAWDOWN IN FEET	RECOVERY	REMARKS
	S.W.L.			PWL 14.16	· · · · ·
0900	0	14.18			
	1	14.18		0	
_	2	14.18		Q	
	4	14.18		0	}
	.6	14.18		0	
	8	14.18		0	
	10	14.18		0	ļ
	20	14.19		.01	
	22	14.19		-01-	
24	24	14.19			
	26	14.20		.02	
	28	14.20			
	30	14.20			
	33	14.21		.03	
	36	14,21			
	40	14.21			
	45	14.21			
	50	14.22		.04	
	55	14.23		.05	
	60	14.24		.06	
	65	14.24			
i	70	14.25		.07	
	80	14.26		.08	
	90	14.27		.09	
	100	14.28		.10	
	120	14.30		.12	
	140	14.33		.15	
	160	14.35		.17	
	180	14.39		.21	
	202	14.41		.23	
<u>1259</u>	234	14.46		.28	
1331	266	14.51			
1401	296	14.55	· · · · · · · · · · · · · · · · · · ·		
1431	326	14.58	- · · · - · ·	.40	
1502	357	14.62		.44	
1541	396	14.66		.48	· · · · · · · · · · · · · · · · · · ·
1622	437	14.68		50	
1701	476	14.72	· · ·_	54	
1751	526	14.74		56	
1851	586	14.76		.58	
2000	655	14.77		.59	
2054	709	14.76	····	.58	
2153	768	14.80			
2253	828	14.83		.65	
4-8-83					
)13	908 -	14.88			
u 152	1007	14.97			
0332	1107	15.03			<u>-</u>
0512	1207	15.08		.90	

0 واجه هود ات

LAYNE MESTERN COMPANY I NC.

AQUIFER TEST	
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RECOVERY

NAME Cape Coral DATE 4-7,8-83

VOCATION ______ WELL NO. _____ JOB NO. __OR 737

TIME OF	ELAPSED TIME	WATER LEVEL	DRAWDOWN	RECOVERY	REMARKS
DAY	IN MINUTES	ABOVE MS PT	IN FEET		
	S.W.L.			PWL 14,13	
4-8-83		1	· · · · · · ·		
0832	1407	15.17		.99	· · · ·
0925	1460	15.19	· · · · · · · · ·	1.01	
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		the second s	TIME-DRAWDOWN SEMI-LOG PLOT
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		90	STATIC WATER LEVEL
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DPAN			
DPANDOWN			
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FEED	2		
r ı			8
-95	x xoocxx		Aquifer Test
ŗ			Cape Coral, Florida Date: 3/28 to 4/8/83
AYVE			Well RO 8 Test Pumping Well RO 9
NE:			Average Test Rate: 746 GPM $T = 174,300 \text{ gpd/ft}$
VESTERN			S = .0011
N CO	3		
COMPANY, INC.			Average Test Rate: 746 GPM T = 174,300 gpd/ft S = .0011 FIGURE 8 - WELL RO 8 DRAWDOWN AND RECOVERY PLOT 8 ELAPSED TIME IN MINIPES
۷Y, I			DRAWDOWN AND RECOVERY PLOT
0.5	5	18	
		•	ELAPSED TIME IN MINIPPS

ELAPSED TIME IN MINUTES

WATER LEVEL ABOVE GROUND

			IFER TEST		-
	ane Coral		AWDOWN		
		·	DATE	3-28-83	<u> </u>
	ackground wells			100.00	
TOCATION RC	0-1,2,4 and 6 pur	nping V	NELL NO. <u>RO-7</u>		<u>DR 737</u>
Mea	as. Point 2.3 ft	. above LSD	Top plate o	f_well	
TIMEOF	ELAPSED TIME	WATER LEVEL	DRAWDOWN	RECOVERY	REMARKS
DAY	IN MINUTES	ABOVE MS PT	IN FEET	i deconunit	
·	S.W.L.		Static 15.71		
1 0010					
0819	0	15.71	0		
0900	<u> </u>	15.71	0		
	30 sec	15.71	<u> </u>		
· · · · · · · · · · · · · · · · · · ·	45 sec	15.71	0		
	1.0	15.71	0		
· · •	1.5	15.71	0		
	2.0	15.71	0		
_ [2.5	15.71	0		
	3.0	15.71	0		
·	3.5	15.71	<u> </u>		
ļ	4.0	15.71	0		
*	5.0	15.71	<u> </u>		
	6.0	15.71	0		
1	7.0	15.71			
	8.0	15.71			
	9.0	15.71	0		
	10.0	15.71	0	1 1	
	12.0	15.71	0		
	1 14.0	15.71	0		· - ·
<u>]</u>	16.0	15.71	0		•
······································	18.0	15,71	0	<u> </u>	
	20.0	15.71	0		
	22.0	15.71	0	- <u> </u>	
Å	24.0	15.71	0	+ · · · · · · · · · · · · · · · · · · ·	
	26.0	15.71	0	; !	<u></u>
· · · · · · · · · · · · · · · · · · ·	28.0	15.71	0		··· =
1	30.0	15.70		· · · · · · · · · · · · · · · · · · · ·	
}	33.0		.01	÷	
····		15.70	0		
}	36.0	15.70	0	- <u> </u>	•
}	40.0	15.70	. 0 .	+	
	45.0	15.70	0		<u> </u>
	50.0	15,70		╪╾━━┅┊╸───┊╴	
1000	55.0	15.70	0	· · · · · · · · · · · · · · · · · · ·	
1000	50.0	15.69	.02	<u>.</u>	
	65.0	15.69	0		•• · · ·
}	70.0	15.69		·	·····
·	80.0	15.68	.03	· · · · · · · · · · · · · · · · · · ·	
	90.0	15.68	0	<u> </u>	
	100.0	15.67			
1100	120.0	15.66	.05	i <u>i</u>	
	140.0	15.64	.07	1	
	160.0	15.63	.08		
	180.0	15.62		1	
	206.0	15.61	.10	i	
···· · · ··	239.0	15.61	0	†	
<u> </u>	260.0	15.60	. 11		
t <u></u>	290.0	15.59	. 12	.	
-	320.0	15.58		<u></u>	
	350.0	15.57			· · · ·
<u> </u>	390.0		1		······
L	<u> </u>	15.56	<u>_</u>		

raye 4 UL 4

AQUIFER TEST DRAWDOWN

NAME Cape Coral

DATE 3-28,29,30-83

LOCATION ________ WELL NO. _____ JOB NO. __OR 737

TIME OF DAY	ELAPSED TIME IN MINUTES	WATER LEVEL ABOVE MS PT	DRAWDOWN IN FEET	RECOVERY	REMARKS
	S.W.L.				
	430	15.55	. 16	· · · · · · · · · · · · · · · · · · ·	+
<u></u>	470	15.53	. 18	···	· · · · · · · · · · · · · · · · · · ·
1749	529	15.50	. 21		+
1853	593	15.45	. 26		
1947	647	15.39	. 32		<u> </u>
2049	709	15.34	.37		· · ·
2148	768	15.19	. 42		····
2247	847	15.23			
3-29-83					
0009	909	15.17			
0154	1014	15.13	54		· · · · · · · · · · · · · · · · · · ·
0330	1110	15.12	.58		
+ 0511	1211				
0648	1308	15.09	.62		
0828		15.04	.67		
1008	1408	14.99	.72	···· f	
1330	1508	14.93			
	1710	14.89	. 82	· · · · · · · · · · · · · · · · · · ·	
1655	1915	14.88	.83		· · · · · · · · · · · · · · · · · · ·
2014	2114	14.82	. 89		
3-30-83		· · · · · · · · · · · · · · · · · · ·		_	- · ·
<u>)220</u>	2480	14.69	1.02		
0610	: 2710	14.69	1.02	<u> </u>	
1114	3014	14.66	1.05		
1752	3412	14.70	1_01		
3-31-83		<u>]</u>			
0035	3815	14.60	1.11		
0853	4313	14.62	1.09		
1710	4810	14.52	1.19		
4-1-83	1				
0311	1 5411	14.37]_ 34	1	
1324	6024	14.28	1.43		
2313	6613	14.26	45		
4-2-83	1	:			
0915	7215	14.25			
2111	7931	14.20	1.51	!	
4-3-82					
0845	8625	14.13	1,58		
2110	9370	14.06	1.65		· · · · · · · · · · · · · · · · · · ·
4-4-83				· · · · · · · · · · · · · · · · · · ·	
0936	10,116	14.02	1.69		·····
2112	10,812	14.00	1,71	•	
4-5-83	······································		<u> </u>	·i	
0926	11,546	13.99	1.72	*	
2112	12,252	13.98	1.73		
4-6-83		13.90		· · · · · · · · · · · · · · · · · · ·	
914	12,974	13.99	1 70	· · · · · · · · · · · · · · · · · · ·	
2 ± 1	13,691	13.99	<u>1.72</u> 1.74		
111		1 3 47	1 11	1	
2111			<u> </u>		
2111 4-7-83 0745		13.99	1.72	1	

Page 1 of 2

AQUIFER TEST RECOVERY

NAME Cape Coral

4-7-83 DATE

JOB NO. OR 737

ATION	
Meas.	Point
TIME OF DAY	ELAPS

WELL NO. RO-7

Meas.	Point 2.3ft a	above LSD	Top pl	ate of well	•
TIME OF DAY	ELAPSED TIME	WATER LEVEL ABOVE MS PT	DRAWDOWN IN FEET	RECOVERY	REMARKS
	S.W.L.			PWL 13.99	······································
0745	0	13.99		0	· ·· · · · · · · · · · · · · · · · ·
0900	0	13.99		0	
-0906	1	13.99		e	
	1.5	13.99		0	
l, market and the second se	2.0	13,99		0	
	2.5	13.99	· · · · · · · · · · · · · · · · · · ·	0	· · · · · · · · · · · · · · · · · · ·
	3.0	13.99		0	
	3.5	13,99		0	
	4.0	13.99		0	
	4.5	13.99		0	
	5.0	13.99		0	
·]	6.0	13.99	· · · ·	0	
	7.0	13.99		Ó Ó	
	8.0	13.99		j j	
	9.0	13.99		0	
0915	10.0	13.99		0	_
	12.0	13.99		0	
	14.0	13.99		0	
	16.0	13.99		0	
í [18,0	13.99		0	
	.20.0	13.99		0	
	22.0	13,99		0	
	24.0	13,99		0	
	26.0	13.99		0	
	28.0	13,99	· · ·	0	۰.
		13.99		0	
* 1	33.0	14.00		.01	
	36.0	14.00		:01	
	40.0	14.00		.01	
}	45.0	14.00		.01	
	50.0	14.00		.01	
1 	55.0	14.00		.01	
	60.0	14.01	<u> </u>	.02	
· · · · · · · · · · · · · · · · · · ·	65.0	14.01		.02	
	70.0	14.01	<u> </u>	.02	
	80.0	14.01		.02	
∽₽		14.02		03	
	100.0		<u> </u>	.03	
<u>] </u>	120.0	14.03	·		
· · · · ·	130.0	14.04		.05	
	140.0	14.05		.06	
·	160.0	14.05	-	.06	
	165.0	14.06		.07	· _ · _ · _ · · ·

_300

<u>1334</u>

1404

1433

1504

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1

180.0

205.0

<u>235.0</u>

269.0

299.0

<u>328.n</u>

359.0

14,07

14.08

14.11

14.14

14.17

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21 14

LARNE WESTERN TOWPANY, NO

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AQUIFER TEST

RECOVERY

NAME Cape Coral

_____ DATE _____4-7,8-83___

" "CATION _____

WELL NO. <u>RO-7</u> JOB NO. <u>OR 737</u>

TIME OF DAY	ELAPSED TIME	WATER LEVEL ABOVE MS PT	DRAWDOWN IN FEET	RECOVERY	REMARKS
	S.W.L.				
1544	399	14.24			1
1624	439	14.26		- 27	
.1704	479	14.27		- 28	
1753	528	14.29		30	
1853	5.88	14.31		32	
1957	6.52	14.31		32	
2057	712	14.31		32	
2156	771	14.33		34	
2256		14_35			
4-8-83					· · · · · · · · · · · · · · · · · · ·
0017	912	14.40		41	
0155	1010	14.47		48	
0335	1110	14.54		55	
0516	1211	14.58		59	
0654	1309	14.61	······	62	
0834	1409	14.65			
0930	1465	14.67		68	
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ME-DRAWDON JEMI-LOG PLOI STATIC WATER LEVEL 111 HIBHN: DRAWDOWN ¥¥ YXX Aquifer Test Cape Coral, Florida Date: 3/28 to 4/8/83 Well RO 7 Location: 4800 ft North Test Well RO 9 Test Rate: 746 GPM $T_1 = 166,900 \text{ gpd/ft}$ S = .00053 Recovery: 9,000 min Pumping: 14,400 min FIGURE 9 - WELL RO 7 DRAWDOWN AND RECOVERY PLOT ۱ğ '

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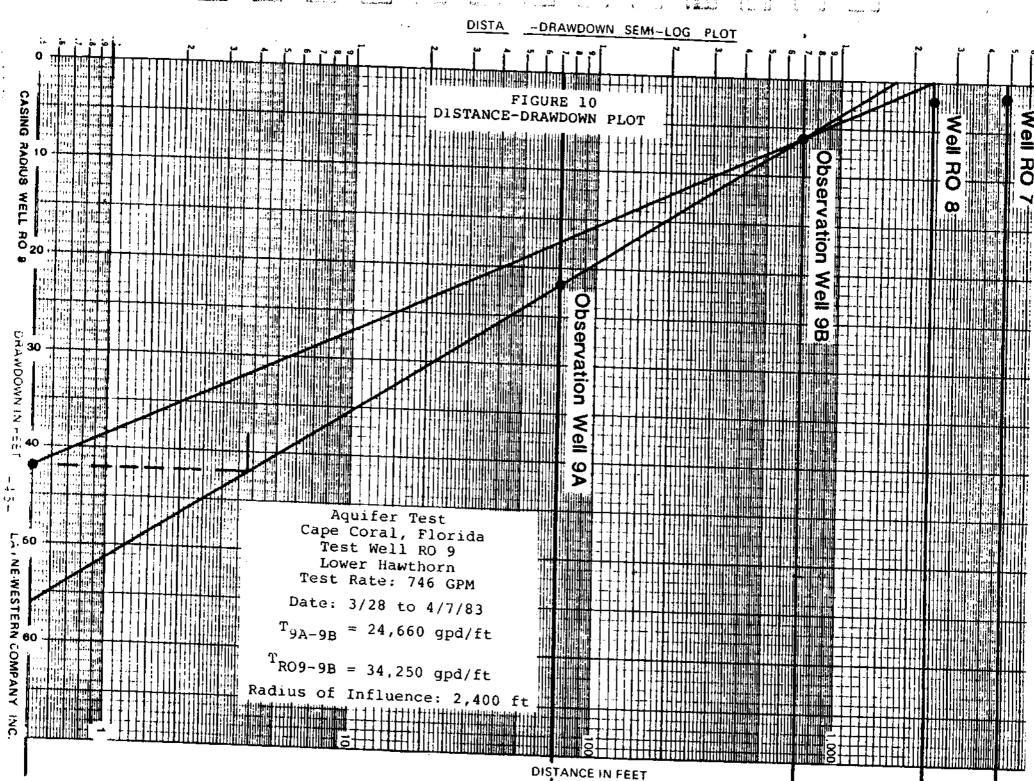
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ELAPSED TIME IN MINUTES

WATER LEVEL ABOVE MEASURING POINT



OSMOSIS PLANT. AQUIFERS: WT-Wate :able; LH-Lower Hawthorn; UH-Upper Hawthorn. All measurements in feet referred to-land surface datum.

U-1 UH 1960 18.94 17.77 15.85 15.15 14.32 13.83 13.14 13.41 13.72 U-2 UH 18.60 16.49 15.44 17.20 13.68 12.82 12.35 11.93 13.14 13.41 13.72 U-3 UH 13.51 12.57 11.94 11.14 10.69 9.99 9.65 9.21 7.00 8.44 L-501 UH 27.89 28.87 24.22 22.62 21.98 20.70 20.16 18.73 21.73 21.15 L-1119 UH 13.61 12.05 11.99 11.15 10.77 10.02 9.72 9.48 9.15 8.42 L-1119 UH 13.61 12.05 11.99 11.15 10.77 10.02 9.72 9.48 9.15 8.42 L-1119 UH 21.41 1.94 1.472 1.34 1.05 0.56 0.55 0.08 4.02 4.30 4.43 No-7 LN +13.65 +19.08 +14.75 14.78 <		1	T		_				TABLE	_5									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Well No.	Aquifer		2-15	2.18	2.22	2-25	3-1	4-3		7-6	2.0	7-4	2.10					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1-1136	WT	4.94		1 -								3-7	3-10		3-15		3-21	3-22 4.81
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.1	UH	1960	10 011	17.97				 										1.01
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1					<u> </u>	· · · · · · · · · · · · · · · · · · ·	 -	1		·····		 	13.41		13.22		13.72
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.3	UH									<u>}</u>	F			I				11.60
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		UH	27.89	2587	24.22	22.62	21.98		† — —	· · · · · · · · · · · · · · · · · · ·		1	 	 	1				8.44
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	I		13.61		11.99	11.15	10.79	10.02		1		{ ·	{					·	al. 80 8.49
\dot{No} -7 LH $+13.65$ $+9.08$ $+1.4.75$ $+19.89$ $+15.23$ 114.84 $+14.86$ $+15.04$ $+19.58$ $+14.16$ $+13.83$ $+14.27$ $+14.06$ $+17.58$ $+17.58$ $RO-8$ LH $+14.64$ $+17.65$ $+15.22$ $+15.62$ $+15.76$ $+16.18$ $+15.69$ $+15.20$ $+19.22$ $+19.20$ $+116.92$ $+19.20$ $+116.92$ $+17.58$ $+17.58$ $+17.59$ $+19.42$ $+19.22$ $+19.66$ $+17.58$ $+17.59$ $+19.20$ $+19.22$ $+19.66$ $+17.58$ $+19.20$ $+116.92$ $+17.58$ $+17.59$ $+19.20$ $+19.22$ $+19.20$ $+116.92$ $+19.20$ $+116.92$ $+19.20$ $+116.92$ $+19.20$ $+116.92$ $+19.20$ $+116.92$ $+19.20$ $+116.92$ $+116.92$ $+116.92$ $+17.58$ $+17.59$ $+13.22$ $+116.92$ $+17.92$ $+116.92$ $+17.92$ $+16.79$ $+13.52$ -17.48 $+18.79$ -17.48 $+18.79$ -17.48 $+18.79$ -17.48 $+18.79$ -17.48 $+18.79$ <th< td=""><td>26:14</td><td>UH</td><td>2.14</td><td>1.94</td><td>1.72</td><td>1.34</td><td>1.05</td><td>0.56</td><td> </td><td>0.55</td><td></td><td></td><td></td><td>· · · · · ·</td><td>I</td><td>+ .50</td><td></td><td></td><td>+.21</td></th<>	26:14	UH	2.14	1.94	1.72	1.34	1.05	0.56		0.55				· · · · · ·	I	+ .50			+.21
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6-7	LN	+13.65	+908	+14.04	1/4 75	114 00	115.12				 	 						
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>'0-9</u>	LH	+11.36	43.17	+13.84	+14.04	+14.16	114.22	+14.08	+14.14	+/4.43	+17.70	+13.20	+14.92	1				118.27
9t: L11 +11.84 +17.53 +13.29 +13.45 +13.55 +13.63 +13.27 173.59 +13.89 +13.16 +12.69 +12.88 +12.98 +12.98 +11.80 +14.67 + (-2454 LH -10.22 -461 -3.61 -3.66 -3.39 -3.72 -3.80 -4.92 -10.37 -7.90 -5.01 +.84 +1.96 -	22	LH	+ 12.76	+13.21	+13.89	+14.10	+14.17	+14.30						+12.96	t			4/6.79	1/7.15
						+13.45	+13.55	+15.63	+13.27	173.59	+13.89	+13.16	+12.69	+12.38	+12.98	+ 12.98	+11.80	+16.67	+16 78 +16 49
	2454	2.17	-10.22	-461	- 3.61	- 3.66	-3.39	-3.72		-3.80	- #.92					(1	+1.81
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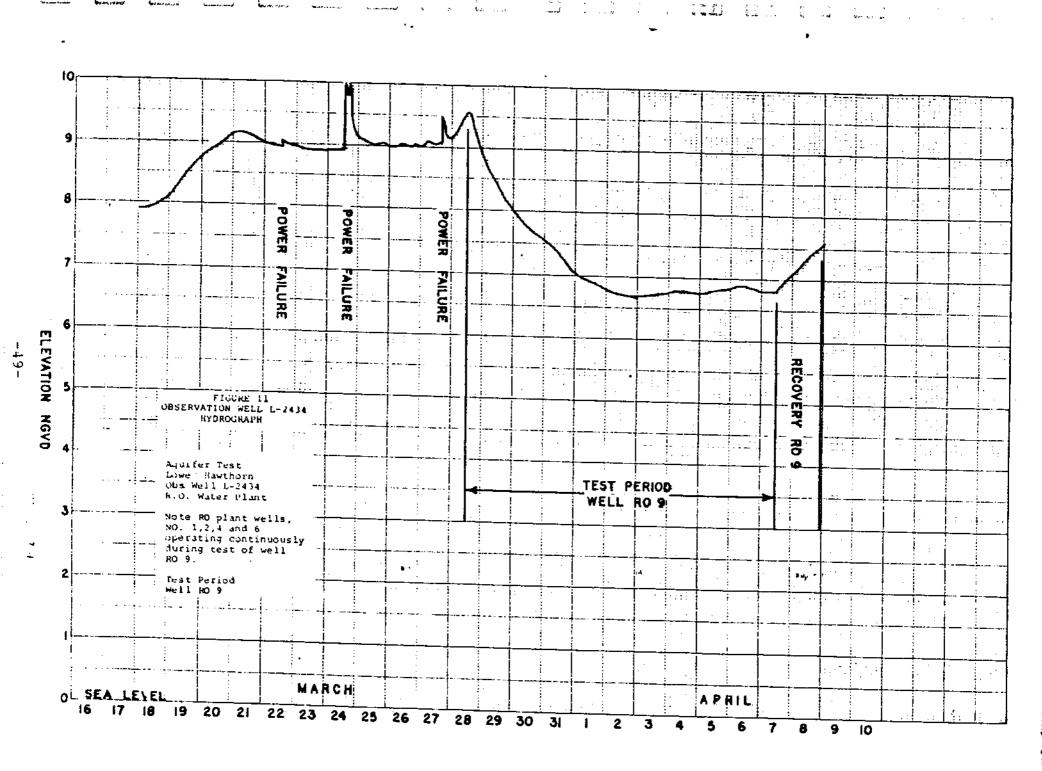
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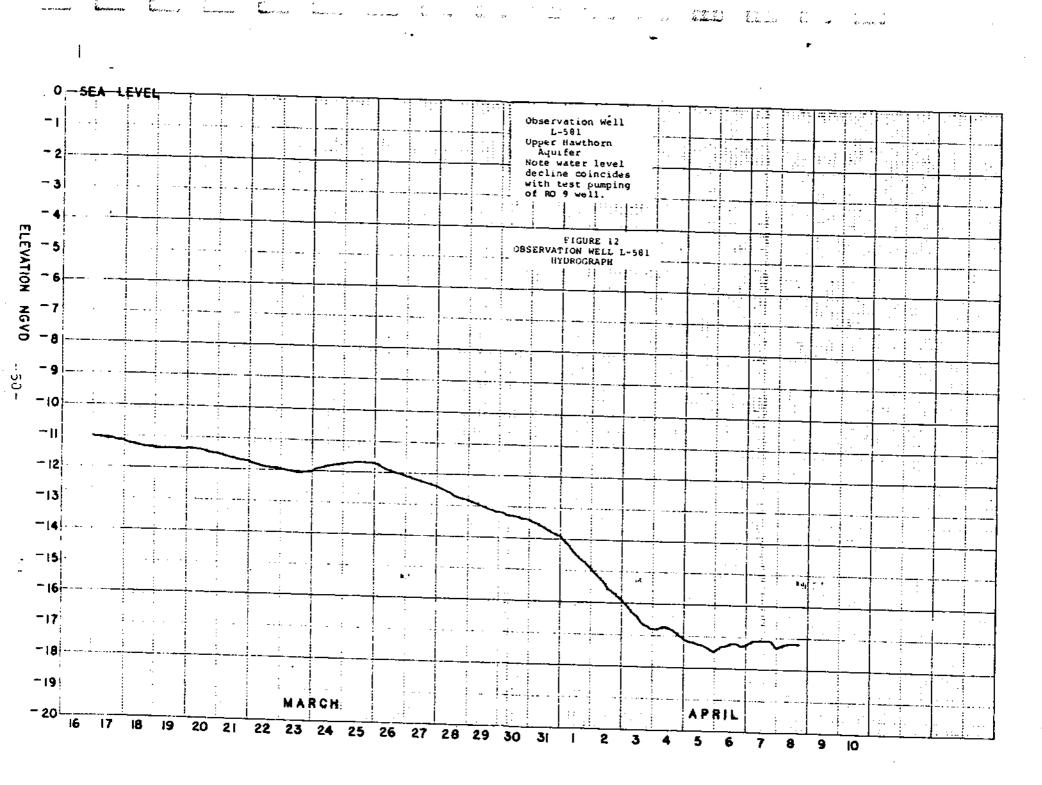
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SUMMARY AND CONCLUSIONS

A pumping test was run utilizing the southernmost well of the Cape Coral Reverse Osmosis plant, designated Well RO 9. These wells are flowing artesian wells with above ground static water levels.

The Cape Coral area overlies a geologic anticline as depicted by the upper surface of the lower Hawthorn aquifer shown in the geologic cross sections.

Two (2) attempts were made to start the long-term pumping test on Well RO 9 in both February and early March. Weather conditions interferred with the operation as well as failure to hold a constant pumping rate. Third start for the longterm pumping test was commenced on March 28, and continued with recovery measurements thru April 8, 1983.

The test well, RO 9, was pumped at an average rate of 746 gpm for 14,400 minutes. Recovery was then observed for 24 hours following pumping.

In analyzing the data, various values of transmissivity were derived. It has been found from experience that the early portion of the data more accurately reflect the true formation characteristics in the vicinity of the well. Long-term transmissivity values represent leakage to the aquifer system and boundary effects. It is therefore concluded that the value that best represents the transmissivity of the formation is 35,000 gpd/ft. The value that best represents the coefficient of storativity for the longterm test is 0.003. The higher values of transmissivity derived from the data indicates substantial leakage to the upper Hawthorn formation.

Leakage factor calculated that best represents the conditions in the vicinity of the well, was 0.0335 gpd/ft².

The observed specific capacity of the well was 17.8 3pd/ft. The calculated theoretical specific capacity was 17.7 gpm/ft for an apparent well efficiency of 99%.

Prepared by:

James O. Smith, Jr. Hydrologist

Reviewed by:

Carl E. Nuźmań, P.E. Hydrology Division Manager

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- CAYNE WESTERN COMPANY, INC.

APPENDIX I

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WELL COMPLETION REPORTS

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APPENDIX II

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SUMMARY OF TEST DATA FOR THE LOWER HAWTHORN AQUIFER AT CAPE CORAL

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SUMMARY OF TEST DATA FOR THE LOWER HAWTHORN AQUIFER AT CAPE CORAL

- 1. Map showing the number and location of wells at or near the Cape Coral RO Plant.
- Table 1 Description of wells at or near the Cape Coral RO Plant.
- 3. Table 2 Miscellaneous water level measurements from wells February 11 to April 8, 1983.
- 4. Table 3 Rainfall at the Cape Coral RO Plant for February, March, April 1983.
- 5. Test 3 Field data for drawdown in wells RO-7, 8, 9, 9A, and 9B for period March 28 to April 7, 1983.
- Test 3 Semi log plots of unadjusted field data for wells RO-7, 8, 9, 9A, and 9B (March 28 to April 7, 1983).
- 7. Test 3 Field data for recovery in wells RO-7, 8, 9, 9A, and 9B for April 7-8, 1983.
- Test 3 Semi log plots of unadjusted field data for wells RO-7, 8, 9, 9A, and 9B (April 7-8, 1983).
- 9. Test 1 Field data for drawdown in wells RO-7, 8, 9, 9A, and 9B on March 4, 1983.
- 10. Test 2 Field data for drawdown in wells RO-7, 8, 9, 9A, and 9B on March 11, 1983.
- 11. Automatic recorder charts
 - A. Stevens Type F charts for wells 9B (February 17 to April 8, 1983), RO-7 (February 18 to April 8, 1983), and L-2644 (February 10 to April 8, 1983).
 - B. Stevens Type A 35 continuous charts for wells L-581 (March 17 to April 8, 1983) and L-2434 (March 18 to April 8, 1983).
 - C. Foxboro pressure recorder charts for well 9A (February 8 to April 8, 1983).
- 12. Barometer records

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- A. Page Field FAA/FSS (February 9 to April 9, 1983).
- B. Federal Building Fort Myers NOAA (February 7 to April 8, 1983).

Durward H. Boggess, Hydrologist 4312 South Pacific Circle North Fort Myers, Florida 33903

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Mr. Vernon E. Lynch, P.E. Howard Needles Tammen & Bergendoff 1105 Cape Coral Parkway Cape Coral, Florida 33904

Dear Vernon,

514 201

Forwarded are the records and other information collected during the tests conducted on the lower Hawthorn aquifer in the vicinity of the Cape Coral RO Plant. A summary of the information is also included.

Three aquifer tests were begun in March 1983. The first two tests on March 4 and March 11, were discontinued after several hours because the pumping rate could not be maintained. The information on these tests, although of limited value is included. The third test using a lower pumping rate, began on March 28 and was continued until April 7. The test was successfully completed on April 8 with the collection of recovery data.

There were numerous problems prior to and during the tests, the most serious of which were related to the highly unusual weather patterns which resulted in about 19.5 inches of rain and strong gusty winds. This caused several delays in starting the test and posed a threat during the entire test period.

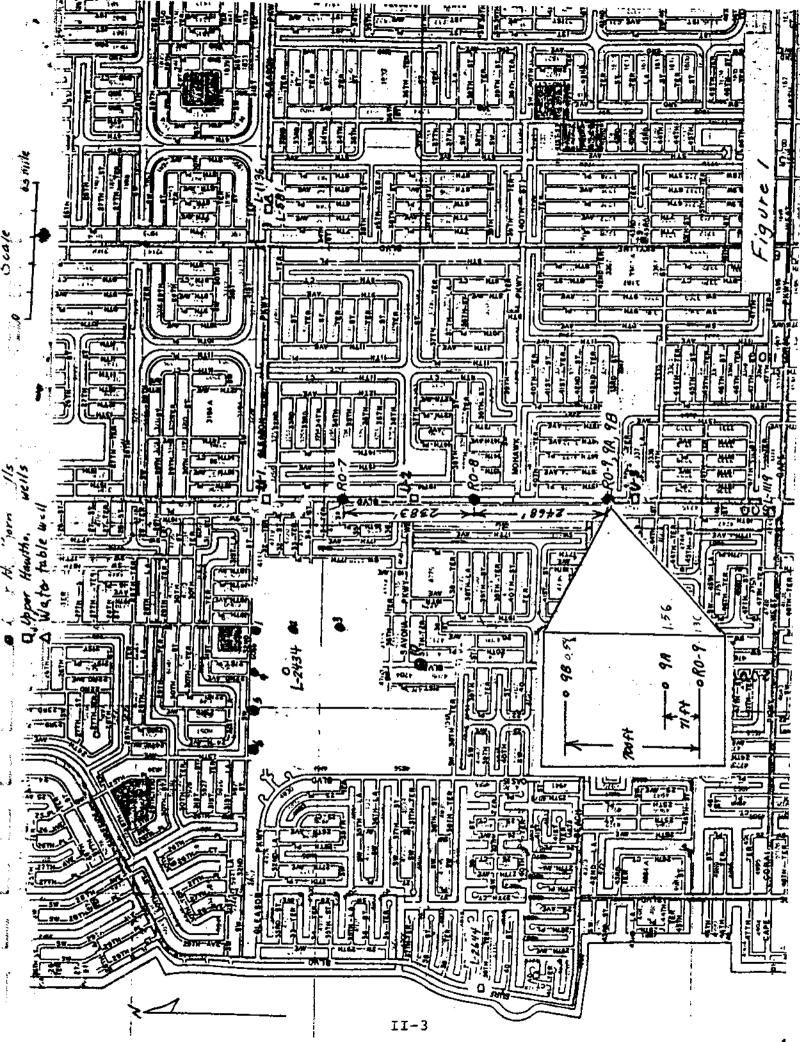
I greatly appreciate the support, assistance, and cooperation of all those who participated in the test.

Sincerely,

Durward H. Boggess

Enclosures

cc: Donald Kuyk



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AQUIFER TEST Drawdown

Well No.

Date 3-28-83 Location

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Cape Coral

Meas. Point 2.477 above 1s Top plate of well

Rumped Well

_RO-9

1						
	Clock Time	Elapsed Time(Min.)	Water level referred to MP	Water Level	Drawdown in Feet	Pumping Rate Meter reading
	0829	0	+14.64	+14.64	.0	02/298300
	0900 0901	Start 1.0	10 - 1.76	- 8.24	22.88	
		2.5	10 + .08	9.92	24.56	760 gpm
		3.0	10.45	10.45	25.09	1
	·	4.0	11.01	11.01	25.65	
*		5.0	.38	11.38	26.02	
		6.0	i1.70	11,70	26.34	
		1.25	12.29	12.29	26.93	
		8	12.53	12,53	27.17	
1		9	12.79	12,79	27.43	
		10	12.94	12.94	27.58	
			13.32	13,32	37.96	
		14	B.66	13.66	28.30	
		16	14.04	14.04	28.68	
_		18	14.37	14,31	29.01	
-		20	14.59	14.59	29.23	
		22	14.84	14.84	29.48	
.		24	15.02	15.02	. 29.66	、
		26	15,23	15.23	29.87	
		28	15.41	15.41	30.45	
		30	15,54	15,54	30.18	
_		33	16.01	110.01	30.65	
⊢		36	16.27	16,27	30.91	
6	4970	40	16-52	16,52	31.16	
			11-9 RO-	9	Test 3	1

Pumped Well

Well No. <u>RO-9</u>

Date <u>5-28-83</u> Location <u>Cape Coral</u>

Meas. Point

Clock Time	Elapsed Time(Min.)	· ·	Water Level	Drawdown in Feet	Pumpir Rate
0945	45	16.88		31.52	
	50	17.14		31.78	
	55	17.39	· · · · · · · · · · · · · · · · · · ·	32.03	
1000	60	17.62		32.26	2134450
	65	17.86	 	32,50	
	70	18.01		32.65	
	80	18.33		32.97	382-7650
	90	18.71		33.35	
	100	19.03		33.67	
	120	19.47		34.11	
	140	19.05		34.49	213922(
	1'20	20,12 :-		34.76	391/2 = 765 21434
محدر	180	20 39		35.03	381/2" = 765
-520	200	20.60		35.24	33 2 = 76:
1250	230	20.84		35.43	21712
1320	250	21.07		35,71	21495 3312 = 7657
1350	290	21.44		36.08	21517 3012 = 76503
1420	32.0	21.60		36.24	2,540 V 382 = 7657p
1450	350	Z1.76		36.40	21502 332" = 765 97
1530	390	21.73		36.57	2,592 345 = 765 jp
1610	430	22.06		36.70	2:628 381/" = 765 apm
1650	470	22.44		37.08	21653 381/2 = 765 71
17.40	520	= . 62		37.26	21690 38% = 76540
1241	591	32.82		37.46	

11-10 *R0-9*

Test 3

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Pumped Well Well No. <u>RO-9</u>

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Date	<i>3-28-8</i> 3 Locat <i>to 4-1-83</i>	tion <u>Cape C</u>	Coral	Meas. Poin	t
Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet Static H4.64	Pumpin Rate 2/2 9830
1940	640		22.96	: 37.60	
2000	660				21795900
2040	700		23.15	37.79	7949
2140	76.0		23.29	37.93	
2240	820		23.44	38.08	38 2" (765.
2400	900		23.60	38.24	
3 0140	1000		23.72	38.36	38 1/2 = 76
0320	1100		23.34	38.+3	39% =765
0500	. 1200		23.99	39.6z	3=11 . 765
<i>د4</i> ئ	1300		2000	35.73	38 2 " = 105 q.
0800	1380			· · · · · · · · · · · · · · · · · · ·	62233770
<i>c</i> 820	1400		24.18	38.82	
1000	1500		24.33	38.97	0224283
1320	1700		24,54	39.18	02257820
16.40	1900		24.62		382"- 75
2000	2100		24.74	39.38	· · · · · · · · · · · · · · · · · · ·
0205	2465		24.97	39.61	
0600	2700		25.01	39.65	
1100	3000	· · · · · · · · · · · · · · · · · · ·	25.11	39.75	23544100
1740	3400 :		25.15	39.79	(742 238 40 700
1020	3800		25.34	39.98	241 39800
0840	4300		25.35	39.99	24512200
1700	4800		25,55	40.19	2488200
0300	5400		25.72	40.36	2532560
		II-11 Re	0-9	Test 3	3

**** R0-9

Test 3

1.2

Date 4-1-83

to 4-7-83

Pumped Well RO-9 Well No.

Location Cape Coral

Meas. Point

Clock Elapsed Water Drawdown Pumping Time Time(Min.) Leve1 in Feet Rate Static + 14.64 1300 · · · · 6000 -25.84 40.48 257703**0**0 6600 2300 26219,000 40.58 25.94 4-2 0900 7200 25.95 40.59 26,667,700 1.6.2. 2100 7920 26.08 40.72 27,200,800 4-3 8610 0830 40.89 26,25 27716700 9360 2100 =40.93 26.29 28,276,800 0910 10,030 41.05 26.41 4 28,814,700 2100 10,800 26,51 29.348,200 41.15 0900 اح 11,520 26.53 41.17 29 879,300 ŝ Adjust Q 2100 12,240 27,07 41.71 38,419,400 3 0900 12,960 41.68 2-2 27.04 30.861100 2100 13,680 27,10 41.74 Bi 31,501,600 14,330 Ł 0750 27.16 = 41.80 14,400 0900 27,12 41.76 14,405 0905 32,045,900 ì 32,045,900 -21,298,300 14405=74690 Tast Poriod AVZ. Rate tor HGAM RO-9 Tost 3 4

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Pumped Well Rri-9

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	11.1 -+		0	\sim 1		Well No.	<u></u>
	<u>4-1-83</u> Loc 4-1-83	ation	L'ape 1	<u>(oral</u>		Meas. Poin	t
Clock Time	Elapsed Time(Min.)				ater evel	Drawdown in Feet Stafic +14.64	Pumping Rate
1300	6000			-2	5.04	\$40.48	25770 30
2300	6600				5,94	40,58	26,219,000
0900	7200			2	5.95	40.59	26,667,70
2100	7920			2	6.08	40.72	27,20080
0830	8É10	ļ	····	2	6,25	40.89	27.716.70
2100	9360		<u></u>	2	6.29	40.93	28,276,80
0910	10,030			2	6.41	41.05	28, 814,70
2100	10,000			26	6.51	41.15	29,348,200
0900	11,520		·	21	,.53	41,17	29 879 300
2100	12,240			2:	7,07	41.71	Adjust Ca 36,919,400
0900	12,960		<u> </u>	27	04	41.68	30 861 100
2100	13,680			27	1.10	41.74	31,501,60
0750	14,330			27	1.16	: 41.80	
0400	14,400		<u> </u>	27	1.12	41.76	
0905	14,405		<u> </u>				32,045,900
		32,04	5,900	- 2.1	1, 298	300/14	405-746
	· · · · · · · · · · · · · · · · · · ·	- 				/.	
	7469pm	Al'éjo	Rate	tor	Tes	<u>t Pirič</u>	<u>/</u>
			TT	12 0-9			

te	Time	Meter Reading	Difference	Time (m	in.)elapsed	Pompoing rate (gpn)
-2 <u>8-83</u>	3 0900	21, 298, 300	. 0	0		
	1000	21, 344, 500	46,200	60	60	770
	1200	21,434,000 -	81, 500	180	120	746
	1450	21, 562,000	128,000	350	170	753
≀ / ≹,	1740	21,690,000	128,000	520	170	156
3-29	0800	22, 337, 700	541,800	1380	720	752
· · · · · · · · · · · · · · · · · · ·	1000	22,428,300	90,600	1500	120	755
	1320	22,578,200	149,900	1700	200	750
3-30	1100	23,544,100	965, 900	3000	1300	743
3	1740	23,840 700	296,600	3440	400	742
3-31	0020	24, 139, 800	299, 100	3800	400	748
	0840	24,512,200	372,400	4300	500	745
	1700	24,882,000	369, 800	4800	500	740
-1	0300	25,325,600	443,600	5400	600	739
	1300	25,770,300	944,700	6000	600	741
	2300	26, 219,000	448,700	6600	600	748
<u>472</u>	0900	26,667,700	448,700	7200	600	748
	2100	27, 200, 800	533, 100	7920	720	740
43	0830	27,716,700	515, 900	8610	690	748
	2100	28, 276, 800	580, 100	9360	150	747
4-4	0900	28, 814, 700	537,900	10,080	720	747
د.	2100	29, 348, 200	533,500	10,800	720	791
4-5	0900	29, 879, 300	531,100	11,520	720	738
	2100	30,419,400	540,100	12,240	720	150
4-6	0900	30,961 ,100	54,700	12,960		152
:	2/00	31, 501 , 600	540,500	13,680	720	751
4-7	0905	32,045,900	544, 300	14,405	725	751

Recovery

Well No.

Date <u>4-7-83</u> Location <u>Ape Gral</u>

Meas. Point 2.457 above 150 Top plate of well.

RO-9

					iop praie er
Clock Time	Elapsed Time(Min.)		Water Level	Recovery Drawdown in Feet Pwl - 27.12	Pumping Rate
07.50		:	- 27.16	, 	
0900	0		- 27.12		
0905 5909	<i>o</i> 4-		+ 1,04	28.16	Pump of +
0910	ं उ		1.51	28,63	
	6		1.91	29.03	
	7		2,28	29.40	
	8		2,58	29.70	
	9		2.86	29.98	
0915	10		3.10	30.22	
	12		3.54	30.66	
	14		3,89	31.01	
	16		4.21	31.33	
	18		4.51	31.63	
0925	20		4.77	31,89	
	22	· · ·	4.99	32.11	
	24		5.21	32.33	
	26		5141	32.53	
	28		5.60	32.72	
0935	30		5.78	32,90	
	33		6.02	33.14	
*	_36		6.24	33.36	
6945	40		6.53	33.65	
	45		6.82	33.94	
	50		7.10	:4:2	

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Test 3 Rec

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Well No.

<u>RO-9</u>

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Date 4-7-83 Location Cape Coral

Meas. Point

Clock Time	Elapsed Time(Min.)	· · · · ·	Water Level	Recovery Drawdown in Feet RivL - 27.12	Pumping Rate
55	55		+ 7.33	3.4.45	
60	60		7.56	34.68	
65	65		1.77	34.89	
	70		7.96	35.08	
	80		8.27	35,39	
10:35	90		8.55	35.67	-
	100		8.81	35,93	_
1105	. 120		9.22	36.34	
	140		9.56	36.68	
	160		9.84	36.96	
1205	180		10.08	37.20	
	Ĩcc		10.28	37.40	
124	1.30		10.56	3	~
13:55	260		10.79	37.91	•
1355	290	·	10.99	38.11	
1425	32.0	· · ·	11.16	38.28	~
1455	350	·	11.31	38.43	
1535	3'70		11.48	38.60	
1615	430		11.63	38.75	
1355	470		11.76	38 83	
1:45	520		11.29	34.01	
18:45	.500		12.07	3916	
1945	640		12.12	39.24	
3245	1.6	· · · · · · · · · · · · · · · · · · ·	12.22	39.34	

11-15. RO-9

Test 3 Rice

Well No. <u>Ro-9</u>

Date 07-93 Location CARE CARAL

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Meas. Point _____

[······		
Clock Time	Elapsed Time(Min.)	Tape Reading Held - Wet	Water Level	<i>Lecovery</i> Drawdown in Feet <i>PWL</i> -27/2	Pumping Rate
2145	760		12.33	3845	
2245	820	· · ·	12.4-2	39.54	
(r= c5-53) -2005	900	· · · · · · · · · · · · · · · · · · ·	12.54	39.66	
01-5	1000		12.70	39.82	
0325	1100		12.83	39.95	
10505	1200		12.92	<i>fa</i> ,04	
0645	1300		12.99	40.11	
0325	1400		13.09	40.21	
0905	1440		13.13	40.25	
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1777 Mar 1					
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i	l	II-16 RO			0
		N0	-7	Test 31	ec 3

			Drawdo	a) m	Well No.	90
	Date - (GFk		tion <u>Cape Coral</u>		Meas. Point Top of cap	2.5 Antove 1
	Clock Time	Elapsed Time(Min.)	Nater level referred to MP	Water Level	Drawdown in Feet Staf:c.kll +14.64	Pumping Rate
	0828	0	+14.64		0	
•		<i>२ : ज</i>	+ 11.15 (How MIT)		3.49	
		: 5 0	+10.12		4.22	
		0.75	+ 9.95		4.73	_
		1.0	-+ 7.50		5.06	
		1.5	+ 3.73		5.36	
		2	+ 8.23		6 36	
		25	+ 7.9%		6.77	
		Ĵ.	+ 7.52		7.12	
		3.5	+ 7.23		7.41	
1		-	+ 6.9-3		7.39	

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+ 6 75

+ 6.55

+ : 20

+ 5.82

+ 5.58

+ 5.33

+ 5.12

+ 4.75

+ 4.13

+ 4:13

+__33

+ 3.54

+ 3.38

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Test 3

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9.31

9.52

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10.21

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Well No.

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Date 03-78-83 Location CHODITA PRIOR THE CONTIL Meas. Point

AQUIFER TEST

	Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet <i>Static +14.64</i>	Pumping Rate
¥		تترز	+3.1B'		11.40	· · · · · · · · · · · · · · · · · · ·
Ŧ			+2.97		11.65	
		<u>28</u>	+2.33		11.31	
		30	+ 2.67		11.97	
	;	57	+2.42'		12.22	
;	-	36	+2.18'		13.26	
		-10	+ 1.73'		12.71	
		45	+ 1.63		13.01	
		50	+ 1.38		13 24	
		55	+ 1.13		13.5	
	1000	60	+0.73		13.71	· ·
	1005		4 3.72		13.72	
	1915	75	+ 0.55		14.09	
	1020	30	+ 0.23	1.1	17.71	
	1030	9 6	- 0.06 - 0.06	-0,06	14.53	
	1123	100	1.00 - 0.39	- 0.31	1789	
	1 99 I	124	1.00 - 0.27	- 0-73	15.47	
	1120		2.00 - 0.93	-1.07	15.71	
	1121		2.00 - 0.63 = 1.37	-1.37	13.01	
	150p	1.4	2.00-0.40 - 1.50	-1.6D	16.34	
	1550	- 24	2.00-0.20=1:0	- 1.80	16.44	
	1252	2:2	300-0.76=2.04	-2.04	16.13	
	132Þ		3.55 - 0.76 = 2.24	-2:4	16.88	
Γ	1=10		3.00-0.52'=2.42'	-2.16	17.12	

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Test 3

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Well	No.	9A
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	<u>03-23-03</u> Loca 3-29-03 3-30-83	ation <u>Cape (a</u>	1704	Meas. Poin	
Clock Time	Elapsed Time(Min.)	3.00 - 0.52 = 2 AB	Water Level	Static +14.64 Drawdown in Feet	Pumpin Rate
1421	321	3.00-0.36 = 2.64	-2.64	17.28	
145.	351	3.00-0.22 = 2.7B	-2.78	17.42	
1531	\$ 9/	3.00-0.07 = 2.93	-243	17.57	<u> </u>
1611	4 31	4.00 - 0.72' = 3.08	-3.02	17.72	
1651	471	4.00 - 0.72 = 3.28	-3.26	17.92	1
1741	521	4.00 - 0.57 = 3.43	-3,43	18.07	
1844	58.4	3.61	-3,61	18.25	
1942	642	3.75	-3.75	1839	
2:43	703	392	-3.92	18,56	
2/42	762	4.06	- 4.06	18.70	
2241	821	4.17	- 4.17	18.81	
0002	902	432	-4,32	18.96	
3146	1006	5.00-0.351 -7:45	- 4,45	19.09	32 2'= 7659
0323	1103	4.5%	-4,5%	19.20	B' = 755 .
0502	1202	5 20-0.36 43-1	-4,64	19.23	34/2 = 65 .
26-5-	1302	(s s.) 4.76	76	:9,40	382"= 1651
0821	1401	4.86	-4,7%	19.50	
1002	1502	4.98	-4.98	M.62	
1322	1702	5.13	-5,13	19.77	
16.45	1905	5,18	-5.10	19.82	
2003	2103	5.29	-5.29	19.93	
0210	2470	5,49	-5.49	20.13	
0603	2703	5.52	-5.52	20.16	
1101	3001	5.64	-5.67	20.28	·

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Test 3

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____9A Well No.

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	Clock Time	Elapsed Time(Min.)	······	Water Level	Drawdown in Feet Skt/c + 14.64	Pumping Rate
2	1743	3403		- 5.64	:20.28	
	0024	3804	· · · · · · · · · · · · · · · · · · ·	5.79	20:43	<u> </u>
1	0842	4302	·	5.80	20.44	
1	1702	4802		5.96	20,60	
+	0303	5403		6.14	20.78	
	1303	6003		6.27	20.91	
	2303	6603		6.33	20.97	
?	0702	72.02		6.37	21.01	
	2103	7923		6.44	21.08	
i I I	0825	8605		6.55	21.19	
	2/02	9362		6.63	21.27	
≁	0902	10,082		6.70	21.34	· · · · · · · · · · · · · · · · · · ·
	2102	10,802		6.77	21.41	
	0902	11,522		6.81	21.45	
	2102	12,242-	· · ·	7.03	21.67	
	0702	12,962		7.05	21.69	
Ì	2102	13,682		7.09	21.73	
	0755	14,335		7.11	21.75	
	0900	14,400		- 7,13	21.17	
Ļ			······································			
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Recovery

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Date 4-7-83 Location Cape Coral

9A Well No. Meas. Point <u>2.5 A. above 1.</u> Top of cap

1					/	
	Clock Time	Elapsed Time(Min.)		Water Level	Recovery Drawdown in Feet PWL -7.13	Pumping Rate
7	0755			-7.11		
	2902		2.00 - 0.87	- 1.13	•]
	0905	Pump off	-			
		24 sac	24	-2.00	5,13	
		1:59	1:59 ASONG MP	AT TUBSE TOP = +	0.10' 7.23	
1		3		-0,97	8,12	
		31/2		+1.29	8.42	
		4		+1.51	8.64	
		41/2	V	-1.75	8.68	
		5		-1.97	9.10	
		51/2		-2.16	9.29	
		6	,	+2.36	9.49	
÷ -		<u> </u>		-2.63	9.81	
		<u>9</u>		+3.01	10.14	
-		9		+ 3.25	10.38	
-		10		+ 3.47	10.62	
		12		+3.70	11.03	
• [_		14		+ 4.26	. 11.39	
		16		+4.57	11.70	
		18		+ 4.85	11.98	
				+ 5.09	12.22	
		2.2		+ 5.32	12.45	
		<u></u>		+ 5.53	12.66	
		6	· · · ·	-572	12.85	
			9A 11-21	Te	st 3 Rec	1
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Date 04.07.83 Location Cope Card

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Meas. Point

Well No.

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Clock Time	Elapsed Time(Min.)	ADDIE MP	Water Level	Recovery Drawdown in Feet PWL -7.13	Pumping Rate
ļ	28		+5.90	-13.03	
	30		+6.05	13.18	
	33	V	÷ 6.29	13.42	
	36	- 	+6.50	13.63	
	40		+6.75	13.88	· · · · · · · · · · · · · · · · · · ·
	45		+ 7.04 ,	14.17	
	50		+ 7.31	14.44	
	55		+ 7.54	14.67	
	60		+ 7.14	14.87	
	65		+ 7.94	15.07	
	70		+ 8.12	15.25	
	30		+ 8.43	15.56	
	90		- 8.69	15.82	
	100		+ 8.93	16.06	
	120	-	+ 9.34	16.47	•
	140	:	+9.67	16.80	
	160		+9.74	17.07	
·	130		+10.14	17.29	
· · ·	202		+,0.39	17.52	
	332		+101.2	17.77	
1307	21.2	······································	+10.21	18.00	
357	=°2		+11.07	18.20	
1426	321		+11.24	18:37	
1457	352	·	+11.38	18.51	

II-22 9A

Test 3 Rec

Well No.

Date 045793 Location Cape Coral to 4-8-83

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Meas. Point

Clock Tim e	Elapsed Time(Min.)	Tape Reading Held - Wet	Water Level	Recovery Drawdown in Feet PWL - 7.13	Pumping Rate
1537	392		+11.55	18.68	
1617	432		+11.70	18.83.1	
.1657	472		+11.82	18.95	·
1'A7	522		+11.92	19.05	<u></u>
1846	581		+ 12.08	19.21	
1950	695		+ 12.16	19.29	
2078	703		+12.27	19.40	
2:48	763		+12.32	19.50	
2:48	823		+12.45	19.50	
-1.3.85) 1.207	902		+12.57	19.70	
0:47	1002		-12,23	19.86	
0327	1102	- -	+12.86	19.99	<u> </u>
0507	1202		+12.96	20.09	
0:46	1301		T 13.02	20.15	<u> </u>
0827	1402		+ 13.11	20.24	
0709	1444		+ 13.16	20.29	
					<u></u>
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				·	
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					·····
	-	······································	,	<u> </u>	
				— — <u> </u>	
	<u></u>	9A ""	-23 7		

Draw down

Well No.

Date <u>3-28-83</u> Location <u>Cape Coral</u>

Meas. Point 1.9ft. above Isa Former top of cap

<u>98</u>

Clock Time	Elapsed Time(Min.)	water level referred to MP	Water Level	Drawdown in Feet	Pumping Rate
0800	0	+14.90			
0858	0	+14.88			
:	15 see	+14.87		0.01	
	30.sec	+14.85		0.03	
	15 sec	+ 14.83		0.05	
*	1 min	+ 14.80		0.08	
	11/2	+14.76		0.12	
	_2	+14.70		0.1B	
	- 21/2	t14.65		0.23	
۱ ــــــــــــــــــــــــــــــــــــ	3	+14.59		0.29	
	31/2	+14.55		0.33	
· .	4	+14.50		<u> </u>	
ļ	411_	+14.45		0.43	
	5	+ 14.40		0.48	
	6	+ 14 32		0.56	
	7	+14.25		063	
	8	+ 14 18		0.70	
	9:07	+ 14 12		2.70	
	10	+ 14 07		0.31	
	12	†/3.97		0.71	<u>-</u>
	14	<i>†13.88</i>		1.2	
·	16	t/3 80		1.99	
·····	13	+13.73		115	
	20	+13 67		121	
I		¹¹⁻²⁴ 9 6	?	Test 3	1

Well No. <u>78</u>

Date <u>3-28-83</u> Location

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Meas. Point

Clock Time	Elapsed Time(Min.)	17.15	Water Level	Drawdown in Feet	Pumpin Rate
	22	+ 13.60		1.39	
	24	+13.54		1.34	
 	26	+13.49		1.39	· · · · · · · · · · · · · · · · · · ·
 	28	+13.44		1.44	
	30	+/3.39		149	
	33	+/3.32		1.56	
ļ	36	+/3.26		1.62	
	40	+13.18		1.70	•
	45	+/3.08		1.30	
·	50	+ 13.00		1.53	
	55-	+12 93		1.95	
	60	+12.95		2 03	
	<i>.</i> 55	+12.79		2.07	
	76	+12.72		2.16	
	80	+12.61		2.27	
	90	+12.50		2.3B	
	100	+12.41		2.47	
	120	+12 25		2.63	
112-	144	+12 58		2.80	
1143	/33 .	+11.96		2.72	
1202	182	+11.26		3.02	<u></u>
17:2-	202	+1178		3.10	<u>_</u>
1253	233	+11.67		3.31	
1322	262	+11 57		331	

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				Well No.	YB
Date	3.24.83	tion <u>Ca</u>	pe (orat	Meas. Poir	nt
Clock Time	<u>3-36-83</u> Elapsed Time(Min.)		Water Level	Static + 14,90 Drawdown in Feet	Pumping Rate
1353	273		+ 11.49	3.39	
1423	323		+ 11.42	3.46	
1453	353		+ 11.35	3.53	
1533	393		+ 11.27	3.61	
1613	433		+ 11.20	3.68	1
1653	473		+ 11.12	3.76	
1743	523		+ 11.04	3.84	
1847	587		+ 10.94	3,96	
1944	644		+ 10.84	4.06	
2045	705		r 10.74	4.16	1
2144	764		+ 10.66	4,24	
22.43	823	· · · ·	+ 10,59	4.31	
0005	905		+10.49	4.41	
7143	1003		+10.42	4.48	38 = 765 acm
0326	1104		+10.33	4.52	39"="105" = m
0500	1206		+ 10 33	457	33/2 = 765 = :m
0222	.304		+10.26		2/1 = 765.00m
0824	1404		+10.2C	4.70	<u> </u>
1004	1504	· ·	+ 10,13	4.77	
1324	1704		+ 10.07	4.83	
16.49	1909		+10.07	4.83	
2:06	2106		+ 9.98	4.92	
0215	2475		+ 9.86	5.04	
0604	2704		+ 9.8.6	5.04	

^{II-26} 9B

Test 3

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Well No. 98

Clock Time	Elapsed Time(Min.)	<u> </u>	Water Level	Drawdown in Feet Static +14.90	Pumpin Rate
1104	3004		+ 9.82	5.08	
1745	3905		+ 9.89	5.01	
0026	3806	<u></u>	+9.79	5.11	
0845	4305	<u> </u>	+9.82	5.08	
1704	480.4		+9.74	5.16	
0.305	5405		+9.57	5.33	
1305	6005		+9.49	5.41	
2306	6606	·	+9.47	5.43	
0904	7204		+9.47	5.43	
2105	7925		+9.42	5.48	
0835	8615		+ 9.33	5.57	
2104	9364	<u> </u>	+9.27	5.63	
0906	10,086	<u> </u>	+9,21	5.69	
2106	10,806		+ 9.19	5.71	
0904	11,524		+ 9.17	5.73	
2105	12,245		+ 9.13	5.77	
0905	12,965	- <u>.</u>	+ 9.11	5.79	
2104	13,684	·	+9.09	5.81	
0758	14,338		+ 4.08	5.82	
0100	14,400		+ 9.08	5.82	
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Test 3

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AQUIFER TEST Recovery

Netword Well No. \underline{IB} Well No. \underline{IB} Date $\frac{42283}{2}$ Location \underline{Cope} (ord) Neas. Point 1.9 H above 1 Clock Elapsed Time Time Min.) Advect to the point 1.9 H above 1 OTSB OTSB OTSB H for the point 1.9 H for the point Rate OTSB Point 1.9 H for the point Rate OTSB Oth the point P				necever	7		-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				•		Well No.	<u>98</u>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Date	4-7-83 Location	Cape Cora	<u> </u>	Meas. Point	1.9 ft. above 1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		r	r			KREIDT - 4	HNTS top of
0758 $+9.08$. 0905 N_{14}^{mp} off 9.08 0 2 9.09 1.01 3 1 9.10 .02 1 9.10 .02 1 9.11 .03 1 9.17 .07 2 9.19 .11 2 9.19 .11 2 9.19 .11 2 9.19 .11 2 9.19 .11 2 9.19 .11 2 9.19 .11 2 9.25 .17 3 9.25 .17 3 9.30 .32 4 9.34 .26 4 9.34 .26 4 9.35 .30 5 9.48 .40 7 9.54 .46 6 9.60 .52 3 9.65 .57 10 3.79 .62 12 9.30 .72 4						<i>Recovery</i> Drawdown in Feet	Pumping
0905 Nump off 9.08 0 2 9.09 4.01 2 9.09 4.01 2 9.09 4.01 2 9.10 .02 1 9.17 .03 1 9.17 .03 1 9.17 .03 1 9.15 .07 2 9.19 .11 2' 9.19 .11 2' 9.19 .11 2' 9.21 .13 5 9.25 .17 2' 9.30 .22 4 9.38 .30 5 9.41 .53 5 9.48 .40 7 9.54 .46 6 9.60 .52 3 9.60 .52 9.60 .57 .57 10 9.70 .62 12 9.30 .72 4 9.24 .80 .26	ş	0758			+9.08		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0900			+9.08		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	87 11 81	0903			9.08	0	
i 9.11 .03 $1^{1/2}$ 9.15^{-} $.07$ 2 9.19 $.11$ $2^{1/2}$ 9.21 $.13$ 3 9.25^{-} $.17$ $2^{1/2}$ 9.30 $.22$ 7 9.30 $.22$ 7 9.34 $.26$ 7 9.38 $.30$ 5 9.41 $.53$ 5 9.41 $.53$ 5 9.60 $.52$ 7 9.54 $.46$ 7 9.65 $.57$ 10 3.70 $.62$ 12 9.20 $.72$ 4 9.24 $.90$ 12 9.65 $.57$ 10 3.70 $.62$ 12 9.24 $.90$ 12 9.24 $.90$ 13 9.24 $.90$ 12 9.24 $.90$ 13 9.24 $.90$			2		9.09	0.01	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ŀ		34		9.10	.02	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1			·	9.11	.03	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		15-		9.15	.07	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-				9.19	.11	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		2.	·	9,21	.13	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		<u> </u>		9.25	.17	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-				9.30	.22	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					9.34	.26	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$, -				9.38		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		5		9.41		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		<u> </u>		9.48	.40	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		7		954	. 46	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$.		<u> </u>		9.60	.52	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	- -		<u> </u>		9.65	57	
+ <u>223</u> .30 16 1.16 .83			10	· · ·	3.70	,62	
			1,2		930	.72	
			+		9 p.A	. 80	
13 1- 3 .95	· 		<i>i6</i>	·····	1.16	. 83	
	-		3		<u>- s</u>	.95	
20 11-28			20		0 23	101	

¹¹⁻²⁸ 9B

Test 3 Rec

AQUIFER	TEST
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Well No.

1 **-**

Date 4-7-83 Location Cape Coral

Meas. Point

f	······				
	lapsed me(Min.)		Water Level	Recovery Drawdow h in Feet <i>PivL</i> +9.08	Pumping Rate
5	2		10.15	: 1.07	
	9		10.21	1.13	
2	6		10.25	1.18	
2	8	· · ·	10.3.1	1.23	
	0		10.36	1.28	
3	3		10.43	1.35	
3	5		10.49	1.41	
40	2		19.57	1.99	
43	-		19.57	1,59	
50	•		10.76	1.68	
55			10.89	1.76	
60	,		10.91	1.83	
65	- ·		10.98	1.90	
70) · · · · · · · · · · · · · · · · · · ·	· · ·	11.06	1.98	
80)		11.17	2.09	
90)		11.29	2.21	
	·		11.39	2.31	
120			11.58	2.50	
140			11.74	2.66	
)		11.33	2.80	
180			12.00	2.92	
2.0			12 all	3.03	
1257 332	-		12.20	3.20	
1327 244	1			3.53	

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Test 3 Rec

Date 04-07-33 Location Cape Coral Beroverey

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Well No.

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Meas. Point

r	f	SECOVEDZY		
Clock Time	Elapsed Time(Min.)	Water Level	Recovery Drawdown in Feet PWL + 9.08	Pumpin <u>c</u> Rate
1358	293	+ 12,52	3.44	
1428	32-3	+12.63	3.55	
1459	354	+12.71	3.63	
1539	394	+12.32	3.74	· · · · · · · · · · · · · · · · · · ·
1619	434	+12.90	3.82	· •
1659	474	+/2.98	- 3,90	
1749	524	+13.05	3.97	
1848	583	+ 13.13	4.05	
1955	650	T 13.20	4.12	
3051	706	+ 13.24	4.16	
2150	7.5	+ 13.30	4.22	
<u>2550</u>	325	+ 13.34	4.26	·····
2029	304	-13.43	. 4.35	
0:29	:004	- :3.54	4.46	· · · · ·
0327	1104	+13.64	4.56	
507	1204	+ 13.70	4.62	· · · · · · · · · · · · · · · · · · ·
2:8	/303	+ 13.74	4.66	· ··· - · · · · · · · · · · · · · · · ·
0829	1404	+ 13.80	4.72	
0915	1450	+13.62	4.74	
				<u> </u>
	•			
	•			<u> </u>

Drawdown

Date 3-28-83 Location Cape Coral

Well No. <u>RC-8</u>

Meas. Point <u>2547. above 1</u>s Topplate of well

		·····	· · · · · · · · · · · · · · · · · · ·			
	Clock Time	Elapsed Time(Min.)	Water level teterred to MP	Water Level	Drawdown in Feet	Pumping Rate
	0813	0	+ 16.24			
	5:57		+ 16.24 + 16.21 +13.21	+ 16.21 + 16.21	0	i
		1/4	-		0	
		<u>'/z</u>				
		1/4			U	
					0	
		11/2			υ	
		2			c	
		2 '/z			C	
		3			U	
		3 1/2			U	
			·		0	· · · · · · · · · · · · · · · · · · ·
		4'/z			0	
 		5 /			0	
		6	·		0	
		7	•		0	
ļ 		<u> </u>	······································		0	
		9			. 0	i
		10			<u> </u>	
		12				
		14			0	
		16			2	
		18	+13.21	+16.21	<u>ə</u>	
		:0	+ 13.20	+16.20	5.01	·

R0-8

Test 3

Well No.

R.O. #8

1

Date 3-28-83 Location Chipe Coral

Meas. Point

		·		- <u></u>			····
		Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet Static +16.21	Pumping Rate
			22	+ 13.20	+16.20	:0.01	
			24	+13.20	+ 16.20	•	
د. ان ز ان رو			26	+ 13.20	+16.20		
	1		28	+13.19	+16.19	.02	
	{ .	ļ	30	+13,19	+ 16.19		
1 1 1 1 1 1	ŧ		33	+ 13.19	+16.19	ļ	
			36	+13.18	+16.18	.03	
1.1			40	+13.18	+16.18		
× 1 <			A5	+13.17	+16.17	,04	
N R			56	+13.16	+16.16	.05	
-		· · · · · · · · · · · · · · · · · · ·	55	+13.15	+16.15	.06	
3			60	+13.15	+16.15		·
، ند ـ			45	+13.14	+16.14	,07	
Flerent			70 1.18	+13.13	+ 16.13	,08	
			60	+13.11	+16.11	.10	
5		· · · · ·	90 1.7-	+13,1/	+16.11		
þ			15 143	+13,10	+ 16.10	.11	
vier	╞┝		1.5 5.5-1	+13.08	+16.08	13	
			I have for the second	+ 13,05	+16.05	. 16	
		÷:	160 2.40	+13.01	+ 16.01	,20	
: : السان			12.6	+13:00 12:02 PM	+ 16.00	-21	
	! 	5	-:5	+12.94	+ 15,44	,27	
		<i>₹</i> ,	: 6	+12 92	+ 15.72	,29	
		2		+12.94	+ 15.94	.27	
				11-32 0	^	T + -	-

R0-8

Test 3

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Well No. <u>R.O. #8</u>

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	•				Well No.	<u> R.O. #8</u>
	Date	<u>1.28.83</u> Loca <u>3.29-83</u>	ation <u>Cape</u>	Coral	Meas. Poin	t
		3-30-83	T			
	Clock Time	Elapsed Time(Min.)	· · ·	Water Level	Drawdown in Feet 5tatic+16.21	Pumping Rate
	· · Z	270	12.92	+ 15.92	: 0,29	
	· Z	320	12.9/	+ 15,91	.30	
	2 Z	350	12.88	+ 15.88	,33	
	3	390	12.87	+ 15.87	.34	· ·
2	: 2	430	12.83	+ 15.83	,38	
<u>_</u>		470	12.80	+ 15.80	,41	
UND DING	1745	526	12.72	+ 15.72	,49	
Δ	18.50	590	12.69	+ 15,69	,52	
ってし	1950	650	12.62	+ 15.62	.59	
	2051	711	12.56	+ 15.56	. 65	
5	2151	171	12.49	+ 15.49	, 72	
	2.251	531	12.43	+ 15,43	.75	
개리	0013	913	12.38	+ 15.38	.83	32/2 "= 7755.00
	0156	1016	/2.33	+ 15.33	.38	32 - Tabler
[]]	0335	1115	12.29	+15.23	. 93	32 2
	05:5	1215	12.25	+15.25		321/2 "= 7.5 april
	0352	1312	12.19	-15.19	1.02	38 2 - 74 Sam
	0926	1406	12.16	+15.16	1.05	
	1006	1506	12.08	+15.00	1.13	
1 -	1327	1707	12.05	+ 15.05	1.16	
(1651	1911	12.04	+15.04	1.17	
ĮŁ	2010	2110		+14.97	1.24	
1 –	0218	2478		+ 14.83	1.36	
PF	6610	2710		+ 1483	1.38	

R0-8

Test 3

<u>_RO-8</u> Well No.

Date <u>3-30-83</u>	Location	CAPE	Coral	
to 4-7-83				

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Meas. Point

	·					
-	Clock Time	Elapsed Time(Min.)	Add 3ft to reading	Water Level	Drawdown in Feet Static +16.21	Pumping Rate
30]	1107	3007		+14.79	: 1.42	
	1750	3410		+14.85	1.36	
i di Nota Anti-	0030	3810		+14.76	1.45	
3-31	0850	4310	+ 11.78	+ 14.78	1.43	
か。 21 	1708	4808	<u>.</u>	+14.69	1.52	
-/+ 1	0308	5408		+ 14,54	1.67	
-	1315	6015		+ 14.46	1.75	-
-	2309	6609		+14.44	1.77	
4-2	0906	7206		+14.44	1.77	
	2107	1927		+14.39	1.82	
-3	0340	8620	+/1.32	+14.32	1.89	
	2107	9367	· · · · · · · · · · · · · · · · · · ·	+ 14.26	1.95	
4-4	0928	10, 108		+14.21	2.00	
	2110	10,810		+ 14.19	2.02	
4-5	0915	11,535		+14.19	2.02	
	2108	12,248		+14.18	2.03	
1	0907	12,467		+14.18	2.03	
£-6 	2108	13,688	· ·	+ 14.17	. 2.04	
. 7	0757	14,3.37		+14.18	2.03	
-	0900	14,400		+ 14.18	2.03	
, 1	ł_					
			·			
		<u>:</u>				

RO-8

Test 3

2 %		AQUIFER T	EST		
	,	Recover	4		Ö.
	11 - 7 - 7	1 1 1		Well No.	1.5 ft above 1
Date	4-7-83 Locatio	in <u>Lipe Coral</u>	<u> </u>	Meas. Point A . $P_{A}E$	2.5 ft above 1 Top plate of 1
[· · · · · · · · · · · · · · · · · · ·		I NELOVERY	<u>sauszhnid</u>
Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet <i>Puil + 14.18</i>	Pumping Rate
0157		,,,,,	+ 14,18	. 0	
0900	0		14.18	4	
0705	Pump off	· · · · · · · · · · · · · · · · · · ·	14, 18		
	"z		14.18		
	^{3/} 4		14.18		
	1 -		14.18		
	11/2		14.18		
			19,18		
	2 / 2'2 3		14.18		
	3		14.18		
	31/2		14,18		
	4		14.18	/	
	412		14.18		
e.	5		14.18	-	
	4		14,18		
	7		14.18		
	8		14.18		
	7		14.18	. /	
	10		14.18		
	12		14.19	0.01	
	14		14.19	5	
	16		14.19	/	
	18	,	14.19)	
	20 -		11.19	3.31	

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¹¹⁻³⁵ R0-8

Test 3 Rec 1

AQUIFER TEST Recovery ,3 Ro-8Well No. Date 4-7-33 Location CAOC Coral Meas. Point A Parsons/HNTI Recovery Drawdown Clock Elapsed Water Pumping Time Time(Min.) Level in Feet Rate PWL +14.18 22 14.19 :0.01 È i. 14.19 24 ı. 26 19.20 .02 28 14.20 30 14.20 33 14.21 ŧ ,03 36 14.21 40 14.2 45 4.2 2.1 50 14.22 .04 55 14.23 105 ۳e 6 14.24 ,06 105 65 14.24 12 14.25 70 107 20 14.26 .08 JC ℃ <u>20</u> 14.27 .09 40 14.28 1∞ .10 $12(2^{4})$ 14.30 . ,12 (2²⁰ 14 14:33 ,15 160(2ª) 14.35 .17 180(3⁴⁴) 14.39 .21 2:2 14.41 ,23 234 1259 14.46 ,28 266 -51 1531 . 33

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<u>[]-36</u> RÖ-8

Test 3 Rec

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Well No. <u>PO-8</u>

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		<u>04.07.23</u> Loca 4-8-83	ation <u>Cape</u>	(oral	Meas, Point	
	Clock Time	Elapsed Time(Min.)		Water Level	Recovery Druwdown in Feet Pwl 11418	Pumping Rate
2	1401	296		+14.55	: 0.37	
1	1431	326		+ 14.58	,40	· · ·
	1502	357-		+ 14:62	,44	
ł	1541	396		+ 14.66	.48	
tranta Prostanta Prostanta	1622	437-		-14.68	,50	
₽	1701	476		+14.72	. ,54	
	:751	526		+14.74	,56	······································
4	1851	586		+ 14.76	,58	
	2000	655		+ 14.77	,59	
	2054	709		+ 14:76	,58	
ļ	2153	768		+14.80	.62	
	2253	328		+ 14.83	.65	
-8	0013	903		+ 14.83	.70	
	2152	1007		114.97	.79	
	0332	1152		+15.03	,85	
	0512	1207		+15.08	,90	
	7:50	1305		+ 15.11	,93	
= -	0832	1407		+ 15.17	.99	
	6925	1460		+ 15.19	1.01	
; {		·	· · · · · · · · · · · · · · · · · · ·			
-						
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· -	. - -	•	<u> </u>			
· · · ·	<u> </u>					
	•		R0-8	3 II-37 7	Test 3 Rec	3

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Draw Sown

Well No. RO-7

Date 3-28-23 Location Cape Coral Meas. Point 2.3.A. abov Top plate of well. Background wells RC1, 2, 4, and 6 pumping Water level referred Clock Elapsed Water Drawdown Pumping Time Time(Min.) Level in Feet to MP Rate Static + 15.71 0 IS sec 0819 +15.71 - 0 Ì 0900 +15.71 30 Sec +15.71 45 sec +15.71 1 +15.71 1/2 +1571 ŧ 2 +15.71 21/2 +15.71 3 +15.71 31/2 +1,5.71 4 +15.71 Ĩ +1571 6 +15.71 7 +15.71 8 +15.71 a +1571 +1.5.71 10 12 +15.71 14 +15.71 15 15,71 18 <u>+15.71</u> 20 15.71 22 +15.71 マイ 75.71 う

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II- 33 RO.7

Test 3

Well No. <u>RO-7</u>

Date 3-28-83 Location Cape Coral

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Meas. Point

Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet 31/15.71	Pumping Rate
•	26	+15.71		. 0	
	28	#5.71		0	
: 	30	#5.70		0.01	
ļ	33	45.70			
		75.70			
 	40	15.70			
	45	+15.70			
		#5.70			
 	55	15.70			
1000	1 1	+15.69		,0 2	·
	65	45.69			
	70	15,69			·
		+5.68		103	
		15.68		-	· · ·
	,	45.67		.04	
- T		+15.66		,05	
		+15,64 11:22 A.M.		.07	
	160 1	+15.63		. 108	·
	4	+ 15.62		,07	
		+ 15.61		.10	
.9		+ 15.61			
	·······	+15.60			
1:	290 +	r/5.59		.12	
·	+ متحة	+15.53		,/3	

RO-7



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27:33

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Annual Contraction

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474 J Well No. ______ -

ł	Date	<u>93-29-83</u> Loca 3-29-83 3-30-83	Meas. Point			
•	Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet Static +15:71	Pumping Rate
14		350	+ 15.57		0, i#	
		390	+ 15.56		,15	
	`	430	+ 15.55		.16	
	_ [:]	470	+ 15.53	_	./8	
	1749	529	+ 15.50		,21	
	1853	593	+ 15.45		,26	
	/947	647	+ 15.39		,32	
	2049	709	+ 15:34		.37	
	2148	768	+ 15:29		.42	
	2247	827	+ 15.23		.48	
3	0009	907	÷ 15.17		.54	3= 2 = 765 quan
	0154	1014	+ 15.13		•53	38/2 = 1655
	0350	1110	+ 15.12		. 59	33"=" = 7.5 som
	0511	1211	+ 15.09			34/2 = 765 min
	0:43	/308	- 15.04		.67	382 = 7t 5 gpm
	0328	1408	+ 14.99		, 72	
	1008	1500	+ 14.93		.78	
	1330	1710	+ 14.89		.82	
	1655	1915	+ 14.88		. 83	
, ∔	2014	2114	+ 14.82		,89	
	0:20	2480	+ 14.69		1.02	
L	0610	2710	+ 14.69		1.02	
	1114	3014	+ 14.66	*	1.05	
	1752	34/2	+ 14.70	-40	1.01	

RO-7

Test 3

3

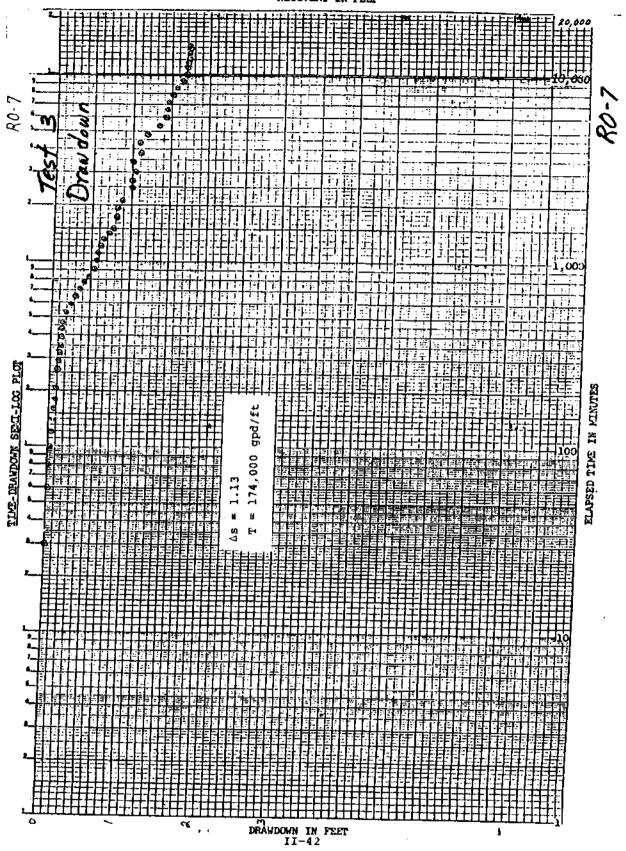
314

Well No RO-7

			· ·			Well No.	<u> </u>
	Date	<u>3-31-83</u> Loca	tion	Cape C	oral	Meas. Point	<u> </u>
	to 4	4-7-83				· · · · · · · · · · · · · · · · · · ·	
	Clock Time	Elapsed Time(Min.)		<u> </u>	Water Level	Drawdown in Feet <i>Static +15.71</i>	Pumping Rate
31	0035	3815			+14.60	-1.11	
	0853	4313	······································	····	+14.62	1.09	
	1710	4810			+14.52	1.19	
-/	0311	5411			+ 14.37	1.34	
	1324	6024			+14.28	1.43	
1	2313	6613		<u> </u>	+14.26	1.45	
-2	0915	7215		·	+14.25	1.46	
	2111	7931			+14,20	1.51	
3	0845	8625			+14.13	1.58	
4	2110	9370			+14.06	1.65	
4	0936	10,116			+14.02	1.69	
Ĺ	2112	10,812			+14,00	1.71	······
5-	0926	11,546			+13.99	1,12	
<u>_</u>	2112	12,252			+13.98	1.73	
6	0914	12,974			+ 13,99	1.72	
	2111	13,691			+13.97	1.74	
, _	0745				+ 13.99	1.72	
	0900	14.400			+ 13.99	. 1.72	
	ļ						
					•		<u> </u>
							<u> </u>
سكان							

¹¹⁻⁴¹ *R0-7*

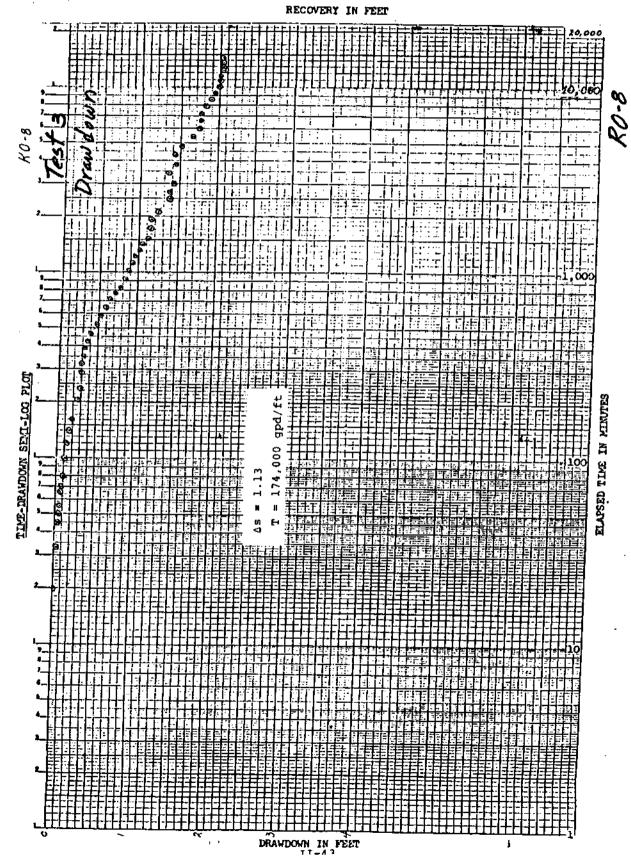
Test 3



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NECOTEMA AN FE

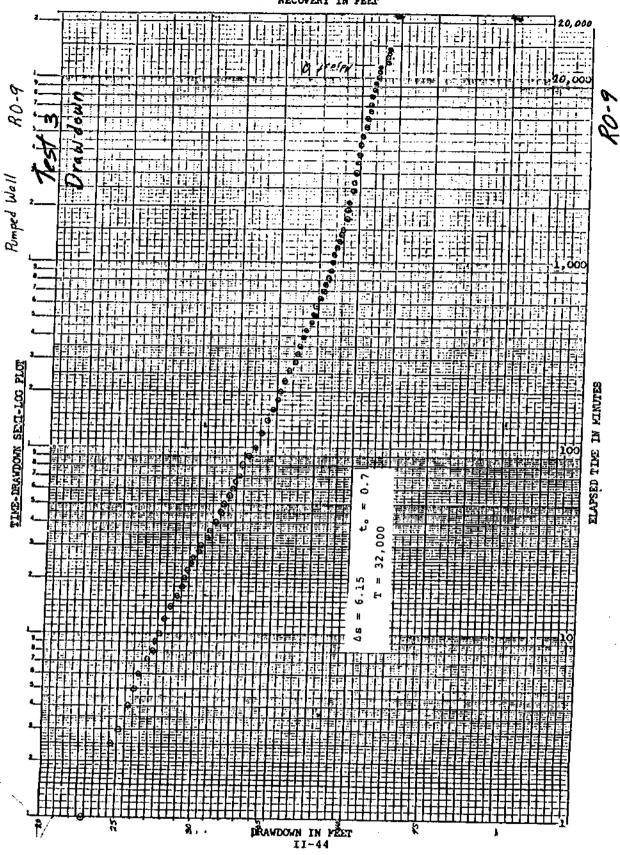
d.s. . .



RECOVERY IN FEET

...!

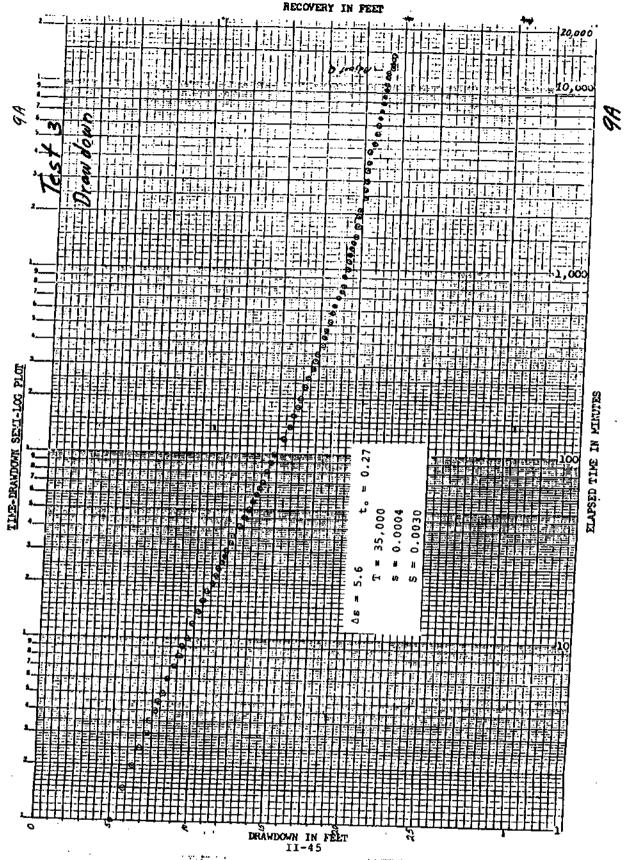
A Shine and

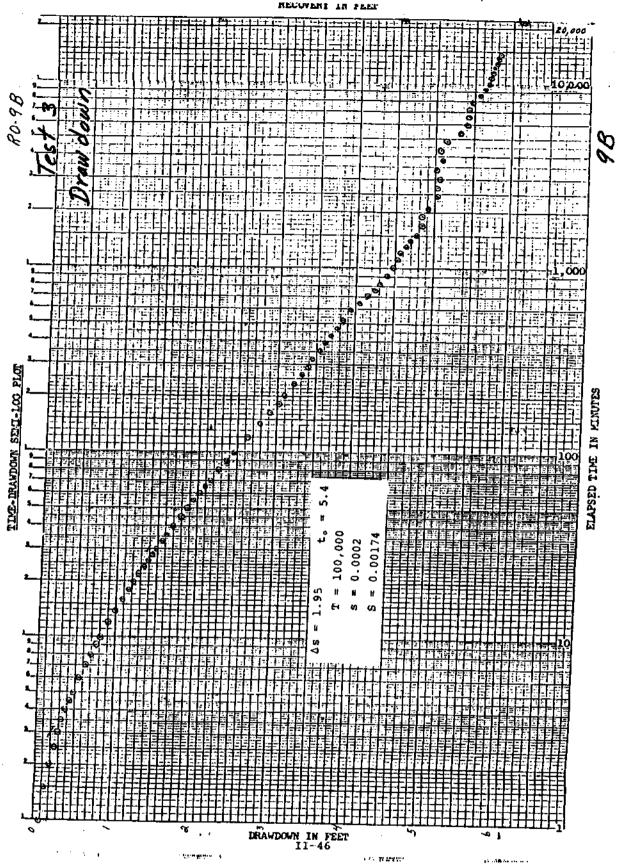


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RECOVERI IN PER-





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Recovery

Well No.

Date 1-7-83 Location Cape Coral

Meas. Point <u>2.3 H above</u>) Top plate of well

RO.-7

			·			
Cloc Time				Water Level	Lecovery Drawdown in Feet Pri + 13.99	Pumping Rate
0745	5 0			+ 13.99	. 0	
1 0900				13.99		
0906	5 1			13.99		
	11/2			13.99		
	2			13.99		
¥	21/2			13,99		
	3			13,99		
	31/2	!		13.99		
	4	······································		13.97		
	4'2			13.99		
	1		·	13,99		
	6			13,97		
	7			13.99		
·	9.			13.99	- /	1
	9			13,97		
0915	10			1.3.99		
				13.99		
	12			13,99		
	16			13.99		
	18			13,97		
	20	,		13,99		
	22			13.22		
	24			13,7?		
	21,			13, 73	/·/	

Well No. <u>RO-7</u>

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+ **-**

Date <u>4-7-63</u> Location <u>Cape Coral</u> Meas. Point

	, <u>.</u>		<u> </u>	·		· · · · · · · · · · · · · · · · · · ·
	Clock Time	Elapsed Time(Min.)	• •	Water Level	Recovery Brawdown in Feet PwL +13.99	Pumping Rate
		28		13.99	.0	
Ŧ		30		13,99	0	
		33		14.00	0,01	
		36		14.00	(
		40		14.00		
4	. <u>.</u>	40		14:00		-
		02		14.00	- (
		55		14.00	$\langle \rangle$	
		60		14.01	.02	
		65		14.01	1	
		10		14.01		
		80		14.01	1	
		90		14.02	,03	
•		100	<u> </u>	14.02	- (
		120		14.03	,04	
		130		14.04	,05	
		140		14.05	. 06	
		160	<u></u>	14.05	. (
		165	· · · · · · · · · · · · · · · · · · ·	14.06	.07	
		180	······································	14.07	.03	
		205	- <u></u>	4.03	,09	
1	300	235		14.11	.12.	
	1332	267		: +.14	,15	
/	4 .+	7.99		14 17	, 13	
			¹¹⁻⁴⁸ <i>P</i>	• •		•

R0-7

Test 3 Rec 2

Ro-7 Well No.

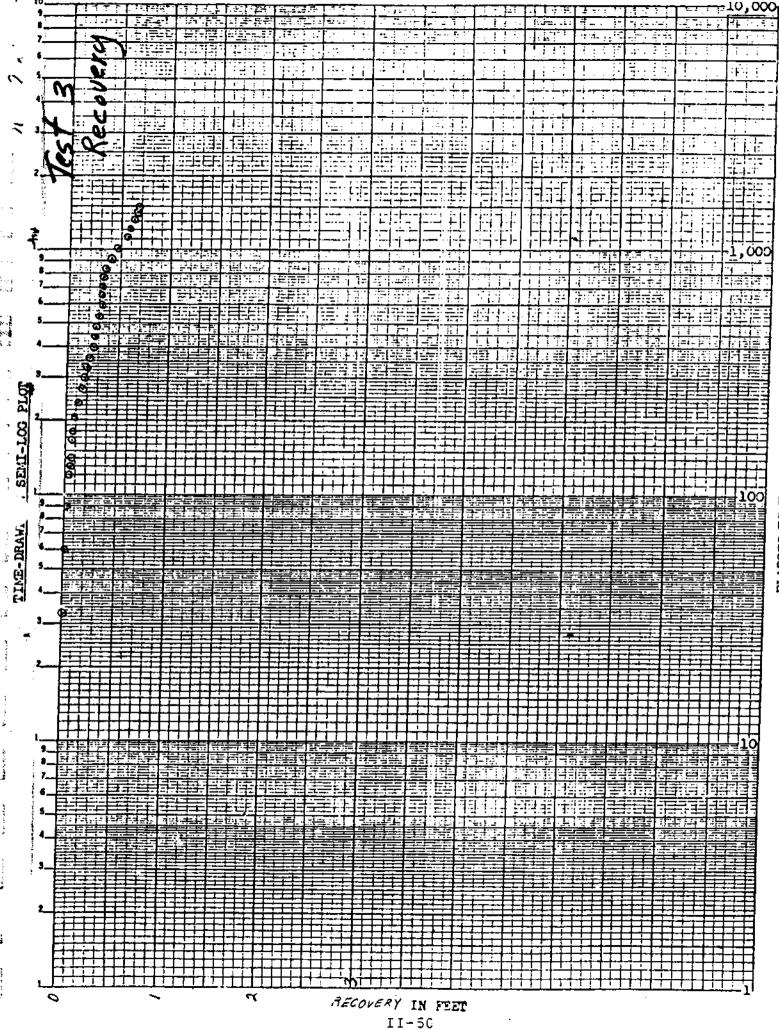
Meas. Point

Date 04-07-23 Location Cape Cord to 4-8-83

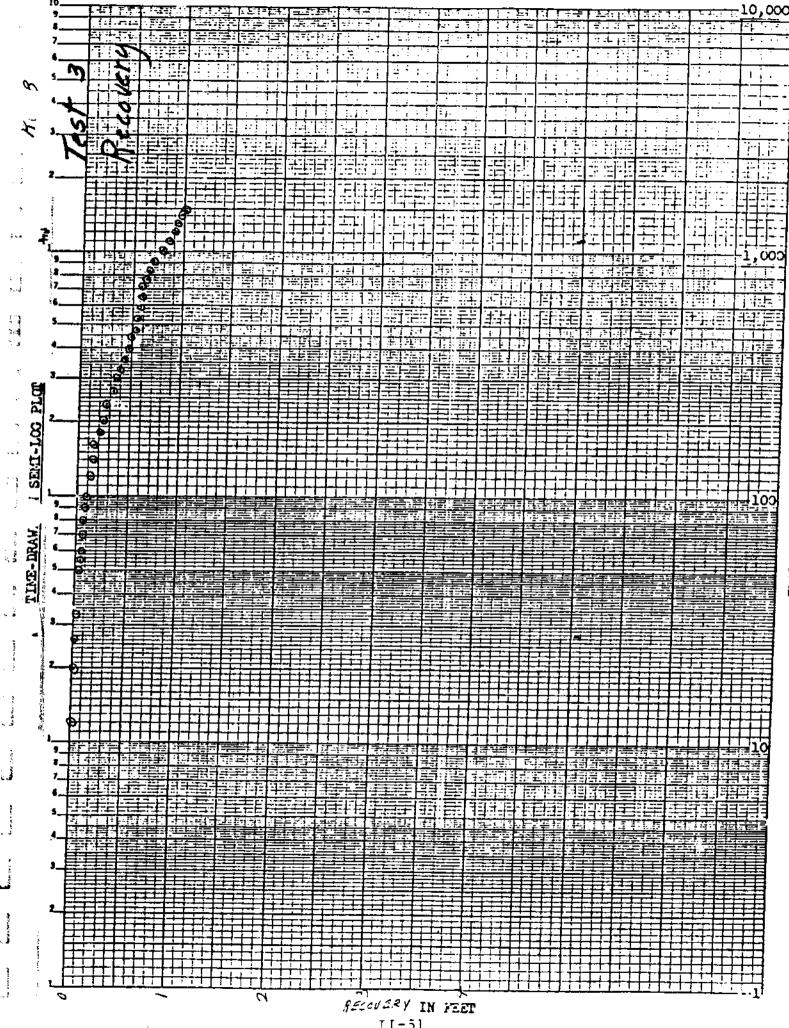
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Clock Time	Elapsed Time(Min.)	Tape Reading Held - Wet	Water Level	Facoresy Drawdown in Feet Rul + 13.99	Pumping Rate
1433	328		+ 14.19	0:20	<u> </u>
1504	359		+:4.21	, 22	
1544	399	·····	+14.24	.25	
1624	439		+ 14.26	,27	
1704	479		+1427-	,28	
1753	528		+14.29	,30	· · · · · · · · · · · · · · · · · · ·
1853	588		+ 14.31	,32	
1957	652		+14,31	,32	
2057	712		+ 14.31	,32	<u></u>
2156	741		- 14:33	. 34	
2256	931		+ 14:35	.36	
0717	912		+ 14:40	.41	<u> </u>
0:55	1010		-12.47	,48	<u> </u>
0335	1110		+14.54	, 55	
05.10	1211		+14.58	. 59	
0654	1309		+ 14.61	,62	<u></u>
0834	1409		+ 14.65	.66	
0730	1465		+ 14.67	. 68	
				· - ·	
					···
		 R	0-7	Tests	3 Rec

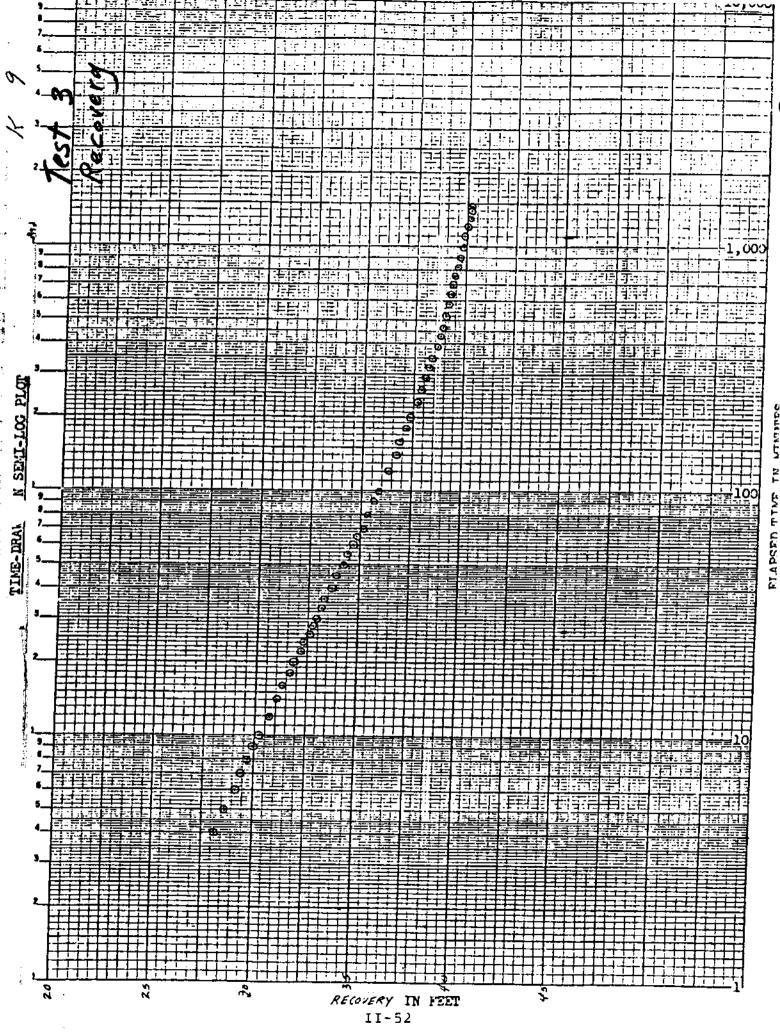


ALL N LA N L ELAPSED TIME

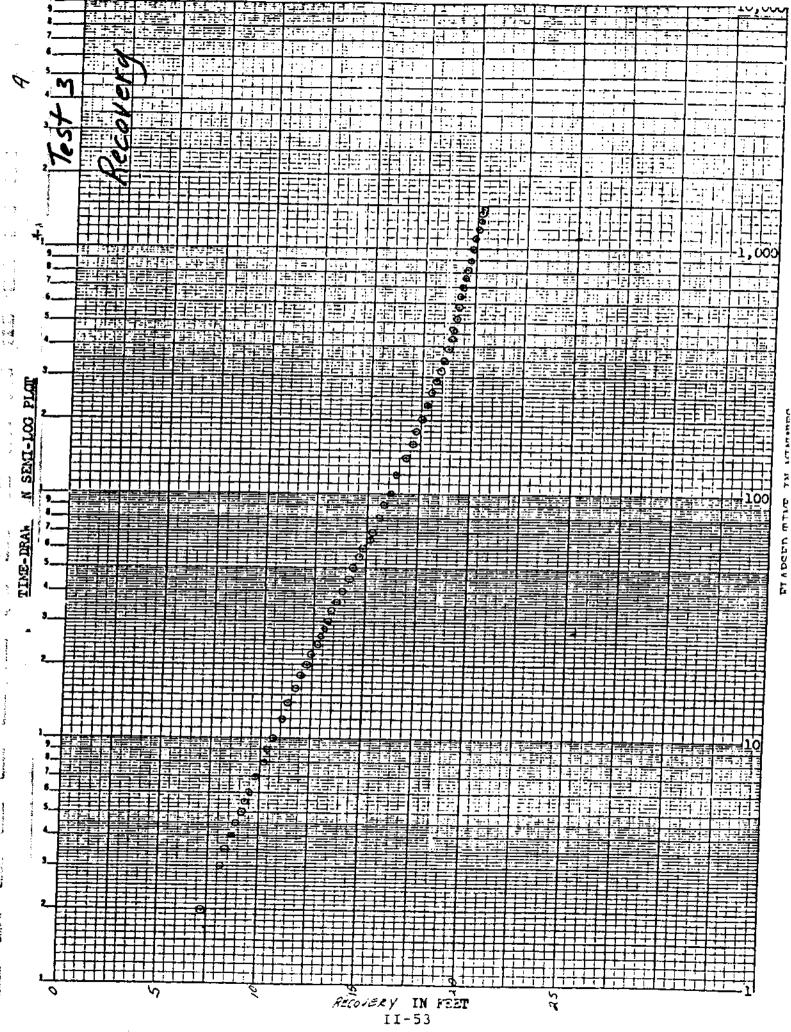


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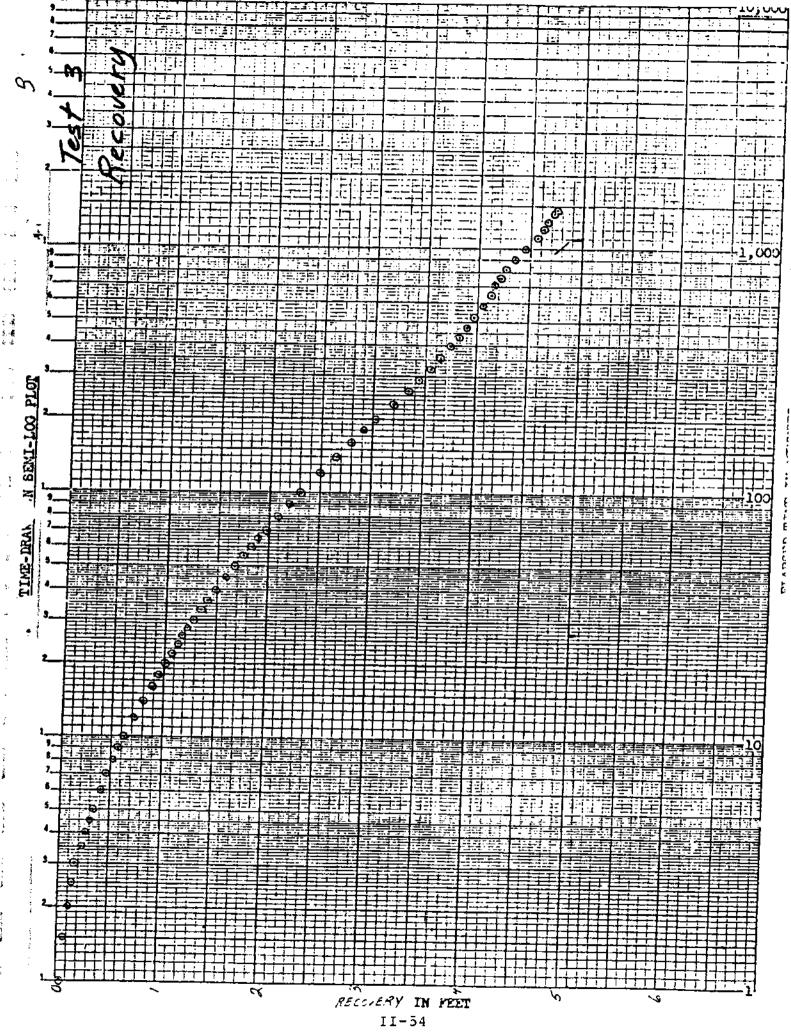


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Drawdown

				Well No.	RO-7
Date	2/4/83 Lo	cation <u>Chiquita</u> Located	Blvd.	Meas. Point	Hele in top
r	- <u>1</u>	Located	4851 Ft.	N. of RO.9	2.3
Clock Timé <i>0720</i>		Add off. correction	Water	Drawdown in Feet	Pumping Rate
08 30	σ	4'5"8Tek 4'58	12.58		
	15	458			
	30	4'58			
	45	4'58			
	1.	4'58			
	11/2	4'58			
	2	4'58			
	21/2	4' 5'8 Ter			
	3	4'5"8.	/		
	3/2	415"8			
	4	4'58			
	12	458			
		4'58	/		
	6	458			
	_7	4158			
<u> </u>	8	458	_/		
	9	4 58	- (<u></u>
	18	4 78	\rightarrow		, <u>,</u>
<u></u>	12	4 5 8			
		# 58			
	13	4 5 8			
	/8	4'5-8		/	
T	20	4'4= 8			·
	22	45-8	12.58		
		Test "I	; > 5		1

RO-7 Well No.

Date 3/4/83 Location

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Meas. Point <u>Hole in t</u> Plate of we

		· · · · · · · · · · · · · · · · · · ·		- <u>r</u>	
Clock Timé	Elapsed Time(Min.)	Add 8A.	Water Level	Drawdown in Feet	Pumpin Rate
i	24	4 5 8 EN	12.58		
	26	4'5"8			1
	28	458			1
	30	458			[
	33	4'58			
	36	4'58			
	40	4478			
	45	4'5" 8TEN			
	10	458 457Tan	12.58	0	
	55	4 5 TEN	12.57	.01	
	60	H' T' JTEN)		
		4' 5" TEN			
		4 57			
	80	4' 5" 7	12.57		
	90	H'S" GTEN	12.56	. 02	
		4" x" 6 Ter	12.56		
	120	4'5" 5 TCN	12.55	.03	
	140	4' 1-11 ATEN	12.54	.04	
		Test 1	>		2

Drawd 4.0

			AQUIFER	TEST		
			Draw	down "	• 	200
	Date	3/4/83 LOC	ation Chiquita	RIGI	Well NO.	
	•	- <u></u>	Local	61 2469 ft	Meas. Point	o plate 2,5
	Clock	Elapsed	A	beut Emile	Draudour	
- · -	Timé <i>0118</i>	Time(Min.)	13.24	Level	Well No. Meas. Point <u>N of Ro-</u> Drawdown in Feet	Rate
تر.	0830	0	13.24	(SD 10.74		
		1/4	13.24		0	
	······	1/2	13,24			
		3/4	13.24			
		<u> </u>	13.24		· / · · · ·	
		1/2	13.24			
Ļ	· .	22	13.2d		· · · · · · · · · · · · · · · · · · ·	
Ļ		21/2	13.24			
` 		3	13,24		/	
-		31/2	13.24			
ļ_	·····	4	13 2 d			
		A'/2	13.24			
-		5	13.24			
			13.24	_		
		7	13.24			
· 		8	13.24			
		9	13.24	-		
		10	13.24			
. [12	13.24			<u> </u>
		_14	13.24		0	
		16	13.235	<u> </u>		
		18	13-2.35 .	13.235		<u> </u>
		20	13 - 2.35	<u> </u>		
		22	13-2.35	<u>13235</u> II-57		
			Test	/ 11-5/		1

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Date 3/4 . Location

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Well No. <u>R.O. 3</u>

Meas. Point

Clock Timé	Elapsed Time(Min.)	17	Water Level	Drawdown in Feet (59	Pumping Rate
	24	13-2.30	13.23	.01	
····	26	13-2.25	13.225		
	28	13-2.25	13.225		
	30	13 - 2.20	13.22	10.7: .02	
	33	13-2.15	13.215		
	36	13-2.10	13.21	,03	
	40	13-2.05	13.205		
	45	13 - 1.95	13.195	.04	
	50	13-1.90	13,19	.05	<u></u>
	55	13 - 1.80	13.18	,06	
0930	60	13 - 1.75	13.175		
	:05	13-1.70	13.17	.07	
['	" 70 l	13-1.60	13.16	.08	·
	20 80	13-1,50	1315	10.65 ,09	· · · · · · · · · · · · · · · · · · ·
	30 90	13.135	13,135	.10	
	40100	13.120 (F)	13.12	,12	
· 6	120	13.090 (F)	#13.09	.15	
	²⁰ 140	13.060 (F)	13.06	.18	
	;40 160				
- P.	180				
2.	200				
3:	50.230				
µ:	20 260	· · · · · · · · · · · · · · · · · · ·			··· ·· ·······························
		II-58 Test			

			AQUIFER Draw		a-	i -
			LOWER HAWTHOR	IN #9	Well No.	RO-9
	Date	3/4/83 Loca	ation <u>Chiquita</u>	RIvd.		tof top ph
	·	•			Pumped W	le.[] ²
	Clock Time 1828	Elapsed Time(Min.)	+11.74	Water Level LSD	Drawdown in Feet Skfz +11.79	Pumping Rate
0	8;30	2:30	+11.74 +11.74 27.62		- <u>39.41</u>	
		4:00	28,42	26.02	·	
		5.30	28.00		40.21	ADJUSTING
		7:00			1	pumpinon
-		8:00	<u>32.06</u> 30,51	- <u>+</u>	43.80	69" 1009
					42.30	Continued adju
		<u>7:00</u> 10:00	30.91		42.76	
		12.00	31,25	· - · · ·	43.04	<u> </u>
			31,99		43.78	┼───┤───
-		14.00	32.38	- <u> </u>	44.17	<u> </u>
		16	32.68		44.47	
			33.03	· · · · · · · · · · · · · · · · · · ·	44.82	<u>↓</u>
-		21	33.45		45.24	<i> </i>
		24	33.90	·	-45.69	
 		26	34.09		45.88	<u>)</u>
		28	34.38		46.17	
	·	30	34.78	32.38	46.57	
 		34 ź	35,37		47.16	
 		37	35.65		47.44	Į.
! <u> </u>		41	35.96		47.75	Value wide op
09	7,5	45	36.05		47.84	995gpin
•		52	36.21		48.00	
i •		59.	36.27 .		48.06	
		.65	36.35		48.14	6.77 -
		70	36.41		48.20	977 gcm 974 gcm

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Truckmann Structure Structure

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Date 3/4/83 Location

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Survey and

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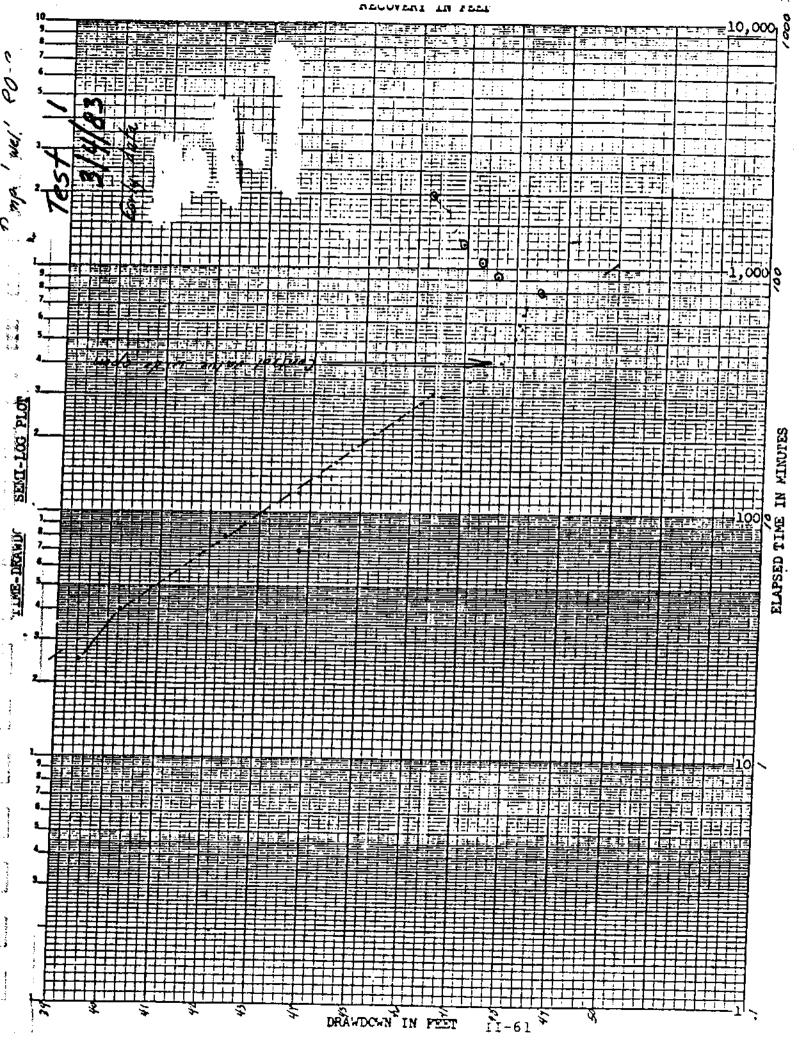
τ,

Well No. RO-9

2

Clock Timé	Elapsed Time(Min.)		Draw Lown Wat of Level Shut +11.79	Drawdown in Feet	Pumping Rate
	80	36.71	48.50	24.31	96 A 300
	93	35.82	47.61		968 spm
	105	35.51	47.30		
1035	125	35.18	46.97		92700
1058	148	34.48	46.27		
1105	<u> </u>	Test discontinu		· ·	927 yp
		· ·			<u> </u>
		······································			<u> </u>
				····	
		· · · · · · · · · · · · · · · · · · ·			
			++		
					<u> </u>
		······································			<u>_</u>
	————	· · · · · · · · · · · · · · · · · · ·		· · ·	
		· · · · · · · · · · · · · · · · · · ·			
			++-		
		······································			····
		<u></u>	┨╼╴╶━╴╴┥╼	·····	
			<u><u></u> </u>		······
					<u> </u>
		<u> </u>			

Test 1



Valor open complettle at 09:10 - Level drys below 68" to 70" range 09:15 67 995 gpn 09:20 66生 991 09:25 11 66 887 09:30 65 981 09:35 64-977 09:40 11 64 974 63 1 " 09:45 971 09:50 63 968 09:55 62之" 964 10:02* 61-2 958 10:05 61 955 10:10 59'2" 945 59 " 10:15 942 \sim 10:20 585 938 10:25 58 **F**1 934 10:30 57七 930 $\hat{\mathbb{G}}$ 10:35 57 927 562 10:40 923 10:45 56 919 551 10:50 915 10:55 55 912 11:00 54/2 908 11: 05 54 904 OFF 11:08 72" (10" = 1016)+ * Reading Arts obstructed by Talk fifting.

AQUIFER TEST Drawdown 94 Kell No. Date 3/4/83. Location Chiquita Blvd. Meas. Point Top of a Located 71.2 ft. N. of RO.9 Clock Elapsed Water Drawdown Pumping Time Time(Min.) Level +/4.24' in Feet Rate 0830 \mathcal{O} 0 + 7.60 6.64 15500 . م 1 MAL 9.74 +4.50 2 + 3.21 11.03 2.5 + 2.68 11:56 3 + 2.27 11.97 3.5 +1,87 12.37 4.0 + 1.54 12.70 4.5 13.04 +1.20 5 + 0.96 13.28 6 10.57 13.67 7 Baue mp +0.04 14.20 9 Below nº 1 -0.49 14.73 9 15.10 0.86 10 1.16 15.40 1.53 12 15.77 14 2.07' 16.31 16 2.42' 16.66 2.92' 18 17.06' 3.14' 20 17.38' 22 <u>3.45</u>' 17.691 B 3.70' 17.94' 26 3.93' 18.17' 53 12.14' 4.20' 30 441' 13,65

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Test Test

Date 03-04-93 Location

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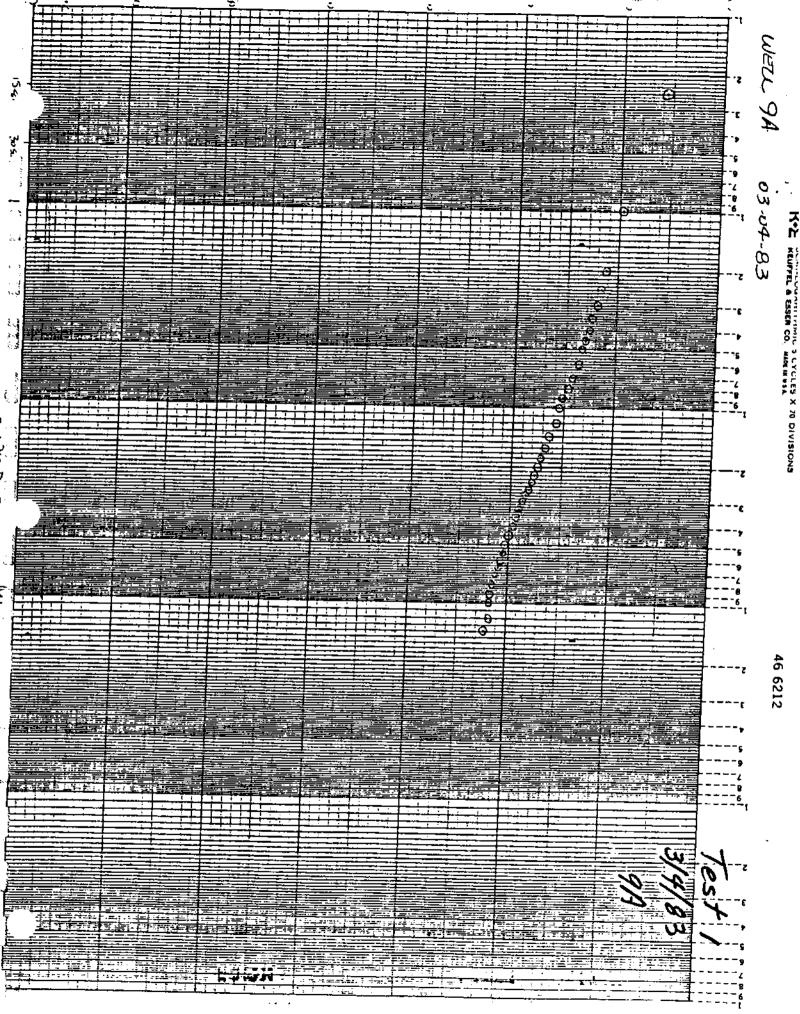
Well No.

Meas. Point

_______A

Clock Timé	Elapsed Time(Min.)		Water Level	Drawdown in Feet	Pumping Rate
<u> </u>	33	(Below mp)	4.78'	19.02'	
·	36	6-0.70	5.10'	19.34'	
	40	6-0.58	5A2'	19.66'	
	45	7-1.24	5.76'	20.00'	· · · · · · · · · · · · · · · · ·
	50	7-092	6.08'	20,32'	•
	55	7-0.70	6.30'	20.54'	· · · · ·
0930	60	7-0.45	6.55'	20.79	
	65	7-0.25	6.75'	20.99'	······································
<u> </u>	7.0	8-1.06	6.94'	21.18'	<u>_</u>
	Bo	8-0.77	7.23'	21.47'	
·	90	8-0.5B	7.42'	21,66'	<u> </u>
·	100	8-0,49	7.51'	21.75'	
1030	120	8-0.32	7.68'	21.92	
	140	8-0.14	7.86	22.10	,
	1.48	8-0.10	7.90	ZZ.14'	ć
	<u> </u>				
					<u></u>
					·······
			·		<u> </u>
	·				
					<u> </u>

II-64 Test 1



Drawdown

William A Parson

Date 3/4/83 Location Chiquita Blud.

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10 N THE

Well No. 98 Meas. Point Alt. of top a

ſ <u></u>		<u> </u>	Locate	of 700.2 ft. N	of RO-9
Clock Timé 07/0	Elapsed Time(Min.)	11.69	Water Level LSD	Drawdown in Feet	Pumping Rate
0830	Ó	11.71			·
	16 sec	11.70		.01	
	30 500	11.69		.02	
	455rc	11.45		.06	
· · · · · · · · · · · · · · · · · · ·	1 min	11.63		.08	
	12 min	11.56		.15	
· · ·	21/2	11.49		,22	
		<u>× 11.42</u>		.29	
	3	1.35	· · · · · · · · · · · · · · · · · · ·	.36	
	3/2	11.28		.43	
	4	11.21	971	.50	·····
	41/2	11.15		.56	
	_5	11.09	<u> </u>	.62	
	_6	10,98	<u> </u>	,73	
		10.88		.83	·······
···	8	10.79		.92	
	9	10.70	ļ	1.01	¢
	_10	10.62		1.09	
	12	10.62		1.23	
	14	10.35		1.36	
	16	10.24	``	1,47	
	18	10,14 .		1.57	
	20	10.05		1.66	
	2.2	9.97		1.74	
		II-66 Test	- /		1

William A Kaisim

Well No. 9B

Date 3/4/83. Location Chiquita Blvd.

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No Description

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Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet	Pumping Rate
	2.4	9.89		- 1.82	
	26	9.817	,	1,90	
	28	_9.74	/	1.97	
	30	9.67	777	2.04	<u> </u>
	33	9.58		2.13	- <u></u>
	36	9.49		2.22	
<u>.</u>	40	9.38		2,33	
·	45	9,25		2.46	
	50	9.14		2.57	*
	55	9.04		2.67	
	40 (1:05) 65	8,95		2.76	
		8.87		2.84	
	70 20 20 21 20	8.78		2.93	
		<u></u>	67,	3.05	<u> </u>
	90	8.55		3.16	
	$90^{(130)}$	8.46		3.25	······
		8.31		3,40	
	120 ^(2:20) 140	8.20		3.51	
	· · · · · · · · · · · · · · · · · · ·				··
<u>_</u>					<u></u> _
					·
					<u> </u>
	•				·····
					<u></u>
		Test 1	I-67		2

AQUITER TEST Draw down

<u>Ro-7</u> Well No.

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Date 3/11/92 Location Cape Coral

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Meas. Point

Clock Timé	Elapsed Time(Min.)	Correction-add & At.	Water Level	Drawdown in Feet	Pumping Rate	
1115	0	11.97	1	1		
155	0	3.97	11.97	<u>}</u>	······	
ļ	15	3.97	(
	30	3.97			·	
ļ	4-	3.97		†		
	1	3.90				
	1/2	3.97				
	2	3,97				
· · · · ·	2/2	3.97			·	
	3	3,99				
	3/2	3.97				
	_ +	3.97				
	4/2	3.97				
	7	3.97				
	6	3.97				
	_2	3.97				
	8	3.97				
		3.97				
	18	3,97				
	12	3,77			·	
	12	3.97				
	16	3.97				
		3.97				
	20	8.97	11.97		·	
		Test 2		_ _ _	1	

Well No. <u>R0-7</u>

Date <u>3/11/83</u> Location _____

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Meas. Point _____

Clock Time	Elapsed Time(Min.)	Correction-odd &ff.	Water Level	Drawdown in Feet	Pumping Rate
	22	3,97	11.97		
	24	3,97	/		
	26	3.97			
	28	3.97			
230	30	3.97			· ·
	33	3.90			-····
	36	3.99			
	70	3.97			·······
	1 45	3,97		·····	
	50	3.97			
	57	3,97			·
302	60	3.97	11.97	0	· · · · · · · · · · · · · · · · · · ·
		3.96	11.96	,01	<u></u>
	1	3,96	11.96	,01	·····
		3,9 -	11.95	,02	·
		3.92	11.92	,05	
					<u> </u>
					······································
	•				
		II-69 Test			

Drawdown

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Sector 1

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Date 3/11/83. Location Cipe Coral

<u>_______</u> Well No. Meas. Point

СТ	lock imé	Elapsed Time(Min.)		Water Level	Uncorrected Drawdown in Feet	Pumping Rate
1	159	Ò	12.70			<u> </u>
2.	08	0	12.70			
ĺ		1/4	(
		1/2				
		1/4				· · · · ·
		<u> </u>	<u> </u>			
<u>ال</u>		11/2	<u> </u>			······································
		Z				
3		2'/z		,		<u> </u>
·		3	i			· <u> </u>
		31/2				— <u>.</u>
ار		4	•			
.		_41/z	· · · · · · · · · · · · · · · · · · ·			
		5	<u> </u>			
,		6	<u>}</u>			
ļ		7	12.70			· · · · · · · · · · · · · · · · · · ·
 		R	12.69			— · —
ļ		9	<u>(</u>			
ļ		10				
		IE				
		12				
		16				
117		18	<u>ζ</u>			
181	46	10	12.69	≠ <u>±</u> -70	.01	

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Date <u>3/11/83</u> Location

Well No. <u>PO-8</u>

		r	T		······································	
	Clock Timé	Elapsed Time(Min.)	-	Water Level	Drawdown in Feet	Pumpin Rate
o		22	12.68		02	1
00		24 7	12,63			
8		26:43	12.68			
		28 (11)	12.67		,03	
ઝ ∟	·	30 (13)	12.67			
ğ 🗕		33 .	12,67			
2	Ì	36	12.67			
14KIED (1002	·	46	12,66		.04	
×		z = (~;;)	12.65		.05	
		50 13	12,61		,06	
ļ		55 ;	12.64			
;		60 1	12.64	ļ		·
		65	12.63	<u></u>	107	······
	<u> </u>	76	12.61	<u> </u>	.09	
		80 17	12.60	<u> </u>	,10	
	4	96 (7-	12,57	┟	,13	
and the second sec			12.54	<u> </u>	.16	·
ŝ		120 -1-		ļ	,18	
		1. 1. 1	12.51		.19	· ····································
		160	12.47		, 23	
	-+	<u> </u>	H			<u> </u>
	<u> </u>	·				
L			t	rı		
			Teste			2

Drawdown

Pumped Well No. <u>RO-9</u> Well No.

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And Contraction

Date 3/11/83 Location Cape Cord

r	Г	· · · · · · · · · · · · · · · · · · ·			
Clock Time	Elapsed Time(Min.)		Water Level	Drawdown in Feet Static +11.09	Pumping Rate
1220	0	+11.13			
1345	0	+ 11.09	+11.09		
	1.4	30 - 2.07	27.93	39.02	
	2.	30-1.58	28.42	39.51	
	2.5	30-1.45	28.45	3954	
*	Э.	30 - 1.36	28.64	39.73	# AQUIST Q.
	4	30-2.70	27.30	38.39	11 11
k	5.	25.74	25.74	36.83	11 K
	6.	25.17	25.17	26.26	ji rt
	7	25-,33	24.67	35.76	900 gpm
	8.	2525	24.75	35.84	
	9.	2507	24.93	36.02	· · · · · · · · · · · · · · · · · · ·
	10	25.12	25.12	36.21	
	12	25.46	25.46	36.35	
	14	26.10		37,19	* <u></u>
	16	26,50		37.59	· · · · ·
	18	26.76		37.85	
	20	27.03		38.12	
	22	27.23		38.32	
	24	27.43		38.52	
	26	37.60		38.69	
	28.	27.76		38.85	
	• 30	30-1.97	28.03	39.12	
	33	30-1.55	28.45	39.54	
		II-7 م سبب	2		······································

Test 2

Date <u>3/11/83</u>. Location

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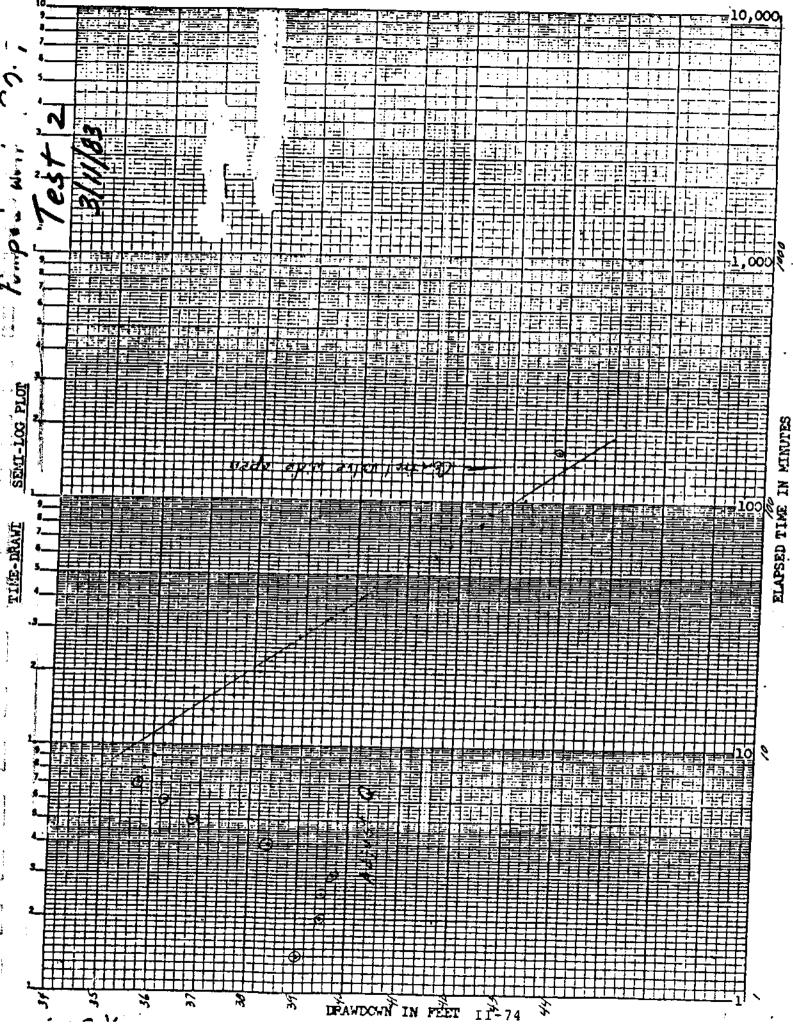
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Well No. <u>RO-9</u>

	____			*. •	
Clock Timé	Elapsed Time(Min.)		Water Level	Drawdown in Feet	Pumping Rate
	36	30 -1.36	28.64	. 39.73	
	<u>+0</u>	30-1.01	28.99	40.08	53" 896
	45	30 - 0.76	29.24	\$ 0.33	
	50	30-047	29.53	40.62	
	55	30-0.09	29.91	41.00	
3 pm	60	30.44		41.53	
	66	30:72-		41.81	
	71	30.85		41.94	
	80	31.11		42.20	
332	90	31.45		42.54	<u> </u>
	102	32.12		43.21	†
494	120	32.59		43.68	
	142	32.91		44.00	50.5" 876g
	162	32.80		43.89	Value wite open-no
·					further adjust. evailable
			++		
			<u> </u>	<u> </u>	(
			<u> </u>		
	·				
		II-73_			
		II-73 Tect	2_		2



Drawdown Well No.

94

Date 03-11-93. Location CHIQUITA PRWY CAPE WAR Meas. Point

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AQUIFER TEST

	<u> </u>				
Clock Timé /348	Elapsed Time(Min.) <i>O</i>	(ABOVE MP)1	(6: pp) Water Level + 11.10	Drawdown in Feet	Pumping Rate
1404	Ö		+ 11.00'	0	
	0.25-		+ 6.70	4.30'	
	0.5		4 6.49	4.52'	
	0.75		L 5.09	5.92'	
	1.0		4.52	6.98'	
 	1.5		+ Z.35	8.15'	
	2.0		+ 2.33	8.77'	
	Z.5-		+ 1.71	9.29'	
	3.0	· · · · · · · · · · · · · · · · · · ·	- 1.30	9.70'	
	3.5		- 0.75	10.04'	
	4.0		1 0.74	10.23'	
	4.5	·	10.51	10.36'	
	- 5		+ 0.56	10.44'	
	6		+ 0.31	10.69!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7	ABOVE MPY	+ 0,16	10.84'	· 7. ·
	8	BELOW MP	-0.02	11.02'	
	9		0.39	. 11. 39 '	
	10		0.63	11.63'	900
	12		1.07	12.04	900
	14		1.41	12.41'	700
	16	2.00-0.34	1.66	12.66	9:00
	18	3.00-1.03	1.97'	12.97	900
	20	3.00 - 0.76'	2.24	13.24'	900
	22_	3.00-0.50	2.50'	13.50'	900
		Tat I	I-75		······································

Test 2

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	D	ate	03-11-03		·				Well No	•	94,
Í	\overline{P}			LOC	ation <u>CHIQUITH AC</u>	wr.	CAPE COL	<u>Ac_</u> '	Meas. P		
	/ [·····		<u></u> -	T		* ******				
ï	Cic Tin	ock 1é	Elapse Time(Mi	ed n.)			Wate		Drawdo	wn	Pumping
			······································		(BOLOW MP)		Level (Below m		in Feet	t	Rate,
ě			24		3.00-0.27		2.73		13.73'		GPM.
			26		4.00'-1.07	·	2.93'		/3.73'		<u>900</u>
	¦		28		4.00'-0.88	·	3.12'		4.12'		- Juc
	 		30		4.00'-0.70'		3.30'	-+	/4.30'		<u> 100</u>
and in the second second			33		4.00'-0.38'		3.62'				900
			36		5.00'-1.13'		3.87	, - -	14:52'		700
		<u> </u>	40		5.00'-0.83'	-+	<u> </u>		14.37		900
			45	1	5.00'-0.50'				15.17		900
			50		6.00'-1.21'		4.50'		:5.50		_ 200
			55-		6.00'-0.90'		4. 79'.		15.79		<u>ba</u>
		T	60				5.10'		16.10'		900
Í			65		6.00'-0.61'		5.39'		16.391		900
	··	\uparrow	70	-+	6.00'-0.37'		5.33		16.63'		900
· [+	80		7.00'-1.17'	- 1	<u>5.83</u>	<u> </u>	16.83'		900
		1	90 90	╉┯	7.00'- 0.81'		6.19'		17.19'		900
		┼──	······		7.00'- 0.51'	16	5,49'		17.491	Γ	900
			100		8.00'- 1.14'	6	. 26'		7.86'	1	700
E	7	 -	120	+	8.00'-0.63'	17	z. 37'		8.37'	1-	900
			140	╂	9.00'-1.30'	7	70'		3.70'	+	896
	645		160	┨	9.00 - 1.00'	í			7. 00'	(o.2)	5-11
	705		130	 	9.00 - 0.74'	1	.26'		1.26	†	<u>874</u>
Ľ	725		200	· ·			<u> </u>				
		2	.30					·			
; 			260								
· [ź	290			·	·		·		<u> </u>
i					11-76					-	

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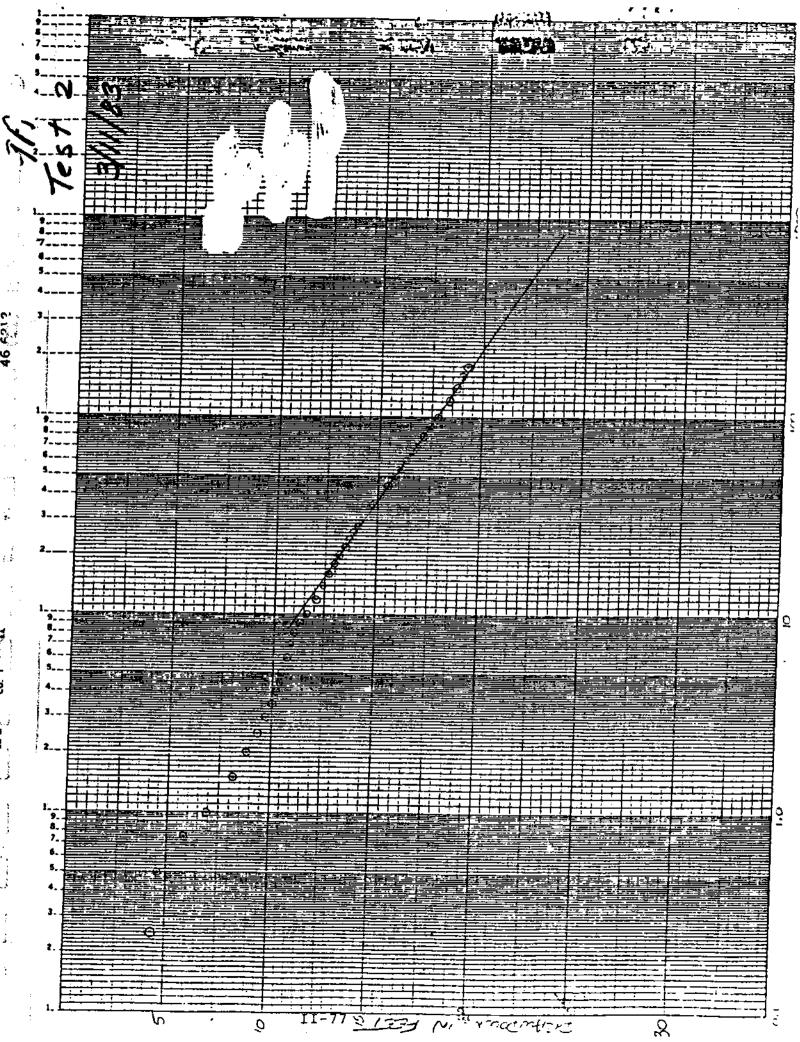
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Test 2



AQUIFER TEST

Draw down

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Date	3/11/
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183 Location <u>Ape Coral</u>

Meas. Point

lock	Flanced			Uncorrected	
ime	Elapsed Time(Min.)		Water Level	Drawdown in Feet	Pumping Rate
202	0	11.08			·
51	0	11.03		· · ·	
04		11.02			
	4	11.00		.02	
	12 34	10.96		.06	
	3/4	10.95		.07	
	- 1	10.92		,10	
	12	10.85		.17	
	2	10.79		,23	
	a 12	10.70		,32	
	3	10.63		,39	
	32	10 55		.47	
	<i></i>	10 49		,53	
	4 ±	10.43		,59	
	5	10.37		.65	·
	6-	10.27		.75	
	7	10.19		,83	
	В	10.11		.91	
		10.04		,98	
	10	9.98		1.04	
	14	9.87		1.15	
	14 .	9.17		1.25	
	16 .	9.67	_	1.35	· · · · · · · · · · · · · · · · · · ·
	18	9.59	est 2	1.43	-

AQUIFER TEST ÷

<u>IB</u>

Date <u>3/11/83</u> Location

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Well No.

Meas. Point

Clock Time	Elapsed Time(Min.)	· ·	Water Level	Drawdown in Feet	Pumping Rate
	20	9.50		1.52	
	22	943		1.59	······································
	24	9.37		1.65	
	26	9.29		1.13	
	28	9.24		1.78	
	30	9.19		1,83	<u> </u>
	33	9.10		1.92	
	3 6	9.03		1.99	
	40	8.94		2.08	
	75	8.83		2.19	
	50	8.73		2.29	
	55	8.64		2.38	
	60	6.55		2.47	
	65	8.48		2.54	
	70	839		2.63	
	80	8.25		2.77	
	9 0	3.14		2.88	······································
	100	8.01		3.01	
	120	7.83		3,19	
	140	7.67		3.35	
	160	7.55		3.47	
	<u> </u>				<u> </u>

AQUIFER TEST

Recovery

Well No. 98

Date <u>3/11/03</u> Location

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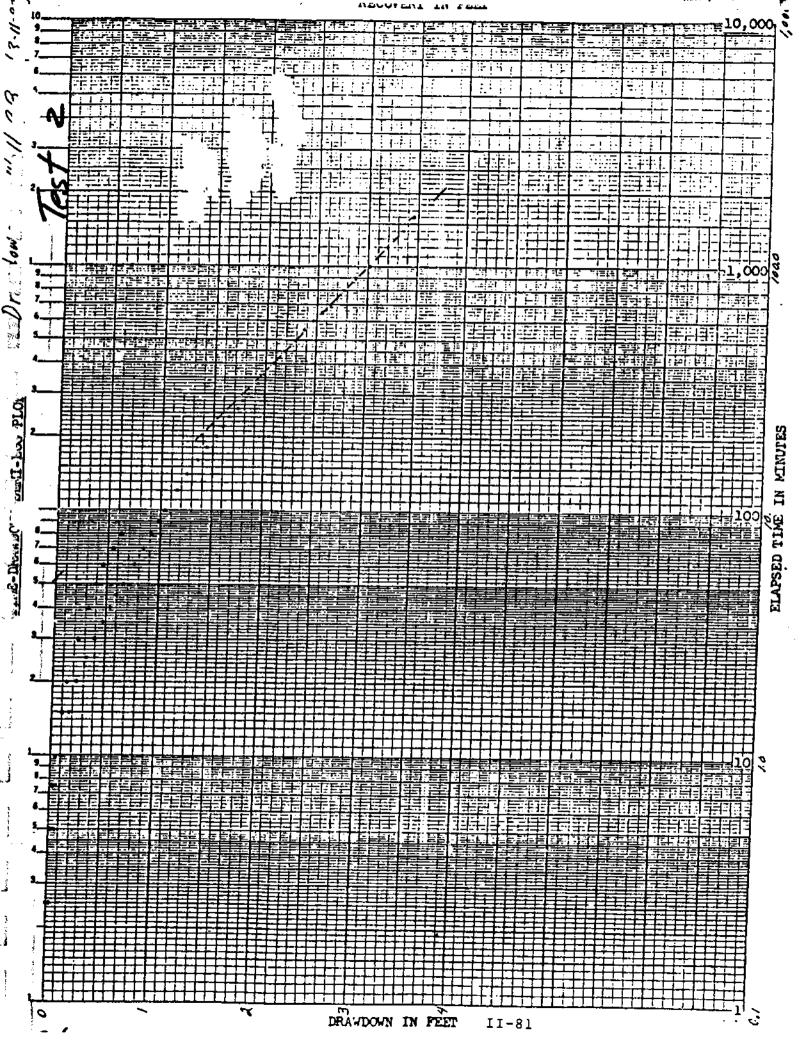
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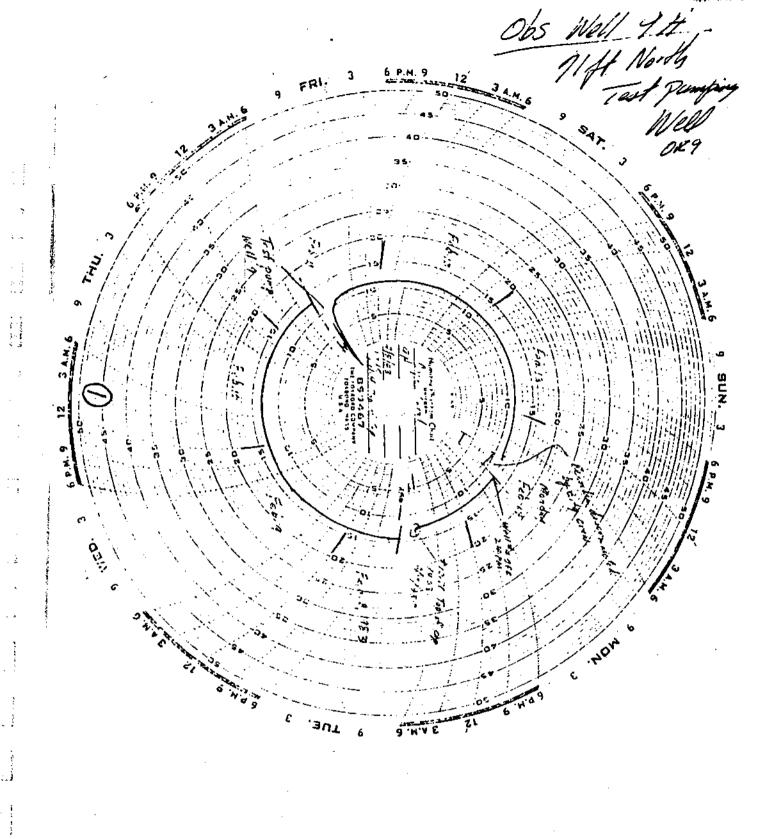
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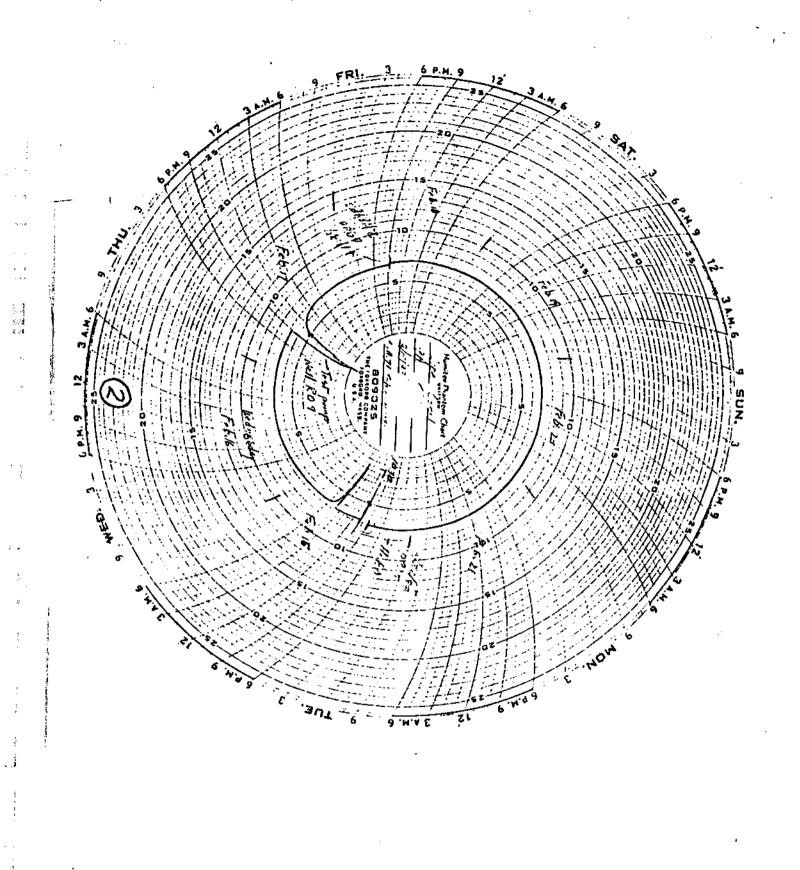
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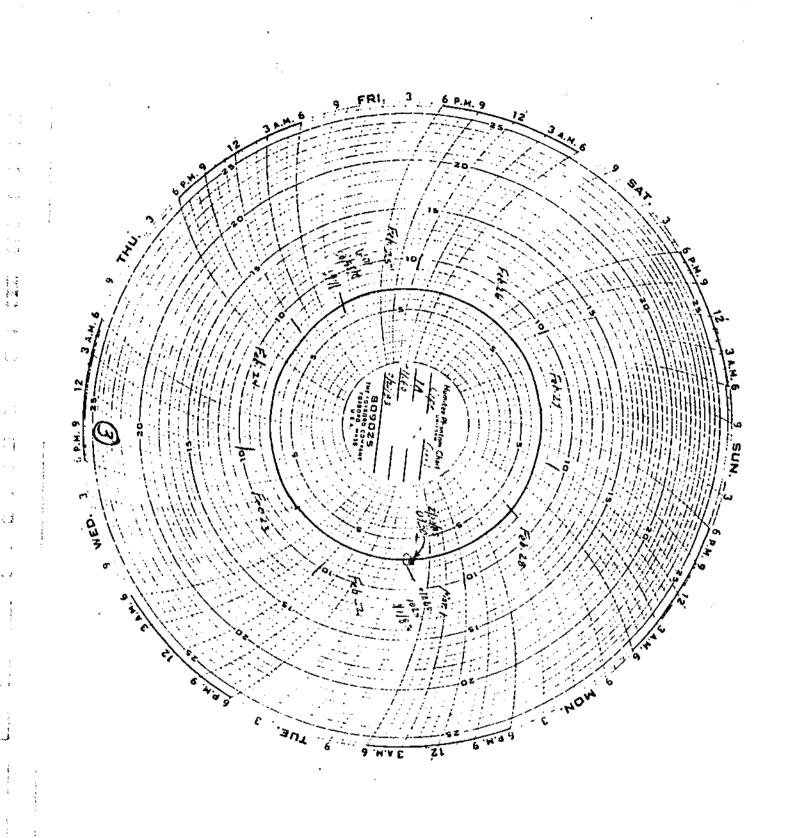
Meas. Point _____

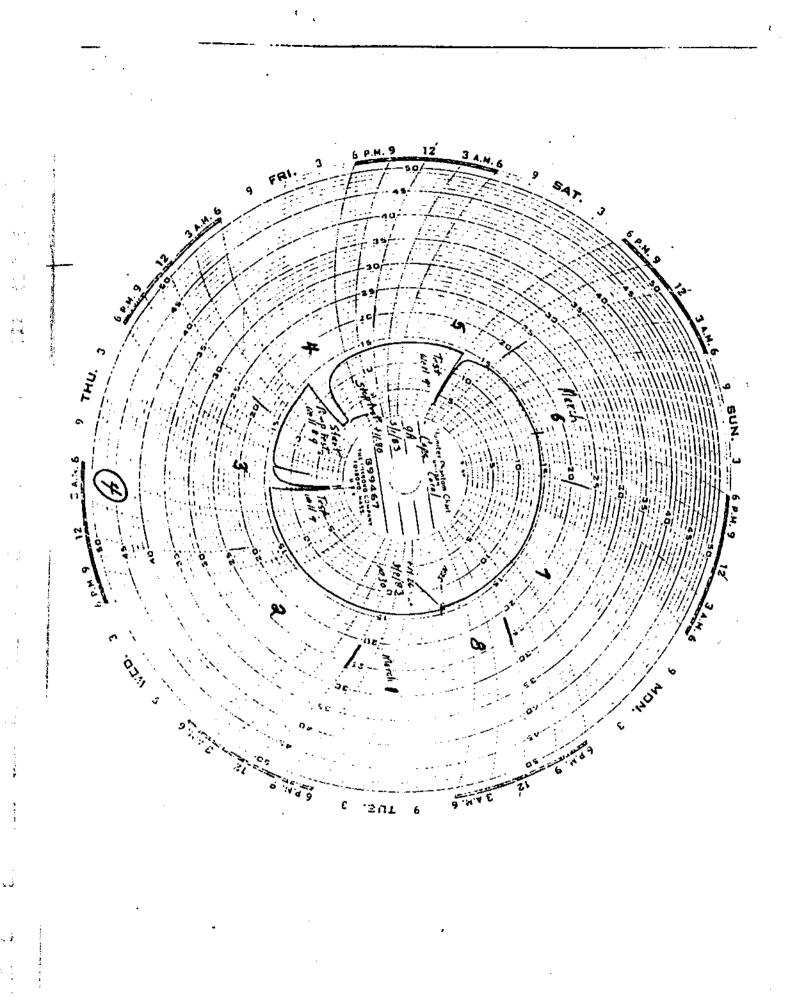
Clock Time	Elapsed Time(Min.)		Water Level	Recovery Drawdown in Feet	Pumpir Rate
	0	7.37			
	2	7.39		.0.2	· · · · · · · · · · · · · · · · · · ·
	30501.	7.40		,03	
	45 Sec .	7.41		.04	
	/	7.42		,05	
	1.5	7.47		.10	
	2	7.50		.13	
	3	7.60		.23	
	. 4	7:69		.32	
	5	7.76		.39	
	6	7.84		.47	
	1	7.92		,55	
	3	7.99		,62	
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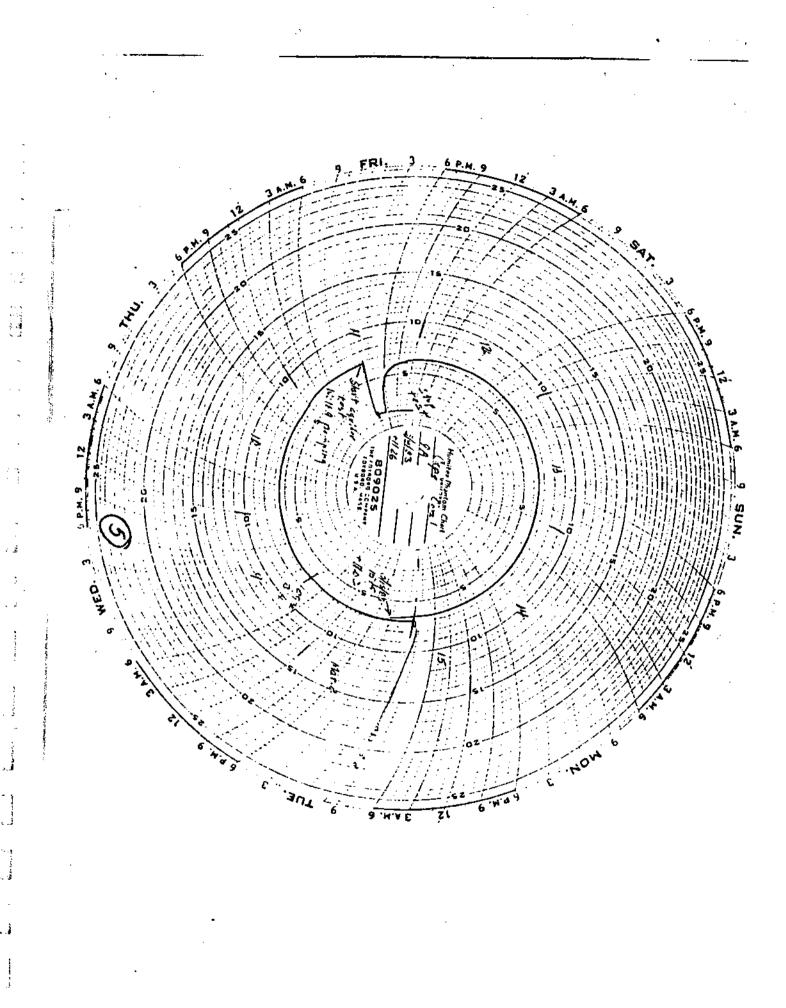


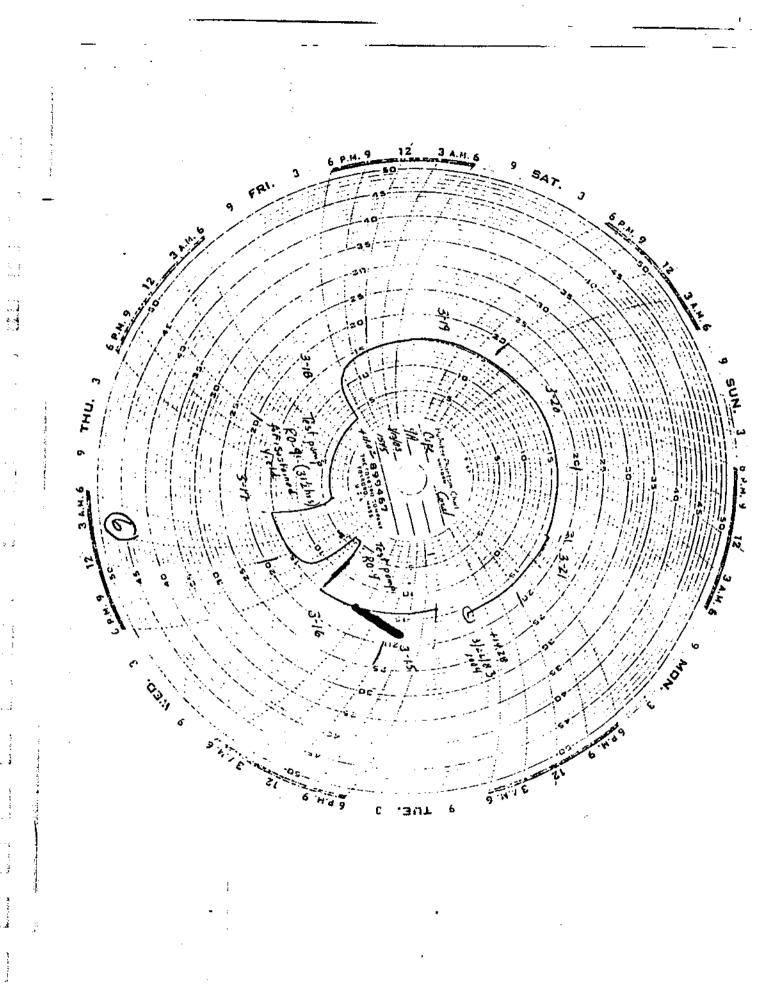


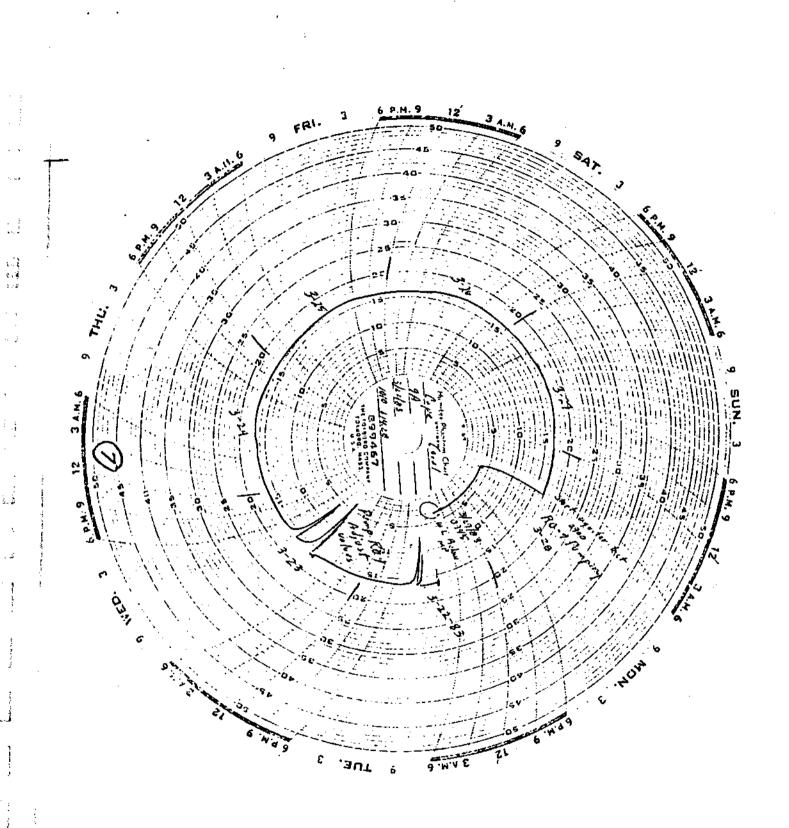


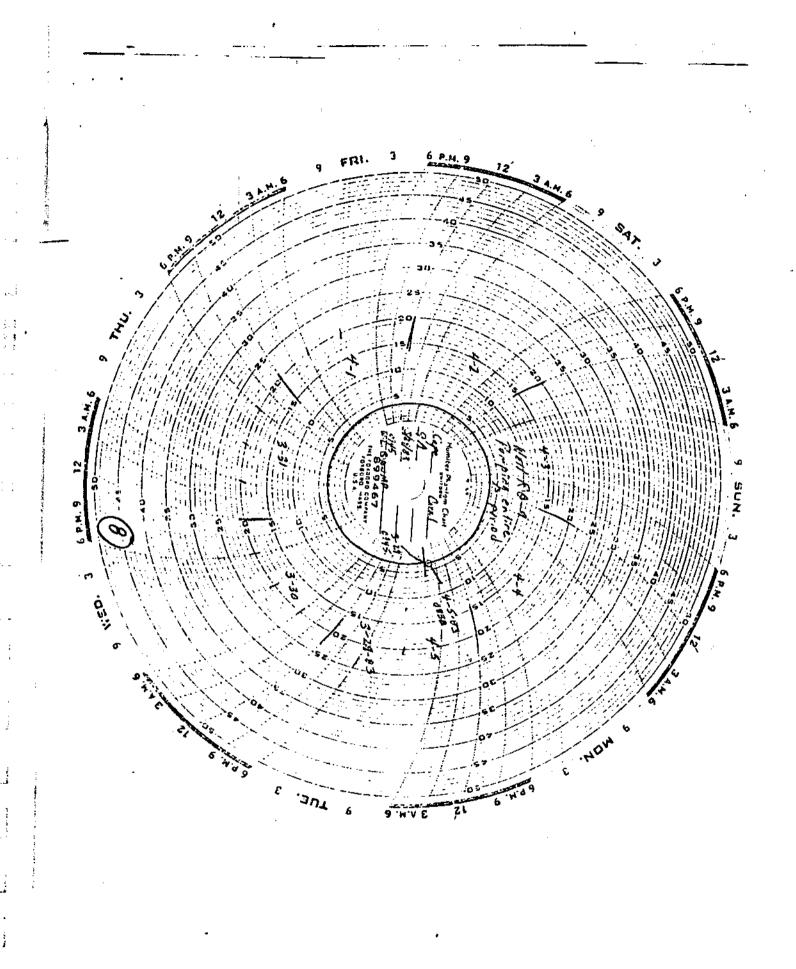


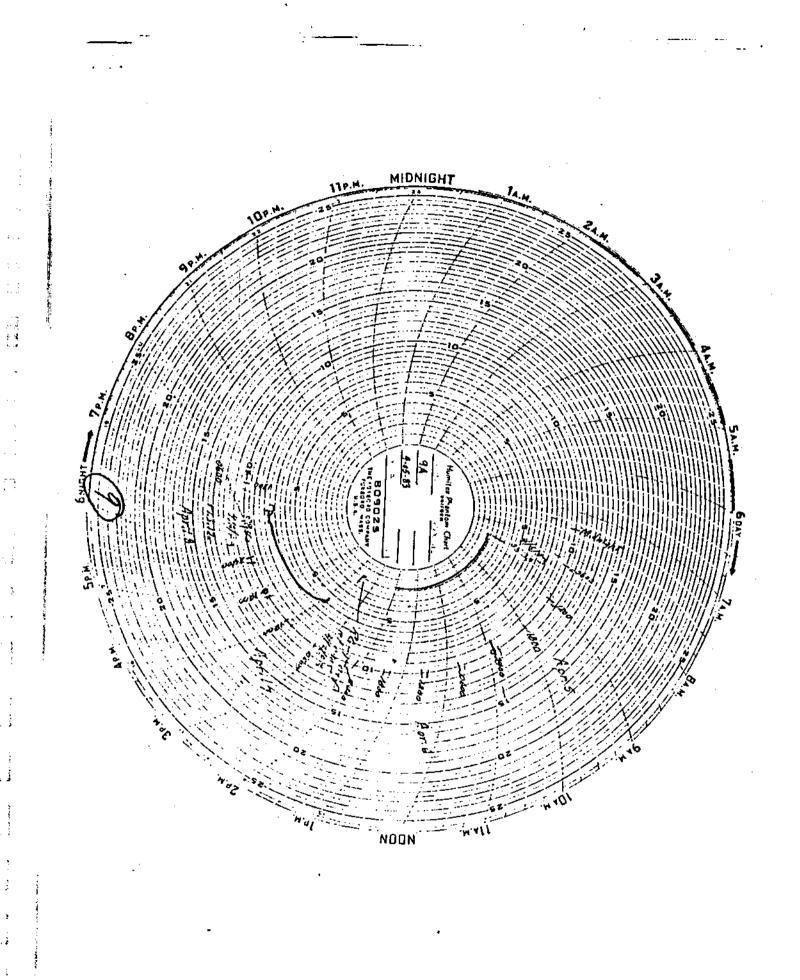


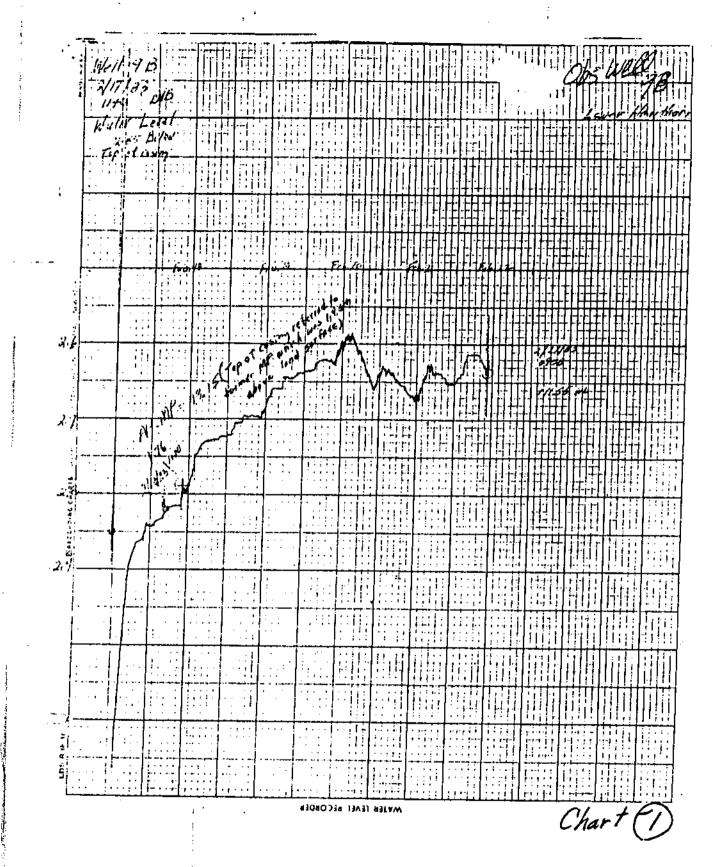












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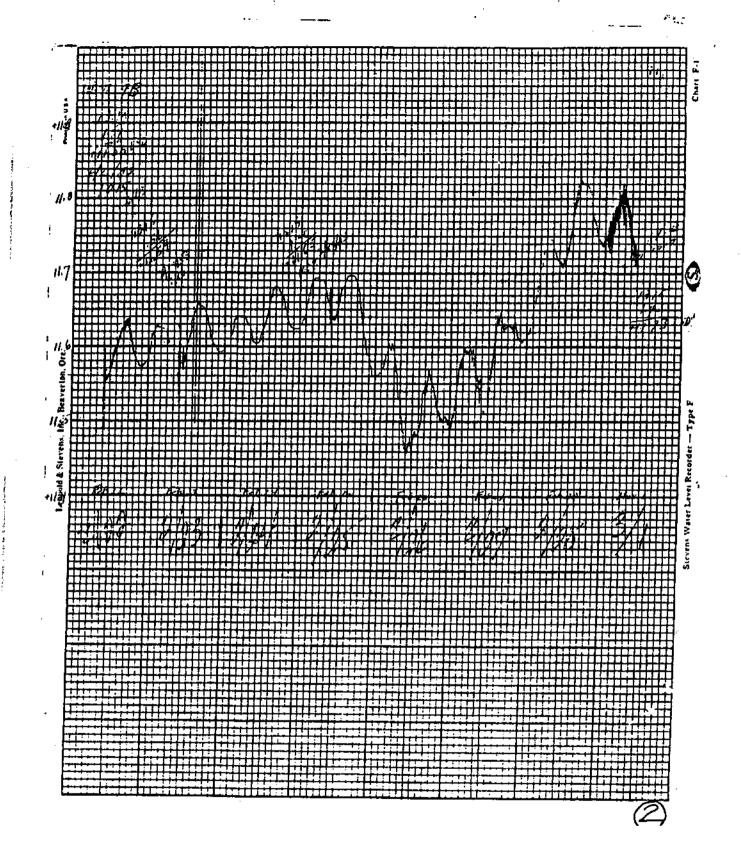
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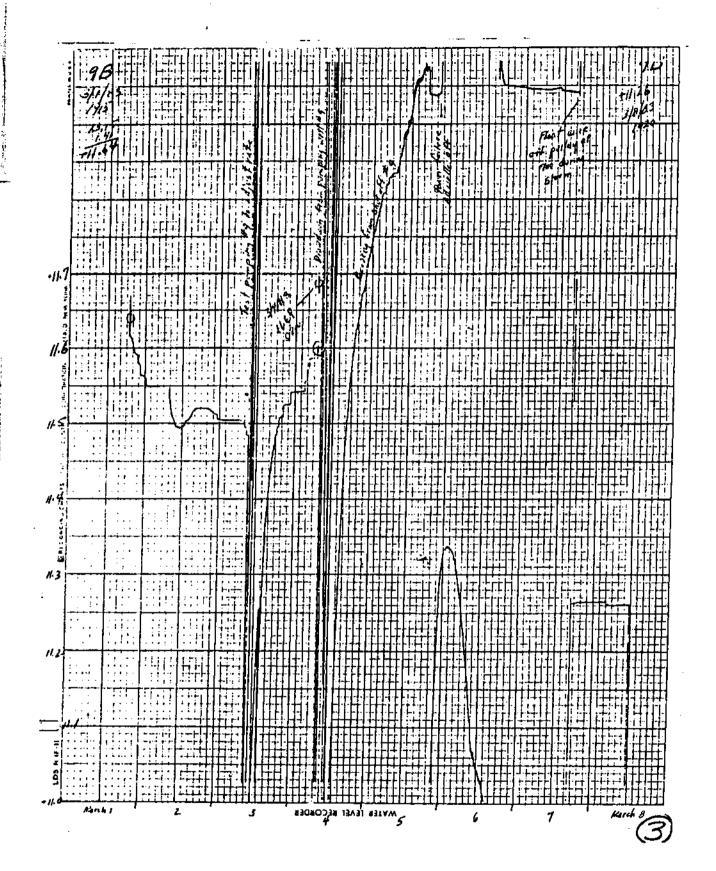
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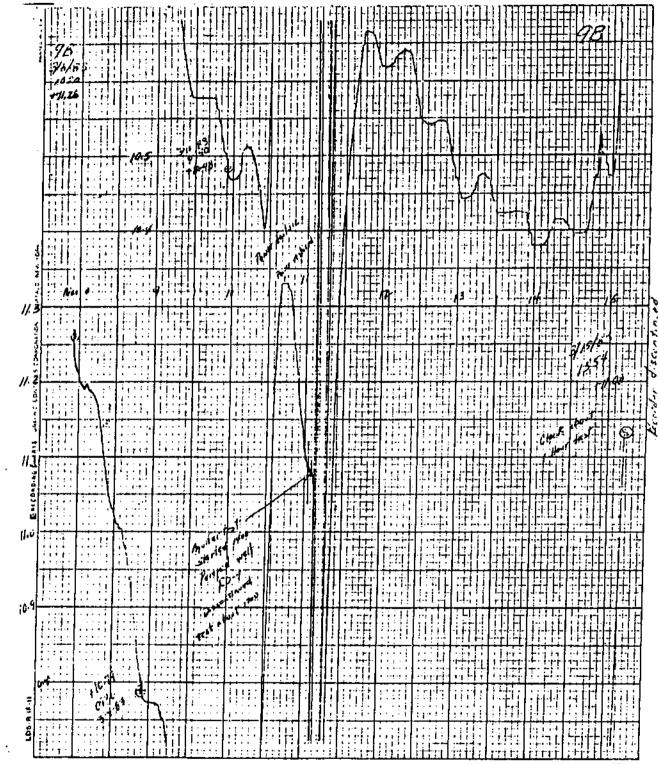


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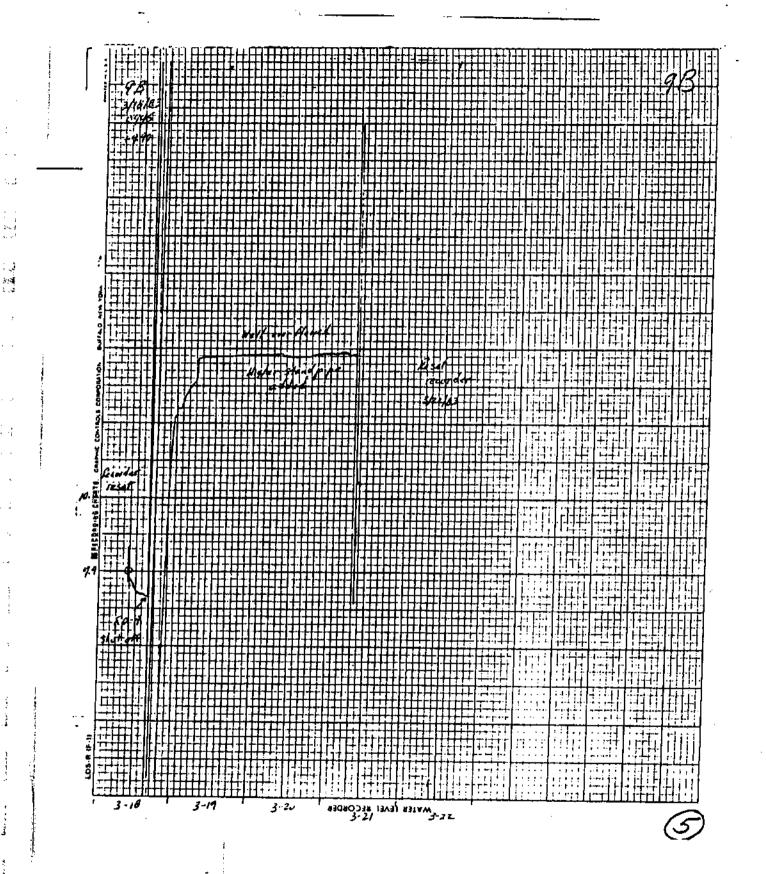
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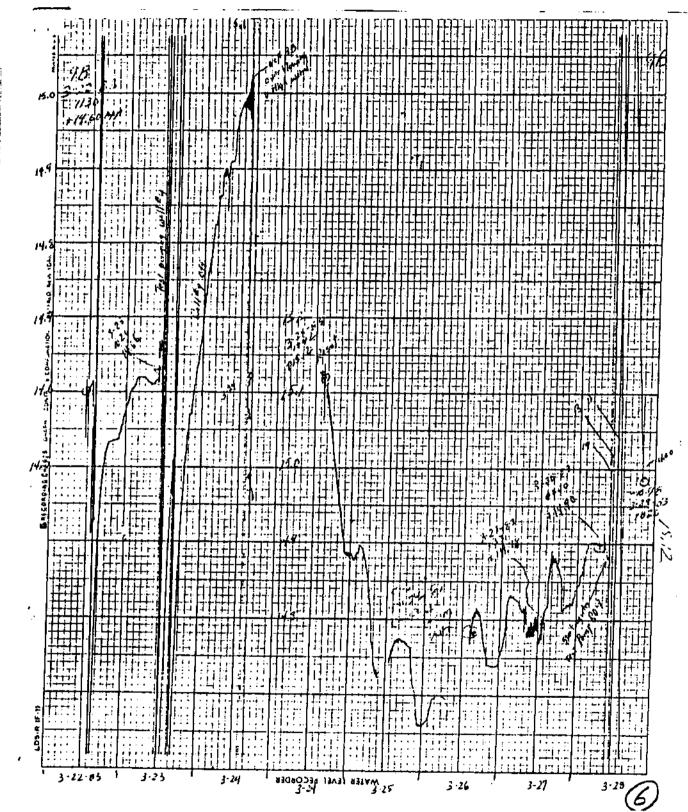
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WATER LEVEL RECORDER



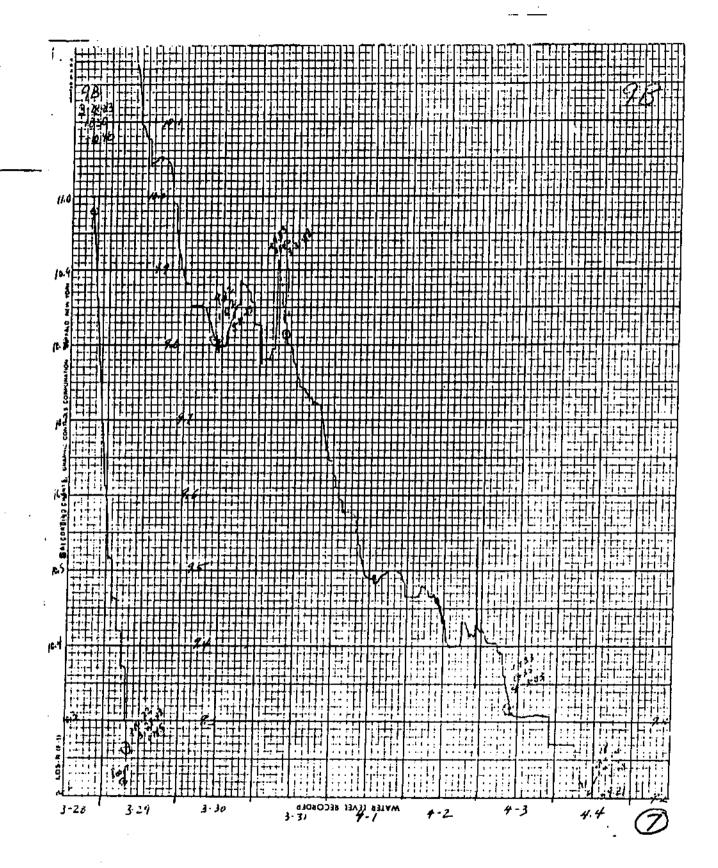


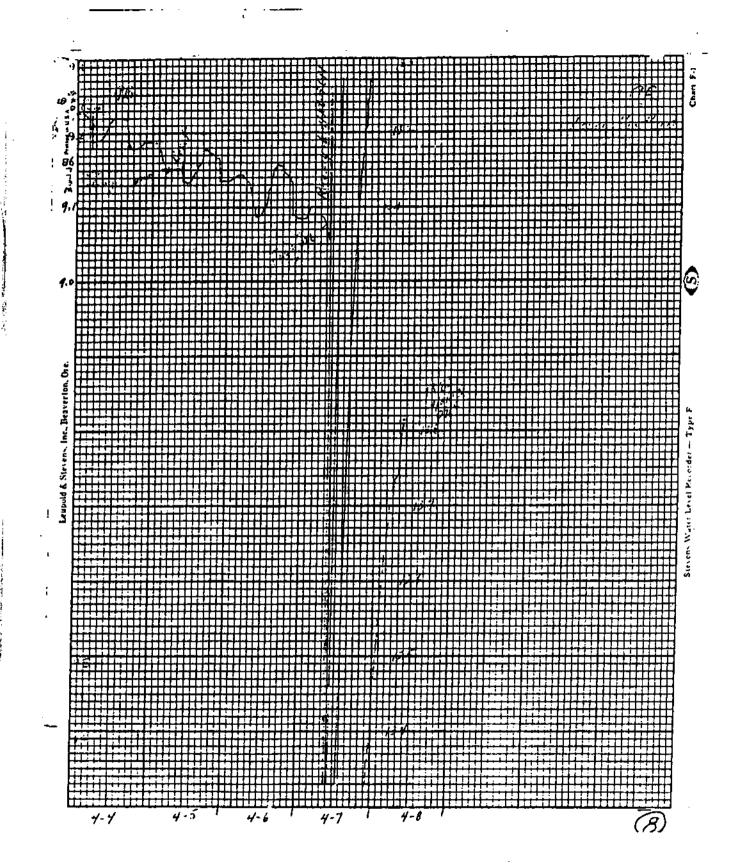
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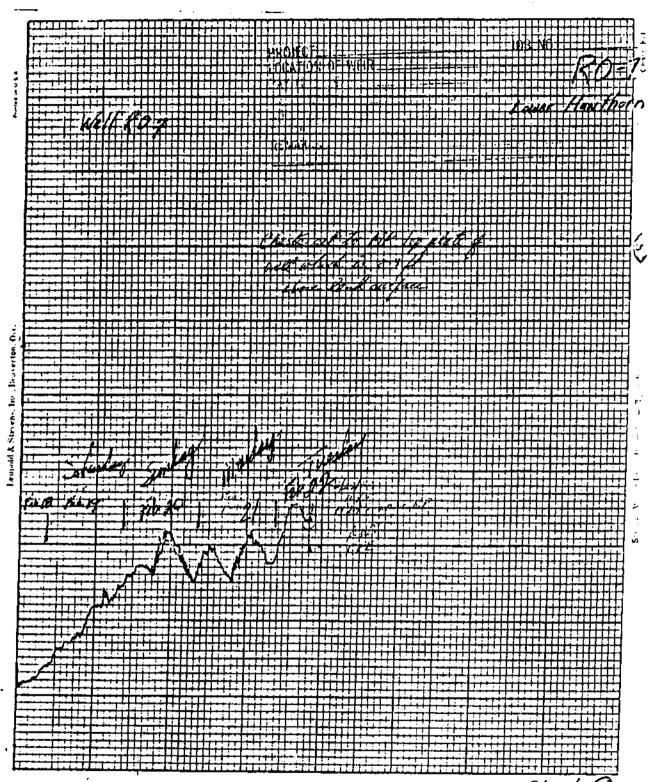




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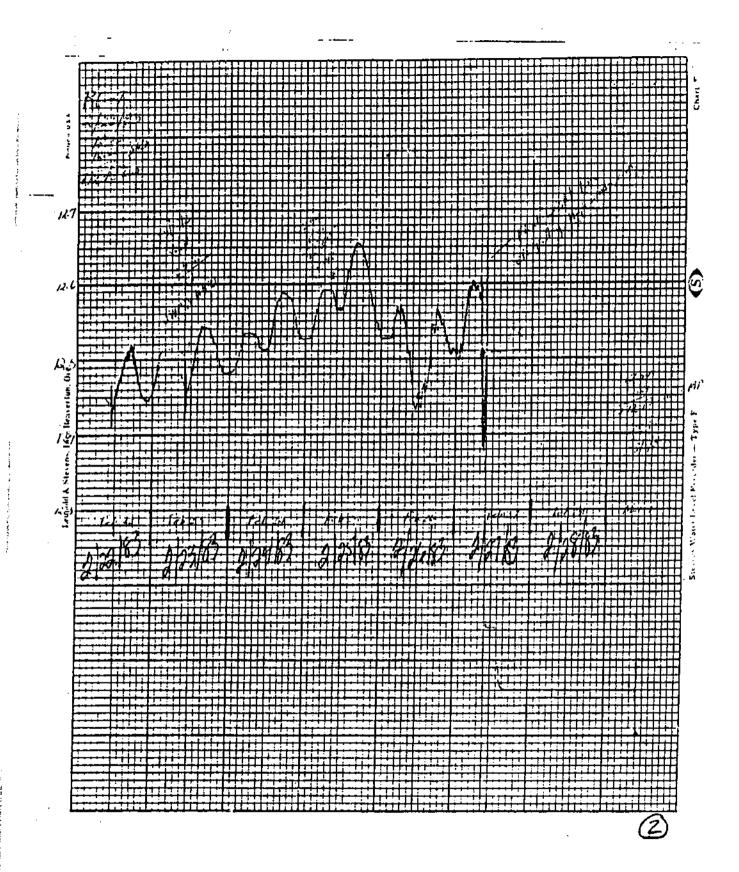
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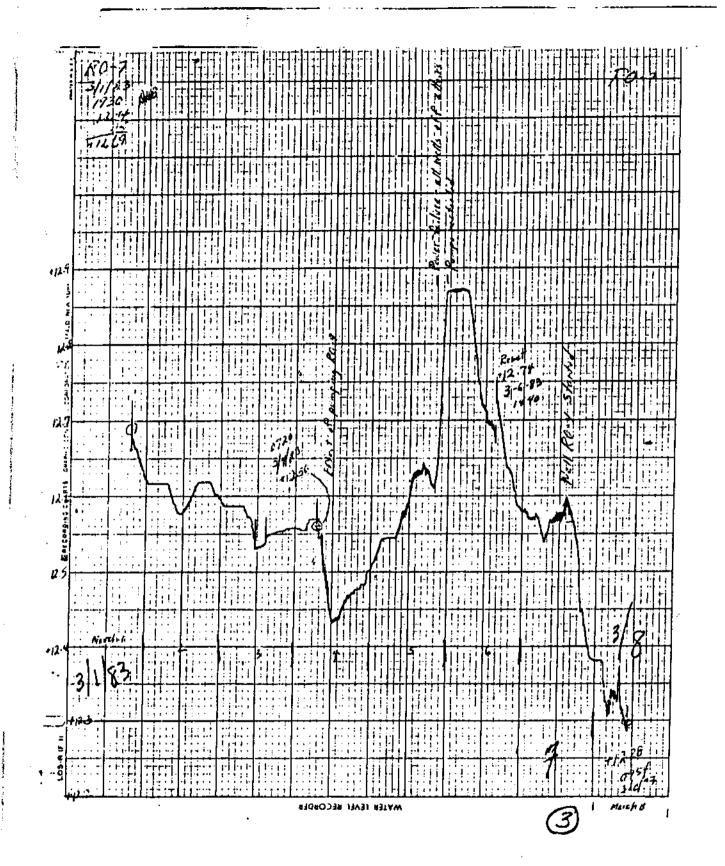


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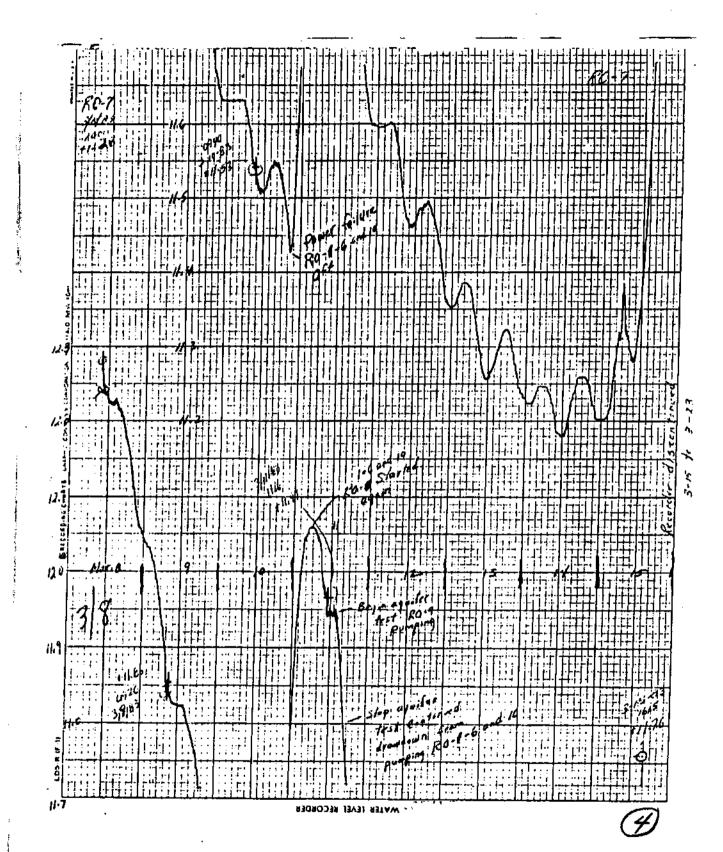
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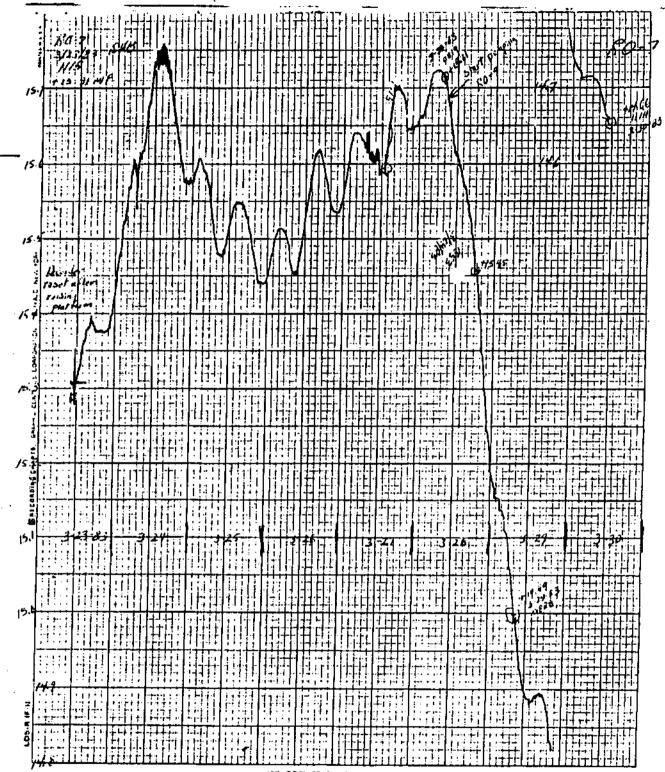


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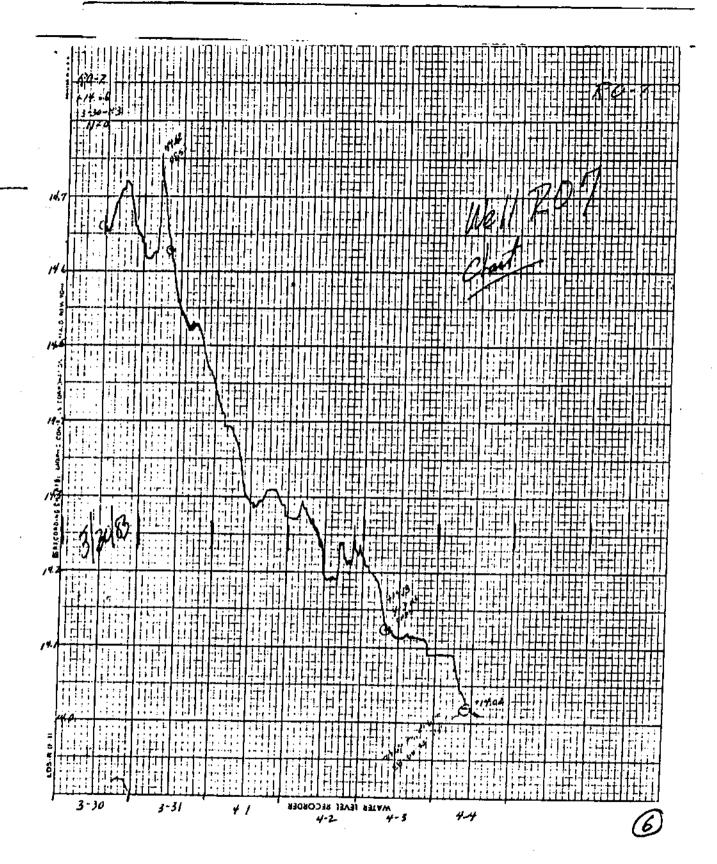


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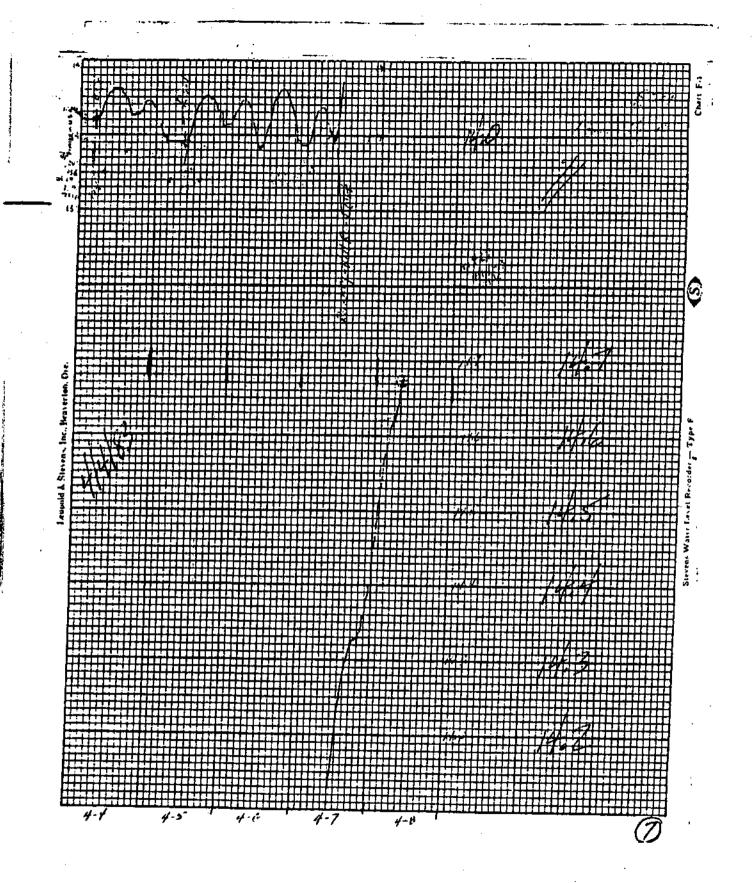
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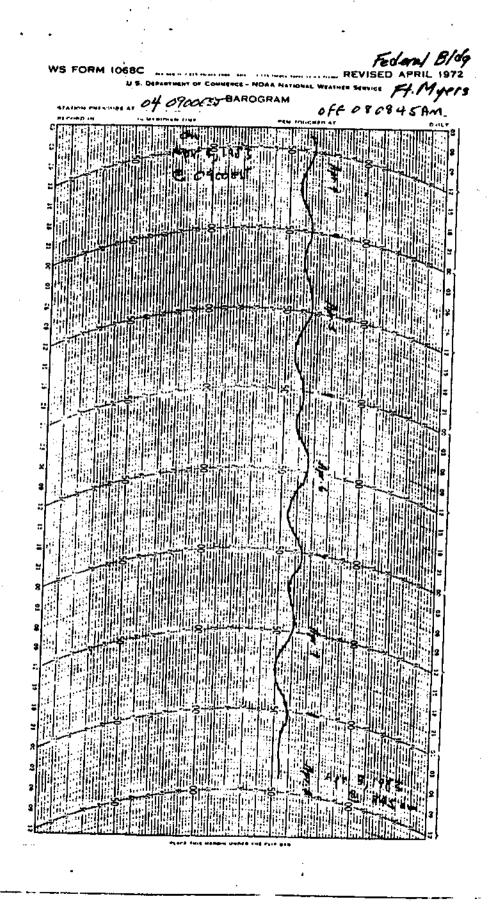
WATER LEVEL RECORDER

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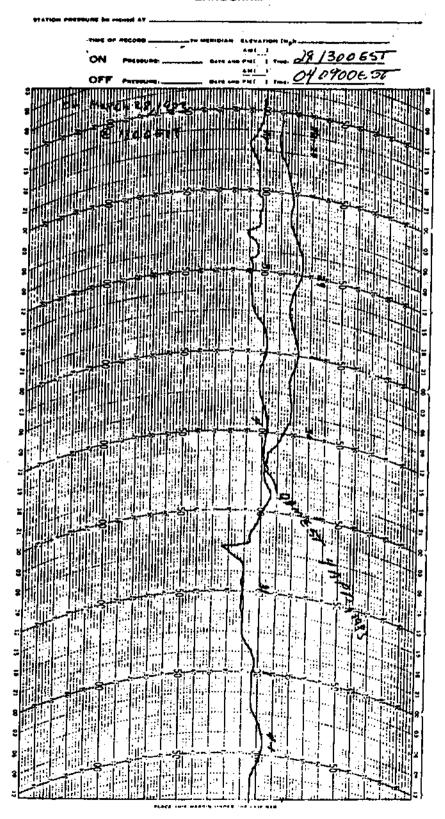




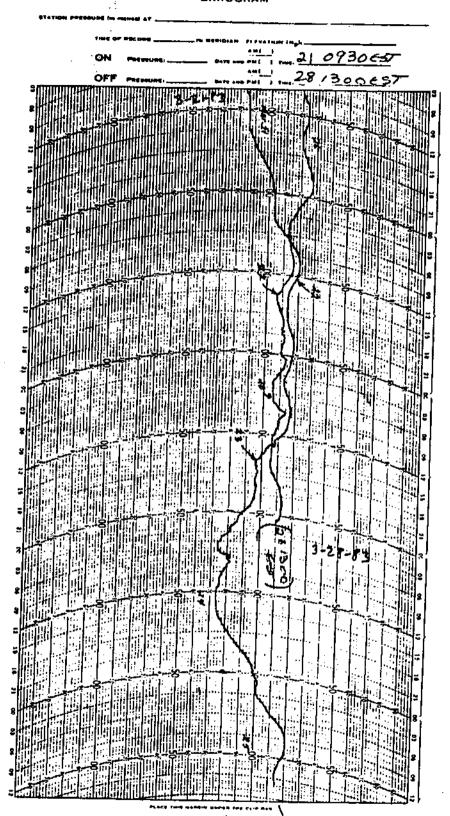


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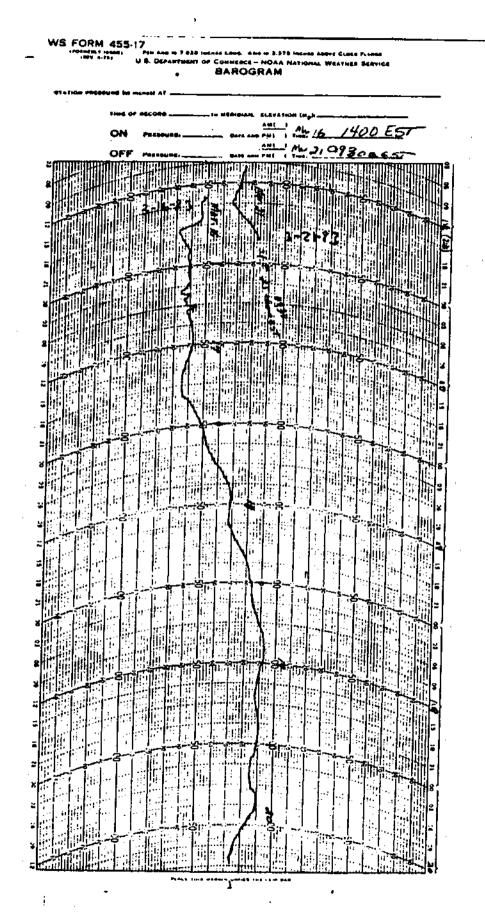
記録 新書 (HEY 4.7) DIE 446 IN 7.632 INCREASE ALL INC. 2.375 INCLUSE ALBORE CLEWE FLIPSE (HEY 4.7) U.S. DEPARTMENT OF COMMENCE - MOAA NATIONAL WEATHER SERVICE BAROGRAM





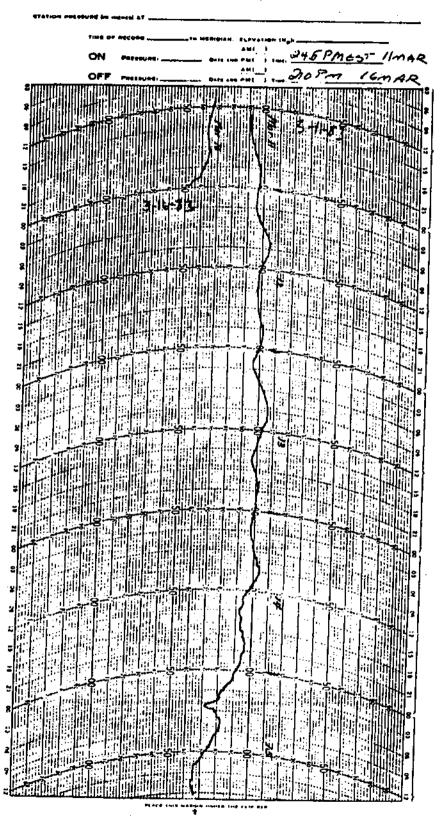


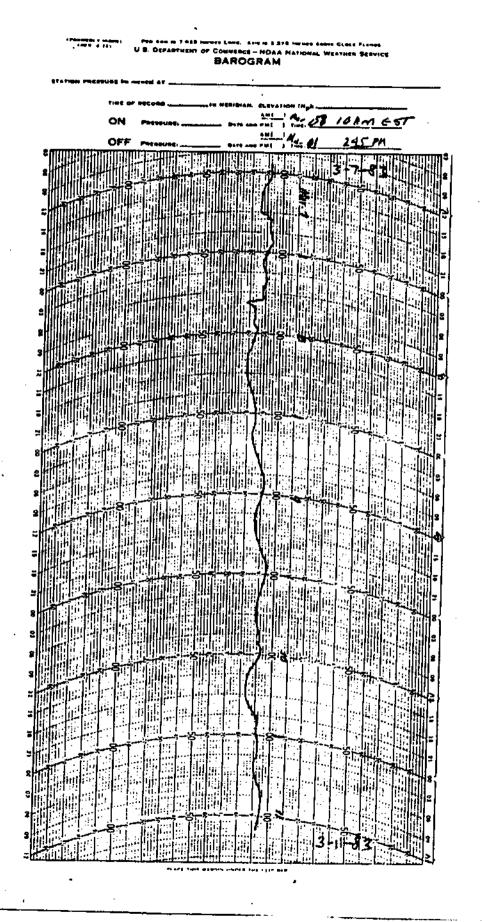
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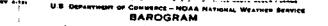


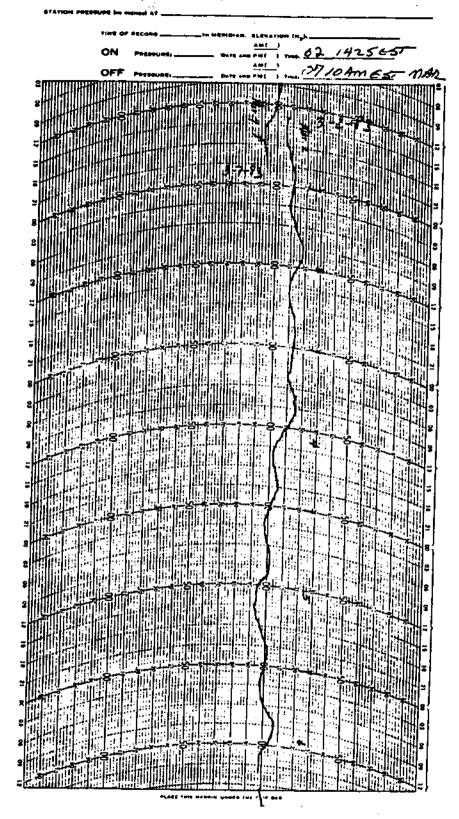


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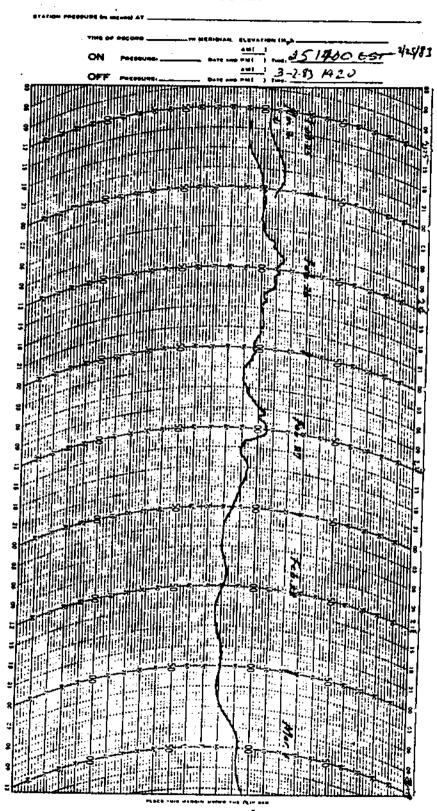




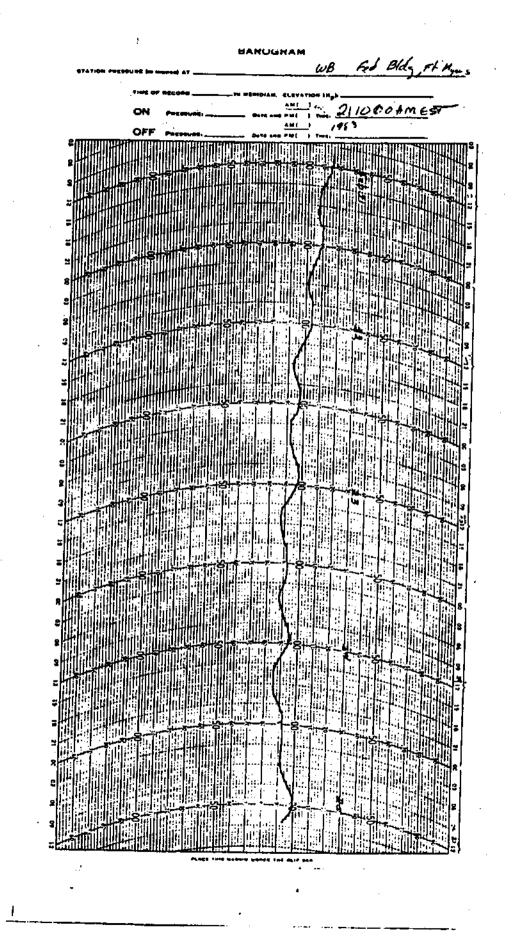


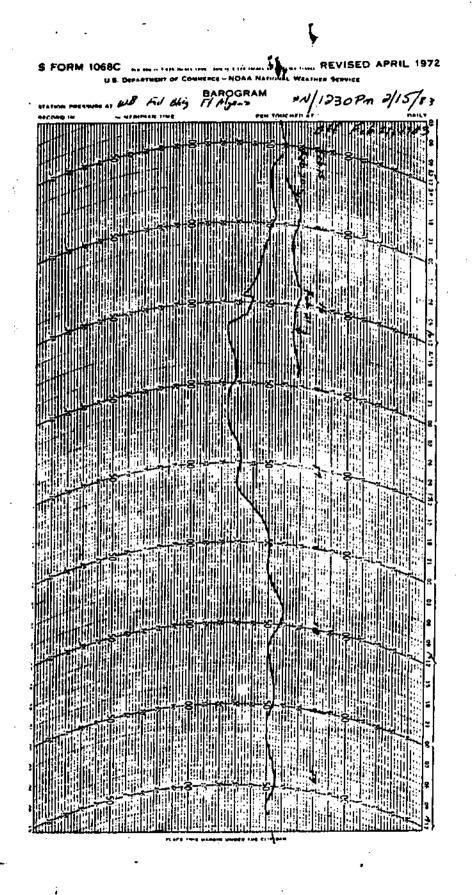
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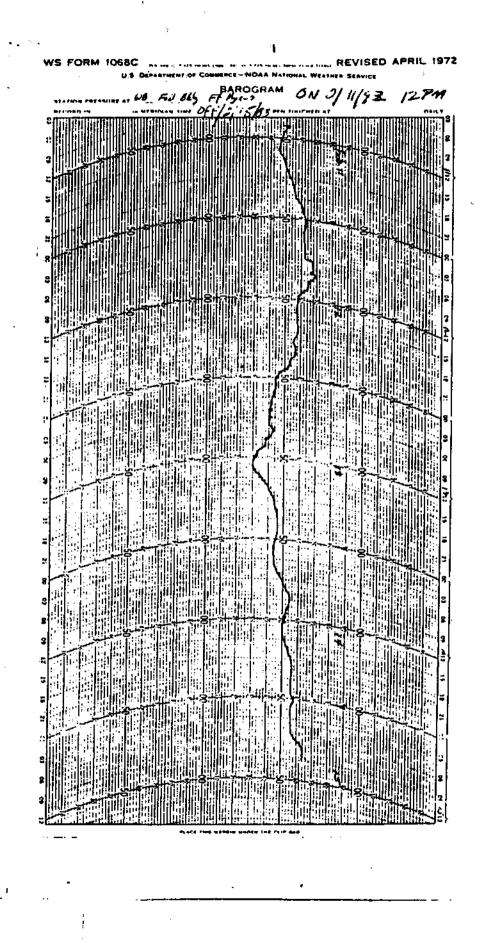
U.S. DEPARTMENT OF COMMERCE - NOAA NATIONAL WEATHER BERVICE BAROGRAM

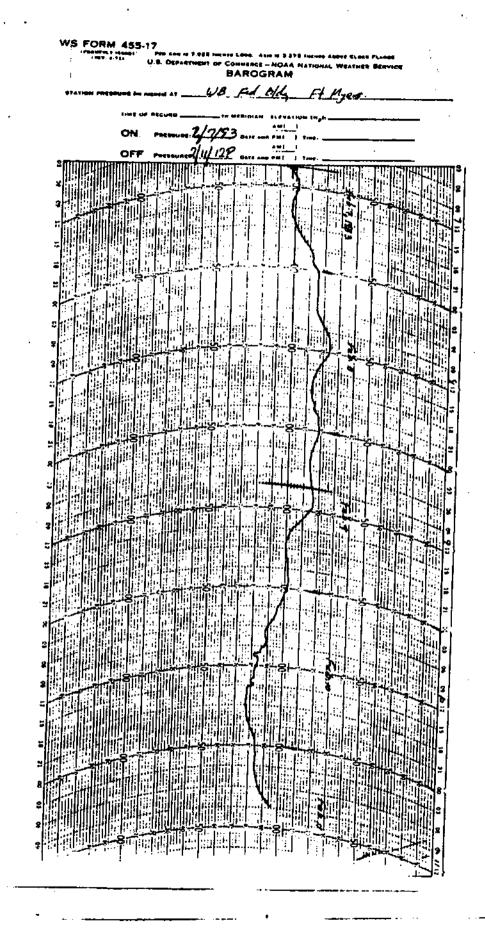


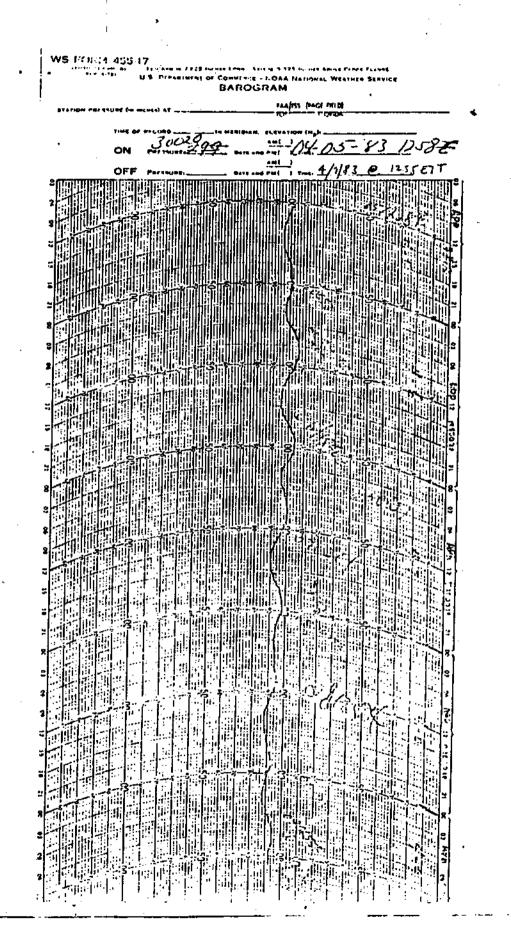
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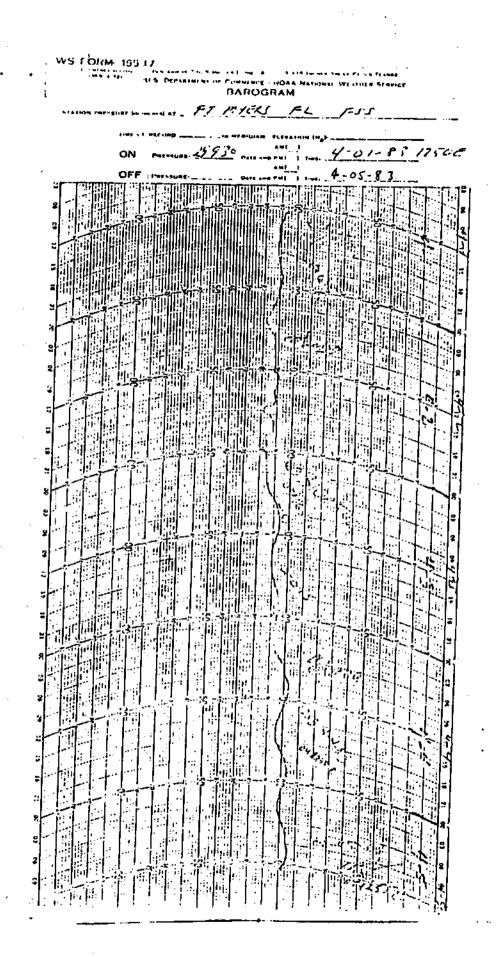


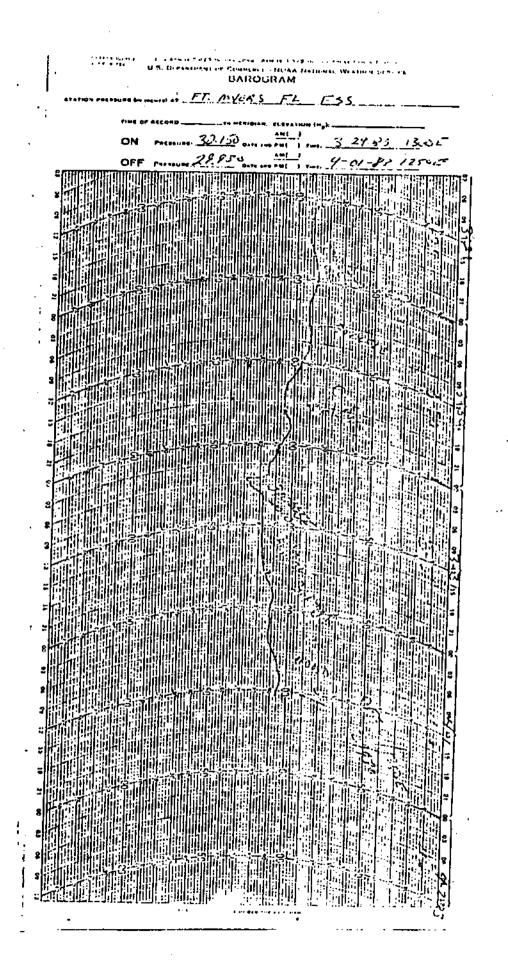




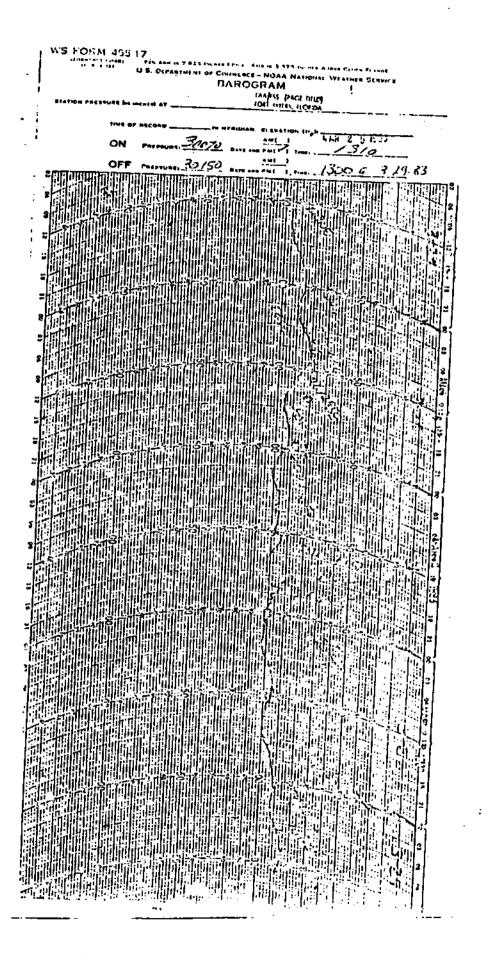


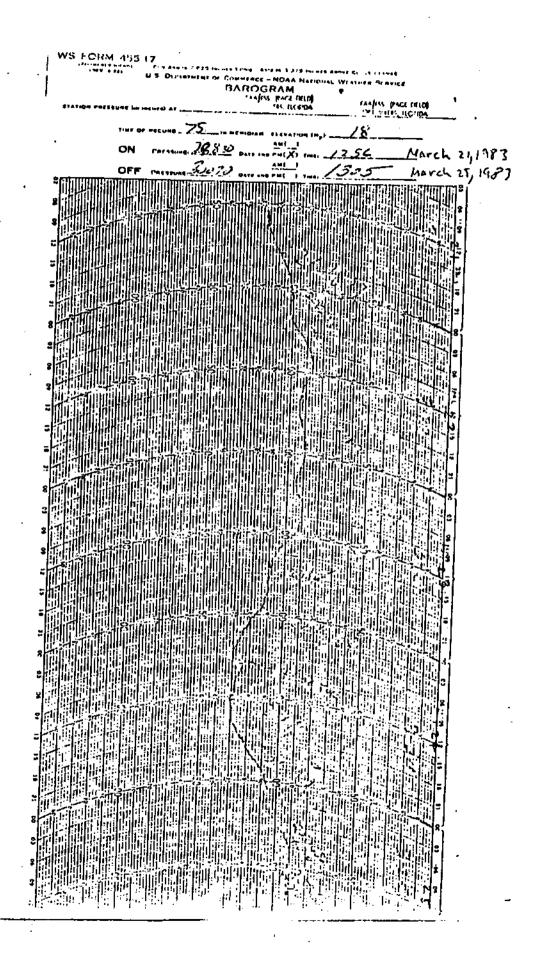
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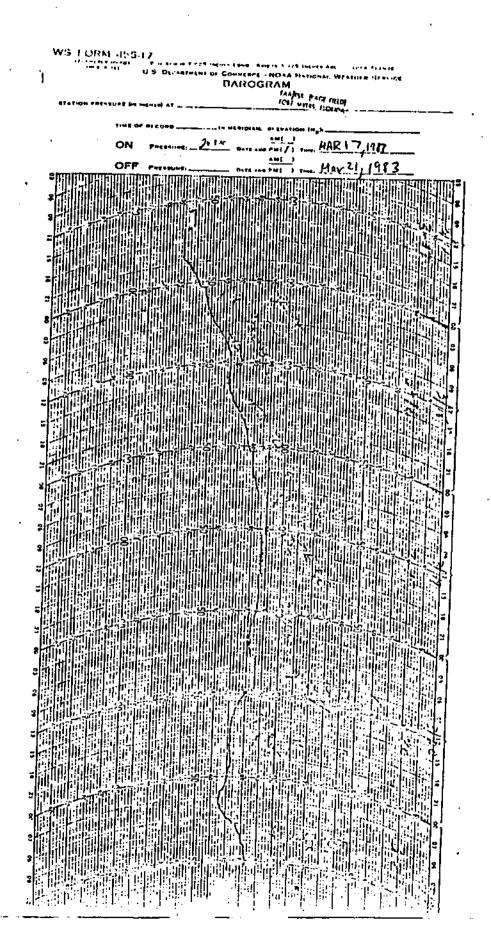


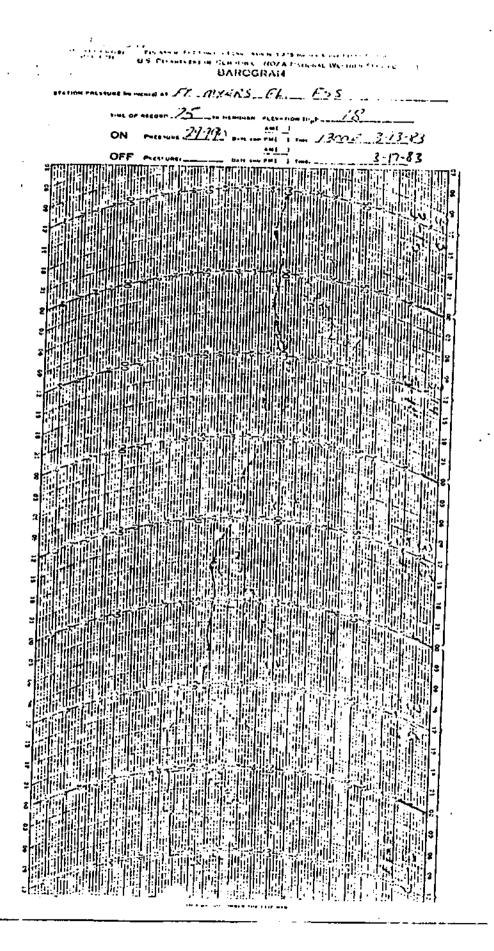
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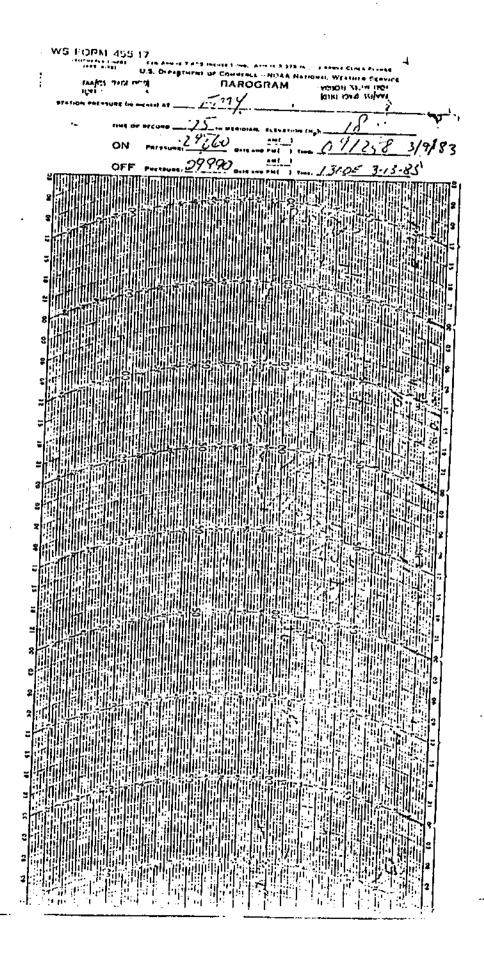
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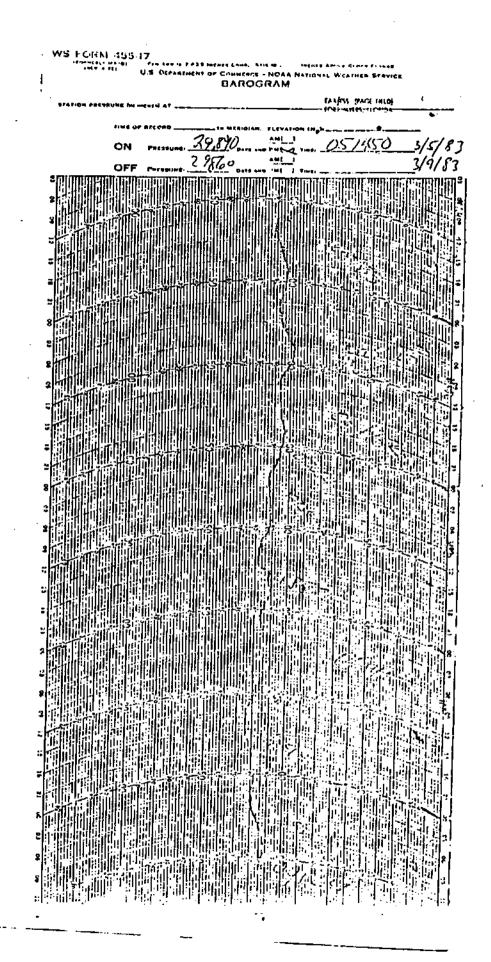


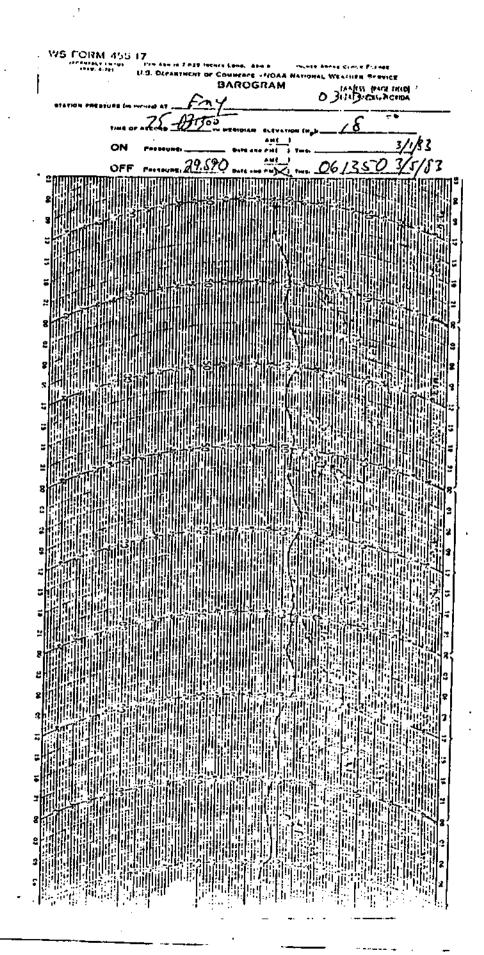


II-124

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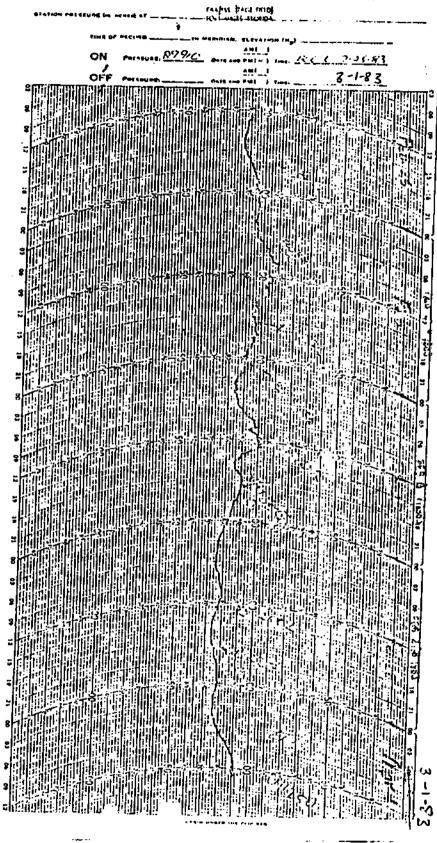


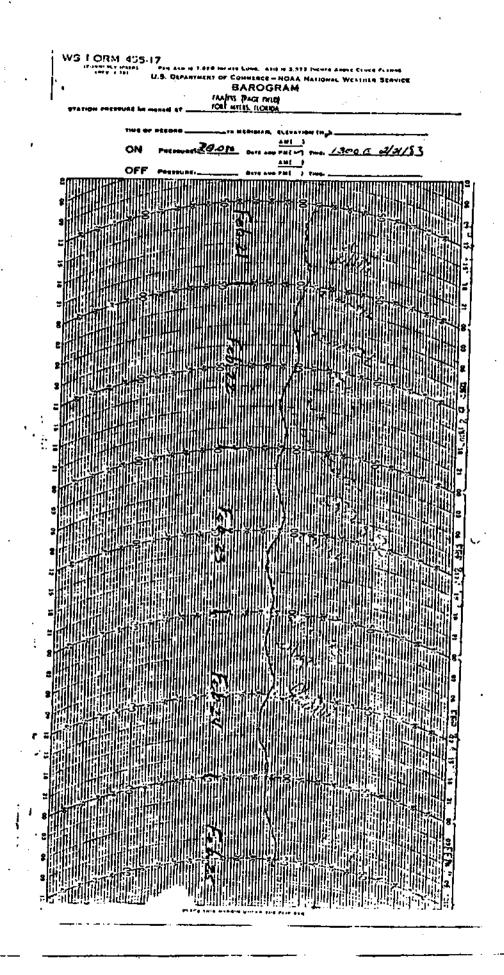
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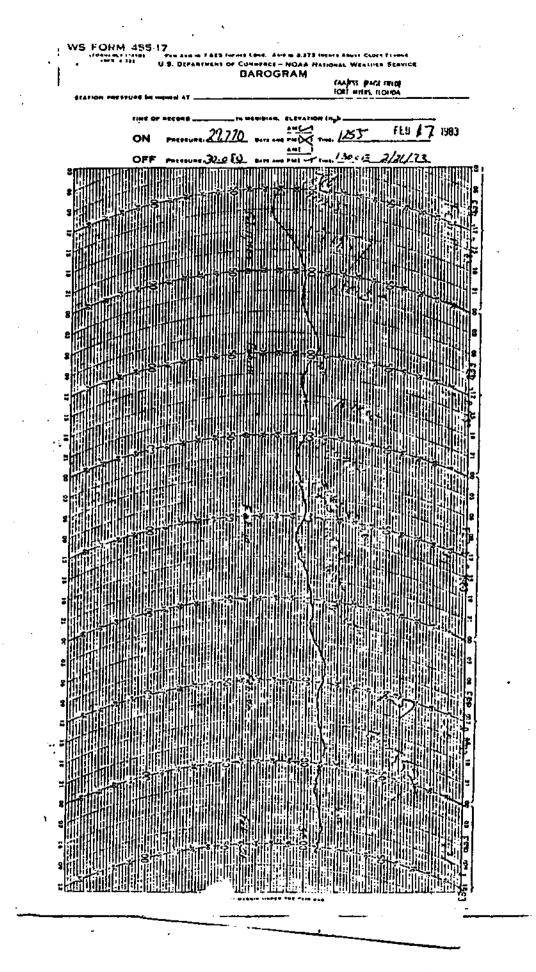


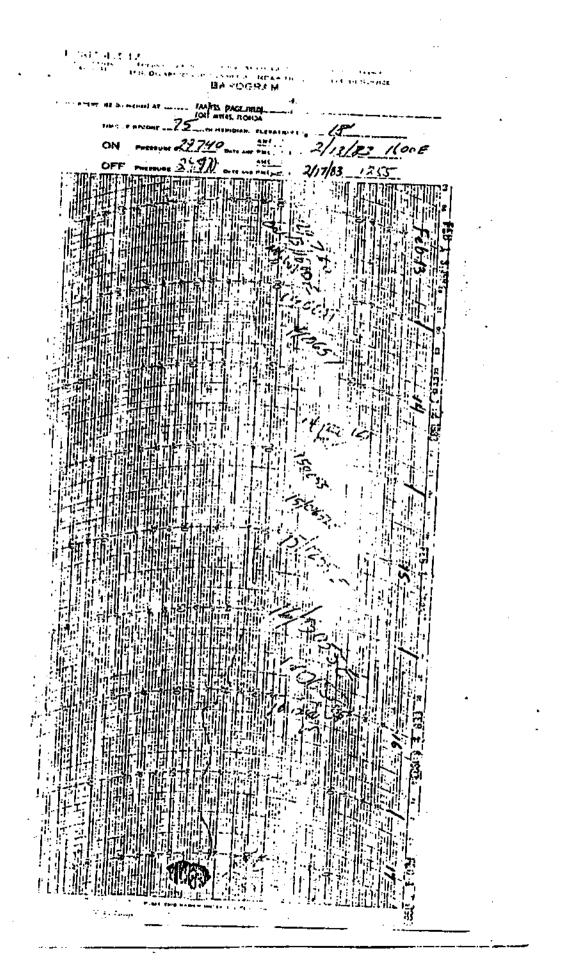
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