



**PRUEBA DE BOMBEO FASE DE RECUPERACIÓN**

Propietario del Pozo : Colegio Max Uhle  
 Ejecutores : ANA  
 Interpretada por : ANA  
 Caudal de Bombeo : 3.5348 litros/seg  
 Fecha : 03/09/2018

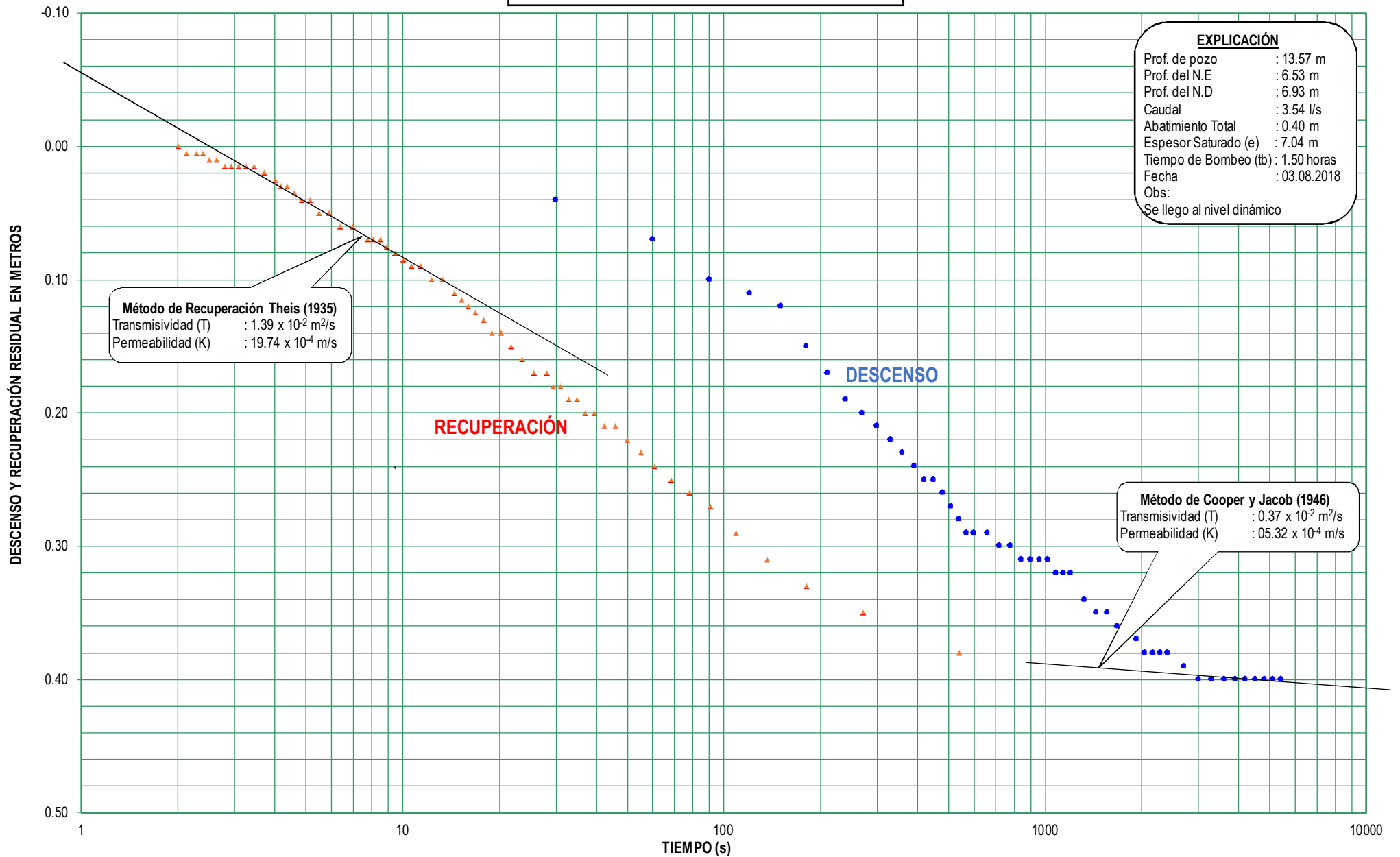
IRHS : 04/01/17-1  
 NE (Nivel Estático) : 6.53  
 ND (Nivel Dinámico) : 6.93  
 Tiempo de Bombeo (tb) : 1.5 horas  
 Hora Inicio : 09:55 AM

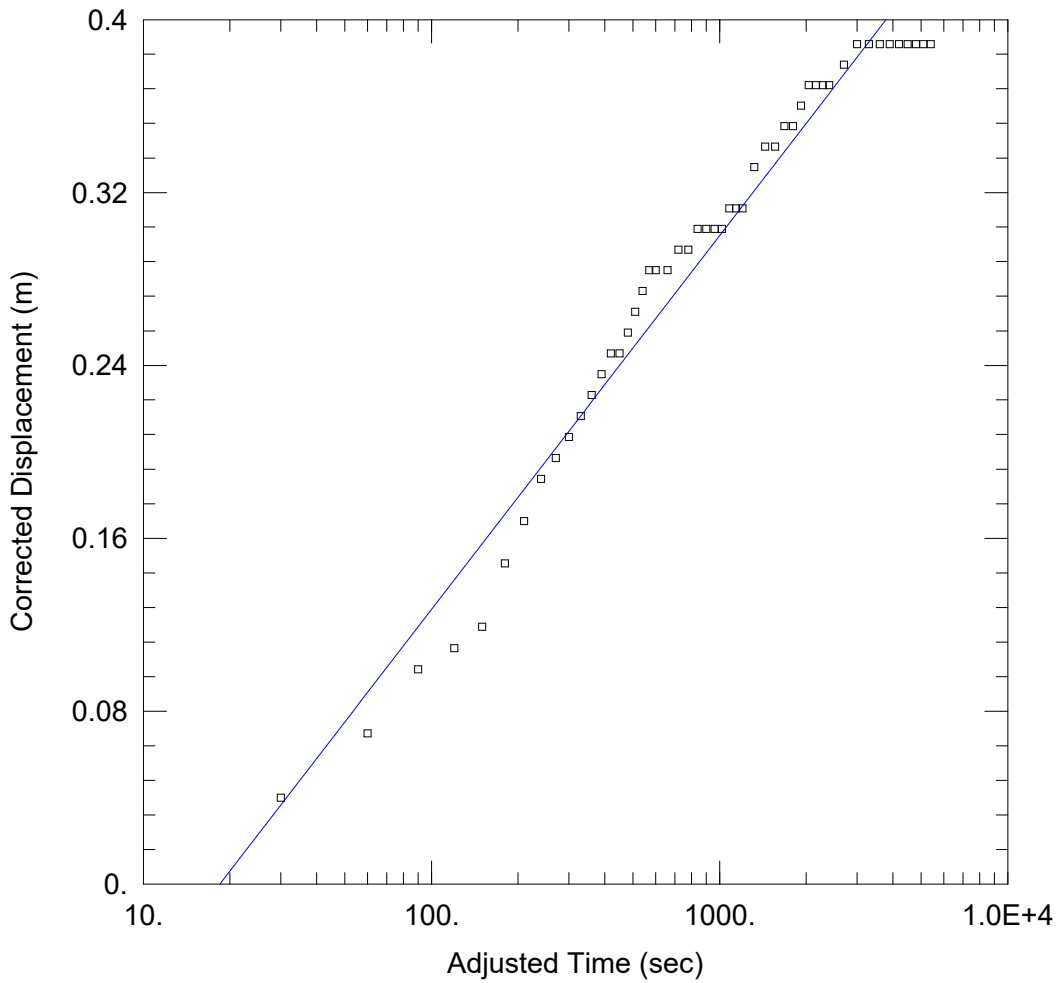
Departamento : Arequipa  
 Provincia : Arequipa  
 Distrito : Sachaca  
 Sector :  
 Hora Final : AM

TIEMPO					DESCENSO DEL NIVEL DE AGUA				
Dias	Hora	Min	Seg	T/t+1	MEDIDA DE NIVELES SIN P.R.	P.R. (m)	Prof ND/Suelo (m)	Abatimiento (m)	Obs
			0		10.930	-4	6.930	0.400	
			30	541.00	10.910	-4	6.910	0.380	
		1	60	271.00	10.880	-4	6.880	0.350	
			90	181.00	10.860	-4	6.860	0.330	
		2	120	136.00	10.840	-4	6.840	0.310	
			150	109.00	10.820	-4	6.820	0.290	
		3	180	91.00	10.800	-4	6.800	0.270	
			210	78.14	10.790	-4	6.790	0.260	
		4	240	68.50	10.780	-4	6.780	0.250	
			270	61.00	10.770	-4	6.770	0.240	
		5	300	55.00	10.760	-4	6.760	0.230	
			330	50.09	10.750	-4	6.750	0.220	
		6	360	46.00	10.740	-4	6.740	0.210	
			390	42.54	10.740	-4	6.740	0.210	
		7	420	39.57	10.730	-4	6.730	0.200	
			450	37.00	10.730	-4	6.730	0.200	
		8	480	34.75	10.720	-4	6.720	0.190	
			510	32.76	10.720	-4	6.720	0.190	
		9	540	31.00	10.710	-4	6.710	0.180	
			570	29.42	10.710	-4	6.710	0.180	
		10	600	28.00	10.700	-4	6.700	0.170	
			660	25.55	10.700	-4	6.700	0.170	
		12	720	23.50	10.690	-4	6.690	0.160	
			780	21.77	10.680	-4	6.680	0.150	
		14	840	20.29	10.670	-4	6.670	0.140	
			900	19.00	10.670	-4	6.670	0.140	
		16	960	17.88	10.660	-4	6.660	0.130	
			1020	16.88	10.655	-4	6.655	0.125	
		18	1080	16.00	10.650	-4	6.650	0.120	
			1140	15.21	10.645	-4	6.645	0.115	
		20	1200	14.50	10.640	-4	6.640	0.110	
			1320	13.27	10.630	-4	6.630	0.100	
		24	1440	12.25	10.630	-4	6.630	0.100	
			1560	11.38	10.620	-4	6.620	0.090	
		28	1680	10.64	10.620	-4	6.620	0.090	
			1800	10.00	10.615	-4	6.615	0.085	
		32	1920	9.44	10.610	-4	6.610	0.080	
			2040	8.94	10.605	-4	6.605	0.075	
		36	2160	8.50	10.600	-4	6.600	0.070	
			2280	8.11	10.600	-4	6.600	0.070	
		40	2400	7.75	10.600	-4	6.600	0.070	
			2700	7.00	10.590	-4	6.590	0.060	
		50	3000	6.40	10.590	-4	6.590	0.060	
			3300	5.91	10.580	-4	6.580	0.050	
	1	60	3600	5.50	10.580	-4	6.580	0.050	
			3900	5.15	10.570	-4	6.570	0.040	
		70	4200	4.86	10.570	-4	6.570	0.040	
			4500	4.60	10.565	-4	6.565	0.035	
		80	4800	4.38	10.560	-4	6.560	0.030	
			5100	4.18	10.560	-4	6.560	0.030	
		90	5400	4.00	10.555	-4	6.555	0.025	
			6000	3.70	10.550	-4	6.550	0.020	
		110	6600	3.45	10.545	-4	6.545	0.015	



**PRUEBA DE BOMBEO EN POZO A TAJO ABIERTO - SACHACA**  
**POZO N° IRHS 04/01/17 - 1**  
**FASE DE DESCENSO Y RECUPERACIÓN**





WELL TEST ANALYSIS

Data Set: F:\...\PRUEBA2\_DESCENSO.aqt  
 Date: 10/28/18

Time: 21:19:13

PROJECT INFORMATION

Company: ANA  
 Client: DCERH  
 Project: 01  
 Location: AREQUIPA  
 Test Well: POZO 422  
 Test Date: 03/08/2018

AQUIFER DATA

Saturated Thickness: 7.04 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
17 - 1	225712	8181645

Observation Wells

Well Name	X (m)	Y (m)
□ 17 - 1	225712	8181645

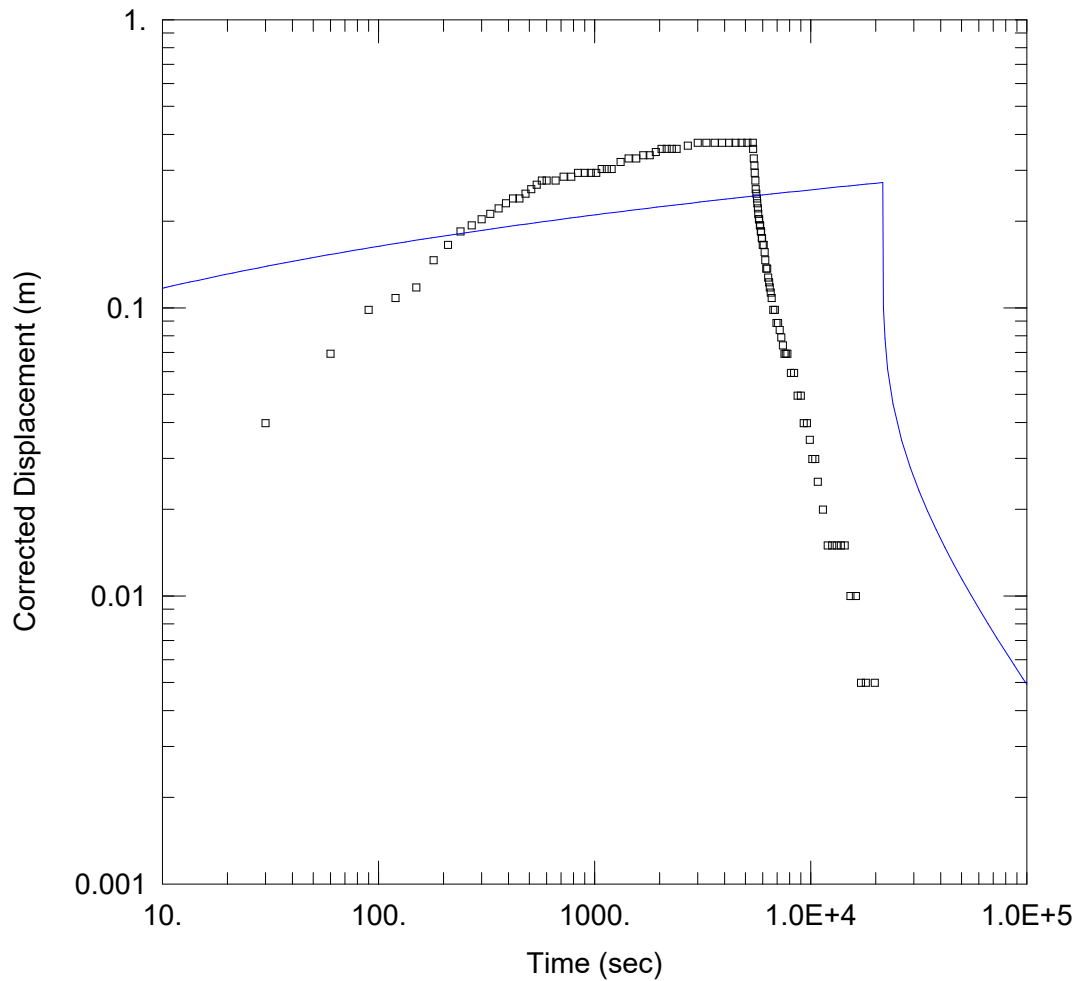
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 323.9 m<sup>2</sup>/day

S = 0.1553



### WELL TEST ANALYSIS

Data Set: F:\2018\CHILI GIS\4 HIDRAULICA\PRUEBA2 COLEGIO MAX UHLE Z-V\PRUEBA2.aqt  
 Date: 10/28/18 Time: 21:44:06

### PROJECT INFORMATION

Company: ANA  
 Client: DCERH  
 Project: 1  
 Location: AREQUIPA  
 Test Well: POZO 17-1  
 Test Date: 24/09/2018

### WELL DATA

#### Pumping Wells

Well Name	X (m)	Y (m)
1	0	0

#### Observation Wells

Well Name	X (m)	Y (m)
□ 1	0	0

### SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 1201.3 m<sup>2</sup>/day

S = 0.0009694

Kz/Kr = 1.

b = 3.04 m

**PRUEBA DE BOMBEO FASE DE DESCENSO**

Propietario del Pozo : Pampas Santa Ana  
 Ejecutores : ANA  
 Interpretada por : ANA  
 Caudal de Bombeo : 7.59 litros/seg  
 Fecha : 26/10/2018

IRHS : 04/01/11 - 05  
 NE (Nivel Estático) : 52.86  
 ND (Nivel Dinámico) : 58.92  
 Tiempo de Bombeo (tb) : 0.67 horas  
 Hora Inicio : 09:45 AM

Departamento : Arequipa  
 Provincia : Arequipa  
 Distrito : Mollebaya  
 Sector :  
 Hora Final : 10:25 PM

TIEMPO				CAUDAL	DESCENSO DEL NIVEL DE AGUA					
Dias	Hora	Min	Seg	l/s	MEDIDA DE NIVELES SIN P.R.	P.R. (m)	Prof	ND/Suelo (m)	Abatimiento (m)	Obs
		0	0	7.59	52.710	0.15		52.860	0.000	
			30	7.59	52.910	0.15		53.060	0.200	
		1	60	7.59	53.030	0.15		53.180	0.320	
			90	7.59	53.160	0.15		53.310	0.450	
		2	120	7.59	53.270	0.15		53.420	0.560	
			150	7.59	53.380	0.15		53.530	0.670	
		3	180	7.59	53.470	0.15		53.620	0.760	
			210	7.59	53.580	0.15		53.730	0.870	
		4	240	7.59	53.670	0.15		53.820	0.960	
			270	7.59	53.770	0.15		53.920	1.060	
		5	300	7.59	53.850	0.15		54.000	1.140	
			330	7.59	53.950	0.15		54.100	1.240	
		6	360	7.59	54.030	0.15		54.180	1.320	
			390	7.59	54.120	0.15		54.270	1.410	
		7	420	7.59	54.200	0.15		54.350	1.490	
			450	7.59	54.280	0.15		54.430	1.570	
		8	480	7.59	54.370	0.15		54.520	1.660	
			510	7.59	54.460	0.15		54.610	1.750	
		9	540	7.59	54.540	0.15		54.690	1.830	
			570	7.59	54.630	0.15		54.780	1.920	
		10	600	7.59	54.700	0.15		54.850	1.990	
			660	7.59	54.880	0.15		55.030	2.170	
		12	720	7.59	55.040	0.15		55.190	2.330	
			780	7.59	55.200	0.15		55.350	2.490	
		14	840	7.59	55.340	0.15		55.490	2.630	
			900	7.59	55.480	0.15		55.630	2.770	
		16	960	7.59	55.610	0.15		55.760	2.900	
			1020	7.59	55.760	0.15		55.910	3.050	
		18	1080	7.59	55.890	0.15		56.040	3.180	
			1140	7.59	56.020	0.15		56.170	3.310	
		20	1200	7.59	56.150	0.15		56.300	3.440	
			1320	7.59	56.420	0.15		56.570	3.710	
		24	1440	7.59	56.630	0.15		56.780	3.920	
			1560	7.59	56.850	0.15		57.000	4.140	
		28	1680	7.59	57.070	0.15		57.220	4.360	
			1800	7.59	57.290	0.15		57.440	4.580	
		32	1920	7.59	57.530	0.15		57.680	4.820	
			2040	7.59	57.780	0.15		57.930	5.070	
		36	2160	7.59	58.090	0.15		58.240	5.380	
			2280	7.59	58.400	0.15		58.550	5.690	
		40	2400	7.59	58.770	0.15		58.920	6.060	
			2700							
		50	3000							
			3300							
	1	60	3600							
			3900							
		70	4200							
			4500							
		80	4800							
			5100							
		90	5400							
			6000							
		110	6600							

**PRUEBA DE BOMBEO FASE DE RECUPERACIÓN**

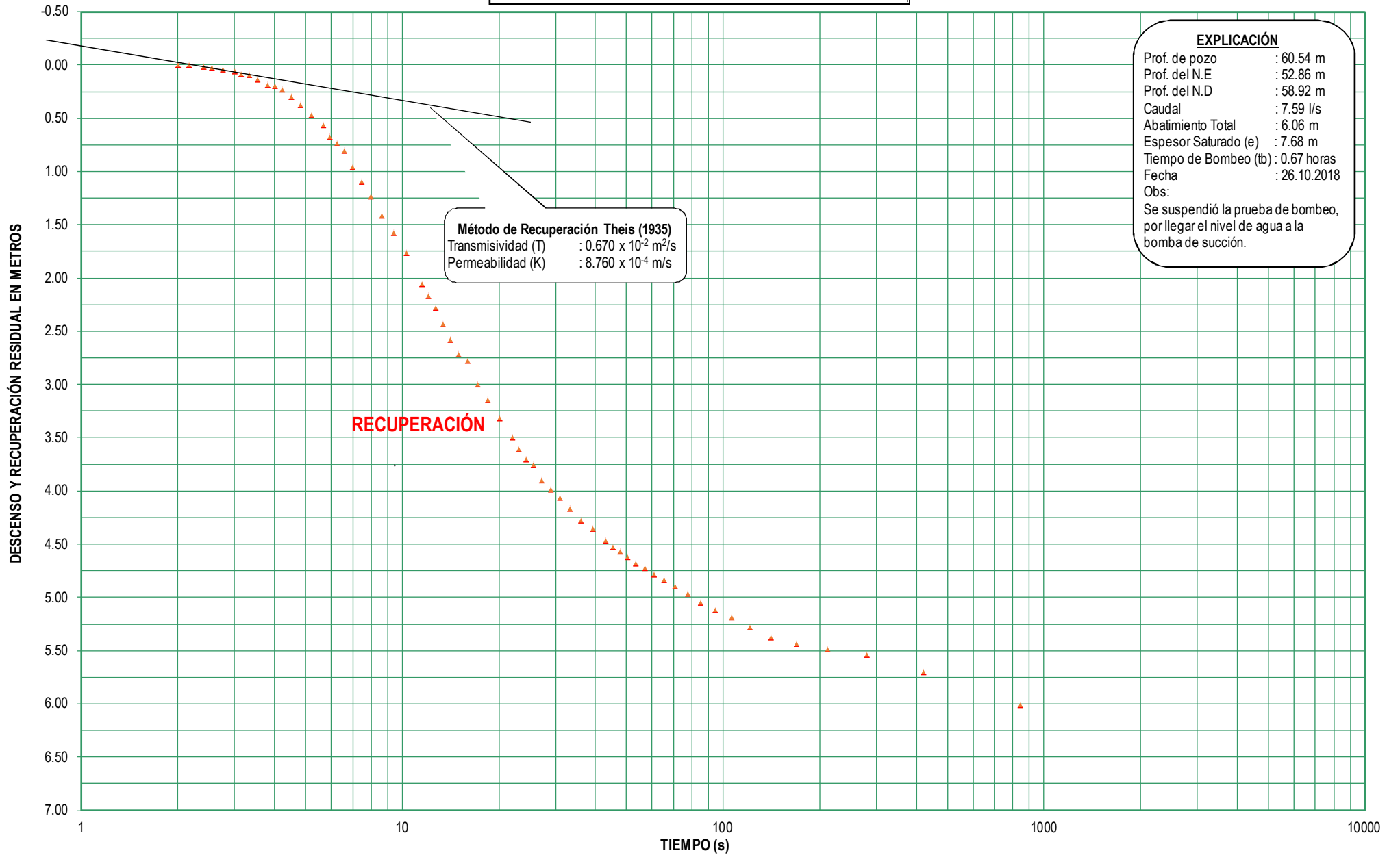
<b>Propietario del Pozo</b> : Pampas Santa Ana	<b>IRHS</b> : 04/01/11 - 05	<b>Departamento</b> : Arequipa
<b>Ejecutores</b> : ANA	<b>NE (Nivel Estático)</b> : 52.86	<b>Provincia</b> : Arequipa
<b>Interpretada por</b> : ANA	<b>ND (Nivel Dinámico)</b> : 58.92	<b>Distrito</b> : Mollebaya
<b>Caudal de Bombeo</b> : 7.59 litros/seg	<b>Tiempo de recuperación</b> : 7.00 horas	<b>Sector</b> :
<b>Fecha</b> : 26/10/2018	<b>Hora Inicio</b> : 10:25 AM	<b>Hora Final</b> : 17:25 PM

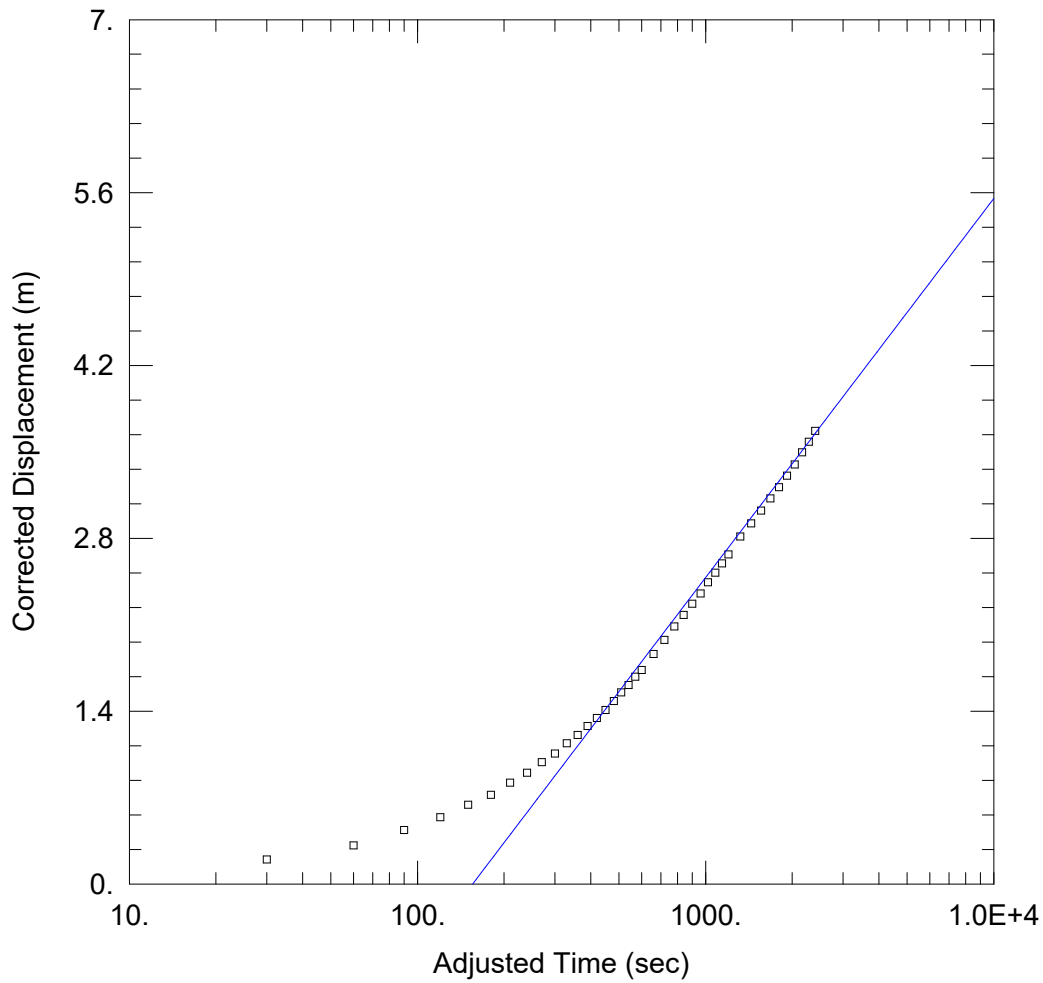
TIEMPO					RECUPERACIÓN DEL NIVEL DE AGUA					
Dias	Hora	Min	Seg	T/t+1	MEDIDA DE NIVELES SIN P.R.	P.R. (m)	Prof	ND/Suelo (m)	Abatimiento (m)	Obs
			0		58.770	0.15		58.920	6.060	
			30	841.00	58.720	0.15		58.870	6.010	
		1	60	421.00	58.410	0.15		58.560	5.700	
			90	281.00	58.250	0.15		58.400	5.540	
		2	120	211.00	58.200	0.15		58.350	5.490	
			150	169.00	58.150	0.15		58.300	5.440	
		3	180	141.00	58.090	0.15		58.240	5.380	
			210	121.00	57.990	0.15		58.140	5.280	
		4	240	106.00	57.900	0.15		58.050	5.190	
			270	94.33	57.830	0.15		57.980	5.120	
		5	300	85.00	57.760	0.15		57.910	5.050	
			330	77.36	57.680	0.15		57.830	4.970	
		6	360	71.00	57.610	0.15		57.760	4.900	
			390	65.62	57.550	0.15		57.700	4.840	
		7	420	61.00	57.500	0.15		57.650	4.790	
			450	57.00	57.440	0.15		57.590	4.730	
		8	480	53.50	57.390	0.15		57.540	4.680	
			510	50.41	57.330	0.15		57.480	4.620	
		9	540	47.67	57.280	0.15		57.430	4.570	
			570	45.21	57.240	0.15		57.390	4.530	
		10	600	43.00	57.180	0.15		57.330	4.470	
			660	39.18	57.070	0.15		57.220	4.360	
		12	720	36.00	56.990	0.15		57.140	4.280	
		13	780	33.31	56.880	0.15		57.030	4.170	
		14	840	31.00	56.780	0.15		56.930	4.070	
		15	900	29.00	56.700	0.15		56.850	3.990	
		16	960	27.25	56.610	0.15		56.760	3.900	
		17	1020	25.71	56.470	0.15		56.620	3.760	
		18	1080	24.33	56.420	0.15		56.570	3.710	
		19	1140	23.11	56.320	0.15		56.470	3.610	
		20	1200	22.00	56.210	0.15		56.360	3.500	
		22	1320	20.09	56.030	0.15		56.180	3.320	
		24	1440	18.50	55.860	0.15		56.010	3.150	
		26	1560	17.15	55.710	0.15		55.860	3.000	
		28	1680	16.00	55.490	0.15		55.640	2.780	
		30	1800	15.00	55.430	0.15		55.580	2.720	
		32	1920	14.13	55.290	0.15		55.440	2.580	
		34	2040	13.35	55.150	0.15		55.300	2.440	
		36	2160	12.67	54.990	0.15		55.140	2.280	
		38	2280	12.05	54.880	0.15		55.030	2.170	
		40	2400	11.50	54.770	0.15		54.920	2.060	
		45	2700	10.33	54.480	0.15		54.630	1.770	
		50	3000	9.40	54.290	0.15		54.440	1.580	
		55	3300	8.64	54.130	0.15		54.280	1.420	
	1	60	3600	8.00	53.950	0.15		54.100	1.240	
		65	3900	7.46	53.810	0.15		53.960	1.100	
		70	4200	7.00	53.670	0.15		53.820	0.960	
		75	4500	6.60	53.520	0.15		53.670	0.810	
		80	4800	6.25	53.450	0.15		53.600	0.740	
		85	5100	5.94	53.390	0.15		53.540	0.680	
		90	5400	5.67	53.280	0.15		53.430	0.570	
		100	6000	5.20	53.180	0.15		53.330	0.470	
		110	6600	4.82	53.090	0.15		53.240	0.380	





PRUEBA DE BOMBEO EN POZO A TAJO ABIERTO - MOLLEBAYA  
POZO N° IRHS 04/01/11 - 05  
FASE DE DESCENSO Y RECUPERACIÓN





PRUEBA DE BOMBEO

Data Set: F:\...\PRUEBA5\_DESCENSO.aqt

Date: 11/02/18

Time: 11:51:37

PROJECT INFORMATION

Company: ANA

Client: DCERH

Project: 05

Location: AREQUIPA

Test Well: POZO 11 - 05

Test Date: 26/10/2018

AQUIFER DATA

Saturated Thickness: 7.68 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
IRHS 11 - 05	234019	8175274

Observation Wells

Well Name	X (m)	Y (m)
□ IRHS 11 - 05	234019	8175274

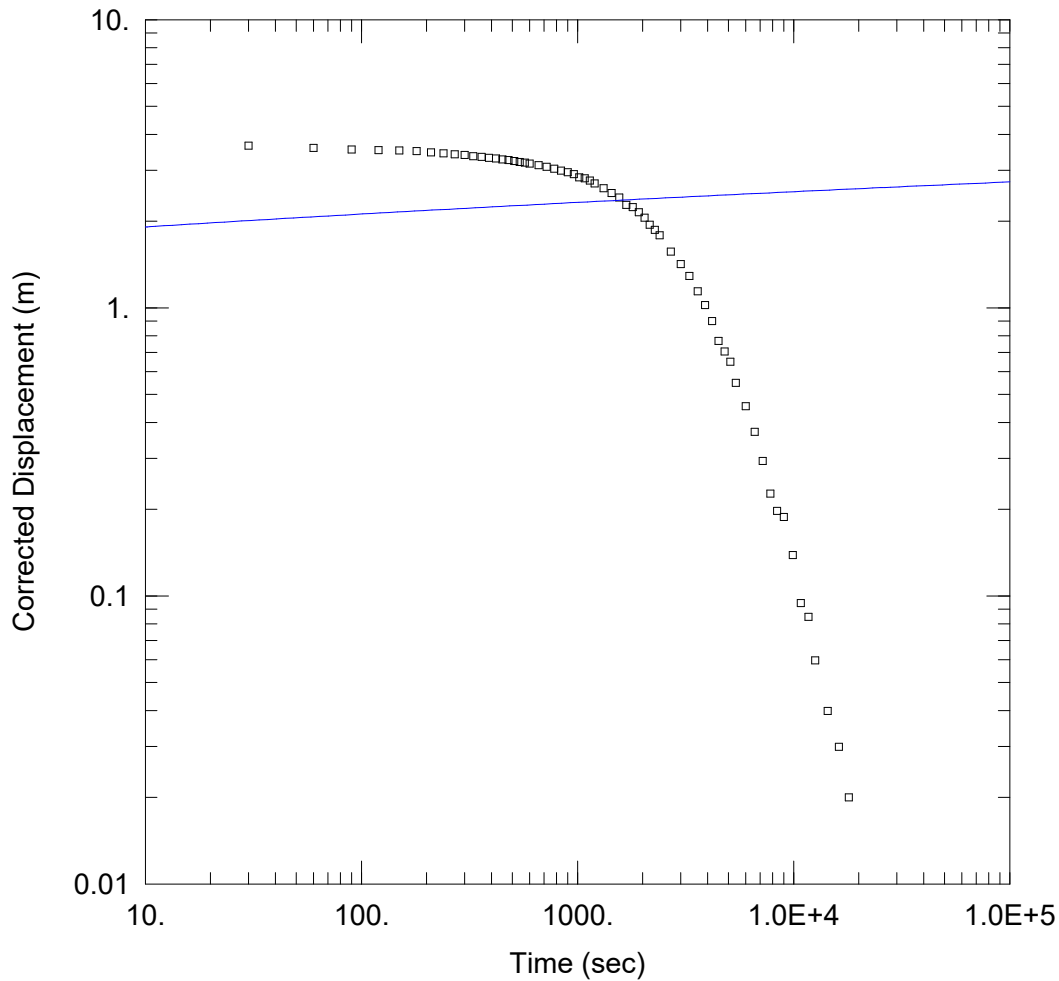
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 39.15 m<sup>2</sup>/day

S = 0.1581



PRUEBA RECUPERACIÓN

Data Set: F:\...\PRUEBA5\_recuperacion.aqt

Date: 11/02/18

Time: 11:56:17

PROJECT INFORMATION

Company: ANA

Client: DCERH

Project: 05

Location: AREQUIPA

Test Well: POZO 11 - 05

Test Date: 26/10/2018

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
IRHS 11 - 05	234019	8175274

Observation Wells

Well Name	X (m)	Y (m)
□ IRHS 11 - 05	234019	8175274

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 581.3 m<sup>2</sup>/day

S = 8.862E-11

Kz/Kr = 1.

b = 7.68 m



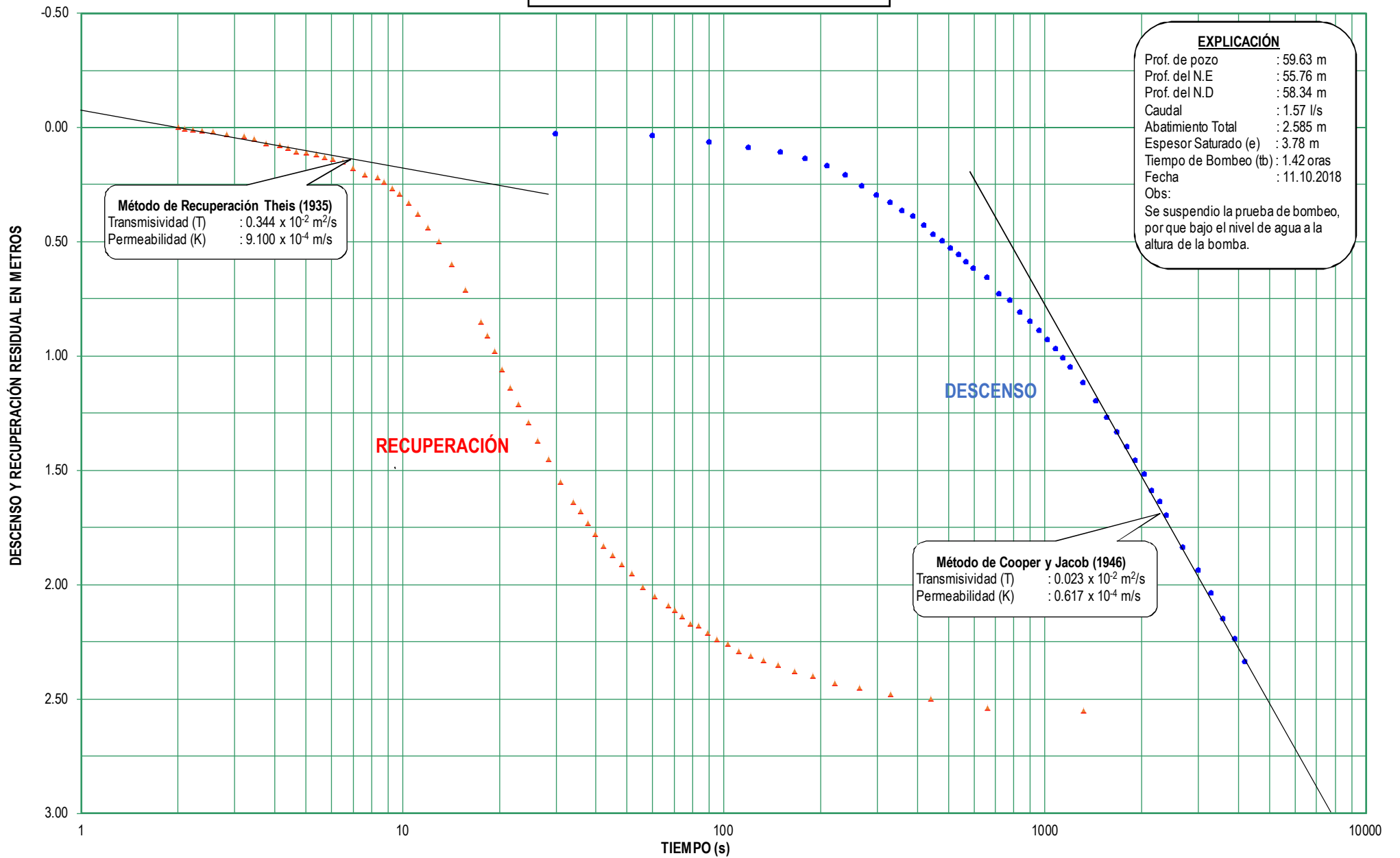
**PRUEBA DE BOMBEO FASE DE RECUPERACIÓN**

<b>Propietario del Pozo</b> : Asoc. Civil La Rada	<b>IRHS</b> : 04/01/03 - 06	<b>Departamento</b> : Arequipa
<b>Ejecutores</b> : ANA	<b>NE (Nivel Estático)</b> : 55.76	<b>Provincia</b> : Arequipa
<b>Interpretada por</b> : ANA	<b>ND (Nivel Dinámico)</b> : 58.345	<b>Distrito</b> : Cayma
<b>Caudal de Bombeo</b> : 1.57 litros/seg	<b>Tiempo de Recuperación</b> : 11 horas	<b>Sector</b> :
<b>Fecha</b> : 03/08/2018	<b>Hora Inicio</b> : 07:50 AM	<b>Hora Final</b> : 18:50 PM

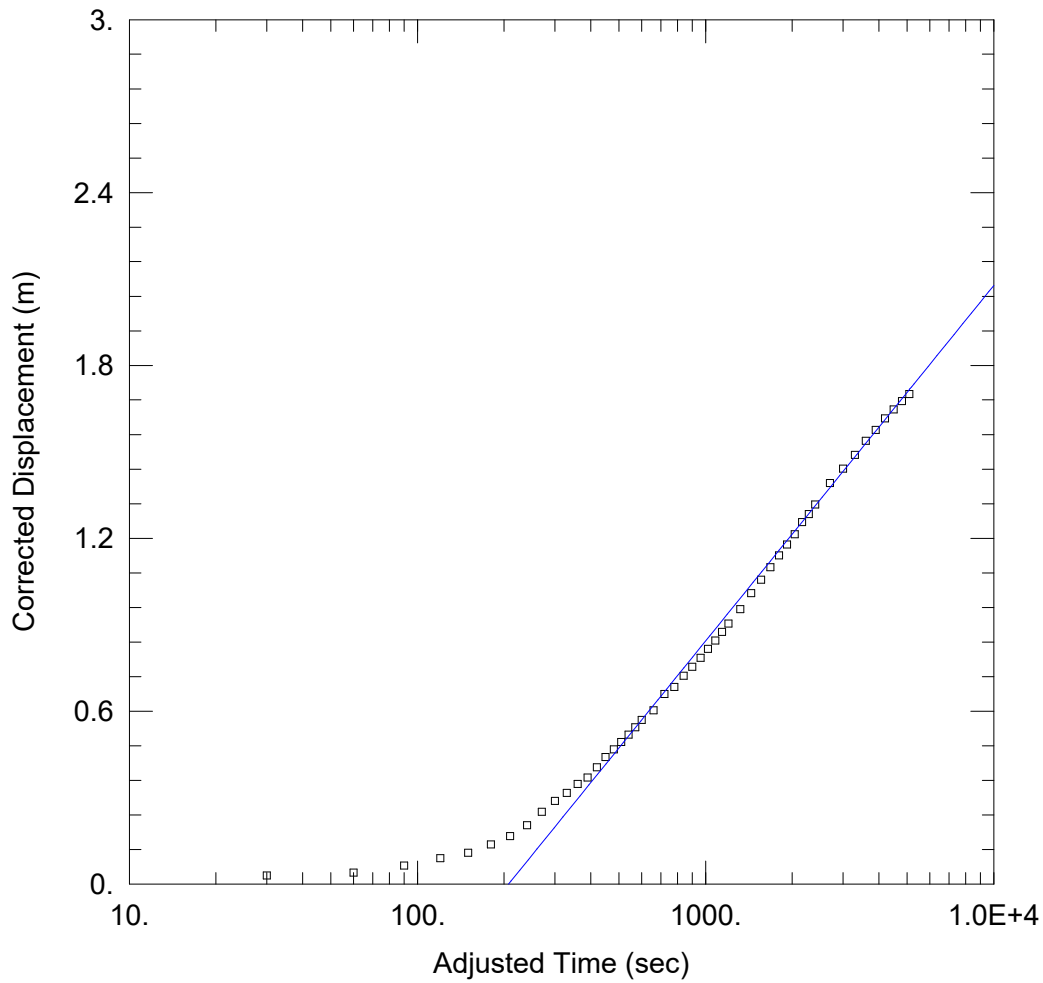
TIEMPO					RECUPERACIÓN DEL NIVEL DE AGUA					Obs
Dias	Hora	Min	Seg	T/t+1	MEDIDA DE NIVELES SIN P.R.	P.R. (m)	Prof	ND/Suelo (m)	Abatimiento (m)	
			0		57.495	0.85		58.345	2.585	
			30	1321.00	57.460	0.85		58.310	2.550	
		1	60	661.00	57.450	0.85		58.300	2.540	
			90	441.00	57.410	0.85		58.260	2.500	
		2	120	331.00	57.390	0.85		58.240	2.480	
			150	265.00	57.360	0.85		58.210	2.450	
		3	180	221.00	57.340	0.85		58.190	2.430	
			210	189.57	57.310	0.85		58.160	2.400	
		4	240	166.00	57.290	0.85		58.140	2.380	
			270	147.67	57.260	0.85		58.110	2.350	
		5	300	133.00	57.240	0.85		58.090	2.330	
			330	121.00	57.220	0.85		58.070	2.310	
		6	360	111.00	57.200	0.85		58.050	2.290	
			390	102.54	57.170	0.85		58.020	2.260	
		7	420	95.29	57.150	0.85		58.000	2.240	
			450	89.00	57.120	0.85		57.970	2.210	
		8	480	83.50	57.090	0.85		57.940	2.180	
			510	78.65	57.080	0.85		57.930	2.170	
		9	540	74.33	57.050	0.85		57.900	2.140	
			570	70.47	57.020	0.85		57.870	2.110	
		10	600	67.00	57.000	0.85		57.850	2.090	
			660	61.00	56.960	0.85		57.810	2.050	
		12	720	56.00	56.920	0.85		57.770	2.010	
			780	51.77	56.860	0.85		57.710	1.950	
		14	840	48.14	56.820	0.85		57.670	1.910	
			900	45.00	56.780	0.85		57.630	1.870	
		16	960	42.25	56.740	0.85		57.590	1.830	
			1020	39.82	56.690	0.85		57.540	1.780	
		18	1080	37.67	56.640	0.85		57.490	1.730	
			1140	35.74	56.590	0.85		57.440	1.680	
		20	1200	34.00	56.550	0.85		57.400	1.640	
			1320	31.00	56.460	0.85		57.310	1.550	
		24	1440	28.50	56.360	0.85		57.210	1.450	
			1560	26.38	56.280	0.85		57.130	1.370	
		28	1680	24.57	56.200	0.85		57.050	1.290	
			1800	23.00	56.120	0.85		56.970	1.210	
		32	1920	21.63	56.050	0.85		56.900	1.140	
			2040	20.41	55.970	0.85		56.820	1.060	
		36	2160	19.33	55.890	0.85		56.740	0.980	
			2280	18.37	55.820	0.85		56.670	0.910	
		40	2400	17.50	55.760	0.85		56.610	0.850	
			2700	15.67	55.620	0.85		56.470	0.710	
		50	3000	14.20	55.510	0.85		56.360	0.600	
			3300	13.00	55.410	0.85		56.260	0.500	
	1	60	3600	12.00	55.350	0.85		56.200	0.440	
			3900	11.15	55.290	0.85		56.140	0.380	
		70	4200	10.43	55.240	0.85		56.090	0.330	
			4500	9.80	55.200	0.85		56.050	0.290	
		80	4800	9.25	55.175	0.85		56.025	0.265	
			5100	8.76	55.150	0.85		56.000	0.240	
		90	5400	8.33	55.130	0.85		55.980	0.220	
			6000	7.60	55.115	0.85		55.965	0.205	
		110	6600	7.00	55.090	0.85		55.940	0.180	



**PRUEBA DE BOMBEO EN POZO A TAJO ABIERTO - CAYMA**  
**POZO N° IRHS 04/01/03-06**  
**FASE DE DESCENSO Y RECUPERACIÓN**







PRUEBA DE BOMBEO

Data Set: F:\...\PRUEBA3\_DESCENSO.aqt

Date: 10/29/18

Time: 01:10:05

PROJECT INFORMATION

Company: ANA

Client: DCERH

Project: 01

Location: AREQUIPA

Test Well: POZO 03 - 06

Test Date: 03/08/2018

AQUIFER DATA

Saturated Thickness: 3.78 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
Pozo 03 - 06	228490	8188307

Observation Wells

Well Name	X (m)	Y (m)
□ Pozo 03 - 06	228490	8188307

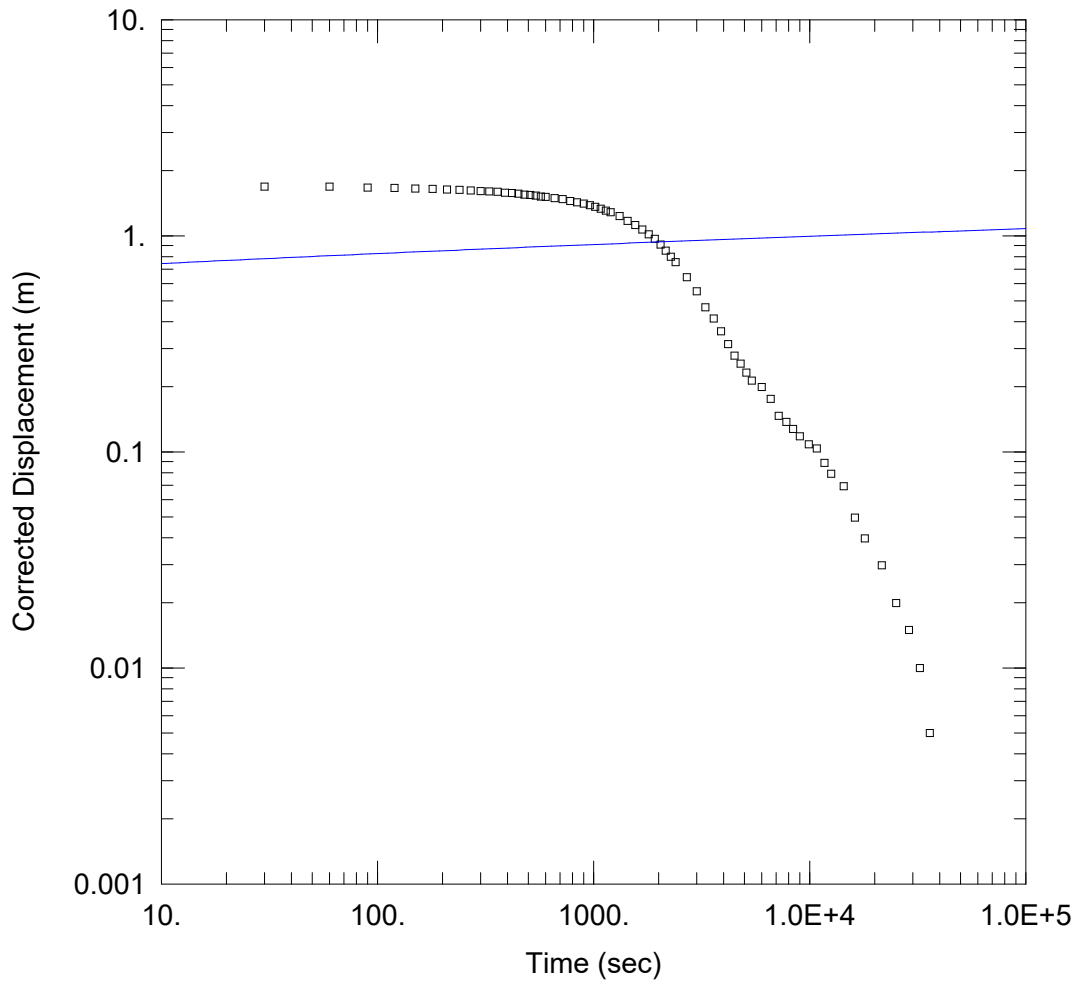
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 20.14 m<sup>2</sup>/day

S = 0.1085



PRUEBA BOMBEO

Data Set: F:\...\PRUEBA3\_recup.aqt  
 Date: 10/29/18

Time: 01:18:23

PROJECT INFORMATION

Company: ANA  
 Client: DCERH  
 Project: 03  
 Location: AREQUIPA  
 Test Well: POZO 03 - 06  
 Test Date: 03/08/2018

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
Pozo 03 - 06	228490	8188307

Observation Wells

Well Name	X (m)	Y (m)
□ Pozo 03 - 06	228490	8188307

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 297.2 m<sup>2</sup>/day

S = 1.0E-10

Kz/Kr = 1.

b = 3.78 m

**PRUEBA DE BOMBEO FASE DE DESCENSO**

Propietario del Pozo : Valery Ramos  
 Ejecutores : ANA  
 Interpretada por : ANA  
 Caudal de Bombeo : 2.20 litros/seg  
 Fecha : 12/10/2018

IRHS : 04/01/05 - 11  
 NE (Nivel Estático) : 66.77  
 ND (Nivel Dinámico) : 68.548  
 Tiempo de Bombeo (tb) : 5.00 horas  
 Hora Inicio : 09:03 AM

Departamento : Arequipa  
 Provincia : Arequipa  
 Distrito : Characato  
 Sector :  
 Hora Final : 14:03 PM

TIEMPO				CAUDAL	DESCENSO DEL NIVEL DE AGUA					
Dias	Hora	Min	Seg	l/s	MEDIDA DE NIVELES SIN P.R.	P.R. (m)	Prof	ND/Suelo (m)	Abatimiento (m)	Obs
		0	0	2.2	66.770	0.00		66.770	0.000	
			30	2.2	67.100	0.00		67.100	0.330	
		1	60	2.2	67.250	0.00		67.250	0.480	
			90	2.2	67.390	0.00		67.390	0.620	
		2	120	2.2	67.520	0.00		67.520	0.750	
			150	2.2	67.650	0.00		67.650	0.880	
		3	180	2.2	67.740	0.00		67.740	0.970	
			210	2.2	67.820	0.00		67.820	1.050	
		4	240	2.2	67.900	0.00		67.900	1.130	
			270	2.2	67.970	0.00		67.970	1.200	
		5	300	2.2	68.030	0.00		68.030	1.260	
			330	2.2	68.080	0.00		68.080	1.310	
		6	360	2.2	68.130	0.00		68.130	1.360	
			390	2.2	68.170	0.00		68.170	1.400	
		7	420	2.2	68.210	0.00		68.210	1.440	
			450	2.2	68.240	0.00		68.240	1.470	
		8	480	2.2	68.270	0.00		68.270	1.500	
			510	2.2	68.300	0.00		68.300	1.530	
		9	540	2.2	68.320	0.00		68.320	1.550	
			570	2.2	68.340	0.00		68.340	1.570	
		10	600	2.2	68.360	0.00		68.360	1.590	
			660	2.2	68.390	0.00		68.390	1.620	
		12	720	2.2	68.420	0.00		68.420	1.650	
			780	2.2	68.430	0.00		68.430	1.660	
		14	840	2.2	68.440	0.00		68.440	1.670	
			900	2.2	68.450	0.00		68.450	1.680	
		16	960	2.2	68.460	0.00		68.460	1.690	
			1020	2.2	68.465	0.00		68.465	1.695	
		18	1080	2.2	68.470	0.00		68.470	1.700	
			1140	2.2	68.480	0.00		68.480	1.710	
		20	1200	2.2	68.482	0.00		68.482	1.712	
			1320	2.2	68.490	0.00		68.490	1.720	
		24	1440	2.2	68.490	0.00		68.490	1.720	
			1560	2.2	68.490	0.00		68.490	1.720	
		28	1680	2.2	68.495	0.00		68.495	1.725	
			1800	2.2	68.500	0.00		68.500	1.730	
		32	1920	2.2	68.502	0.00		68.502	1.732	
			2040	2.2	68.505	0.00		68.505	1.735	
		36	2160	2.2	68.505	0.00		68.505	1.735	
			2280	2.2	68.505	0.00		68.505	1.735	
		40	2400	2.2	68.508	0.00		68.508	1.738	
			2700	2.2	68.510	0.00		68.510	1.740	
		50	3000	2.2	68.515	0.00		68.515	1.745	
			3300	2.2	68.515	0.00		68.515	1.745	
	1	60	3600	2.2	68.520	0.00		68.520	1.750	
			3900	2.2	68.520	0.00		68.520	1.750	
		70	4200	2.2	68.523	0.00		68.523	1.753	
			4500	2.2	68.525	0.00		68.525	1.755	
		80	4800	2.2	68.525	0.00		68.525	1.755	
			5100	2.2	68.525	0.00		68.525	1.755	
		90	5400	2.2	68.527	0.00		68.527	1.757	
			6000	2.2	68.530	0.00		68.530	1.760	
		110	6600	2.2	68.530	0.00		68.530	1.760	



**PRUEBA DE BOMBEO FASE DE RECUPERACIÓN**

Propietario del Pozo : Valery Ramos  
 Ejecutores : ANA  
 Interpretada por : ANA  
 Caudal de Bombeo : 2.20 litros/seg  
 Fecha : 12/10/2018

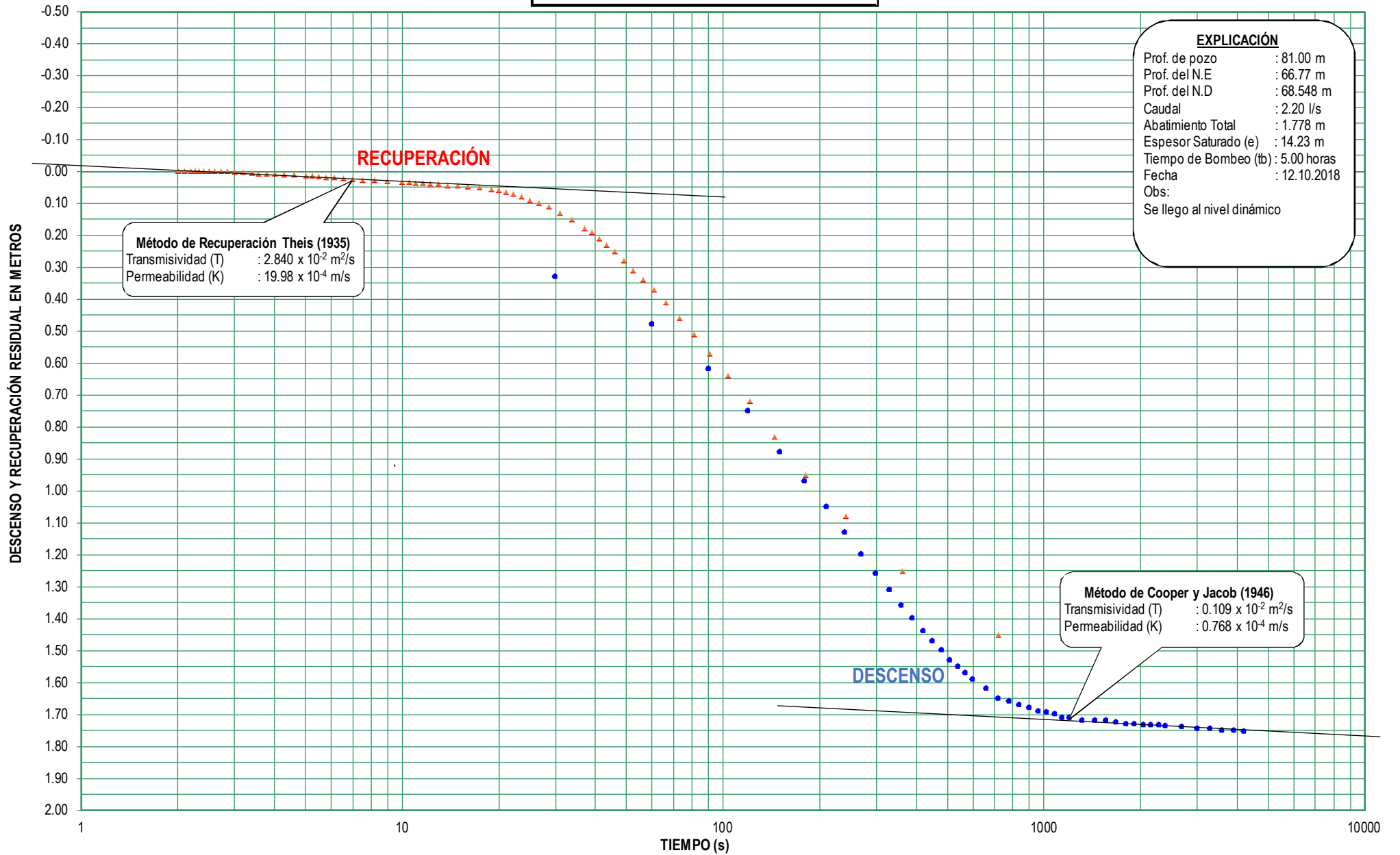
IRHS : 04/01/05 - 11  
 NE (Nivel Estático) : 66.77  
 ND (Nivel Dinámico) : 68.548  
 Tiempo de Recuperación : 6.00 horas  
 Hora Inicio : 14:03 AM

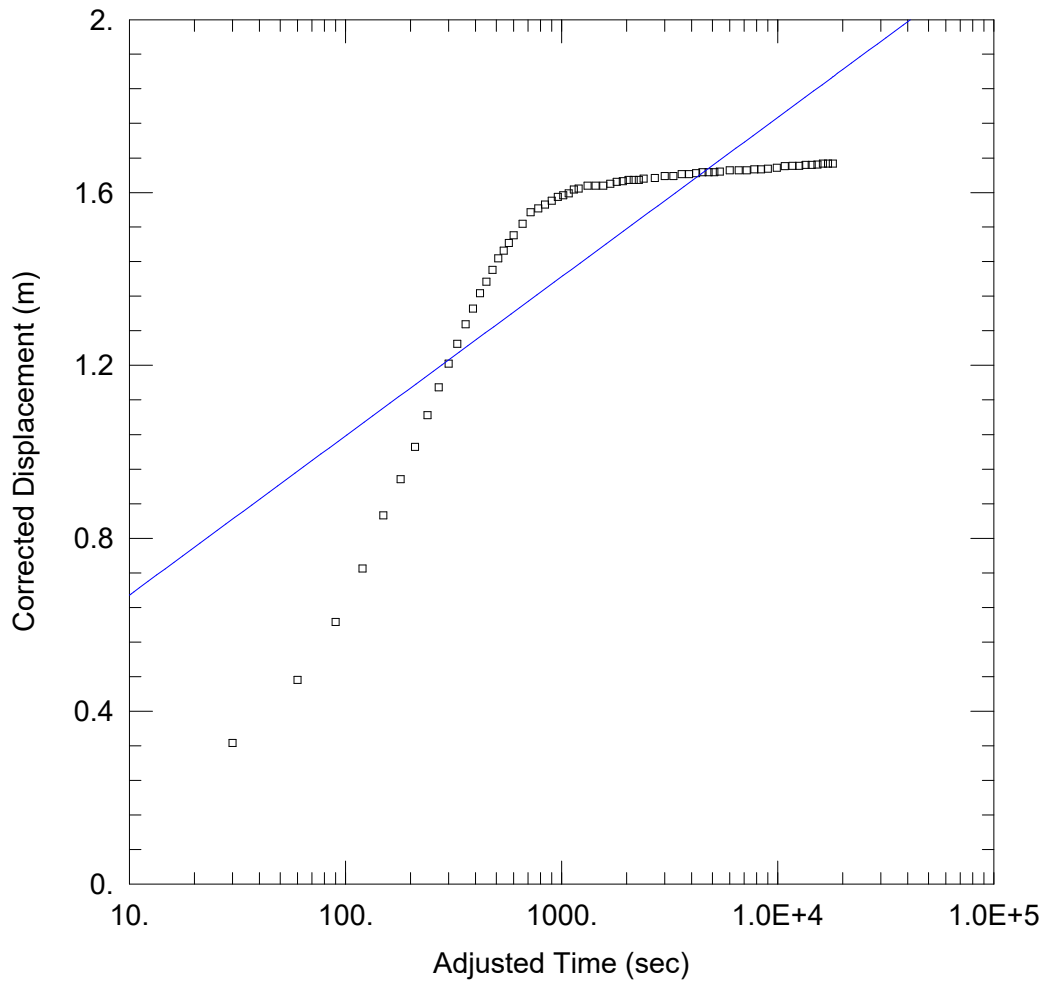
Departamento : Arequipa  
 Provincia : Arequipa  
 Distrito : Characato  
 Sector :  
 Hora Final : 20:03 PM

TIEMPO					RECUPERACIÓN DEL NIVEL DE AGUA					
Dias	Hora	Min	Seg	T/t+1	MEDIDA DE NIVELES SIN P.R.	P.R. (m)	Prof	ND/Suelo (m)	Abatimiento (m)	Obs
			0		68.548	0.00		68.548	1.748	
			30	721.00	68.250	0.00		68.250	1.450	
		1	60	361.00	68.050	0.00		68.050	1.250	
			90	241.00	67.880	0.00		67.880	1.080	
			120	181.00	67.750	0.00		67.750	0.950	
			150	145.00	67.630	0.00		67.630	0.830	
		3	180	121.00	67.520	0.00		67.520	0.720	
			210	103.86	67.440	0.00		67.440	0.640	
			240	91.00	67.370	0.00		67.370	0.570	
			270	81.00	67.310	0.00		67.310	0.510	
		5	300	73.00	67.260	0.00		67.260	0.460	
			330	66.45	67.210	0.00		67.210	0.410	
		6	360	61.00	67.170	0.00		67.170	0.370	
			390	56.38	67.140	0.00		67.140	0.340	
			420	52.43	67.110	0.00		67.110	0.310	
			450	49.00	67.080	0.00		67.080	0.280	
		8	480	46.00	67.050	0.00		67.050	0.250	
			510	43.35	67.030	0.00		67.030	0.230	
			540	41.00	67.010	0.00		67.010	0.210	
			570	38.89	66.990	0.00		66.990	0.190	
		10	600	37.00	66.980	0.00		66.980	0.180	
			660	33.73	66.950	0.00		66.950	0.150	
			720	31.00	66.930	0.00		66.930	0.130	
		13	780	28.69	66.910	0.00		66.910	0.110	
			840	26.71	66.900	0.00		66.900	0.100	
			900	25.00	66.890	0.00		66.890	0.090	
			960	23.50	66.880	0.00		66.880	0.080	
			1020	22.18	66.870	0.00		66.870	0.070	
			1080	21.00	66.865	0.00		66.865	0.065	
			1140	19.95	66.860	0.00		66.860	0.060	
			1200	19.00	66.855	0.00		66.855	0.055	
			1320	17.36	66.850	0.00		66.850	0.050	
			1440	16.00	66.848	0.00		66.848	0.048	
			1560	14.85	66.845	0.00		66.845	0.045	
			1680	13.86	66.843	0.00		66.843	0.043	
			1800	13.00	66.840	0.00		66.840	0.040	
			1920	12.25	66.838	0.00		66.838	0.038	
			2040	11.59	66.837	0.00		66.837	0.037	
			2160	11.00	66.835	0.00		66.835	0.035	
			2280	10.47	66.833	0.00		66.833	0.033	
			2400	10.00	66.832	0.00		66.832	0.032	
			2700	9.00	66.830	0.00		66.830	0.030	
			3000	8.20	66.828	0.00		66.828	0.028	
			3300	7.55	66.826	0.00		66.826	0.026	
	1		60	3600	7.00	66.825	0.00	66.825	0.025	
			65	3900	6.54	66.822	0.00	66.822	0.022	
			70	4200	6.14	66.820	0.00	66.820	0.020	
			75	4500	5.80	66.818	0.00	66.818	0.018	
			80	4800	5.50	66.816	0.00	66.816	0.016	
			85	5100	5.24	66.814	0.00	66.814	0.014	
			90	5400	5.00	66.813	0.00	66.813	0.013	
			100	6000	4.60	66.811	0.00	66.811	0.011	
			110	6600	4.27	66.809	0.00	66.809	0.009	



PRUEBA DE BOMBEO EN POZO MIXTO - CHARACATO  
 POZO N° IRHS 04/01/05-11  
 FASE DE DESCENSO Y RECUPERACIÓN





PRUEBA DE BOMBEO

Data Set: F:\...\PRUEBA4\_DESCENSO.aqt  
 Date: 10/29/18

Time: 02:36:15

PROJECT INFORMATION

Company: ANA  
 Client: DCERH  
 Project: 04  
 Location: AREQUIPA  
 Test Well: POZO 05 - 11  
 Test Date: 03/08/2018

AQUIFER DATA

Saturated Thickness: 14.23 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
Pozo 05 - 11	234395	8177540

Observation Wells

Well Name	X (m)	Y (m)
□ Pozo 05 - 11	234395	8177540

SOLUTION

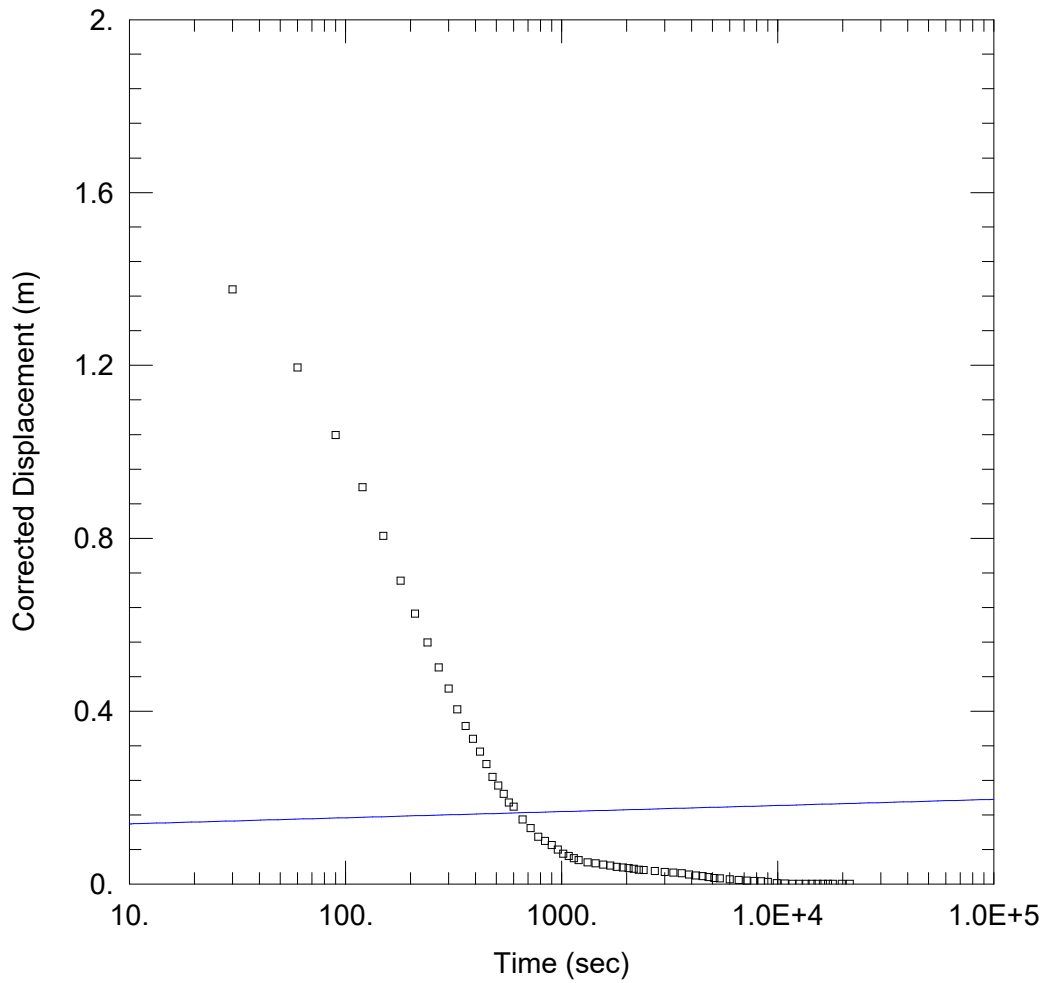
Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 94.53 m<sup>2</sup>/day

S = 0.0003771





PRUEBA DE BOMBEO

Data Set: F:\...\PRUEBA4\_RECUPERACION.aqt

Date: 10/29/18

Time: 02:54:19

PROJECT INFORMATION

Company: ANA

Client: DCERH

Project: 04

Location: AREQUIPA

Test Well: POZO 05 - 11

Test Date: 03/08/2018

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
Pozo 05 - 11	234395	8177540

Observation Wells

Well Name	X (m)	Y (m)
□ Pozo 05 - 11	234395	8177540

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 2456.6 m<sup>2</sup>/day

S = 1.0E-10

Kz/Kr = 1.

b = 14.23 m



**PRUEBA DE BOMBEO FASE DE RECUPERACIÓN**

Propietario del Pozo : Colegio Internacional  
 Ejecutores : ANA  
 Interpretada por : ANA  
 Caudal de Bombeo : 6.28 litros/seg

IRHS : 04/01/04-422  
 NE (Nivel Estático) : 18.65  
 ND (Nivel Dinámico) : 34.07  
 Tiempo de Bombeo (tb) : horas

Departamento : Arequipa  
 Provincia : Arequipa  
 Distrito : Cerro Colorado  
 Sector :

Fecha : 03/08/2018

Hora Inicio : 9.32 AM

Hora Final : 00:32 AM - 04.08.2018

TIEMPO					RECUPERACIÓN DEL NIVEL DE AGUA					Obs
Dias	Hora	Min	Seg	T/t+1	MEDIDA DE NIVELES SIN P.R.	P.R. (m)	Prof	ND/Suelo (m)	Abatimiento (m)	
			0		31.740	2.33		34.070	15.420	
			30	1801.00	31.690	2.33		34.020	15.370	
		1	60	901.00	31.670	2.33		34.000	15.350	
			90	601.00	31.650	2.33		33.980	15.330	
		2	120	451.00	31.630	2.33		33.960	15.310	
			150	361.00	31.610	2.33		33.940	15.290	
		3	180	301.00	31.590	2.33		33.920	15.270	
			210	258.14	31.570	2.33		33.900	15.250	
		4	240	226.00	31.540	2.33		33.870	15.220	
			270	201.00	31.520	2.33		33.850	15.200	
		5	300	181.00	31.490	2.33		33.820	15.170	
			330	164.64	31.470	2.33		33.800	15.150	
		6	360	151.00	31.450	2.33		33.780	15.130	
			390	139.46	31.420	2.33		33.750	15.100	
		7	420	129.57	31.400	2.33		33.730	15.080	
			450	121.00	31.380	2.33		33.710	15.060	
		8	480	113.50	31.360	2.33		33.690	15.040	
			510	106.88	31.340	2.33		33.670	15.020	
		9	540	101.00	31.320	2.33		33.650	15.000	
			570	95.74	31.290	2.33		33.620	14.970	
		10	600	91.00	31.270	2.33		33.600	14.950	
			660	82.82	31.230	2.33		33.560	14.910	
		12	720	76.00	31.180	2.33		33.510	14.860	
			780	70.23	31.140	2.33		33.470	14.820	
		14	840	65.29	31.100	2.33		33.430	14.780	
			900	61.00	31.050	2.33		33.380	14.730	
		16	960	57.25	31.010	2.33		33.340	14.690	
			1020	53.94	30.970	2.33		33.300	14.650	
		18	1080	51.00	30.930	2.33		33.260	14.610	
			1140	48.37	30.890	2.33		33.220	14.570	
		20	1200	46.00	30.850	2.33		33.180	14.530	
			1320	41.91	30.750	2.33		33.080	14.430	
		24	1440	38.50	30.660	2.33		32.990	14.340	
			1560	35.62	30.590	2.33		32.920	14.270	
		28	1680	33.14	30.470	2.33		32.800	14.150	
			1800	31.00	30.390	2.33		32.720	14.070	
		32	1920	29.13	30.310	2.33		32.640	13.990	
			2040	27.47	30.220	2.33		32.550	13.900	
		36	2160	26.00	30.140	2.33		32.470	13.820	
			2280	24.68	30.050	2.33		32.380	13.730	
		40	2400	23.50	29.970	2.33		32.300	13.650	
			2700	21.00	29.750	2.33		32.080	13.430	
		50	3000	19.00	29.560	2.33		31.890	13.240	
			3300	17.36	29.360	2.33		31.690	13.040	
	1	60	3600	16.00	29.160	2.33		31.490	12.840	
			3900	14.85	28.990	2.33		31.320	12.670	
		70	4200	13.86	28.810	2.33		31.140	12.490	
			4500	13.00	28.620	2.33		30.950	12.300	
		80	4800	12.25	28.450	2.33		30.780	12.130	
			5100	11.59	28.270	2.33		30.600	11.950	
		90	5400	11.00	28.090	2.33		30.420	11.770	
			6000	10.00	27.720	2.33		30.050	11.400	
		110	6600	9.18	27.320	2.33		29.650	11.000	
	2	120	7200	8.50	26.910	2.33		29.240	10.590	
			7800	7.92	26.520	2.33		28.850	10.200	
		140	8400	7.43	26.160	2.33		28.490	9.840	
			9000	7.00	25.800	2.33		28.130	9.480	

**PRUEBA DE BOMBEO FASE DE RECUPERACIÓN**

Propietario del Pozo : Colegio Internacional  
Ejecutores : ANA  
Interpretada por : ANA  
Caudal de Bombeo : 6.28 litros/seg

IRHS : 04/01/04-422  
NE (Nivel Estático) : 18.65  
ND (Nivel Dinámico) : 34.07  
Tiempo de Bombeo (tb) : horas

Departamento : Arequipa  
Provincia : Arequipa  
Distrito : Cerro Colorado  
Sector :

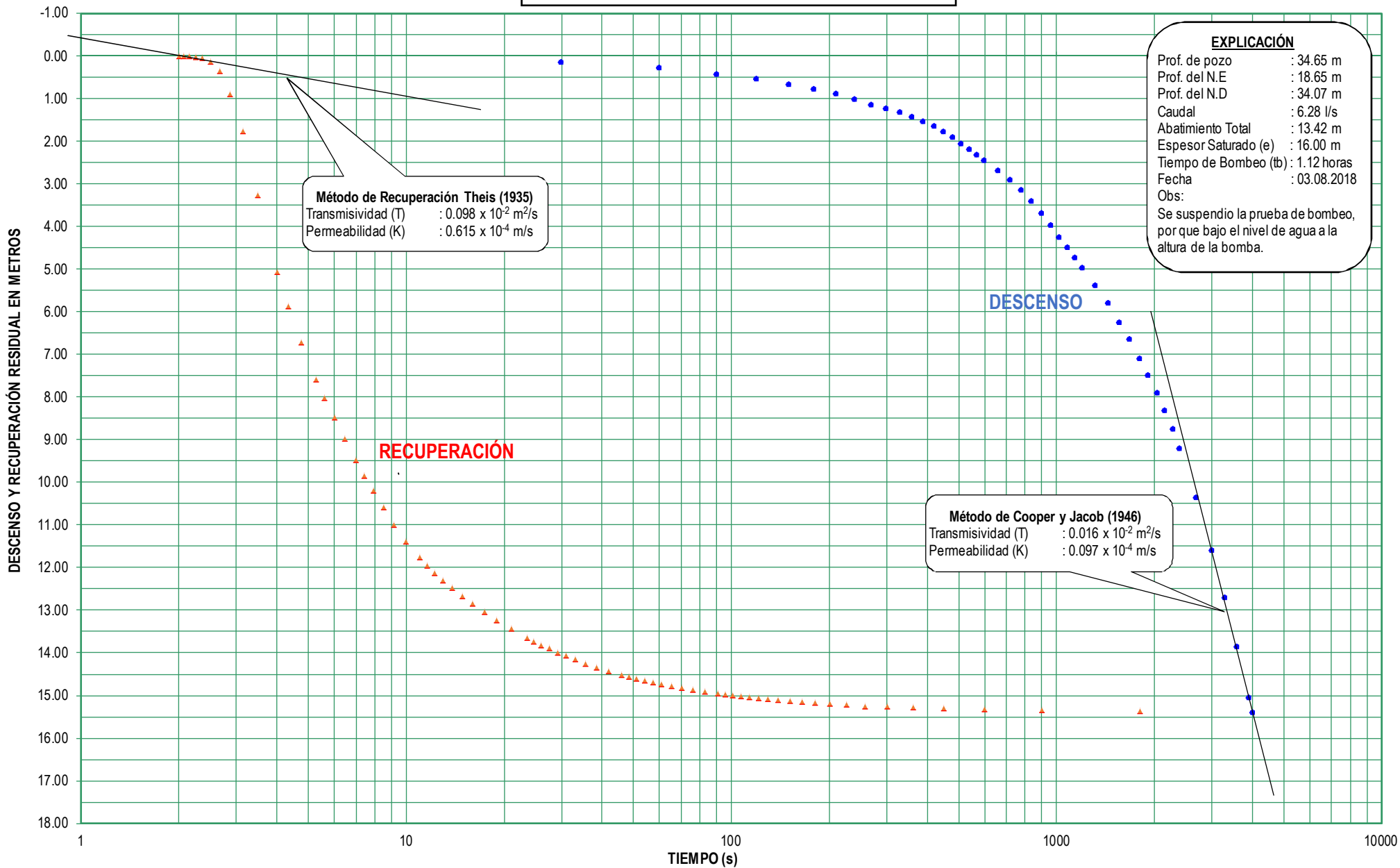
Fecha : 03/08/2018

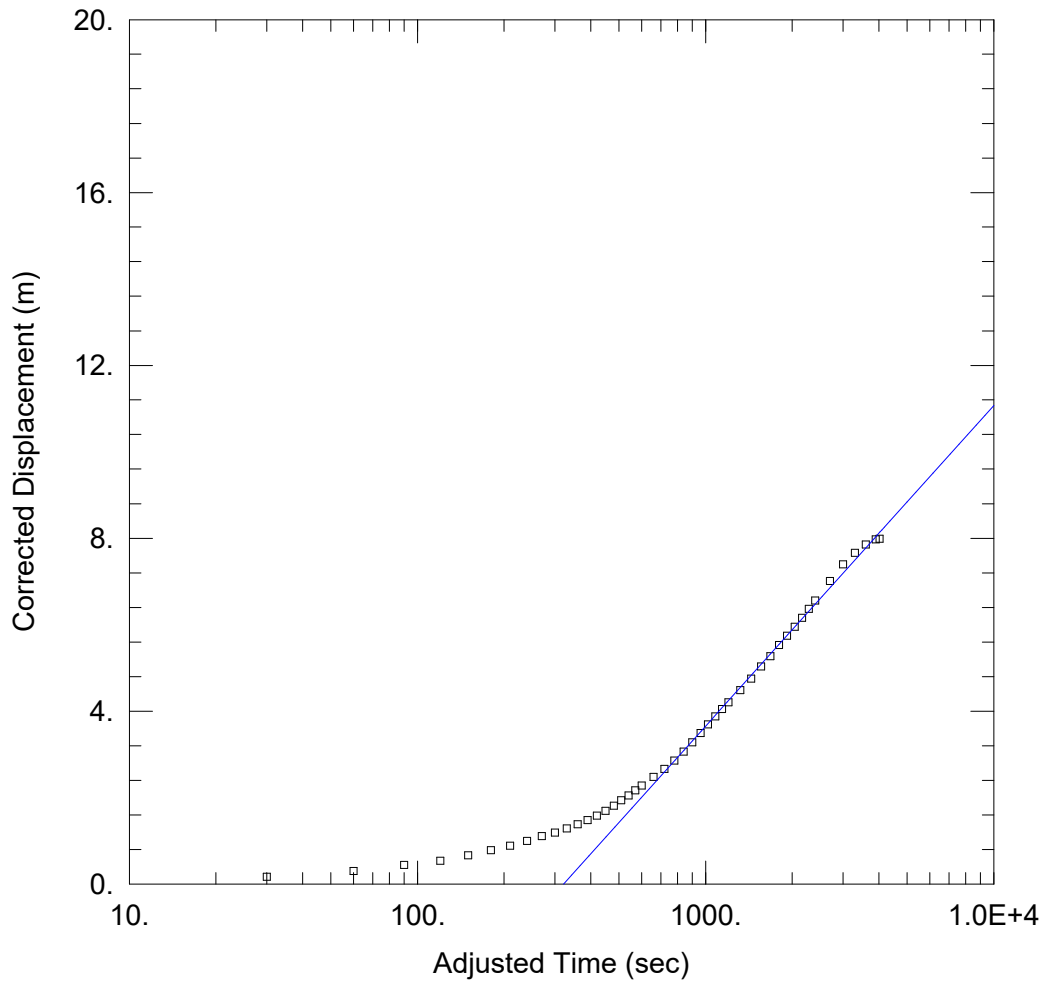
Hora Inicio : 9.32 AM

Hora Final : 00:32 AM - 04.08.2018

		165	9900	6.45	25.300	2.33	27.630	8.980	
	3	180	10800	6.00	24.810	2.33	27.140	8.490	
		195	11700	5.62	24.350	2.33	26.680	8.030	
		210	12600	5.29	23.910	2.33	26.240	7.590	
	4	240	14400	4.75	23.050	2.33	25.380	6.730	
		270	16200	4.33	22.190	2.33	24.520	5.870	
	5	300	18000	4.00	21.390	2.33	23.720	5.070	
	6	360	21600	3.50	19.590	2.33	21.920	3.270	
	7	420	25200	3.14	18.090	2.33	20.420	1.770	
	8	480	28800	2.88	17.210	2.33	19.540	0.890	
	9	540	32400	2.67	16.670	2.33	19.000	0.350	
	10	600	36000	2.50	16.450	2.33	18.780	0.130	
	11	660	39600	2.36	16.380	2.33	18.710	0.060	
	12	720	43200	2.25	16.360	2.33	18.690	0.040	
	13	780	46800	2.15	16.340	2.33	18.670	0.020	
	14	840	50400	2.07	16.330	2.33	18.66	0.010	
	15	900	54000	2.00	16.320	2.33	18.65	0.000	

PRUEBA DE BOMBEO EN POZO TAJO ABIERTO - CERRO COLRADO  
 POZO N° IRHS 04/01/04-422  
 FASE DE DESCENSO Y RECUPERACIÓN





WELL TEST ANALYSIS

Data Set: F:\...\PRUEBA1\_DESCENSO.aqt

Date: 10/25/18

Time: 08:57:41

PROJECT INFORMATION

Company: ANA

Client: DCERH

Project: 01

Location: AREQUIPA

Test Well: POZO 422

Test Date: 03/08/2018

AQUIFER DATA

Saturated Thickness: 16. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (m)	Y (m)
IRHS 04-422	223871	8185011

Well Name	X (m)	Y (m)
□ IRHS 04-422	223871	8185011

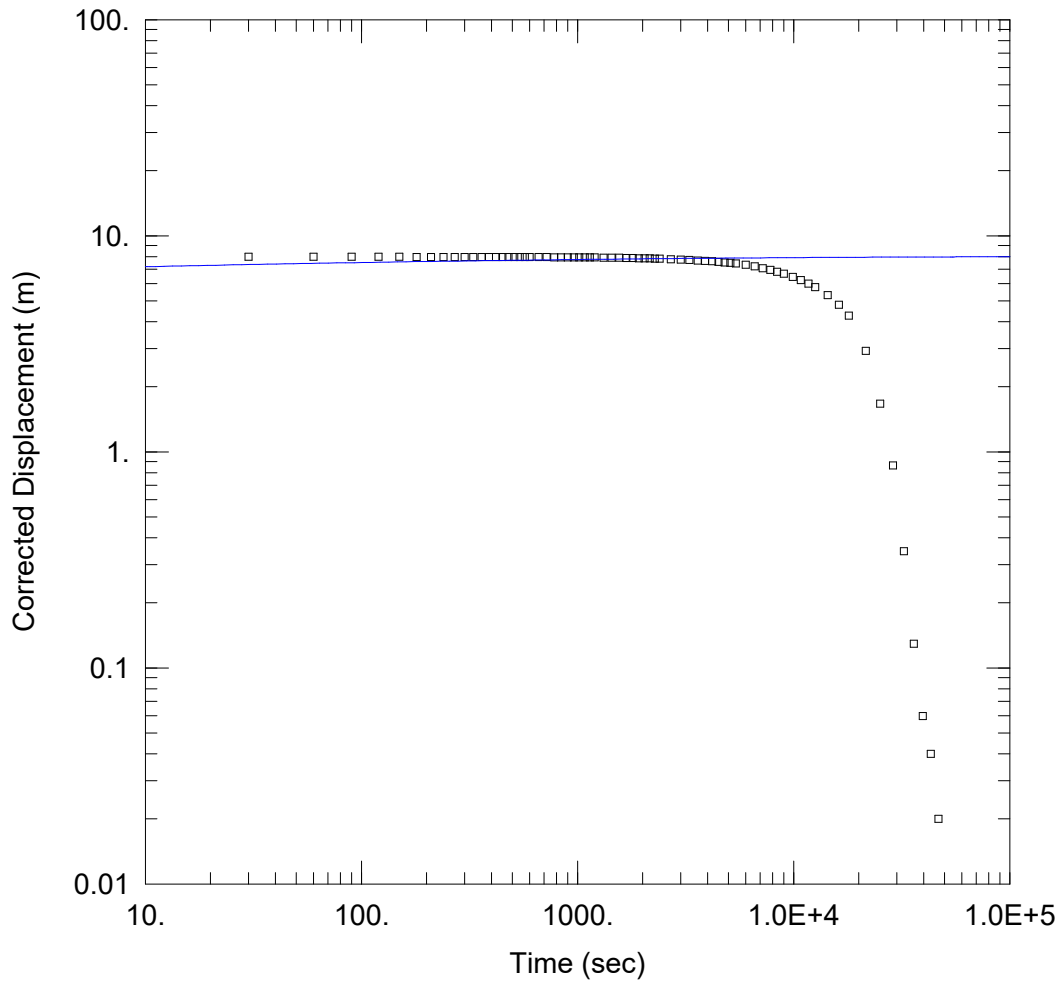
SOLUTION

Aquifer Model: Unconfined

Solution Method: Cooper-Jacob

T = 13.4 m<sup>2</sup>/day

S = 0.1121



WELL TEST ANALYSIS

Data Set: F:\...\PRUEBA1\_RECUPERACION.aqt

Date: 10/28/18

Time: 19:37:14

PROJECT INFORMATION

Company: ANA

Client: DCERH

Project: 01

Location: AREQUIPA

Test Well: POZO 422

Test Date: 03/08/2018

WELL DATA

Pumping Wells

Well Name	X (m)	Y (m)
IRHS 04-422	223871	8185011

Observation Wells

Well Name	X (m)	Y (m)
□ IRHS 04-422	223871	8185011

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 85.1 m<sup>2</sup>/day

S = 1.025E-11

Kz/Kr = 1.

b = 16. m