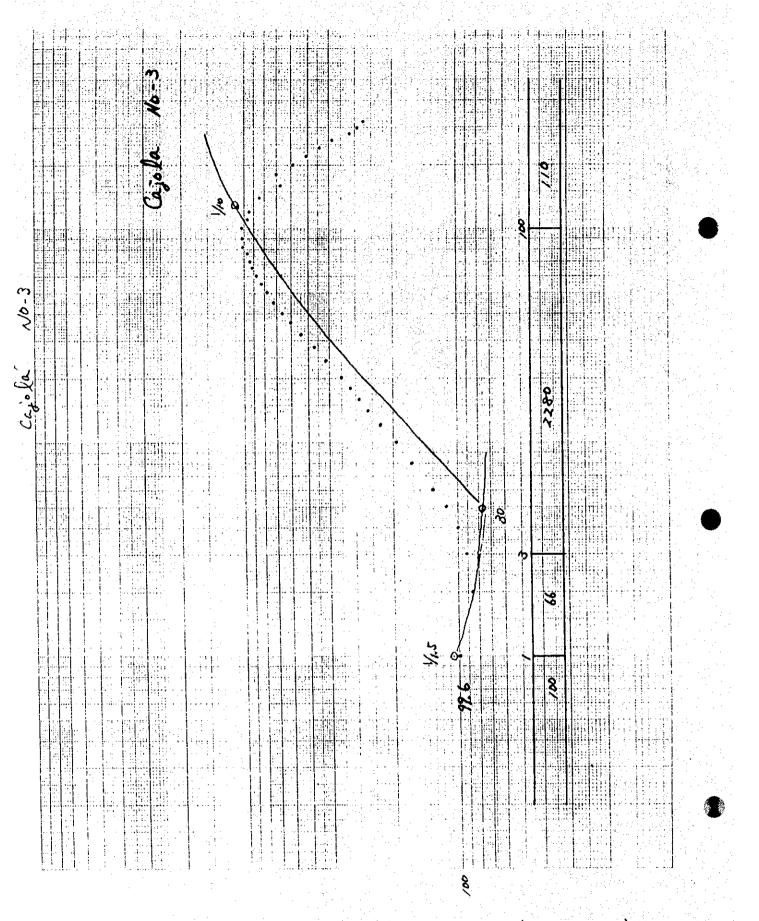
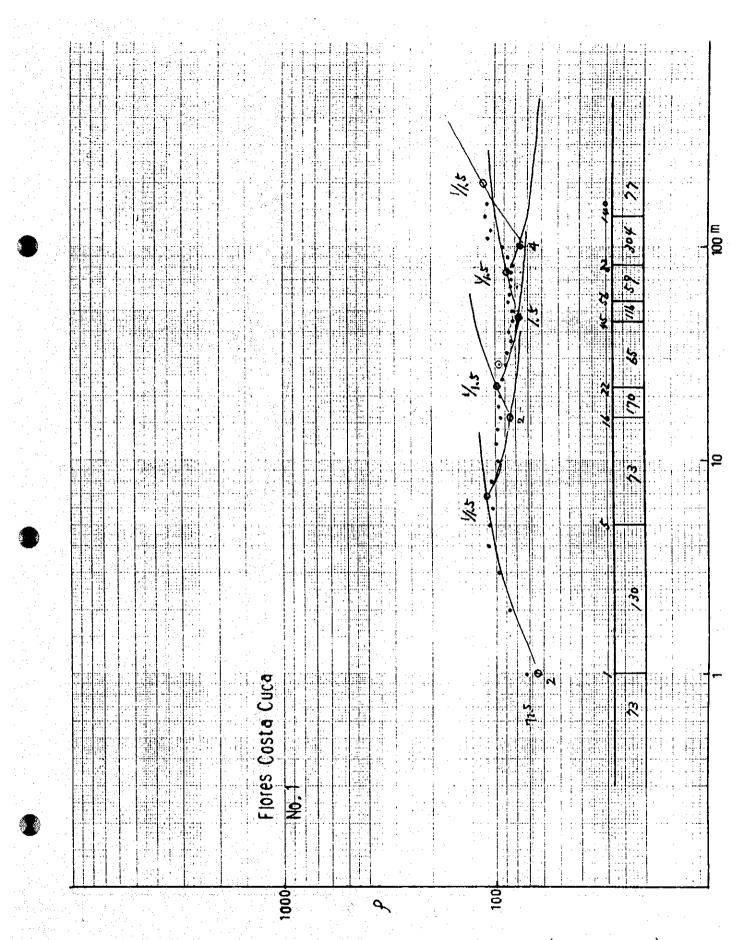


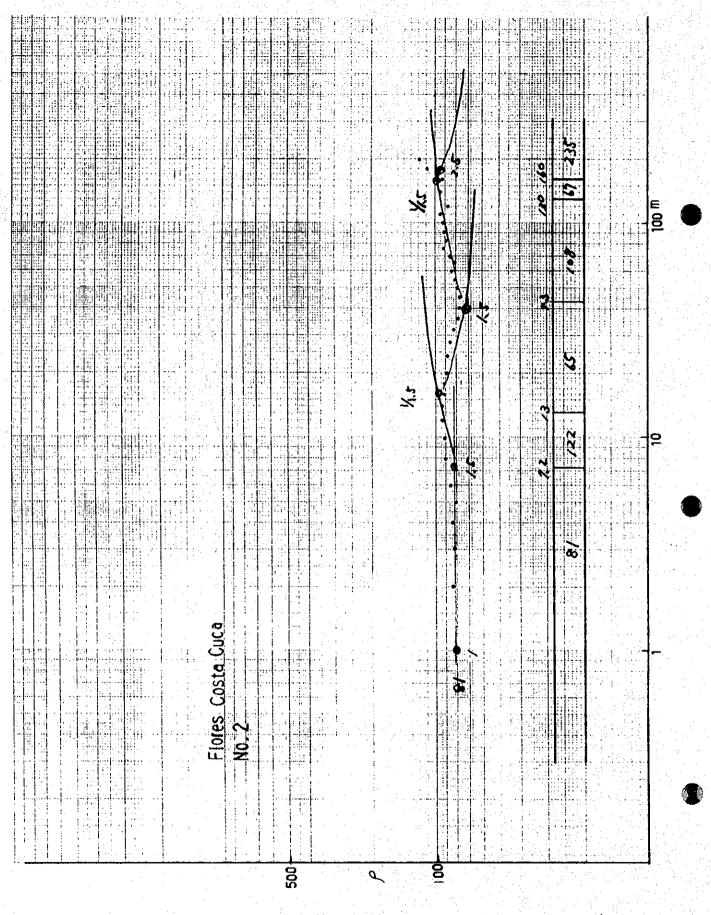
Result of Electrical Prospecting (ρ -a curve)



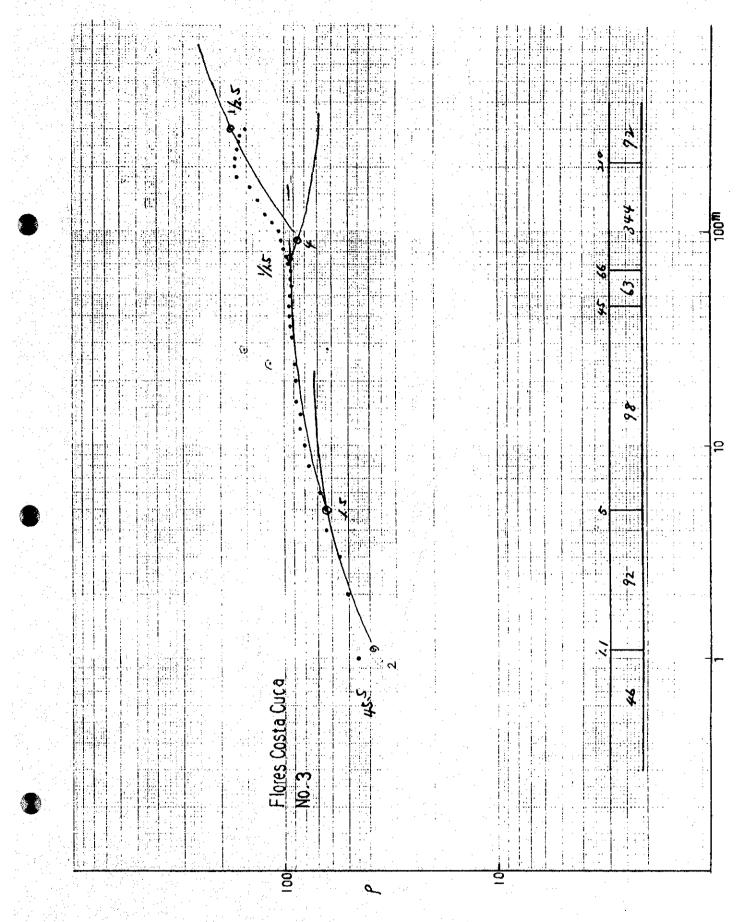
Result of Electrical Prospecting (ρ -a curve)



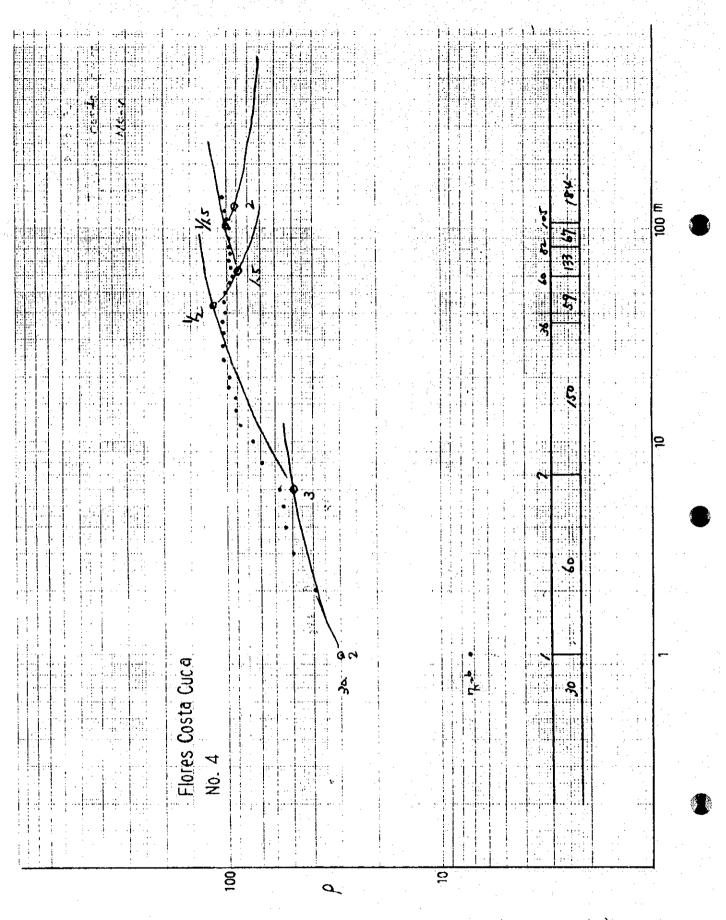
Result of Electrical Prospecting (ho -a curve)



Result of Electrical Prospecting ($\rho - a$ curve)



Result of Electrical Prospecting (ho-a curve)



Result of Electrical Prospecting (ho-a curve)

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2. RESULTS OF PUMPING TEST (JICA TEST WELL)

San José Pinula

San Pedro Sacatepéquez

Santa María de Jesús

San Martin Jirotepeque

San Joan Comalapa

Solola

Santa Lucía Utatlán

Momostenango

Génova

Result of pumping test

(San José Pinula)

NAGA) BOMBA INSTALADA A 384 PRODUCCION 536 G.P. BOMBA DE 5 ETAPAS, DE: DPERADOR : JORGE RUFINO REY) ((an an an an ag	JICA		.40 Hetros .77 Hetros	NTICO 6	RIVEL DE I
OBSERVAC (ONES	PRODUCCION	LES	NE V: E			NPO	T T E	
PRIJEBA DE BONIBEO ESCALONADA	G.P.N.	Estático	Dinámico	Pulgadas	Presión	Ninutos	Hora	FECHA
PRIMER ESCALON CON 305 GPM.		6.77				0	10:15	05/10/94
NEVEL DE BONDED MEDIDO CON	305		9.85			2		
SONDA ELECTRICA,			10.13			4	14 - X -	
	305	~	10.32	1.200 (1.200) 1.200 (1.200) 1.200 (1.200)		6		
	305		10.49	<u>.</u>		8		
	305		10.61			10		
	305		10.90	6		15		
	305		11.10	<u></u>		20		
	305		LL.30	6		25		
	305		11.52	.				n en
	305		11.70	6		40		
	305		11.84	6		50		
	305		11.95	. 6 g 1 g		60		
	305		12.02	6		70		
	305		12.10	6		00		
	J05		12.16	6		90		
	305		12.29	6		120		
SEGUNDO ESCALON CON 350 GPN	350		12.29	8		0		
	350		12.90	<u>.</u> 9		2		
	350		13.01	8		4		
<u>in an an</u>	350		13.02	8		6		
<u>an an an an an</u> An ann an Anna an An	350		13.04	8		8		
	350		17.05	8		10		
	350		[3.12			15	<u>en opperated</u> Alexandra Alexandra	
	350		13.16	8	an a	20		

	T I E	N P O	前的計算」并非			ELES	PRODUCCION	BUSERVACIONES
FECHA	Hora	Ninutos	Presión	Pulgadas	Dinteico	Estático	G.P.R.	
05/10/94	in s Child	3 25 9	1870) 1870)	8	13.20		350	
		30		8	13.23		350	
		40		8	13.29		350	
		50		8	13.34		350	<u>non esta de la constante de la</u> Constante de la constante de la Constante de la constante de la
	<u>44 - 565 - 68</u> 	60 C	24 	8	13.39		350	
		70		B	13.40		550	
		80		8	13.43		550	
		90		8	15.45		350	
		120		8	13.48		350	
		0		11.5	13.48		120	TERCER ESCALUN CON 420 GPH.
		2		11.5	14.51		420	
		4		11.5	14.61		420	
		6		11.5	14.67		120	
		8		11.5	14.73		420	
		10		11.5	14.79		420	
		15		11.5	14.87		420	
		20		11.5	14.93		420	
		25		11.5	[4.99		420	
		. 30		11.5	15.03		120	
		. 40		11.5	15.11		420	
		50		11.5	15.18		420	
		60		11.5	15.22	<u>1.8 Šz – 1</u>	420	
	1 1 N	70		11.5	15.26		420	
		80		11.5	15.29	<u> </u>	420	
		90		11.5			420	
· · · ·	ļ	120		11.5	15.38	2.1	420	
1		0		15	15.38		480	CUARTO ESCALON CON 480 GPM.

		N P O				ELES	PRODUCCION	OBSERVACIONES
FECHA	Hora	Minutos	Presión	Pulgadas	Dinàmico	Estático	G.P.N.	a de la sector de la
05/10/94		4		15	16.32		480	
		6		15	16.38		480	
an an taon an Taonachta an tao		8		15	16.43		480	
	11111	2 IO 8 8		15	16.47	Sec. Age - E	480	
		et (Sidar		15	16.54		480	
		20		15	16.60		480	
		25		15	16.64		480	
		30		15	16.67		480	
		40		15	16.77		480	
		50		15	16.82		480	
		60		15	16.87		480	
		70		15	16.90		480	
		80		15	16.93		480	
		90		15	16.96		480	
		120		15	17.02		480	
		0		19	17.02		536	QUINTO ESCALON CON 536 GPN.
		2		19	17.76		536	
		4		19	17.87		536	
		6		19	17.92		5.36	
		8		19	17.97	1011	536	
		10		19	18.00		536	
		15		19	18.07		536	
		20		19	18.12		536	
		25		19	18.16	1	536	
		30		19	18.19		536	
		40		19	(8.24		536	
		50		19	18.28		536	
		60		19	18.31		536	

	T L E	NPO			RIV	ELES	PRODUCCEON	OBSERVACIONES	
FECM	Hora	Minutos	Presión	Pulgadas	Pinanico	Estático	6.P.N.		
5/10/94		70		19	18.34		536		
		BO		19	18.36		534		
		90		19	18.39	C.	536		
		120		19	18.40		536	SE PARO PRUEBA DE BOMBEO	
		. 2			12.00			RECUPERACION DEL POZO.	
		4			11.40				
		6			11.00				
		8			10.75				
		10			10.45				
		15			9.83				
		20			9.45				
		25			9.12				
		30			8,90	$\frac{2}{3} f_{\mu}$			
		40			8,57				
		50		e system s	8.32				
		60		an a	8,12				
		70			8,00				
		BO			7.85				
		90			7.75				
		t 20			7.54				
· · ·									
				2.5					

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 $\frac{1}{\frac{1}{2}\sum_{i=1}^{n}\frac{1}{$

NIVEL NE		.74 Metros					0 (LARGA	BONBA INSTALADA A 304 PIES
	ATICO 6 FAILING -	.84 Metros L		SAN JOSE P	INULA, GUA	TEMALA		PRODUCCION 495 G.P.N. BOMBA DE 5 ETAPAS, DE: 40 H.I
	r	1999 - 19 				2000 - 2000		OPERADOR : JORGE RUFINO REYES
	T I E	N P D			NEV	ELES	PRODUCCION	OUSERVAC LONES
FECHA	Hora	Hinutos	Presión	Pulgadas	Dinámico	Estático	G.P.N.	an and a second seco
06/10/94	9:00	0				6.84		
		2		16	12.20		495	NIVEL DE BOMBEO MEDIDO CON
				16	12.85		495	SONDA ELECTRICA.
		6			13.50		495	
				16	13.69		495	
		10		16	13.80		495	
alan ay ar ar		15		16	13,89		495	
		20		16	14.35		495	
		25		16	14.77		495	
		30		16	15.22		495	
		40		16	15.57		495	
		50		16	15.98		495	
- 1997 - 1997 1997 - 1997 - 1997	10:00	60		16	16.24		495	
		70		16	16.44		495	 Booksetter (1999) Annual (1999) Booksete
		80		16	16.58		495	
		90		16	16.72		495	
ing sing sing Sila ta sing sing Ta sila ta sing sing si	11:00	120		16	16.95		495	
		150		16	17.30		495	
	12:00	180		16	17.30		495 des	
		210		16	17.30		495	
	13:00	240		16	17.46		495	
	14:00	300		16	17.58		495	
	15:00	360		- 16	17.64		495	
	16:00	420		16	17.70		495	
	17:00	480		16	17.76		495	
	L to the fi	I	1	<u> </u>	<u> </u>	<u> </u>		

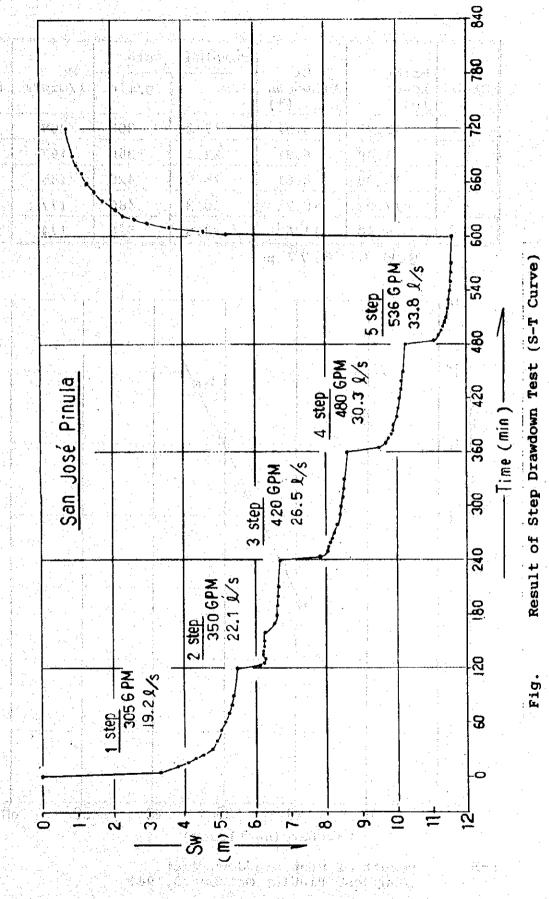
i de la compansión de la companya de	
S J P Hoja No.	

	T L Ê	M P 0	建筑路 地格 中国大学家		N N N	ELES	PRODUCC (ON	OBSERVACIONES
FECHA	Hora	Hinutos	Presión	Pulgadas	Dinámico	Estático	36.P.N.	Salaria P. M. Oservi (B. Phri) Salaria P. An Salaria (B. Phri)
06/10/94	18:00	540		16	17.82	地 《日月日	321495	
	19:00	600		16	17.88		195	
	20:00	660		(6	17.92		495	
	21:00	720		16	17.96		495	
	22:00	780		16	(8.00		495	
	23:00	840		16	18.02		(95	
	24:00	900		16	18.04		195	
07/10/94	1:00	960		16	18.06		195	
	2:00	1020		16	18.08		495	
	3:00	1080		16	18.11		195	
	4:00	1140		16	18.14		495	
	5:00	1200		16	18.17		195	
	6:00	1260		16	18.20		495	
	7:00	(320		16	18.22		495	
	8:00	1380		16	18.25		195	
	9:00	1440		16	18.30		495	
	10:00	1500		16	18.30		495	
	. 11:00	1560		16	18.32		495	
	12:00	1620		16	18.33		495	
	13:00	1680		16	18.33		495	
	14:00	1740		16	18,34		495	
	15:00	1800		16	18.50		495	
	17:00	1920		16	18.50		195	
	19:00	2040		. 16	18.51		495	
	21:00	2160		16	18.54		195	
	23:00	2280	· · · · ·	16	10.50		495	
08/10/94	1:00	2400		16	18.61		(195	
	3:00	2520		16	18.63		495	
	an Angelander Angelander Angelander							

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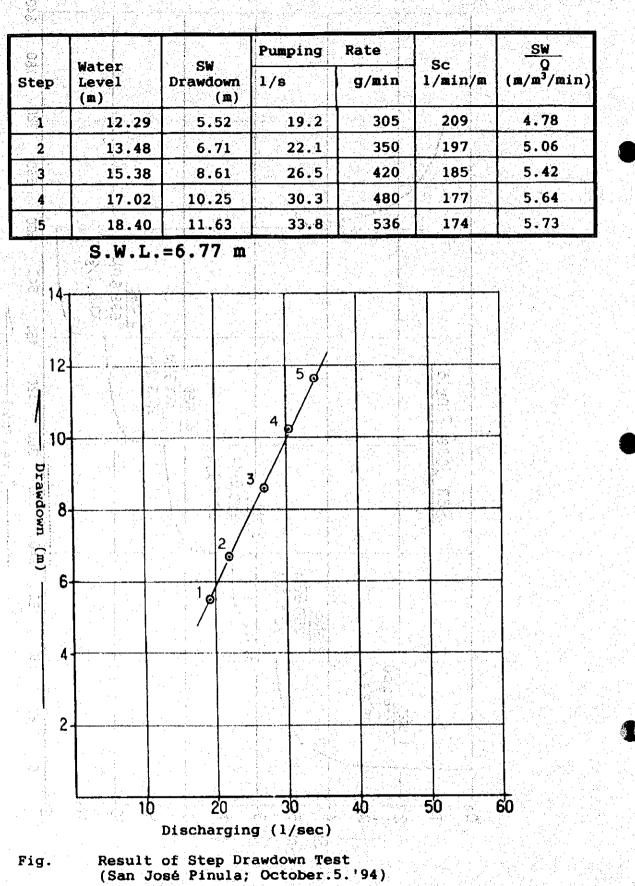
	n in e				N L Y	ELES	PRODUCCION	OBSERVACIONES
FECHA	Hora	Hinutos	Presión	Pulgadas	Dinámico	Estático		yest preside as with either
08/10/94	5:00	2640		16	18.66		495	
	7:00	2760		16	18.70		495	
	9:00	2880		16	18,74		495	
	11:00	3000		16	18.74		495	
	13:00	3120		16	18.74		495	
	15:00	3240		16	18.74		495	
	17:00	3360		16	18,74		495	
	19:00	3480		16	18.74		495	
	21:00	3400		16	18.74		495	
	23:00	3720		16	10.74		495	<u>Ma</u>
09/10/94	1:00	3840		16	18.74	A Sec.	495	
	3:00	3960		16	18.74		495	
	5:00	4090		16	18.74		495	
	7:00	4200		16	18.74		495	
	9:00	4320		16	18.74		495	SE PARO PRUEBA DE BONBEO.
		1			12.00			RECUPERACION DEL POZO.
		2			11.65			
		2			11.51			
		•			11.49			
		5			11.47			
		6			11.49		- 	
		7			11.53			
		8			11,42			
		9			11.31			
		10			11.25	1		
		15			10.81			
		20		_	10.44	ļ,		
		25			10.17			

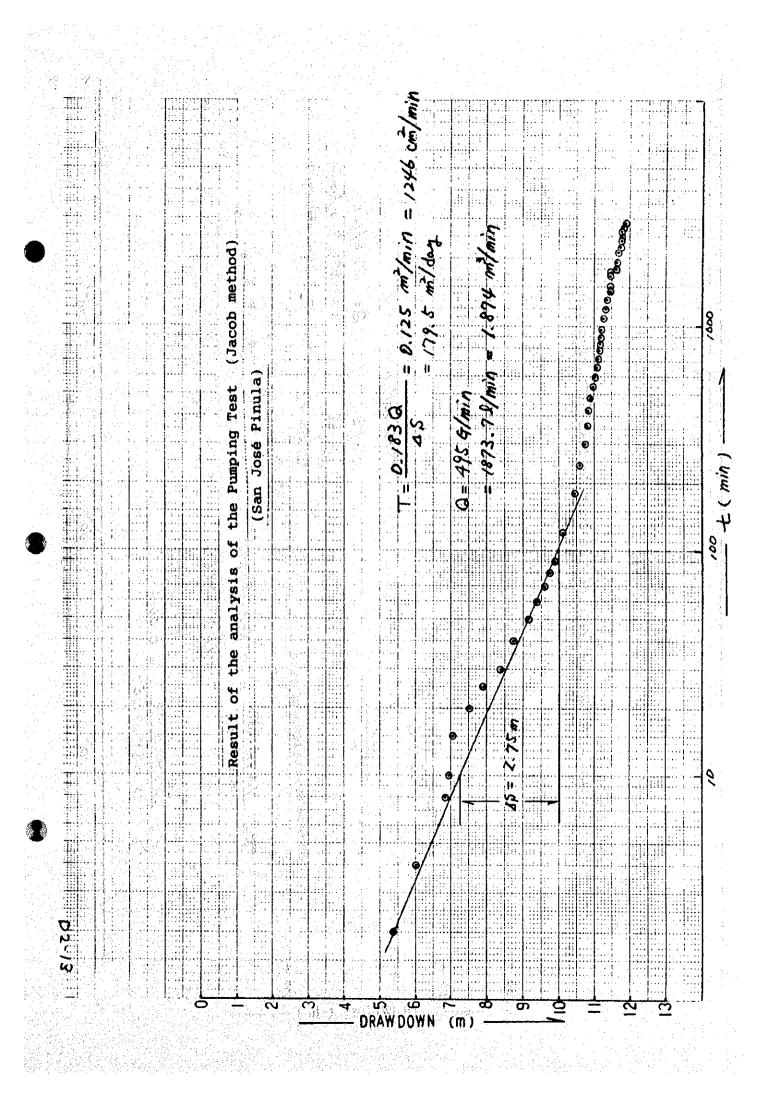
	T I E	N P O	, c		N C V	ELES	PRODUCCION	OUS	ERVACIONES	
FECHA	Hora	Hinutos	Presión	Pulgadas	Din ân ico	Estático	G.P.N.	antes a		
09/10/94		30			9,99					
		40			9.67					
		50			9.45					
		60		- 01	9.27			560		
		70			9.16					
		80			9.06					
		90			8.97					
		120			8.78			Û.		
		150			8.78			643	(30172)	
		180			8,54					
		210			8.54			\$ M9		1.2.5.1.28
		240			8.42					
		300			8.29					
		360			8.20					
		420			8.12			2 P P P	Ť. (Av.)	
		480			8.05					
· · ·										
						A A H				
								<u>.</u>		
			, in the second s							
							n <mark>- Danawa -</mark> Anang anang ang			

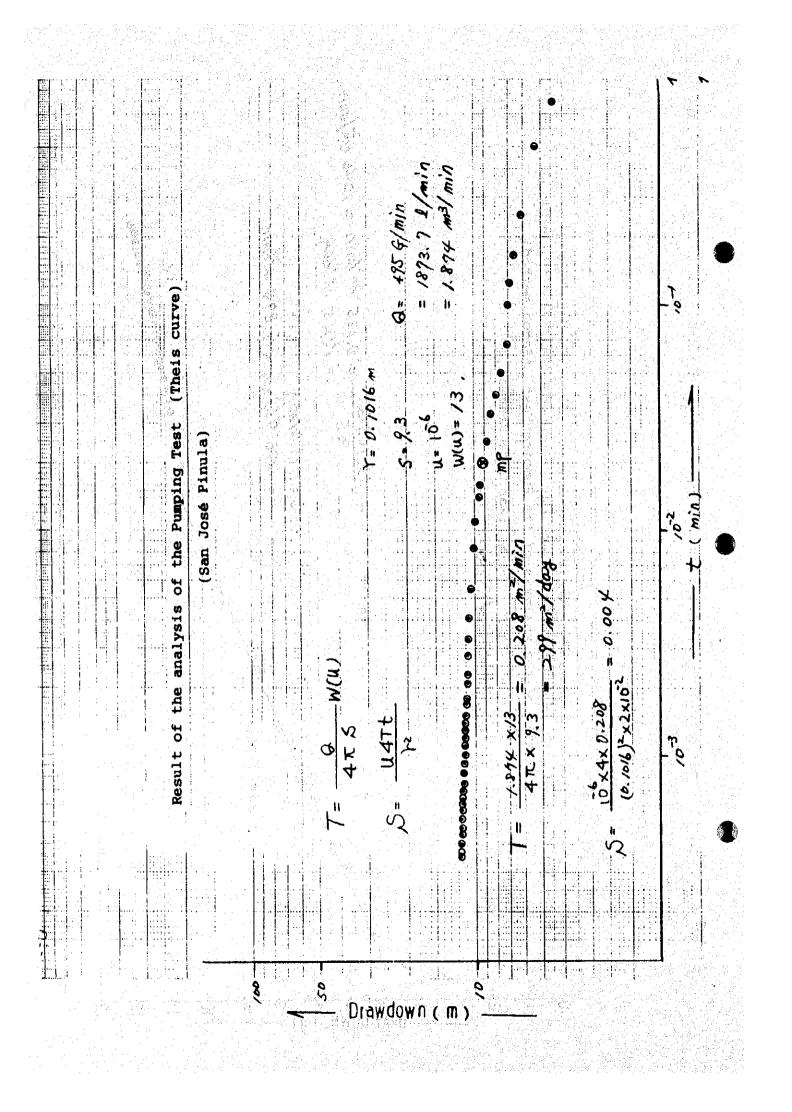


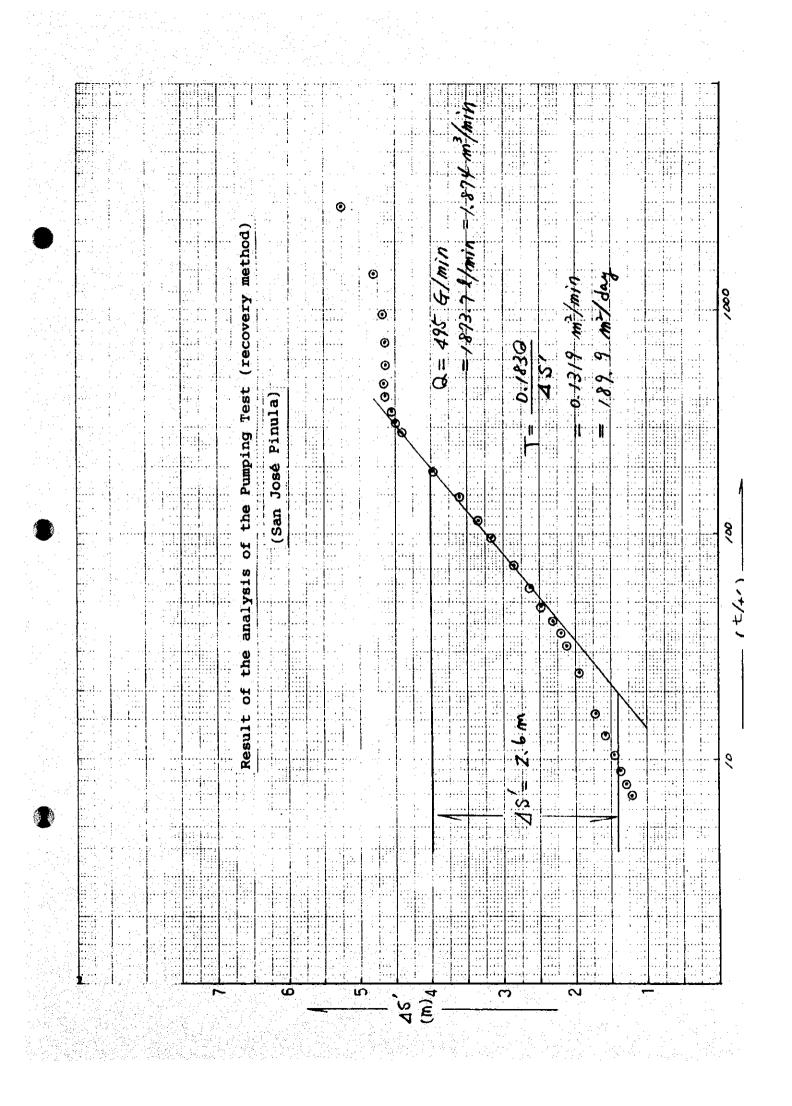
<u>)</u> रेखर हे इ.स. ह

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Result of pumping test

(San Pedro Sacatepéquez)

LINSTALADA A 640 PLES CLON 430 G.P.N. DE 14 ETAPAS, DE 60 H.F OR 1 BYRON DCHOA PEREZ	PRODUC		an An an an Antara	а,			o de 6" 12 Metros .56 Netros	DOMBEO SB	NIVEL DE I
OBSERVACIONES		PRODUCCION	ELES	NIV			NPQ	I L E	
PE BONDEO ESCALONADA	PRUEBA	6.P.N.	Estático	Din in ico	Pulgadas	Presión	Ninutos	Hora	FECIM
ESCALOR CON 230 GPN.	PRIMER		41.56				•••••	10115	07/10/94
DE BONBED MEDIDO CON	NEVEL	230		45,05	12.5		2		
ELECTRICA	SONDA	230		46.70	12.5				
		520	al and an and a second and as second and a	47.49	12.5		1999. 1999. 1999.	and a second second	
		230		48.10	12.5		8		
		230		40.31	12.5		10	eren an ar bhain Rhailte an Rhaite	
		230		47.13	12.5		15		
		230		49.57	12.5		20		
		230		49.88	12.5		25		
		230		50.18	12.5				
		230		50.52	12.5		40		
		230		50.76	12.5		50		يەركى دېرىكىلىر بەركى دېرىكىلىر
		230		50.93	12.5		60		
		230		51.24	12.5		70	an a	
		230		51.45	12.5		90		
		230		51.59	12.5		90		
		230		51.96	12.5		120		
O ESCALON CON 278 GPN.	SEGUND	278		51.86	19		0		د مجنوع در میں کا در افراد
		278		52.15					
		278		52.53	19		4		
		278	an a	52.79	[9		6		n generation operation en Second
		278		53.01	19				
		278		53.17	19		[0		
		278		53,44	19		- 15		
		278		53.61	19		20		

	1 mar	- 	 	
S			 	
	· · · · · · · ·	× : :		

	T I E	MPQ			VIII V	ELES	PRODUCCION	OUSERVIC (ONES
FECHA	Nora	Ninutos	Presión	fulgadas	Dinanico	Estático	G.P.N.	
07/10/94		25		19	53.75		278	
		30		19	53.82		278	
		40		19	54.00		278	
الله المحمد المحمد المحمد المحمد المحمد المحمد المحمد	and and a second se	50		19	54,13	and Angeland Angeland Angeland	278	
		60		19	54.22		278	
an an an Arta An Arta Arta Arta		70		. 19	51.34	an a	278	
		BO		19	54.40		278	
		90		19	51.46		278	
		120		. [9	54.67		278	
		0		27	54.67		329	TERCER ESCALON CON 327 OPN.
				27	55,16		327	
				27	55.47		329	
		6		27	55.66		529	
		8		27	55.78		329	
	n de la composition de la composition de la composition de la composition de	10		27	56.10		321	
· · · · ·		15		27	56.31		329	
		20		27	56.37		329	
		25		27	\$6.43		329	
		30		27	56.50		329	
		40		27	56.44		329	
	n an an Alfred	50		27	56.78		327	
·		60		27	56.83		327	
· · .		70		27	56.89		329	
· · · ·		. 80		27	56.88		J2 1	
	· · · · · · · · ·	90		27	56.89		327	
		120		27	56.00		321	
		0		s 34	56.80		389	CUMITO ESCALON CON 300 GPN.
		2		34	57.41		380	

S.P.S Hoja No. 3

	1 I E	N P O		S Chrys	CH LY	ELES	PRODUCCION	OBSERVACIONES
FECHA	Hora	Ninutos	Presión	Pulgadas	Dinàmico	Estático	6.P.N.	
97/10/94				ST 34	57,48		260	
		6.1		34	57.77		380	
		8		34	57.78		380	
		10		34	57.83		380	
	010	8 1 15 148		34	58.00		380	
		20		34	58.09		380	
		25		34	58.09		380	
		30		34	58.12		380	
		40		34	58,12		380	
		50		34	58.12	4 <u>.</u> (*	380	
		60		34	58.1Z		380	
		70		34	58.12		380	
		80		.34	56.12		380	
		90		34	58.12		380	
		120		34	58.12		380	
		0		46	58.12		430	QUINTO ESCALON CON 430 GP
		2		46	58.12		430	
		4		46	58.12		430	
		6		46	58.12		430	
		8		46	58.12		430	
		10		46	58.12		430	
		15		46	58.12		430	
		20		46	58.12		430	
		25		46	58.12		430	
		30		46	50.12		430	
		40		46	58.12		430	
		50		46	58.12		430	
		60		16	58.12		430	

- 42	() (A) ;		
		1.12	25

	T.L.E	N P O			a tv	ELES	PRODUCCION	CORSERVACIONES
FECHA	Hora	Ninutos	Presión	Pulgadas	D in la ico	Estático	6.P.H.	
07/10/94		70		46	58.12		130	
		80		46	58.12		430	
		90		46	58.12		430	
		120		46	58.12	点,该	430	SE PARO PRUEBA DE BONDED
		2			55.67	北的清		RECUPERACION DEL POZO.
		4			52.96			
		6			50.93			
		8			49.54			
		10			48.75			
		15			47.48			
		20			46.91			
		25			46.56			
		30			44.17			
		40			45.68			
		50			45.28			
		60			44.96			
		70			44.65			
		80		94 A	41.46			
		90			44.23			
		120			43.57			
		· · ·						
		<u> </u>					1947 - X - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 1997 -	
	_							
	1					4.55		

	1.1.1						
÷		1.2		1			
		e Co	£.,	٠	15.1	Υ.	

NIVEL DE I NIVEL ESTA	4" en tubi IOMBEO 59 ATICO 43 CYCLONE TI	.58 Metros .71 Metros		J.I.C.A	D E - I N F Catepequez	0 N		DURACION) BOMBA INSTALADA A 475 PIES PRODUCCION 320 G.P.M. BOMBA DE 14 ETAPAS, DE: 60 H.F OPERADOR : ISAIAS CASTILLO JOLON
	TIE	NPO			N I N	ELES	PRODUCCION	OBSERVACIONES
FECHA	Hora	Minutos	Presión	Pulgadas	Dinàmico	Estático	G.P.N.	
12/10/94	15:00	0				43.71		
		2		25,5	46.86		320	NIVEL DE BONDEO MEDIDO CON
		• • • • • • • • •		25.5	48,48		320	SONDA ELECTRICA.
	and an	. 6		25.5	48.73		320	
		8		25.5	50.87		320	
		10		25.5	52.39		320	
		15		25.5	53.18		320	
		20		25.5	53,60		320	
· · · · · · · · · · · · · · · · · · ·		25		25.5	53.94		320	
		30		25.5	54.46		320	
	a Dagangkan sa kara sa	40		25.5	54.87		320	
		50		25.5	55,14		320	
an a	16:00	60		25.5	55.45		320	
		70		25.5	55.73		320	
		80		25.5	55.80	•	320	
		90		25.5	56.08		320	
	17:00	120		25.5	56.36		320	
		150		25.5	56.65		320	
مان المعاد من التي مان	18:00	190		25.5	56.75		320	
		210		25.5	56.75		320	
	19:00	240		25.5	57.35		320	
	20:00	300		25.5	57.43		320	
	21:00	360		25.5	57.68		320	
	22:00	420		25.5	57.68		520	
	23:00	490		25.5	57.68		520	

FECHA Mora Minutos Presion Pulgadas Dinámico Estático G.P.N. 12/10/94 24:00 540 25.5 57.68 320 320		T I E	NPO			N I V	ELES	PRODUCCION	<u>s p.s</u> Hoja No. 2 OBSERVACIONES
13/10/74 1.10 600 23.3 37.68 320 2:00 660 25.3 58.65 320	FECHA	Hora	Minutos	Presión	Pulgadas	Dinámico	Estático	6.P.N.	
2100 640 25.5 54.05 320 3100 770 25.5 54.05 320 4100 780 25.5 54.05 320 5100 840 25.5 54.05 320 6100 700 25.5 54.05 320 6100 700 25.5 54.05 320 7100 960 25.5 58.65 320 7100 960 25.5 58.65 320 7100 1000 25.5 58.65 320 10:00 1140 25.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 140 25.5 59.06 320 11:00 1400 25.5 59.15 3	12/10/94	24:00	540		25.5	57.68		320	
3.00 720 25.5 58.05 370 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 26.11 27.11 27.11 37.0 370 <td>13/10/94</td> <td>1:00</td> <td>600</td> <td></td> <td>25.5</td> <td>57.68</td> <td></td> <td>320</td> <td></td>	13/10/94	1:00	600		25.5	57.68		320	
3:00 720 23.5 50.05 320 4:00 766 25.5 56.05 320 5:00 846 23.5 56.05 320 6:00 700 23.5 56.05 320 7:00 766 25.5 56.45 320 7:00 760 25.5 56.45 320 8:00 1020 25.5 56.45 320 10:00 1140 25.5 56.45 320 10:00 1140 25.5 56.45 320 11:00 1200 25.5 56.45 320 11:00 1200 25.5 56.45 320 11:00 1200 25.5 56.45 320 14:00 1300 25.5 56.45 320 14:00 1300 25.5 57.00 320 14:00 1500 25.5 57.00 320 14:00 160 25.5 57.00 320 19:00 1620 25.5 57.20 320		2:00	660		25.5	58.05		320	
4100 780 25.5 58.05 370 5100 840 25.5 58.36 320 6100 700 25.5 58.37 320 7100 960 25.5 58.43 320 8100 1020 25.5 58.43 320 9100 1020 25.5 58.45 320 10100 1140 25.5 58.45 320 11100 1200 25.5 58.45 320 11100 1200 25.5 58.45 320 11100 1200 25.5 58.45 320 11100 1200 25.5 58.45 320 11100 1300 25.5 58.45 320 14100 1380 25.5 58.45 320 14100 1380 25.5 59.45 320 14100 1500 25.5 59.45 320 16100 1620 25.5 59.45 320 18100 1620 25.5 59.26 320		3:00	720		25.5	58.05		320	
6100 7900 25.5 58.37 320 7:60 960 25.5 58.45 370 8:00 1020 25.5 58.45 370 9:00 1069 25.5 58.45 370 10:00 1140 25.5 58.45 370 11:00 1200 25.5 58.45 370 11:00 1200 25.5 58.45 370 11:00 1200 25.5 58.45 370 11:00 1300 75.5 58.45 370 13:00 1320 25.5 58.45 320 14:00 1380 25.5 58.45 320 15:00 1440 25.5 59.65 320 16:100 1560 25.5 59.70 320 19:00 1680 25.5 59.15 320 19:100 1680 25.5 59.28 320 19:100 1680 25.5 59.28 <td></td> <td>4:00</td> <td>780</td> <td></td> <td>25.5</td> <td>58.05</td> <td></td> <td>320</td> <td></td>		4:00	780		25.5	58.05		320	
7:00 760 23.5 58.63 320 8:00 1020 25.5 58.65 320 10:00 1040 23.5 58.65 320 10:00 1140 23.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 1200 25.5 58.65 320 11:00 1320 25.5 58.65 320 14:00 1380 25.5 58.65 320 15:00 1440 25.5 59.65 320 16:00 1560 25.5 59.00 320 18:100 1620 25.5 59.15 320 19:100 1680 25.5 59.28 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 </td <td></td> <td>5:00</td> <td>840</td> <td></td> <td>25.5</td> <td>58.36</td> <td></td> <td>320</td> <td></td>		5:00	840		25.5	58.36		320	
8100 1020 25.5 58.65 320 9:00 1060 25.5 58.65 320 10:00 1140 25.3 58.65 320 11:00 1200 25.5 58.65 320 11:00 1200 25.5 58.65 320 12:00 1260 25.5 58.65 320 13:00 1320 25.5 58.65 320 14:00 1360 25.5 58.65 320 14:00 1360 25.5 58.65 320 15:00 1440 25.5 59.00 320 16:00 1560 25.5 59.00 320 17:00 1560 25.5 59.15 320 18:00 1420 25.5 59.28 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 21:00 1900 25.5 59.28 <td></td> <td>6:00</td> <td>900</td> <td></td> <td>25.5</td> <td>58.37</td> <td></td> <td>320</td> <td></td>		6:00	900		25.5	58.37		320	
1000 1000 23.5 38.83 370 10100 1140 25.5 58.45 320 11100 1200 25.5 58.45 320 12100 1240 25.5 58.45 320 13100 1320 25.5 58.45 320 14100 1300 25.5 58.45 320 14100 1300 25.5 58.45 320 14100 1300 25.5 58.45 320 15100 1440 25.5 58.45 320 15100 1440 25.5 58.45 320 16100 1500 25.5 59.00 320 17100 1560 25.5 59.15 320 18100 1422 25.5 59.15 320 19100 1480 25.5 59.28 320 20100 1740 25.5 59.28 320 21100 1800 25.5 59.28 320 21100 1800 25.5 59.28 320 <		7:00	960		25.5	58.63		320	
10:00 1140 25.5 58.65 320 11:00 1200 25.5 58.65 320 12:00 1260 25.5 58.65 320 13:00 1320 25.5 58.65 320 14:00 1380 25.5 58.65 320 14:00 1380 25.5 58.65 320 15:00 1440 25.5 58.65 320 16:00 1560 25.5 58.65 320 16:00 1560 25.5 59.00 320 16:00 1660 25.5 59.00 320 17:00 1560 25.5 59.15 320 18:00 1620 25.5 59.15 320 19:00 1680 25.5 59.28 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 21:00 1800 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28		8:00	1020		25.5	58.65		320	
II:00 I200 Z3.5 S8.65 J20 I2:00 I260 Z5.5 S8.65 J20 I3:00 IJ20 Z5.5 S8.65 J20 I4:00 IJ80 Z5.5 S8.65 J20 I5:00 I440 Z5.5 S8.65 J20 I6:00 I500 Z5.5 S9.00 J20 I8:00 I620 Z5.5 S9.15 J20 I8:00 I620 Z5.5 S9.15 J20 I9:00 I680 Z5.5 S9.28 J20 Z0:00 I740 Z5.5 S9.28 J20 Z1:00 I800 Z5.5 S9.28 J20 Z1:00 I800 Z5.5 S9.28 J20 Z1:00 I900 Z5.5 S9.28<		9:00	1080		25.5	58.65		320	
12:00 12:60 12:60 25.5 58.65 320 13:00 1320 25.5 58.65 320 14:00 1380 25.5 58.65 320 14:00 1380 25.5 58.65 320 15:00 1440 25.5 58.65 320 16:00 1500 25.5 58.65 320 16:00 1500 25.5 59.00 320 17:00 1560 25.5 59.15 320 18:00 1420 25.5 59.15 320 19:00 1680 25.5 59.15 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 23:00 1920 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 <td< td=""><td></td><td>10:00</td><td>1140</td><td></td><td>25.5</td><td>58.65</td><td></td><td>320</td><td></td></td<>		10:00	1140		25.5	58.65		320	
13100 1320 25.5 58.45 320 14100 1380 25.5 58.45 320 15100 1440 25.5 58.45 320 15100 1440 25.5 58.45 320 16100 1500 25.5 59.00 320 16100 1500 25.5 59.00 320 17100 1560 25.5 59.00 320 18100 1620 25.5 59.15 320 19100 1680 25.5 59.15 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 21:00 1800 25.5 59.28 320 11/10/94 1:00 2040 25.5 59.28 320 11/10/94 1:00 2040 25.5 59.28 320 11/10/94 1:00 2040 25.5 59.28 320 11/10/94 1:00 2280 25.5 59.28 320 11/		11:00	1200		25.5	58.65		320	
14:00 1380 25.5 58.65 320 15:00 1440 25.5 58.65 320 16:00 1500 25.5 59.00 320 16:00 1560 25.5 59.00 320 17:00 1560 25.5 59.00 320 18:00 1620 25.5 59.15 320 18:00 1620 25.5 59.15 320 19:00 1680 25.5 59.15 320 20:00 1740 25.3 59.28 320 21:00 1800 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2280 25.5 59.28 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320		12:00	1260		25.5	58.65		320	
13:00 1440 25.5 58.65 320 16:00 1500 25.5 59.00 320 17:00 1560 25.5 59.00 320 18:00 1620 25.5 59.15 320 18:00 1620 25.5 59.15 320 19:00 1680 25.5 59.15 320 20:00 1740 25.5 59.15 320 21:00 1800 25.5 59.28 320 21:00 1800 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2400 25.5 59.28 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 <td>. <u>.</u></td> <td>13:00</td> <td>1320</td> <td></td> <td>25.5</td> <td>58.65</td> <td></td> <td>320</td> <td></td>	. <u>.</u>	13:00	1320		25.5	58.65		320	
16:00 1500 25.5 59.00 329 17:00 1560 25.5 59.00 370 18:00 1620 25.5 59.15 320 19:00 1680 25.5 59.15 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 21:00 1800 25.5 59.28 320 21:00 1800 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 2160 25.5 59.28 320 320 5:00 2280 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 <t< td=""><td></td><td>14:00</td><td>1380</td><td></td><td>25.5</td><td>58.65</td><td></td><td>320</td><td></td></t<>		14:00	1380		25.5	58.65		320	
17:00 1560 25.5 59.00 320 18:00 1620 25.5 59.15 320 19:00 1680 25.5 59.15 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 21:00 1800 25.5 59.28 320 21:00 1920 25.5 59.28 320 23:00 1920 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 3:00 2140 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 9:00 2520 25.5 59.28 320 320	, e, de . L'est erne				25,5	58.65		320	
18:00 1620 25.5 59.15 320 19:00 1680 25.5 59.15 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 23:00 1920 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 3:00 2160 25.5 59.28 320 320 14/10/94 1:00 2040 25.5 59.28 320 5:00 2280 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2280 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 9:00 2520 25.5 59.28 320 320	н	<u> </u>							
19:100 1680 25.5 59.15 320 20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 23:00 1920 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 3:00 2140 25.5 59.28 320 320 5:00 2290 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320	· · · ·	ļ							
20:00 1740 25.5 59.28 320 21:00 1800 25.5 59.28 320 23:00 1920 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 5:00 2140 25.5 59.28 320 7:00 2140 25.5 59.28 320 7:00 2280 25.5 59.28 320 7:00 2400 25.5 59.28 320 9:00 2520 25.5 59.28 320		<u> </u>							
21:00 1800 25.5 59.28 320 23:00 1920 25.5 57.28 320 14/10/94 1:00 2040 25.5 57.28 320 3:00 2160 25.5 59.28 320 320 5:00 2280 25.5 59.28 320 320 7:00 2400 25.5 59.28 320 320 9:00 250 25.5 59.28 320 320		<u> </u>	<u> </u>					A CALLER	
23:00 1920 25.5 59.28 320 14/10/94 1:00 2040 25.5 59.28 320 3:00 2140 25.5 59.28 320 5:00 2280 25.5 59.28 320 7:00 2400 25.5 59.28 320 9:00 2520 25.5 59.28 320		<u> </u>	<u> </u>		<u> </u>				
14/10/94 1:00 2040 25.5 59.28 320 3:00 2160 25.5 59.28 320 5:00 2280 25.5 59.28 320 7:00 2400 25.5 59.28 320 9:00 2520 25.5 59.28 320			_						
3:00 2160 25.5 59.28 320 5:00 2290 25.5 59.28 320 7:00 2400 25.5 59.28 320 9:00 2520 25.5 59.28 320		<u> </u>	·						
5:00 2280 25.5 59.26 320 7:00 2400 25.5 59.26 320 9:00 2520 25.5 59.26 320	14/10/94	<u></u>	 						
7:00 2400 25.5 59.29 320 9:00 2520 25.5 59.28 320		·	.						
9:00 2520 25.5 59.28 320		·					<u> 22 - 22 - 22 - 22 - 22 - 22 - 22 - 22</u>	a an	
			·						
(1999),1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999 1999年1月1日:1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1999年1月1日,1		1 1100		1	[37.20		<u>]</u>	

S	P	٢	Hoja	No.	3	Ĵ

	T I E	N.P.O			N N	ELES.	PRODUCCION	OUS	ERVACIONES
FECHA	Hora	Hinutos	Presión	Pulgadas	Dinámico	Estático	G.P.M.		
14/10/94	11:00	2640		25.5	59.36		320		
	13:00	2760		25.5	59 .5 8	2.55	320		
	15:00	2890		25.5	59.58		320	SE PARO PRUEBA	DE BONDEO.
		1			55.00			RECUPERACION D	EL POZO.
		2			54.00		(
		3			52.94				
		4			52.94				
		5			52.29				
		6			51.80				
		1			51.84				
		8			51.13				
		9			50.55				
		10			50.33				
		15			49.39				
		20			48.36				
		25			48.48				· · · · · · · · · · · · · · · · · · ·
		20			48.21				
		40			47.35				
		50			47.39				
		60			47.10				
		70			46.85		a t		
		80			46.63				
		90			46.43				
		120			45.98				
		150			45.58				
		180			45.34				
		210			45.12				
		240			44.93				

		N P 0	1 30		. H. L.V.	ELES		S.P.S. Hoja No. 4 Observaciones
FECHA	Hora	Ninutos	Presión	Pulgadas	Dinánico	Estático	G.P.N.	
4/10/94		300			15.09			alest i sterre i sterre i
		360			44.35			
		120			44.10			
	-(g. s.	480			43.86			
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						松在 了[
						06.16		
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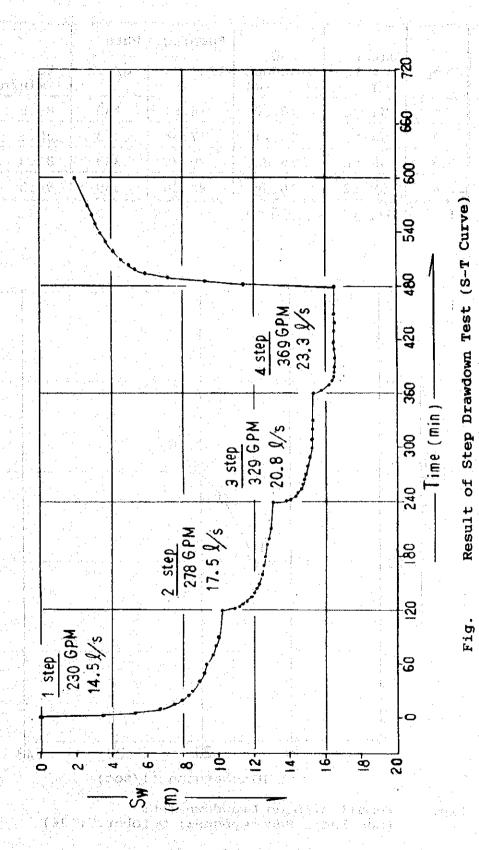
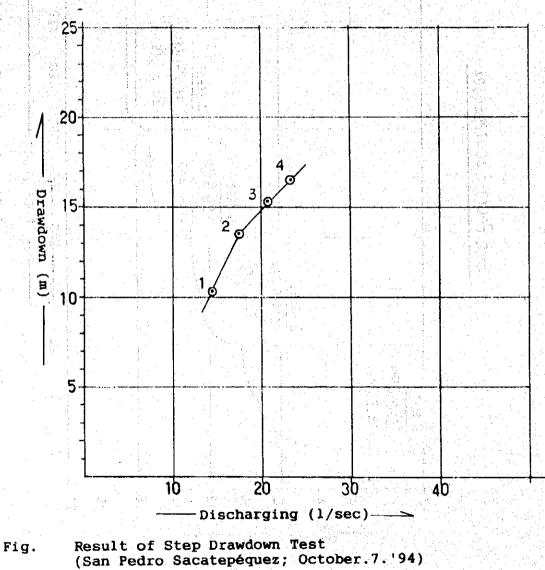


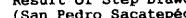
Fig.

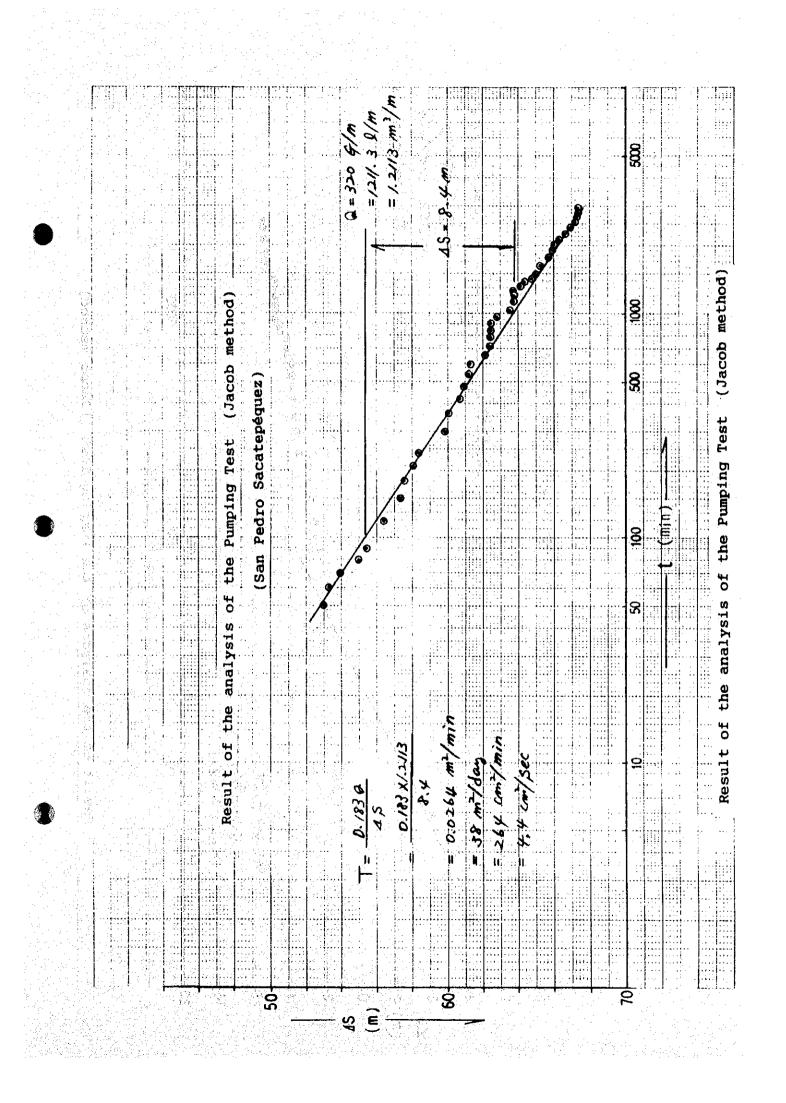
San Pedro Sacatepequez

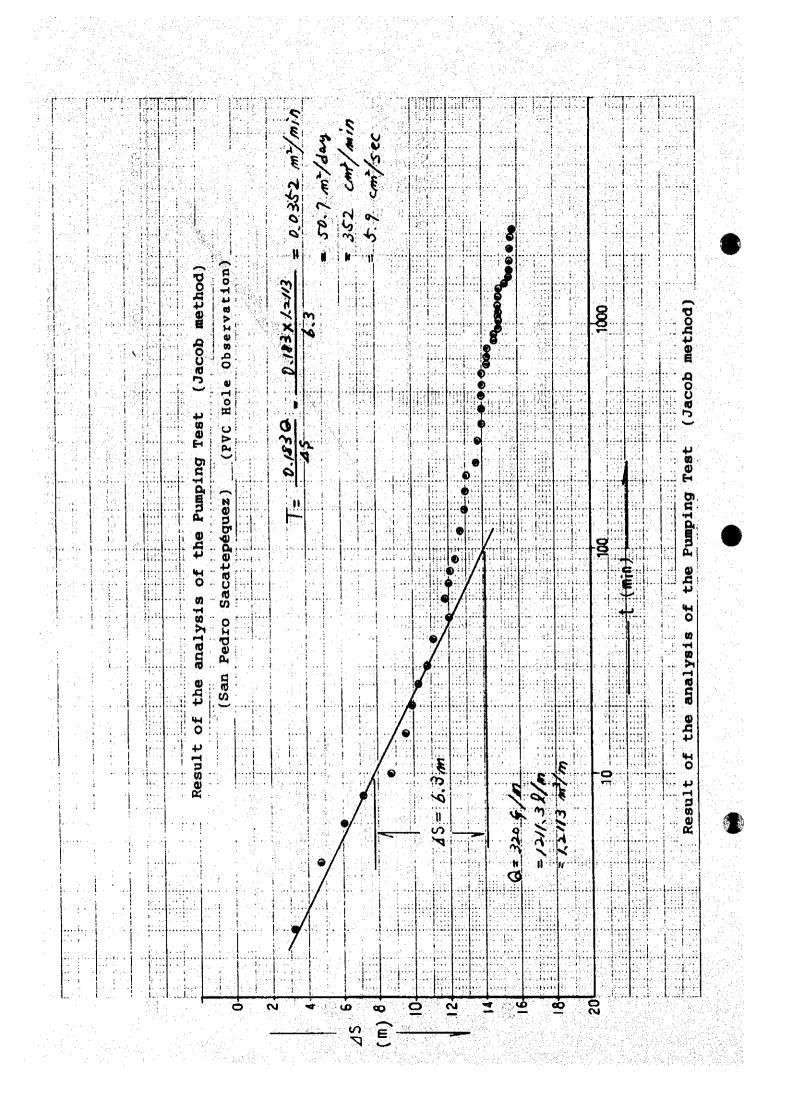
			Pumping	Rate		SW
Step	Water Level (m)	SW Drawdown (m)	1/s	g/min	Sc l/min/m	
1	51.86	10.30	14.51	230	84.5	11.83
2	54.67	13.11	17.54	278	80.3	12.46
3	56.88	15.32	20.75	329	81.3	12.30
4	58.12	16.56	23.28	369	84.3	11.85

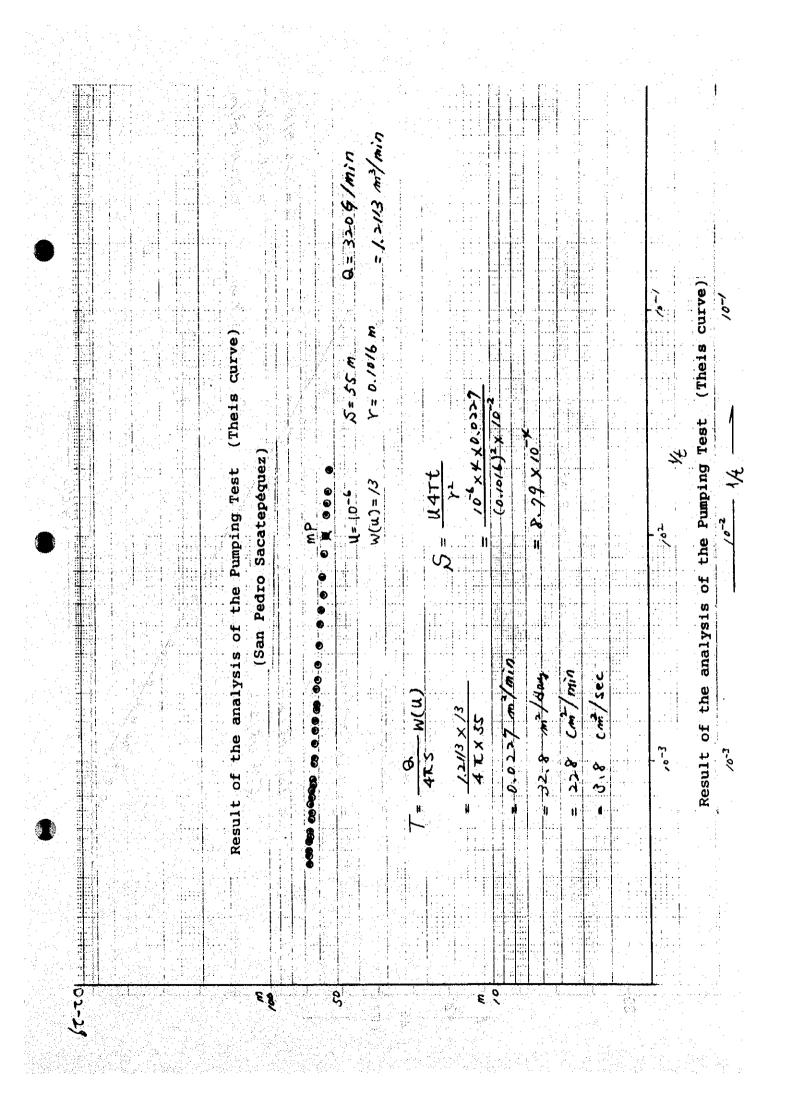
S.W.L= 41.56 m

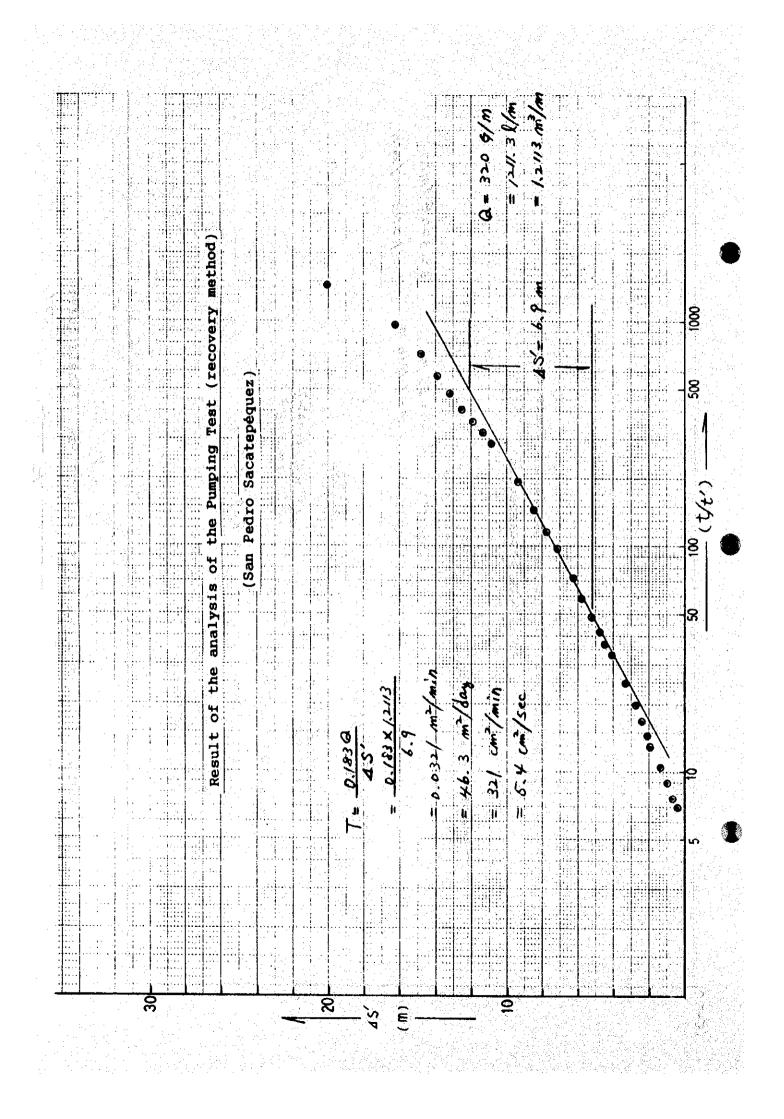


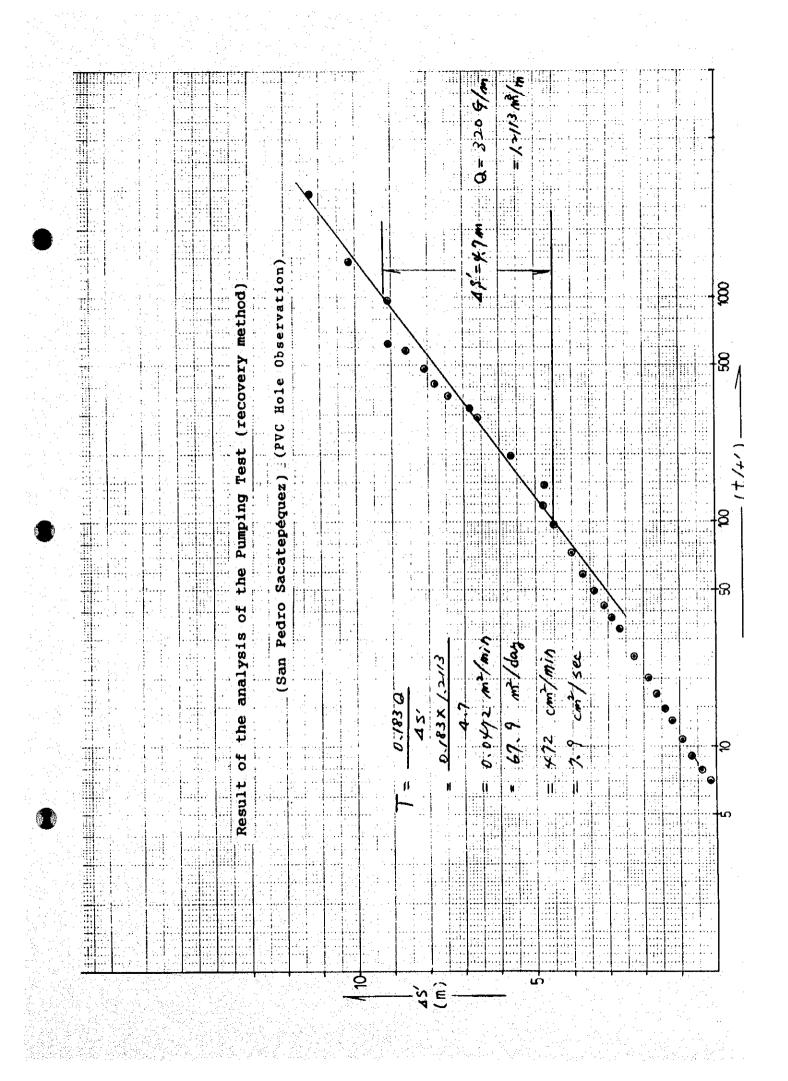












Result of pumping test

(Santa María de Jesús)

HIVEL DE HIVEL EST	ATICO 16	6.50 Hetro 3.16 Hetro	5	JICA	+, [,∥, f	0.W		GINDA) BONDA INSTAL PRODUCCION Zdonda de 14 Operador 3 d	.MA A 686	60 H.P.
	TIE	NPO			VIN .	ELES	PRODUCCION		I SERVACIONES	
FECHA	Hora	Minutos	Presión	Pelgadas	Dinánico	Estático	G.P.N.	PRUEDA DE DO	NBED ESCALONADI	••••••••••••••••••••••••••••••••••••••
04/11/94	11.20	0				163.16		PRIMER ESCAL	8N CON 230 GPN.	••••••••••••••••••••••••••••••••••••••
		2		12.5	165.47		230	NIVEL BE BON	NED MEDIDO COM	
		4		12.5	165.50		230	SONDA ELECTR	ICA.	
		6		12.5	165.53		230			· · · · · ·
	and and a second se Second second s Second second	8		12.5	165.53		230			
	an a	10		12.5	165.58		230			
		is		12.5	165.59		230			
an a		20		12.5	165.60		230			
	a ang ang ang ang ang ang ang ang ang an	25		12.5	. 145.60		230			
		30		12.5	165.63		230			
		40		12.5	165.63		230			
		50		12.5	165.64		230			
				12.5	165.65	an a	230			
		70		12.5	165.65		230			
		80		12.5	165.65		230			
e 1973 - Angelander 1979 - Angelander 1979 - Angelander		90		12.5	165.65		230			· · · ·
		120		12.5	165.67		230			
		0		14	165.67		243	SEGUNDO ESCA	LON CON 243 GPH	l .
	an an an an an an An An An A	2		14	165.82		243			an teo
		••••••••••••••••••••••••••••••••••••••		14	165.93		243			
an an an an Angelan. An an Angelan	an de parte de la Seconda de la composition de la composition de la composition de	6			165.83		243			
		8			165.83		243			
an a	a miananan Ar matan	10.			165.83		243		> 	· · · ·
		15		10	165.83		243			
		20		11	165.83		243			

	T I E	N P 0	12.3740.363		A LY	ELES	PRODUCCION	OBSERVACIONES
FECHN	llora	Himtos	Presión	Pulgadas	Dindeico	Estático	S.P.H.	
04/11/94		25		198 14 2	165.83		243	
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	30			145.83		243	
		40		14	165.83		243	
	1997 - 1997 - 1997 1997 - 1997 - 1998 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	50		14	145.83	and a second s	243	
		6		14	165.84		243	
an a		70		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	165.84	an an taon References	243	
		. 10		14	165.84		243	
				14. 14.	165.84	en en territe gias parts da	243	
		120			165.85		243	
		0		15	165.85		250	TERCEN ESCALON CON 250 GPN.
		2		15	165.94		250	
				15 a. at 15 a.	165.94		250	
n Antonique estavo Antoni		6		15	165.94		250	
		8		15	165.95		250	
		10		15	165.95		259	
		15		15	145.95		259	
an an Ara Ara		20		1 15	165.96		250	
		25 .		15	165,96		259	
		30		15	165.97		250	
	 	10		15	165.97		250	
 		50		15	165.98		250	
		. 60		15	165.98		250	
		70		15	165.99		250	
		80		15	165.99		259	
	<u> </u>	90		15	166.00		250	n a sene a sere a sere a sere a participante de la sere de la sere La sere de la sere de l La sere de la sere de l
		120		15	146.00	5 (1 () () () () () () () () ()	250	
· · · · ·		. 0 .		16.5	166.00		261	CUNRTO ESCALON CON 261 GPM.
L	1	2		16.5	166.12		261	

		1.1.2.2	1.2			
÷	Ŷ	196		1.44	16.4	1.0

	≷.∦T⊢t∍E	N P O		i dansh	NEV	ELES	PRODUCCION	S.M. de Diiservaci	
FECHA	Hora	Ninutos	Presión	Pulgadas	Din da ico	Estático	6.P.N.		
04/11/74		4		16.5	166.12		261		
		6		:16.5	166.13	建合金	261		
		8		16.5	166.14		261		
		10	an in the s	16.5	156.14		261		· · · · · · · · · · · · · · · · · · ·
		1 5 3.55		16.5	166.14		261		-
		20		16.5	166.14		261		
		25		16.5	166.14		261		
		30		16.5	166.14		261		
		40		16.5	166.15		261		
		50		16.5	166.15		261		
		60		16.5	166.13		261		
		70		16.5	166.16		261		
		80		16.5	166.17		261		
		90		16.5	166.17		261		
		120		16.5	166.17		261		· · · · · · · · · · · · · · · · · · ·
		0		17.5	166.17		282	QUINTO ESCALON CON	282 GPN.
		2		19.5	166.40		282		
		4		19.5	166.42		282		
		6		19.5	166.44		282		
		8		19.5	166.44		292		: : :
		10		19.5	166.44		282		
		15		19.5	166.45	-	202		
		20		19.5	166.45		202		
		25		19.5	166.47		282	:	· .
		30		19.5	166.47		292		
		40		19.5	166.49	<u>.</u>	282		
		50		19.5	166.49		292		- :
		60		19.5	166.49		282		

	e î î î	# P D			N T V	ELES	PRODUCCION	CESEIVIC IONES
FECHA	Hora	Hinutos	Presión	Pulgadas	Dintaico	Estátice	6. P.A .	an ann an Arth
04/11/94		70		19.5	166.49		282	
		80		19.5	166.50		282	
		90		19.5	166.50		282	
		120		19.5	166.50	44. do.)	282	SE PARD PRIEDA DE DONDED.
		2			163.78			RECUPERNCION DEL POZO.
					163.76			
		6			143.73	(jage 1		
		8			163.82	31,434	1. A.S.	
		10			163.84			Х.
		15			146.86			
		20			163.88			
		25		1.15	163.87			
		30			163.84			
		40			143.02			
		50		10	163.81			
	ang ng ng line ang ng ng line	60			163.80			
		70		1947	163.80			
· .		80			163.80			
		90		- 3.12 - 1	163.79	A. S.		
		120			163.77			
·····						1 1 1 3 3 1 .		
··								
						2. 28 pt		
		· ·					44	
		. 						
L	<u> </u>							

	en tel	المعاشية المعادية	1	a service a service of the service o				DUMACTON)
NIVEL EST	ATICO 16	5.72 Netro	5					PRODUCTION 282 G.P.N. PRODUCTION 282 G.P.N. DONON DE 14 ETAPAS, DE: 60 OPERADOR : RIGODERTO GUDIEL F
	TIE	NPO			NI V	ELES	PRODUCCION	OBSERVACIONES
FECHA	Hora	Hinutos	Presión	Pulgadas	Dinànico	Estático	G.P.N.	
05/11/94	7:00	0		<u> </u>		165.72		
		2		19.5	165.99		282	NIVEL DE DONDEO MEDIDO CON
				17.5	166.02		282	SUNDA ELECTRICA.
		6		19.5	166.96		282	
				19.5	166.10		282	
		10		19.5	166.13		282	
		15		19.5	166.15	and a second sec	282	
	ta de la composition de la composition de la composition	20		19.5	166.17		282	
		25		19.5	166.20		282	
	a di A	30		19.5	166.21		202	
		40		17.5	166.23		282	
	n Alana	50		19.5	166.24		282	
		60		19.5	166.75		282	
		70		19,5	166.25		282	
	n an	80		19.5	166.25		282	
		70		17.5	166.28		282	
		120		19.5	166.31		78 7	
	an an an an Sairtean an A	150		19.5	166.32		282	
		190		19.5	165.34		282	
		210		19.5	.66.36		282	
		240		19.5	166.37	1	282	
		300		19.5	166.40		282	
		360		19.5	166.42		282	
		420		19,5	166.45		282	

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	T I E	NPO	UNE HITE	(19) Ø	N IV	ELES	PRODUCCION	OUSERVICIPHES
FECHA	Hora	Ninetos	Presión	Pelgadas	Dinàmico	Estático	6.7.8.	
		540		19.5	166.48		202	
				19.5	166.49		202	
		660		19.5	166.40		282	
		720		19.5	146.49		282	
		780		19.5	166.48		282	
		840		19.5	166.40		202	
		990		17.5	166.49		787	
		760		19.5	166.50		282	
		1020		19,5	166.50		702	
n an		1989		19.5	166.51		282	
<u></u>		1140 mm		19.5	166.51	n an an thair Thirthe an thair Thirthe an thair	282	
		1200		19.5	146.53		202	
	n an	1260		19.5	166.53		282	
		1320		19.5	166.55		282	
· · · · · ·		1390		19.5	166.57		282	
		1440		19.5	166.57		282	
		1500	· · · · ·	19.5	166.57	la serie de la s	282	
		1560		19.5	166.58		282	
-		1620		19.5	166.59		202	
		1680		19.5	166.59		282	
		1740		19.5	166.59		282	
·		1800		19.5	166.61		282	
		1920		19.5	166.61	1	282	
1.9		2040		19.5	166462		282	
		2160		19.5	166.63		282	
		2280		19.5	166.63		282	
		2400		19.5	166.66		282	

3. Sec. Sec.

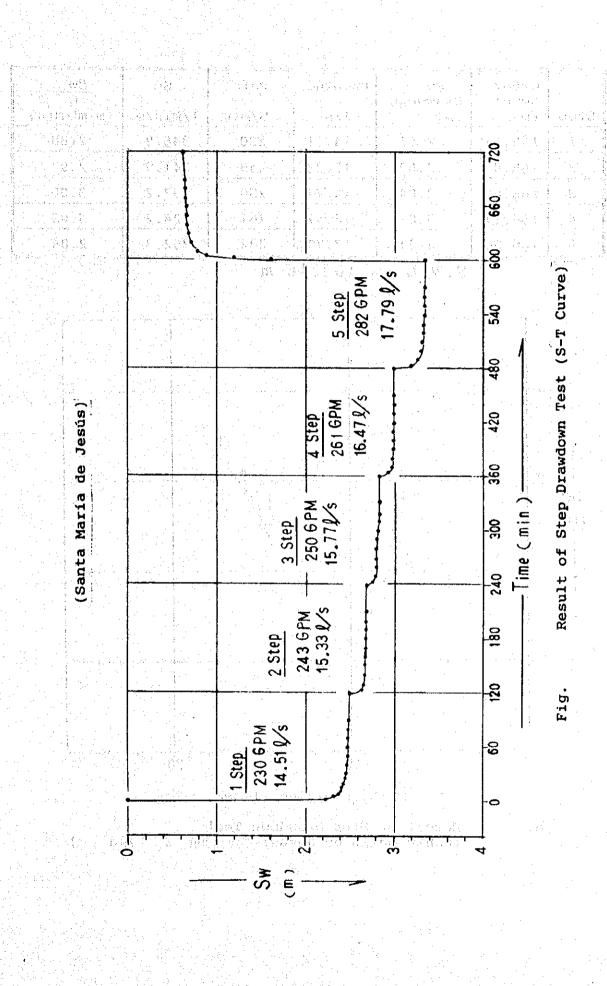
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	1.1033	1.51	14.1	2
			9.12	14 .

an sa 'n Artes artes		N P O	Γ	nates	S. N. LEVE	ELES	PRODUCCION	S. H. de 5 Hoja No. OBSERVACIONES
FECHA	Hora	Ninutos	Presión	Pulgadas	Dinànico	Estático	6.P.N.	eles logitati parti data
		2640		19.5	166.69		202	
		2760		19.5	166.69		202	
		2890		19.5	166.69		202	SE PARO PRIJEBA DE BONBEO.
					164.12			RECUPERACION BEL POZO.
		2			164.00			
		3			163.98			
		•			163.98			
		5			163.98			
		6			164.00			
		7			164.05			
		8			164.14			
		9			164.19			
		10			164.19	· · · · · · · · · · · · · · · · · · ·		
		15			164.18			
		20			164.17			
		25			164.16			
		30			164.16			
		40			164.13			
		50			164.12			
		60			164.11			
		70			164.10			
		80			164.10			
		90			164.09			
		120			164.07			
		150			164.06			
		160			164.06			
		210			164.05			
		240			164.04			

	1.2	13 4.1	
 ä. 14		÷.	1.01
3-14-11	1 1 1	1.11	- 1,2 -

	- 1 I E	N P 0		经合理性	1 I I V	E L E S	PRODUCCION	DESERVACIONES	
FECHA	Hora	Ninutos	Presida	Pulgadas	Vintaico	Estático	G.P.N.		
		300			164.01				
		360			163.99				
		120			163.97				
	6163	. (80) - g			163.95				
			44. 1						
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Step	Water Level (m)	Sw Drawdown (m)	Pumping	Rate G/min	Sc 1/min/m	<u>Sw</u> Q (m/m³/min)
			1/s			
1	165.67	2.51	14.51	230	346.9	2.88
2	165.85	2.69	15.33	243	341.9	2.92
3	166.00	2.84	15.77	250	333.2	3.00
4	166,17	3.01	16.47	261	328.2	3.05
5	166.50	3.34	17.79	282	352.3	2.84

S.W.L. = 163.16 m

