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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY Ground Water Branch

AQUIFER-TEST COMPILATION FOR THE SAN JOAQUIN VALLEY, CALIFORNIA

By

E. J./ McClelland

Prepared in cooperation with the California Department of Water Resources

OPEN-FILE DATA REPORT

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Valley, California------In pocket

1. Tests analyzed but not included in this compilation because the results were not considered valid.

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AQUIFER-TEST COMPILATION FOR THE SAN JOAQUIN VALLEY,

CALIFORNIA

By E. J. McClelland

PURPOSE AND SCOPE OF THIS REPORT

This report is the first of a series the purpose of which is to make available in standard tabular form the results of aquifer tests that have been made by various private and public agencies in California. The scope of the compilation is to describe systematically, in a form agreed upon by the California Department of Water Resources and the Geological Survey, the (1) test location, (2) pumping data, (3) well data, and (4) summary of results. The results of these tests sometimes have been published but most frequently have been used only as a step in obtaining other information, consequently the results and even the location of aquifer tests have not been readily available.

This report has been prepared by the Geological Survey under the immediate supervision of Fred Kunkel, district geologist for California, in cooperation with the California Department of Water Resources, and tabulates through October 1962 all tests analyzed by the Geological Survey for the San Joaquin Valley. The report is designed to be expanded when additional tests are analyzed or new tests are made.

DESCRIPTION OF AQUIFER-TEST COMPILATION FORM

Location

Well number. -- The test is identified by the number assigned to the pumped well by the California Department of Water Resources and the Geological Survey. The well-numbering system identifies wells according to the rectangular system for the subdivision of public land. That part of the number preceding the slash (as in 195/18E-35E1) indicates the township (T. 19 S.); the number following the slash is the range (R. 18 E.); the digit following the hyphen is the section (sec. 35); and the letter following the section number indicates the 40-acre subdivision of the section according to the accompanying diagram.

D	С	В	А
E	F	G	H
M	L	K	J
N	P	Q	R

Within each 40-acre tract the wells are numbered serially, as indicated by the final digit. Following the well number, the appropriate base and meridian are indicated as follows: H - Humboldt; M - Mt. Diablo; S - San Bernardino.

Quadrangle. -- The name of the U.S. Geological Survey map covering the area of the test with scale and date of issue is given.

Location. -- The site of the test is identified by street names, streams and rivers, cities and county. In some cases, the landowner's name or name of tenant is included. The site of each test is shown on figure 1.

Ground-water basin. -- The ground-water basin in which the test was run is identified by name and number of basin and subbasin as assigned by the California Department of Water Resources.

Geologic formation. -- Where sufficient data are available geologic formation, formation members, and named aquifers are identified.

Date of test. -- The date given is the date at the start of test followed by duration of pumping in minutes, or hours as indicated.

Agency conducting test. -- The agency, subdivision of agency, and person in charge of field test are identified.

Source of test data. -- The physical location of the basic data and name of office or published report containing data or results of test are given.

Pumping Data

Pump type, power source and rating. -- Name of manufacturer of pump, power source, and rating of pump are given.

<u>Use.</u>—Identified as: domestic; irrigation; minicipal; industrial; injection or recharge; drainage; domestic and irrigation; test, monitor or measurement; stock; unused; or unknown.

<u>Discharge.</u>--Pumped well discharge in gallons per minute during the test.

Maximum drawdown. -- Total maximum drawdown in feet after "X" minutes of pumping.

Other data. -- All conditions which might affect the accuracy of the test, such as: changes in the pumping rates, changes in methods of measuring discharge, influence by other pumping wells, barometric or recharge effects, or other pertinent items.

Well Data

Well number. -- The pumped well is shown on the first line, with observation wells shown on subsequent lines.

Depth .-- Total depth in feet.

Perforations .-- Depth intervals in feet, if known.

r. -- Distance from pumped well to observation well in feet.

Log. -- Types of logs, i.e., driller's, electric, etc.

Analysis. -- Availability of chemical analysis of well water indicated by "yes." or "no."

Water-level measurements.--The availability of water-level measurements prior or subsequent to the test is indicated as "yes." or "no."

Other data and remarks. -- Physical factors which might affect test results and other information not included in the data table.

Summary

Purpose of test. -- Purpose as related to determination of aquifer coefficients, ground-water movement, storage capacity, underflow conditions, foundation design, and related items.

Aguifer thickness .-- Thickness in feet.

Aquifer saturated thickness .-- Thickness in feet.

Specific capacity. -- Rate of yield of the well in gallons per minute per foot of drawdown.

U.S. Geological Survey formation yield factor .--

Formation yield factor = Specific capacity x 100
Aquifer saturated thickness

Method of analysis. -- Indicates solution utilized such as:

Theis nonequilibrium type-curve; Cooper-Jacob straight-line plot;

Chow point method; Slug test; etc.

Coefficient of transmissibility. -- Expressed as the rate of flow of water, in gallons per day, at the prevailing water temperature through each vertical strip of the aquifer one foot wide, having a height equal to the saturated thickness of the aquifer and under a unit hydraulic gradient.

Coefficient of permeability. -- Expressed as the rate of flow of water in gallons per day through a cross section of one square foot under a unit hydraulic gradient.

Coefficient of storage. -- The volume of water released from storage in each vertical column of the aquifer having a base of one foot square when the water table or other piezometric surface declines one foot. This is approximately equal to the specific yield for nonartesian aquifers.

excellent, good, fair, or poor, along with summary of reasons. In general poor tests are all tests for which the pumping cycle was 100 minutes or less, or tests in which the response of observation wells was poor. A poor test does not imply poor field technique. Fair tests are tests for which the pumping cycle was 100 to 500 minutes and test results are judged better than poor. All tests involving a pumped well only are graded poor or fair unless the pumped-well data are exceptionally detailed, accurate, and involves both the drawdown and recovery cycle. Good tests are tests for which the pumping cycle was 500 minutes or more and pumped-well data supported by observation well data, or excellent pumped-well data as referred to above. Excellent tests are tests for which the pumping cycle was 500 minutes or more with two or more observation wells properly spaced, detailed and accurate pumped-well data, and results of wells support each other.

It is not uncommon for an aquifer test to yield results that are not considered valid. As with poor tests, the failure of the test does not necessarily imply poor field technique. For example a pump motor may fail, the well may be sluggish, nearby pumping or barometric changes may be so great as to destroy the validity of the test, or subsequent analysis may show geologic conditions that preclude a valid analysis. However, in order that the record may be complete the sites of these tests are shown in the table of contents but results are not given in the compilation.

Well no. 198/	18E-35E1	M Quadrana	le We	sthaven, 7	7.5 min.	, 1956		
Location Abou								
Ground Water Basi	in San Jo	paquin Valle	ey, Me	ndota-Hurc	n area,	5-22.	47	
Geologic Pormatic	on Tulare	Formation	benea	th the Cor	coran C	lay Me	mber	
Date of Test Ju	ne 10, 19	954 24 hr.	Agency	Conducting Te	st USGS,	G. H.	Davis	
Source of Test Da	ta USGS	(GW) Sacram	ento					
PUMPING DATA Fump Type, Power				ectric mot	or, 200) hp		
we Irrigation							after	- min.
Other data	***************************************							
WELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	T
10/19 2551	0137	600 0117		D 433		Drawdown	Recovery	Ristorical
19/18-35E1	2117	699-2117	-	Drillers	no	no	no	no
19/18-24N1	2114	700-2114	8800	Drillers	no	yes	no	yes
19/18-26E2	2002	705-2002	4225	Electric Drillers	no	yes	no	yes
19/18-27M1	2105	730-2105	6450	Drillers	no	yes	no	yes
19/18-36N1 r* = die	2110	726-2110	6300	Drillers	yes	ÿes	no	yes
Other Data and Re	marks	umped well to obs	servation	n well in Feet.				
outer base and he								
					~~~			
Purpose of Test_	Determi	nation of a	quifer	r coeffici	ents			
	water the Automotive and Automotive and Automotive and Automotive and Automotive and Automotive and Automotive							
Aquifer Thickness	Approx.	1400 ft	Aqu	uifer Saturated	Thickness	-		B-19-service-super-conference-su-d
Specific Capacity			USC	S Formation Yi	eld Factor		-	
Method of Analysi	Theis n	onequilibri	um for	mula				
Coefficient of Transmissibility	100,000	gpd/ft	Permes	ability		Coeffici Storage	ent of	0.001
Test Evaluation_		servation w	ells t	too far fr	om pump	ed well	, othe	r wells
	pu	whate.	11					

Well no. 20S	/19E-25Q1	M Quadrane	sle St	ratford, 7	.5 min.	, 1954		
Location App	rox. 3 mi	les southwe	st of	Stratford	, Kings	Count	У	
***************************************								
Ground Water Basi	n San Jos	quin Valley	r, Men	dota-Huron	area,	5-22.4	7	
Geologic Formatio	n Tulare	Formation b	eneat	h the Corc	oran Cl	ay Mem	ber	
Date of Test No.	v. 15, 19	61 250 min	Agency	Conducting Tes	USGS,	E. J.	McClel	land
Source of Test De	ta USGS (G	W) Sacramer	ito					
PUMPING DATA Pump Type, Power	Source and R	ating Peerle	ss, e	lectric mo	tor, 15	0 hp		
Use Irrigation		approx. $\bot$	-/				often 25	iO min
				MAXIMUM DIAWO	m 10.0	11.	arter	O min.
Other data 1.	Well pun	ips sand and	gas.					
WELL DATA	T	T		<u> </u>	<u> </u>	Water-	level meas	urements
Well No.	Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	Historical
20/19-2501	2023	1018-2023	-	-	no	yes	yes	yes
2 <b>0/19-25J</b> 1	630	510-630	1600	-	yes	yes ²	no	no
20/19-36C1	2211	1000-2211	2625	Electric	no	yes ²	no	yes
20/20-31D1	2008	1004-2008	1850	-	yes	yes	yes	yes
	_	umped well to obs						h
Other Data and Re	marks 2.	No measura	ble re	esponse, m	easurem	ents di	lsconti	nued
after 3 hour	s.							
SUMARY	D 4			221				
Purpose of Test_	Determi	nation of a	quire	r coeffici	ents.			
Aquifer Thickness	Approx.	1000 ft	Aqu	uifer Saturated	Thickness	Appro	x. 1000	ft
Specific Capacity	89		USO	S Formation Yie	eld Factor	8.	.9	Action on a
Method of Analysi	s Modifi	ed Theis, T	heis :	recovery.	Hantush	leaky	aquife	r
Coefficient of Transmissibility	70,000	gpd/ft ^{3/}	_ Permes	ability 70 g	gpd/ft ³	/Coeffici Storage	ent of O	.0003
Test Evaluation	Fair, t	est too sho	rt, po	or observe	ation w	ell spa	cing.	
_		e.						

Well no. 205/2	22E-10H2	M Quadrang	sle War	ukena, 7.5	min.,	1954		
Location Abour	$t 7\frac{1}{2} \text{ mile}$	es north of	Corco	oran, Kings	s Count	У		
Ground Water Basin	San Jos	aquin Valle	y, Con	rcoran Irr:	igation	Distri	ct, 5-2	22.46
Geologic Formation	Tulare	Formation	benear	th the Core				n Distric
Date of Test Jan	n. 6, 196	51 3 <b>9</b> 9 min	n.Agenc	y Conducting Te				
Source of Test Dat	usgs (	GW) Sacrame	ento					
PUMPING DATA Pump Type, Power S	Source and Ra	ting Clima	ax die	esel engine	9			
Use Irrigation	On Discha	arge 800 gp	m	Maximum Drawdo	wn	ft.	after	min.
Other data								
***************************************		***************************************						
WELL DATA					T	Water-	level meas	urements
Well No.	Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	Historical
20/22-10H2	1384	600-1384	-	Electric	Yes	No	Yes	Yes
20/22-10H1	350	12-350	904	-	No	Yes	No	Yes
20/22-1012	1600	300-1600	1066	-	No	Yes	Yes	Yes
r* = dist Other Data and Rem		mped well to obs				ft hel	ow lend	surface
in this loca	ality, co	nsequently						
levels in the								
SUMMARY Purpose of Test	Determi	nation of a	aquife	er coeffici	lents.			
Aquifer Thickness	Approx.	800 ft.	Aq1	uifer Saturated	Thickness	-		
Specific Capacity			US(	GS Formation Yi	eld Factor			
Method of Analysis	Theis r	ecovery						
Coefficient of Transmissibility	26,000	gpd/ft ¹	_ Perme	ability		Coeffici Storage	ent of	
Test Evaluation	Fair, c	bservation	well	data not u	usable.			
1. Pumj	ped well	recovery.	13					

Well no. 235/2	5E-1702	M Quadrana	ple Pi	kley, 7.5 r	min., 1	954		
Location Three	miles s	outh of Pix	ley,	fulare Com	nty	***********************		
Ground Water Basin	San Jo	aquin Valle	y, Pi	xley Irriga	ation D	istric	t. 5-22	•33
Geologic Formation  Date of Test Feb		Total 61 144 hr		Conducting Tes	t <b>U</b> SGS	. F. S	Riley	
Source of Test Dat	•							
PUMPING DATA Pump Type, Power S							KAA NA WAA	test.
Use Irrigati Other data 1.	On Discha	arge 1150 gp	1/	Maximum Drawdov	m	ft.		
WELL DATA						Water-	level meas	urements
Well No.	Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	Historical
23/25-1702	600		-	_	no	no	yes	yes
23/25-1701	578		415	-	yes	yes	yes	yes
23/25-17R		280-603	1400	) -	no	yes	уęв	yes
23/25-16N3	430	360-420	1450	Drillers	no	yes	yes	yes ² /
r* = dist Other Data and Rem Subsidence :  SUBSIDENCE :  SUBSIDENCE :	recorder	•	pped v	rith water-		recorde	er and	
Aquifer Thickness Specific Capacity								
Method of Analysis								
Coefficient of Transmissibility								
Test Evaluation								

Well no. 245/2	2E-28A2	M Quadran	gle Ha	cienda Ran	ch, 7.5	min.,	1954	
Location La Ha								of
Alpaugh.								
Ground Water Basin								2.45
Geologic Formation	Tulare	Formation	benea	th the Cor	coran C	lay Mer	nber	
Date of Test Ma	y 4, 196	0 24 hr	Agenc	y Conducting Te	st USGS,	F. S.	Riley	
Source of Test Dat		,					n with	
PUMPING DATA Pump Type, Power S	Source and R	ating 1, e	lectr	ic motor,	40 hp			test.
Use Irrigation	On Disch	Approx. arge 750 gpm	1	Maximum Drawdo	wn 45	ft.	after 14	28 min.
Other data 1.								
WELL DATA	·	<b>*</b>		·				
Well No.	Depth	Perforations	r*	Log	Analysis	Water- Drawdown	Recovery	Historical
24/22-28A2	1028	575-947	_	Drillers	no	no	yes	yes
24/22-27D1	1042	626-966	1650	Drillers	yes	yes	no	yes
24/22-27D2	1001	830-905	709	Drillers	no	yes	yes	yes
		,						
r* = dist		umped well to obe	servation	well in feet.				
SUMMARY Purpose of Test	Determ	ination of	aquife	er coeffic	ients.			
Aquifer Thickness	Approx.	375 ft.	Aq	uifer Saturated	Thickness	Appro	ox 375	ft.
Specific Capacity	10	5.6	Uso	GS Formation Yi	eld Factor		4.5	
Method of Analysis	Theis	nonequilibr	ium, J	Theis recor	very			
Coefficient of Transmissibility	45,000- 65,000 p	gpd/ft	Perme	ability		Coeffici Storage	ent of	0.0005
Test Evaluation	Fair,	poor early	da <b>ta</b> ,	leaky aqui	ifer con	ndition	s.	

LOCATION Well no. 24S	/25E-36J	L M Quadrang	ple De	elano East,	7.5 m	in., 19	953	
Location Scho	enley Rar	nch, about 2	2 mile	es northeas	st of De	elano,	Tulare	County
Ground Water Basi	san Jos	aquin Valley	, Del	lano-Earlim	art Ir	rigatio	n Dist	rict 5-22.35
Geologic Formation	n							-
Date of Test Fel	b. 19, 19		rAgency		t USGS	F. S.	Riley	
Source of Test Da	ta USGS (C	W) Sacramer	to. T	This test i	n conj	netion	with t	tiltmeter
PUMPING DATA Pump Type, Power	Source and Ra	ating Layne Bo	owler,	electric	motor,	100 hr	)	test.
Use Irrigation Other data Pum	On Dische	arge 990 gpm	1	Maximum Drawdov	m 79.1	ft.	after	
on one draw	lown and	two recover	y cyc	eles.			,	
WELL DATA			0 0					
Well No.	Depth	Perforations	r*	Log	Analysis		level meas	
24/25-36J1	1398	437-1398	_	Drillers	Yes	Yes Yes	Yes	Yes
-								
-								
r* = dis	tance from pu	umped well to obs	ervation	n well in feet.				
Other Data and Rer 25/26-6D1 (r pumping by 2	= 2300	ft) and 25/						
SUMMARY Purpose of Test	Determi	nation of a	quife	r coeffici	ents.			
Aquifer Thickness	Approx.	960 ft	Aqı	uifer Saturated	Thickness	Appro	x. 960	ft
Specific Capacity	12.5		USC	GS Formation Yie	eld Factor	1.3		
Method of Analysis	Modifie	d Theis, Th	eis r	ecovery				
Coefficient of Transmissibility	15,000	gpd/ft	Perme	ability		Coeffici Storage		
Test Evaluation	Good, d	ata excelle	nt bu	t limited	to pump	ed wel	1.	

Well no. 265/2	24E-4H1	M Quadrang	le Wa	asco NW, 7.	5 min.	, 1953		
Location Appro	ex. 9 mil	es west of	McFar	land, Kerr	Count	У		
Ground Water Basin		iquin Valley	, Sem	nitropic Wa	iter Sto	orage I	)i <b>stri</b> ct	t, 5-22.
Date of Test Man	r. 26, 19	958 165 mi	n _{Agency}	Conducting Tes	st Kern	County	Land (	Co.
Source of Test Dat	ta USC	S (GW) Sacr	ament	,0				
PUMPING DATA Pump Type, Power	Source and Ra	iting						
Use Irrigation Other data 1.								
County Land								
Well No.	Depth	Perforations	r*	Log	Analysis	Water- Drawdown	Recovery	
KCL 2C4-4								
26/24-4Hl	502	148-5022	152	Drillers	Yes	Yes	Yes	Yes
r* = dist	marks 2. mm 342 ft	to 344 ft	and a	k at 271 f t 479 ft.		at 385	ft, ca	sing
Aquifer Thickness								
Specific Capacity								
Method of Analysis	Theis n	onequilibri	um					
Coefficient of Transmissibility		gpd/ft	Permes	ability		Coeffici Storage	ent of 2x	10-3
Test Evaluation	Poor, i	nsufficient	data					

LOCATION Well no. 26S/	25E-26N1	. M Quadran	gle Po	ond, 7.5 mi	n., 195	53		
Location Appr	·ox. 4 mi	les southw	est of	? McFarland	, Kern	County		
Ground Water Basin	San Joa	quin Valle	y, Nor	rth Kern Wa	ater Ste	orage I	istric	t, 5-22.3
Geologic Formation	1				Kern	Count	v Land	Co. and
Date of Test Marc	h 12 and	18, 1958	Agency	y Conducting Te			y miki	
Source of Test Dat	usgs	(GW) Sacra	mento					
PUMPING DATA Pump Type, Power S	Source and Re	ating Johnson	n, ele	ectric moto	or, 150	hp		
we Irrigatio	n Discha	arge 1/		Maximum Drawdo	vn 45	·3 rt.	after 9	02/ min.
Other data Tota	l pumpir	g time 135	min.	March 12,	1958,	LO5 min	. Marc	h 18, 195
1. 2190 gpm WELL DATA	March 12	, 1958, 23	45 gpm	March 18,	1958.	2. Ma	rch 18	, 1958.
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	
26/25 <b>-</b> 26N1	813	340-800		Driller	yes	yes	yes	ye <b>s</b> 3/
26/25-27J1	806	340-800	1459	Driller	yes	yes	уев	no3,4/
26/25-35Bl	808	348-804	3056	Driller	yes	yes	yes	no ¹
26/25-35El	834	340-796	2955	Driller	yes	yes	yes	no3/
r* = dist	ance from pu	umped well to ob	servation	n well in feet.				
Other Data and Rem	arks No pr	e-test date	a avai	lable. 3.	Water-	level	measur	ements,
Mar. 12, 1958	3. 4. Wa	ter-level n	neasur	ements, Ma	rch 18	1958.	26/2	5-26N1 =
SUMMARY Purpose of Test D	etermi na	tion of an	ui fer	coefficien	t a		1142	2D26-1
Purpose of Test_D	C OCI MITTO	Jordin of ag	41101	COCITICICI				Prince State of the country of the Country State of
Acut Con Mat along	Approx	460 ft			Madaka aa			
Aquifer Thickness								
Specific Capacity								
Method of Analysis  Coefficient of  Transmissibility	125.000-					0664-4	0	.0004-
Test Evaluation								

Well no. 27	s/24E-35K	M Quadrang	gle Was	co, 7.5 mi	ln., 19	53		
Location Ap	prox. 4 mi	les south	of Was	co, Kern C	County			
Ground Water Bas	sin San Jos	aquin Valle	y, Nor	th Kern Wa	ater St	orage I	)istric	t, 5-22.3
Geologic Formati							y Land	Co. and
Date of Test A	pr. 9, 19;	58 90 min	n. Agency	Conducting Tes	st USG	5		
		GW) Sacram						
Pump Type, Power	Source and Ra	atingWin	ntroat	h, electri	c motor	r, 100	hp	
Use Irrigat	ion Discha	arge 1900	gpm	Maximum Drawdo	wn 10	.O ft.	after 9	O min.
Other data								
WELL DATA		·						
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	
27/24-35Kl	590	270-558	-	Drillers	Yes			Yes
27/24-35J1	357	100-357	1412	-	Yes	Yes	Yes	Yes
27/24-3501	704	200-688	1906	Drillers	No	Yes	Yes	
	-		-				-	-
		umped well to ob		in fact				
	-	7/24-35Kl =						
SUMMARY Purpose of Test	Determ	ination of	aquife	er coeffici	lents.			
Aquifer Thickness	ss Approx	. 300 ft	ДДД	uifer Saturated	Thickness			
Specific Capacit	ty 190		USC	GS Formation Yi	eld Factor			
Method of Analys	is Theis	nonequilibr	ium, n	nodified Th	neis			
Coefficient of Transmissibility	23 <b>0,</b> 000	gpd/ft	Permea	ability		Coeffici Storage	ient of	0.001
Test Evaluation	Poor, t	oo short, 1	eaky s	aquifer con	ndition	s.		

Well no.	27S/25E-3J2	M Quadran	gle W	Masco, 7.5	min., ]	953		
ocation	At Poso Ran	ch, approx.	3 mil	es west of	'Famoso	, Kern	County	r
Ground Water	Basin San Jo	aquin Valle	y, Nor	th Kern Wa	ter Sto	orage D	istrict	, 5-22.
eologic For	mation				Kern (	County	Land Co	and U
ate of Test	Mar. 21, 1	958 120 min	· Agenc	y Conducting Te	st(GW) C	laybor	n and I	eBlanc
ource of Te	st Data USGS	(GW) Sacrame	ento					
UMPING DATA	ower Source and 1	Rating Wintro	oath,	electric m	otor, 1	50 hp		
		narge 2105 g					after 1	20 min.
ther data _								
ELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis		level meas	T
27/25-3J	2 832	260-816	-	Driller	yes	Drawdown	yes	yes
27/25-3J		197-300	841	Driller	yes	yes	yes	yes
27/25-3H		362-805	1818	Driller				no
-1/2)-311	010	302200)	1010	Dillie	yes	yes	yes	110
	distance from	pumped well to ob	serim+i-	n well in fact				
		7/25-3J2 = F						
oner Dava a	W Heman Va	1/2/302 - 1	.011 )11	2				***********
Purpose of Te	est Determ	ination of a	aquife	r coeffici	ents			
quifer Thick	mess Approx	. 550 ft.	Aq	uifer Saturated	Thickness			
pecific Cap	acity 83.5		US	GS Formation Yi	eld Factor			
ethod of And	III o o i	s nonequilil	orium,	modified	Theis			
	150,00	0- 1/		ability		Coeffici Storage	ent of C	.001
				-		_		
lest Evaluat:	Poor.	ft well -3J2	2, 250	,000 gpd/f	t well	-3Hl.		

Well no. 27S	/26E-30F1	. M Quadran	gle F	amoso, 7.5	min.,	1953		
Location App	$rox. 3\frac{1}{2} m$	iles south	of Fa	moso, Kern	County			
Ground Water Bas:	in San Jo	aquin Valle	ey, No	rth Kern W	ater St	orage 1	Distric	t, 5-22.37
Geologic Formatio	on							
Date of Test M	ar. 24, 1	.958 90 mi	n Agenc	y Conducting Te	st <u>Kern</u>	Count	y Land	Co.
Source of Test Da	ta USGS	(GW) Sacran	nento					
PUMPING DATA Pump Type, Power	Source and R	ating Peerle	ss, e	lectric mo	tor, 15	0 hp		
use Irrigation							after	90 min.
Other data Drav	wdown in	numped well	reac	hed equili	brium 3	O min.	after	nımning
	Wacwii III	punped well	1000	nea equiti	011411	0 1111111	<u>a1 001</u>	punping
started.								
WELL DATA	T	T	T	Τ .	Ι	Water-	level meas	surements
Well No.	Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	Historical
27/26-30F1	700	292-700	-	-	Yes	Yes	Yes	No
27/26-30Ш	650	198-650	1230	Driller	No	Yes	Yes	No
27/26-30Cl	866	300-854	2088	Driller	Yes	Yes	Yes	Yes
***************************************								
r* = dis	stance from p	umped well to ob	servatio	n well in feet.	L		L	
Other Data and Re	emarks No	pre-test m	leasur	ements ava	ilable.	-30L	l measu	red by
air line. 2	27/26-30F	1 = KCL 3E3	0-7					
SUMMARY Purpose of Test		nation of a		r coeffici	ents, T	erra Be	ella-Lo	st Hills
area invest	igation.							
Aquifer Thickness	Approx.	400 ft	Aq	uifer Saturated	Thickness			
Specific Capacity	Approx.	100	US	GS Formation Yi	eld Factor			
Method of Analysi	Theis n	onequilibri	um, m	odified The	eis, Th	eis rec	covery	
Coefficient of Transmissibility	250,000 470,000	gpd/ft	Perme	ability		Coeffici Storage	ent of	0.001
Test Evaluation_	Poor, t	est too sho						

Well no. 275/	26E-32G1	M Quadran	gle Fai	moso, 7.5 1	min., 1	953		
Location Abou	t 4 mile	s south of	Famos	o, Kern Co	un <b>t</b> y			
Ground Water Basi	n San Jo	aquin Valle	ey, No	rth Kern W	ater St	orage 1	Distric	t, 5-22.37
Geologic Formation							y Land	Co., and
Source of Test Da	ta USGS (	GW) Sacrame	ento					
PUMPING DATA Pump Type, Power	Source and Ra	ating Wintros	th, e	lectric mo	tor, 15	0 hp		
Use Irrigatio	n Discha	urge 1640 gr	om	Maximum Drawdo	m		after	min.
WELL DATA	Γ		Τ	T	<u> </u>		level meas	surements
Well No.	Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	Historical
27/26-32G1	780	220-765	-	Drillers	Yes	No	Yes	Yes
2 <b>7/</b> 26-32E1	640	210-592	2150	Drillers	Yes	Yes	No	Yes
27/26-32K1	1/		750	-	No	Yes	Yes	No
r* = dic	tance from m	unped well to ob	servetion	n well in feet				
Other Data and Rer	marks 1.	Probably	much	different o	depth z	one the	an pump	med well,
SUMMARY Purpose of Test	Determi	nation of a	i <b>qui f</b> e	r coeffici	en <b>t</b> s.			
Aquifer Thickness	Approx.	550 ft.	Aq	uifer Saturated	Thickness			
Specific Capacity			USG	GS Formation Yie	eld Factor			
Method of Analysis								
Coefficient of Transmissibility	260,000 450,000	gpd/ft	Perme	ability		Coeffici Storage	ent of	0.001
Test Evaluation								

Well no.	28s/2	2E-15N3	M Quadrang	le L	okern, 7.5	min.,	1954		
Location _	Houch	in Ranc	h 11, about	9 mi	les northw	est of	Button	willow,	Kern
County						,			
Ground Wate	er Basin	San Jo	aquin Valle	y, Bu	ena Vista	Water S	torage	Distri	ct. 5-22.4
Geologic F	ormation					D 77 1	( C D	7.7500	
Date of Te	st Dec.	14, 19	60 286 mi	n Agency	Conducting Tea	st E. J	. McCl	and USG elland	S
Source of	Test Date	USGS	(GW) Sacram	ento				****	
PUMPING DATE	TA Power Sc	ource and R	ating Johnso	n, ele	ectric mot	or, 75	hp		
Use Irri	gation	Disch	arge 2140 gp	m	Maximum Drawdo	vn 70	ft.	after 28	O min.
WELL DATA			,						
Well No	0.	Depth	Perforations	r*	Log	Analysis	Water- Drawdown	Recovery	
28/22-1	5N3	600	204-600	-	Drillers	Yes	No	Yes	Yes
28/22-1	5N2	800	180-800	659	-	Yes	Yes	Yes	Yes
28/22-22	2D1	700	336-642	666	Electric Drillers	Yes	Yes	Yes	Yes
28/22-22	5 <b>D</b> S	315		608	-	No	Yes	Yes	Yes
Other Data			umped well to obs	ervation	well in feet.				
SUMARY Purpose of	Test	Determi	nation of a	quifer	coefficie	ents			
Aquifer Thi	ickness_			Aqu	ufer Saturated	Thickness			
Specific Ca	apacity_	30.6		USO	S Formation Yie	eld Factor			
Method of A	Analysis	Theis n	onequilibri	ım, Tr	neis recove	ry			
Coefficient Transmissi	t of ibility	100,000 350,000	gpd/ft	Permea	bility		Coeffici Storage	ent of	
Test Evalue	ation	Poor, g	eologic set	ting r	ot valid i	for tes	ting.		

Well no.	29S/26E-4D1	M Quadran	gle Ro	sedale, 7	.5 min.,	1954		
ocation	Approx. 6 m	iles southes	st of	Shafter,	Kern Co	ounty		
Ground Wate	r Basin San Jo	oaquin Valle	ey, Se	emitropic V	Water St	orage	Distric	t, 5-22.
eologic Fo	rmation							
ate of Tes	t Apr. 2, 19	958 126 mi	n Agenc	y Conducting Te	est Kern	Count	y Land	Co.
ource of T	est Data USGS	(GW) Sacran	ento					
UMPING DAT	A Power Source and I	Rating Wintro	ath,	electric n	notor, 7	5 hp		
	gation Disch						after	50 min.
								-
ther data								
ELL DATA								
Well No	. Depth	Perforations	r*	Log	Analysis	Water- Drawdown	Recovery	Historical
9/26-4I	1 527	165-527	-	Driller	Yes	Yes	Yes	Yes
9/26-41	1 526	172-526	1700	Driller	Yes	Yes	Yes	No
9/26-51	1 510		1900	Driller	No	Yes	Yes	No
	= distance from							
ther Data	and Remarks 29	9/26-4D1 = K	CL 5E	4-2				
UPPARY	Test Determi	ination of a	anife	r coeffici	ents			
urpose of	Test		qual					
Aquifer Thi	ckness Approx	350 ft	Ac	quifer Saturate	d Thickness			
Specific Ca	pacity 92.3		US	SGS Formation Y	ield Factor			
tethod of A	nalysis Theis	nonequilibr	ium,	modified T	Theis, H	antush		
Coefficient Transmissi	of 460,000	) gpd/ft ¹	Perme	ability		Coeffici Storage	ent of	aquifer. 0.0005
	tion Fair, t							
		analysis i	ndica	tes T = 20	00.000 g	nd/ft.		

Well no. 30S/	23E-1C2	M Quadrana	gle Eas	t Elk Hill	8, 7.5	min.,	1954	
Location Davi	ni Ranch	about $3\frac{1}{2}$	miles	s south of	Button	villow,	Kern (	County
Ground Water Basin	San Jo	paquin Valle	ey, Bu	uena Vista	Water 8	Storage	e Distri	let, 5-22.
Geologic Formation					77 77 7	1.0	7 77999	
Date of Test Dec	. 13, 19	960 302 m	in _{Ægency}	Conducting Tes	B.V.	J. McC	d USGS Clelland	1
Source of Test Date	usgs (	GW) Sacrame	ento					
UMPING DATA Amp Type, Power S	ource and Ra	ating Peerle	ss, el	lectric mot	or, 75	hp		
Lee Irrigation	n Discha	arge 1840 g	pm	Maximum Drawdov	m 18.	B ft.	after 2	246 min.
								-
ther data								
ELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis	Water- Drawdown	Recovery	Historical
30/23-1 <b>c</b> 2	192		-	-	Yes	No	Yes	Yes
30/23-1C1 ¹	195		310	Drillers	No	Yes	Yes	Yes
30/23-1C3 ² /	305		350	-	Yes	Yes	Yes	Yes
	anas fuer m	umped well to obs		amil in foot				
ther Data and Rem		•			re syst	em, pur	nped in	termittent
during test.								
		5001401, 01	10010	I I de vae a v	ono auc	111 1	0 00 1.	1080 111 40
ummary urpose of Test I	etermin:	ation of aq	uifer	coefficier	nts.			
quifer Thickness_			Aqı	uifer Saturated	Thickness			
pecific Capacity	98.4		USG	SS Formation Yie	eld Factor			
ethod of Analysis	Theis	recovery						
oefficient of Transmissibility	235,000	gpd/ft3/	Permes	ability		Coeffici Storage	ent of	
est Evaluation	Poor							
		recovery.						

Well no.	305/	25E-3Q1	M Quadran	gle T	Cupman, 7.5	min.,	1954		,
Location	Abou	t 16 mi	les west of	Baker	sfield, Ke	ern Cou	nty		
Ground Wate	r Basin	San Jos	aquin Valle	y, Ker	n River De	elta ar	ea, 5-2	22.40	
Geologic Fo	rmation								
Date of Tes	t Mar	. 24, 19	960 269 min	n_Agency	Conducting Tes	usgs	, R. H	. Dale	
Source of To	est Date	USGS (	GW) Sacrame	nto					
PUMPING DAT	A Power So	ource and Ra	ting Wintro	ath, e	electric mo	otor, 1	00 hp		
Use Irri	gatio	n Discha	2350 gp	m	Maximum Drawdov	m	ft.	after	- min.
WELL DATA			Y				,		
Well No		Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	T
30/25-3	Q1		119-702	-	-			Yes	No
30/25-3	Ll	716	119-702	1760	Drillers	Yes	Yes	Yes	No
30/25-1	OA1	711	119-700	1820	Drillers	Yes	Yes	Yes	No
			mped well to ob					<b>.</b>	
Other Data	and Rems	rks 30	0/25-3Q1 = 1	KCL OL	73~3				
			~						be an one property and a second
Purpose of	Test	Determi	ination of	aquife	er coeffici	lents.			
							,		
Aquifer Thi	ckness_	Approx	. 580 ft	Aqu	ufer Saturated	Thickness			
Specific Ca	pacity_			USC	S Formation Yie	eld Factor			
Method of A	nalysis	Theis r	nonequilibr	ium, I	heis recov	very			
Coefficient Transmissi	of bility _	150,000	)- ) gpd/ft	Permea	bility		Coeffici Storage	ent of	0.001
Test Evalua	tion	Poor,	Interferenc	e from	other wel	ls pum	ping.		

# GROUND WATER BRANCH AQUIFER-TEST COMPILATION

Well no. 308/	25E-28 <b>c</b> 3	M Quadrane	gle Tu	pman, 7.5	min.,	1954		-
Location Abou	t 17 mil	es west of	Baker	sfield and	2 mile	es nort	ch of H	ighway
399, Kern Co	unty.							
Ground Water Basin	San Jo	aquin Valle	еу, Ке	rn Ri <b>ve</b> r D	elta a	rea, 5-	22.40	
Geologic Formation								
Date of Test De								., USGS,
Source of Test Dat					***************************************			
PUMPING DATA Pump Type, Power S				r, electri	c motor	r, 75 h	ıp	
Use Irrigatio								30 min.
								Angeles and Angele
Other data								
WELL DATA			γ			<b>T</b>		
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	Historical
30/25-28 <b>c</b> 3	675	71-617	-	Drillers	Yes	Yes	Yes	Yes
30/25-28 <b>c</b> l	250	120-250	900	Drillers	Yes	Yes	Yes	Yes
30/25-2112	452	105-429	1700	Drillers	No	Yes	Yes	Yes
30/25-2114	390	90-369	2400	Drillers	Yes	Yes	Yes	Yes
30/25-21P3 r* = dist	272	80-249	888	Drillers	Yes	Yes	Yes	No
r* = dist					lo. 7			
ovice bass and noise		1-2-03						
SUMMARY Purpose of Test	Determi	nation of a	aquife	r coeffici	ents.			
								-
Aquifer Thickness_	Approx.	530 ft.	Aqu	uifer Saturated	Thickness			
Specific Capacity	147		USO	S Formation Yie	eld Factor			
Method of Analysis	Theis n	onequilibr:	ium, m	odified Th	eis, T	neis re	covery	
Coefficient of Transmissibility	200,000 300,000	gpd/ft	Permea	bility		Coeffici Storage	ent of O.	001-
Test Evaluation	Fair, e	vidence of	inter	ference an	d/or le	eaky aq	uifer o	conditions.

Well no. 30S	/26E-26G	l M Quadran	gle Ste	evens, 7.5	min.,	1954		
Location Abou	ut 10½ m	iles southw	est of	Bakersfie	eld, Ke	rn Cou	nty	
Ground Water Basin	San Jos	aquin Valle	y, Kei	n River De	elta Ar	ea, 5-2	22.40	
Geologic Formation	1	***************************************						
Date of Test Mar	20, 19	58 90 m	1mgency	Conducting Tes	t Kern	County	r Land	Co.
Source of Test Dat	uses (	GW) Sacrame	nto					
PUMPING DATA Pump Type, Power S	Source and Re	ating Wintro	ath, e	electric mo	otor, 7	5_hp		
Use Irrigation	on Discha	arge 2510 gp	m	Maximum Drawdow	m <u>12.</u>	3 ft.	after	70 min.
Other data								
WELL DATA	·					T		
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	Historical
30/26-26G1	708	101-701	_	Drillers	Yes	Yes	No	No
30/26-26J1	700	102-700	1890	Drillers	Yes	Yes	Yes	No
-								
r* = dist	30	$\frac{1}{26-26G1} =$						
SUPMARY Purpose of Test	Determi	ination of	aquife	r coeffici	ents.	•		
Aquifer Thickness	Approx.	600 ft.	· Aqu	uifer Saturated	Thickness			
Specific Capacity	204		USO	S Formation Yie	eld Factor			
Method of Analysis	Theis n	nonequilibr	ium, m	odified Th	eis			
Coefficient of Transmissibility	360,000	gpd/ft	Permes	bility		Coeffici Storage	ent of	0,001
Test Evaluation	Poor, t	soo shert,	other	wells pump	ing du	ring te	st.	

well no.	70, 201 371	- W Quadran	gle St	evens, 7.5	min.,	1954		
Location 1	l miles sou	thwest of 1	Bakers	field, Ker	n Count	у		
Ground Water E	esin San Jo	paquin Valle	ey, Ke	ern River D	elta Ar	ea, 5-	22.40	
Geologic Forma	tion				Kern	Count	v Land	Co., USGS
Date of Test I	Dec. 8, 195	9 300 min	Agenc	y Conducting Te				
Source of Test	Data USGS	(GW) Sacrar	nento					
PUMPING DATA Pump Type, Pou	er Source and R	ating Wintro	oath,	electric m	otor, 1	.00 hp		
Use Irrige	ation Disch	arge 4970 g	pm	Maximum Drawdo	wn	ft.	after	- min.
Other data								
WELL DATA	1	T	T	1	1	Water-	level meas	surements
Well No.	Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	Historical
30/26-35KI	700	100-700	-	Drillers	Yes	No	Yes	Yes
30/26 <b>-</b> 35BI	710	100-700	2625	Drillers	Yes	Yes	Yes	Yes
30/26-34 <b>J</b> 3	707	100-700	3675	Drillers	Yes	Yes	Yes	Yes
31/26- 2AI	640	240-640	3175	Electric Drillers Electric	No	Yes	Yes	Yes 1
31/26- 3AI		200-600	4650	Drillers	No	Yes	Yes	Yes
	-	umped well to ob						
		)/26-35Kl =						
. water-	-level reco	order instal	Lled I	or this te	st.			
SUMMARY Purpose of Tes	t_ Determi	nation of a	quife	r coeffici	ents.			
Aquifer Thickn	ess Approx.	600 ft.	Aq	uifer Saturated	Thickness			
Specific Capac	ity		us	CS Formation Yie	eld Factor			
Method of Anal	ysis Theis n	onequilibri	um, T	heis recov	ery			
Coefficient of Transmissibil	322,000 490,000	gpd/ft ^{2/}	Perme	ability		Coeffici Storage	ent of	0.002
		ocal interf	Cerenc	e from other	er well	s pump	ing.	
		icates 490,						

Well no. 315/2	26E-31A1	M Quadran	gle Mi	llux, 7.5	min.,	L954		
Location Appro	ox. 18 mi	les southwe	est of	Bakersfie	ld, Ker	n Coun	ty	
Ground Water Basi	n San J	Joaquin Val	ley, K	Gern River	Delta e	area, 5	-22.40	
Geologic Formation  Date of Test Dec		957 25 hr	Agenc	y Conducting Te			Land (	;o.,
Source of Test Da								
PUMPING DATA Pump Type, Power				, electric	motor,	75 hp		
Use Irrigatio	on Disch	arge 1750 g	pm	Maximum Drawdo	vn 78.9	ft.	after 15	24 min.
Other data								
WELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis	Water- Drawdown	Recovery	Historical
31/26-31A1	410	108-398	_	Drillers	Yes	Yes	Yes	Yes
31/26-32 <b>c</b> 1	410	120-410	2092	Drillers	Yes	Yes	Yes	Yes
31/26-32E1	413	138-413	1259	Drillers	Yes	Yes	Yes	Yes
r* = dis	-	umped well to ob /26-31Al = I						
SUMMARY Purpose of Test_	Determin	nation of a	quifer	· coefficie	nts.			
Aquifer Thickness	Approx.	300 ft	Aq	uifer Saturated	Thickness			
Specific Capacity	22		us	GS Formation Yi	eld Factor			
Method of Analysi	s Theis r	nonequilibr	ium					
Coefficient of Transmissibility	50,000- 105,000	gpd/ft	Perme	ability		Coeffici Storage	ent of	
Test Evaluation	Fair, ir	terference	due t	o other we	lls pur	ping.		

Well no. 31S/	28E-31N1	M Quadran	gle Co	onner, 7.5	min,	1954		
Location Appr	ox. 14 m	iles south	of Bak	ersfield,	Kern C	ounty		
Ground Water Basi	n San	Joaquin Val	ley, K	Gern River	Delta /	Area, 5	-22.40	
Geologic Formatio	n		<del></del>		Kern	County	r Land (	Co., and
Date of Test Ma	r. 19, 19	958 105 mi	n. Agency	Conducting Tes			IKIII. (	,, and
Source of Test Da	ta USGS (	GW) Sacram	ento					
PUMPING DATA PUMP Type, Power	Source and Ra	ating Wintre	oath,	electric m	otor,	100 hp		
Use Irrigati	on Dische	arge 2660 g <b>p</b>	n	Maximum Draydov	m 75	·7 ft.	after S	95 min.
Other data								
WELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis		level meas	T
31/28-31Nl	815	198-798	_	Drillers	Yes	Yes	Recovery	Yes
	-							
31/28-31M1	815	186-810	2100	Drillers	Yes	Yes	No	No
32/28- 601	1070	192-1065	2400	-	No	Yes	No	No
r* = dis		umped well to ob						
SUMMARY Purpose of Test_	Determin	nation of a	quifer	coefficie	nts,			
Aquifer Thickness	Approx 6	600 ft.	Aqı	uifer Saturated	Thickness			
Specific Capacity								
Method of Analysi		onequilibr:	lum					
Coefficient of Transmissibility	64,000- 290,000	gpd/ft	Permea	ability		Coeffici Storage	ent of	0.002
Test Evaluation_	Poor, to		ssibl	e interfer	ence ar	nd/or 1	eaky ac	uifer

Well no. 31S/	30E-20J1	M Quadran	gle Ar	vin, 7.5	min., 1	955		
Location Angu							ty	
				~~~~~~~~~				
Ground Water Basin	San J	oaquin Vall	ey, Ed	lison-Mario	copa ar	ea, 5-	22.41	
Geologic Formation	1							
Date of Test NOV	. 7, 195	7 318 mi	n •Agency	Conducting Tes	st USG	S, P. 1	R. Wood	
Source of Test Dat	usgs	(GW) Sacra	mento	NOTE: Se	ee test	using	pumped	well
PUMPING DATA Pump Type, Power S	Source and Ra	ating LeRoi	, Dies	sel engine			31/30-	20R1.
Use Irrigation							after	min.
Other data								
WELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	
31/30-20 J 1	1011		-	Drillers Electric	Yes	No	No	No
31/30-20R2	800		1200	Drillers	Yes	Yes	Yes	No
r* = dist	ance from pu	umped well to obs	servation	well in feet.	L			
Other Data and Rem	narks							
SUMMARY Purpose of Test	Determin	nation of a	quifer	coefficie	ents.			
Aquifer Thickness			Aqu	ifer Saturated	Thickness			
Specific Capacity			USG	S Formation Yie	eld Factor			
Method of Analysis	Theis r	nonequilibr	ium					
Coefficient of Transmissibility	300,000	gpd/ft	Permea	bility		Coeffici Storage	ent of	0.001
Test Evaluation	Fair, in	nterrupted	pumpin	g early in	test.			

LOCATION Well no. 31S/	30E-20R1	M Quadran	gle A	rvin, 7.5	min.,]	-955		
Location Angu	s Ranch,	about 3 mi	les e	ast of Arv	in, Ker	n Coun	ty	
Ground Water Basin	San Jo	aquin Valle	ey, Ed:	ison-Maric	opa are	ea, 5-2	2.41	
Geologic Formation	·							
Date of Test No	v. 8, 19	57 151 mi	n Agency	Conducting Tes	t USGS	, P. R	. Wood	
Source of Test Dat PUMPING DATA Pump Type, Power S							umped w	vell 31/30-20J
Use Irrigatio						ft.	after	min.
WELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	·
31/30-20R1	800	348-800	-	Drillers	No	No	No	No
31/30-20R2	800		1680	Drillers	Yes	Yes	Yes	No
r* = dist		umped well to ob	servation	well in feet.				
SUMMARY Purpose of Test	Determi	nation of a	iquife:	r coeffici	ents.			
Aquifer Thickness	Approx.	450 ft	Aqu	nifer Saturated	Thickness			
Specific Capacity			USG	S Formation Yie	eld Factor			
Method of Analysis	Theis n	onequilibri	um					
Coefficient of Transmissibility	300,000	gpd/ft	Permea	bility		Coeffici Storage	ent of	0.001
Test Evaluation	Fair, t	iming error	s in o	data.				

LOCATION 32S/2	25E-30E1	M Quadrang	sle Pe	entland, 7	5 min.	, 1953		
Location About	t 7 miles	southeast	of Ta	aft, Kern (County			
		~~~				-		
Ground Water Basin	San Jo	oaquin Valle	ey, Ed	lison-Mario	opa ar	ea, 5-2	22.41	
Geologic Formation	1							
Date of Test No.	v. 28, 19	957 8130 m	in _{Agency}	Conducting Tea	t USGS	, P. R.	Wood	
Source of Test Dat	a USGS (	(GW) Sacrame	ento					
PUMPING DATA Pump Type, Power S	Source and Ra	ating Layne	e Bowl	er, electi	ic mot	or, 150	hp	
Use Irrigatio	on Discha	arge 900 g	pm	Maximum Drawdon	m 41.30	0 ft.	after	8130 min.
Other data NO 8	access fo	or water-le	vel me	asurements	in pur	mped we	211.	
WELL DATA								
Well No.	Depth	Perforations	r*	Log	Analysis		Recovery	Historical
32/25-30E1	726		_	-	Yes	No	No	No
32/25-30Ml ¹	1500	350-1100	407	Drillers	Yes	Yes	No	Yes
	-	mped well to obs			<b>4</b> J			
Other Data and Rem								
1500 ft. Wa	ter-leve	el measureme	ents f	rom Steven	s F rec	corder	chart.	
SUMMARY Purpose of Test	Determin	nation of a	quifer	coefficie	nts.			
Aquifer Thickness			Aqu	uifer Saturated	Thickness			
Specific Capacity	24.	.2	USG	S Formation Yie	eld Factor			
Method of Analysis	Theis	nonequilib	rium,	modified T	heis			
Coefficient of Transmissibility	Coefficient of Transmissibility 15,000 gpd/ft Permeability Coefficient of Storage 0.001							0.001
Test Evaluation	Poor, in	nterference	by ou	tside pump	ding, pa	artial	penetra	ation.

Well no. 325/	26E-2F1	M Quadran	gle Mi	llux, 7.5	min.,	1954		
Location Appr							inty.	i. George
Ground Water Basi	n San J	oaquin Vall	ey, Ke	ern River	Del <b>t</b> a A	rea, 5-	-22.40	
Geologic Formatio	n				77	~ .	7	
Date of Test May	16, 195	8 100 min	. Agency	Conducting Te			Ly Land	Co., and
Source of Test Da	ta USGS	(GW) Sacram	ento					
PUMPING DATA Pump Type, Power	Source and R	ating Wintro	ath, e	electric m	otor, 7	5 hp		
Use Irrigati					<b>v</b> n	rt.	after	min.
Other data								
WELL DATA								
	Ι	T			Ι	Water-	level mean	surements
Well No.	Depth	Perforations	r*	Log	Analysis	Drawdown	Recovery	Historical
32/26-2F1	875	277-850	-	-	No	No	Yes	No
35/56-511	704	231-700	1390	Driller	Yes	Yes	Yes	No
r* = dist		imped well to obj $/26-2F1 = K$						
SUMMARY Purpose of Test	Deter	mination of	aquif	er coeffic	cients.			
Aquifer Thickness	Approx.	575 ft	Aqu	ifer Saturated	Thickness			
Specific Capacity			USG	S Formation Yi	eld Factor			
Method of Analysis	Theis n	onequilibri	um, Te	his recove	ery			
Coefficient of Transmissibility	56,000- 200,000	gpd/ft	Permea	bility		Coeffici Storage	ent of	0.001
Test Evaluation	Poor, t	oo short, i	neffic	ient wells	and/o	r leaky	aquif	er comditions

Well no. 11N/	21W-11N1	S Quadrang	le C	coal Oil Ca	nyon,	7.5 min	., 1954	+		
Location Abou	it 22 mil	es south an	nd 5분	miles west	of Bal	kersfie	ld, Ker	n County		
Ground Water Basin	san J	oaquin Vall	ey, E	dison-Mari	copa A	rea, 5-	22.43			
Geologic Formation	n									
Date of Test Apr	. 22, 19	58 116 mi	nagency	Conducting Tes	t Kern	County	Land (			
Source of Test Dat										
Pump Type, Power	Source and Ra	ting Wintr	oath,	electric	motor,	150 hp				
Use Irrigatio					m 25.	<u>l</u> ft.	after	116 min.		
WELL DATA										
Well No.	Depth	Perforations	r*	Log	Analysis	-	Recovery	Historical		
11/21-11N1	1205	331-1205		Drillers	Yes	Yes				
		,		per se illerte.						
***************************************										
						-		-		
***************************************		umped well to obs		in foot						
r* = dis										
SUMMARY Purpose of Test_	De <b>te</b> rmi	nation of a	aquife	er coeffici	ents.					
Aquifer Thickness	Approx.	875 ft.	Aq	uifer Saturated	Thickness					
Specific Capacity	34.5		US	GS Formation Yie	eld Factor					
Method of Analysis	s Modifie	d Theis and	Thei	s recovery						
							Coefficient of Storage			
Test Evaluation	Fair.					t				

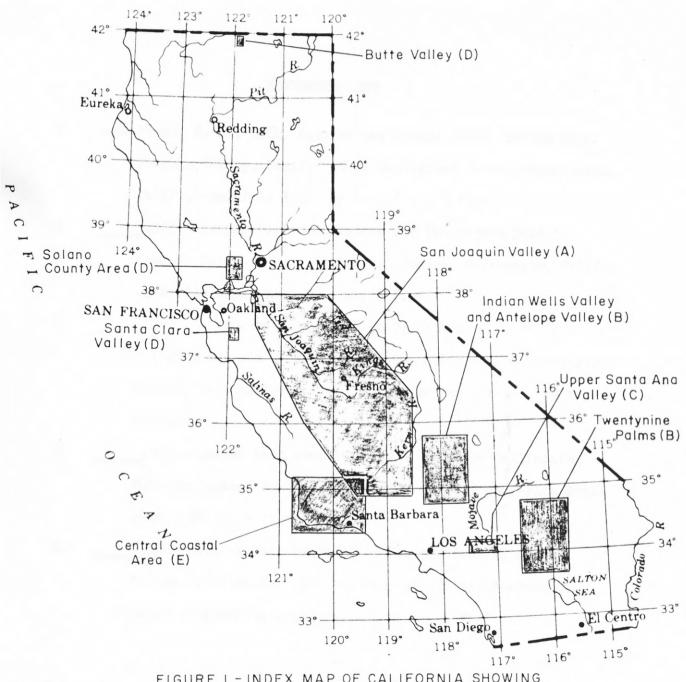


FIGURE 1.-INDEX MAP OF CALIFORNIA SHOWING LOCATION OF TEST AREAS

20 0 20 100 Miles

Letter in parenthesis indicates report in reference list

### REFERENCE LIST

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