

ACTIVITY LOCATION	LEGAL DESCRIPTION				DEPTH OF HOLE (FT)	WATER LEVEL		COMMENTS
	TWP	RGE	SEC	SUBDIV.		(FT)	DATE	
S 0-1	13N	64E	6	NE $\frac{1}{4}$ of NW $\frac{1}{4}$	200	18		
W 0-2	14N	64E	15	SE $\frac{1}{4}$ of NW $\frac{1}{4}$	150	68		
X 0-3	14N	64E	14	NE $\frac{1}{4}$ of NE $\frac{1}{4}$	200	163		
BI 0-4	15N	64E	34	NE $\frac{1}{4}$ of SE $\frac{1}{4}$	150	78		
H B(0)-1	13N	64E	1	SW $\frac{1}{4}$ of SW $\frac{1}{4}$	200	187		
U B(0)-2	14N	64E	19	NE $\frac{1}{4}$ of SE $\frac{1}{4}$	200	87		
II B(0)-3	14N	64E	6	NE $\frac{1}{4}$ of NE $\frac{1}{4}$	200	132		

Water Resources Well

	12N	63E	12	NE $\frac{1}{4}$ of NW $\frac{1}{4}$	1087+			drilling 10-22-80
CI 0-5A	15N	64E	35	SW $\frac{1}{4}$ of NE $\frac{1}{4}$	200'	NR		
LI 0-6	15N	64E	18	NE $\frac{1}{4}$ of NW $\frac{1}{4}$	200'	NR		

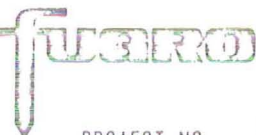
BORINGS/OBSERVATION WELLS

STEPTOE VALLEY

BY PARKER DATE 10-22-80

CHECKED D. Olson DATE 11-13-80

PAGE 1 OF 1



LONG BEACH  
CALIFORNIA

PROJECT NO. 80-300

Steptoe Const Disch Test  
AQUIFER TEST DATA  
Sheet 1/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
Pumped Well Number \_\_\_\_\_  
Original Water Depth 427.6

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
19 Jan 84	0800	0			427.6	0				
		0.5			449	21.4				
		1.0			490	62.4				
		1.75			509	81.4			121 gpm	
		2.5			508.5	81.3			"	
		3.75			514.4	86.8			"	
		5.0			517.4	89.8			"	
		6.5			519.5	91.9			"	
		9.3			524.0	96.4			"	
		12.0			530.2	102.6			"	

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge



# Stephoe const disch test

## AQUIFER TEST DATA

Test by Coddington

Sheet 2/8

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth 427.6

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\frac{S}{\Delta S}$	S'	Q	Remarks
		16.0			535.2	107.6			121 gpm	
		20.0			540.9	113.3			"	
		24.5			—	—			<del>118</del>	Engine failure pump off.
19 Jan	10:00	0			427.6	0				Restart test
		0.75			476	48.4	.410		118 gpm	
		1.50			497	69.4	.588			
		2.0			494.5	66.9	.567			
		3.0			502.3	74.7	.633			
		4.0			509.8	82.2	.697			
		7.5			531.6	104.0	.881		118 gpm	

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

# Stephoe Const. disch. test

## AQUIFER TEST DATA

Test by Coddington

3/8

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth 427.6

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
19 Jan.	1010	10			545.3	117.7	.997			
		13			551.6	124.0	1.051			
		16			556.9	129.3	1.096			
		20			560.2	132.6	1.124			
		24			567.6	140.0	1.186			
		30			573.8	146.2	1.239			
		36			575.6	148.0	1.254			
		45			579.3	151.7	1.286			
	1100	60			582.8	155.2	1.315			
	1120	80			585.3	157.7	1.336			

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

# Stephens Co. Disch test

## AQUIFER TEST DATA

4/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
19 Jun		100			587.4	159.8	1.354		118	
		120			590.0	162.4	1.376		"	
		150			598.7	171.1	1.450		"	
	1300	180	0						102	Decreased pumping rate. Water level
		181	1		602.2	174.6	<sup>1.479/</sup> 1.712		102	below sounding tube and near pump intake.
		182.8	2.8		580.0	152.4	1.494		"	
		184	4		571.1	143.5	1.407		"	
		186	6		560.6	133.0	1.304		"	
		188	8		557.4	129.8	1.273		"	
	1310	190	10		551.5	123.9	1.215		"	

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

# Stephoe Const Disch test

## AQUIFER TEST DATA

5/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		192	12		551.5	123.9	1.215			
		195	15		551.3	123.7	1.213			
		200	20		551.3	123.7	1.213			
		205	25		551.6	124.0	1.216			
		212	32		551.2	123.6	1.212			
		220	40		550.9	123.3	1.209			
		234	59		551.4	123.8	1.214			
	1410	250	70		551.2	123.6	1.212			
	1430	270	90		549.9	122.3	1.209			
	1450	290	110		541.2	113.6	1.114			

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

Steploe Const, Disch, Test  
AQUIFER TEST DATA

6/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
Pumped Well Number \_\_\_\_\_  
Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
19 Jan.	1552	352	172		553.9	126.3	1.238			
	1700	420	240		557.6	130.0	1.275			
	1800	480	300		550.8	123.2	1.208			
	2100	660	480		547.5	119.9	1.175			
	2200	720	540		547.1	119.5	1.172			
20 Jan.	0700	1260	1080		538.0	110.4	1.082			
	0800	1320	1140		538.0	110.4	1.082			
	0800	1320	0		538.0	110.4	1.082			
		1320.97	0.97	1362						58 seconds to drain riser
		1321.5	1.5	881	431	3.4				

- t = time since pumping began  
t' = time since pumping stopped  
S = drawdown  
 $\Delta S = S^2/2b$   
b = thickness of screened interval  
S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.  
Q = well discharge

AQUIFER TEST DATA

7/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
20 Jan		1322.5	2.5	529	441.3	13.7				
		1323.2	3.2	413.5	437.3	9.7				
		1324.2	4.2	315.3	438.9	11.3				
		1326.3	6.3	210.5	439.6	12.0				
		1327.5	7.5	177	439.3	11.7				
		1329	9	147.7	439.1	11.5				
		1330	10	133	438.9	11.3				
		1332	12	111	438.6	11.0				
		1335	15	89	438.1	10.5				
	0820	1340	20	67	437.5	9.9				

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge



AQUIFER TEST DATA

8/8

est by Coddington

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth 427.6

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
20 Sun		1359	39	34.8	435.9	8.3				
		1380	60	23	434.7	7.1				
		1410	90	15.7	433.7	6.1				
	1010	1450	130	11.2	432.6	5.0				
	1040	1480	160	9.25	432.1	4.5				
	1440	1720	400	4.35	429.6	2.0				

t = time since pumping began  
 t' = time since pumping stopped  
 S = drawdown  
 $\Delta S = S^2/2b$   
 b = thickness of screened interval  
 S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.  
 Q = well discharge

Stepoe Step Drawdown test  
AQUIFER TEST DATA  
Sheet 1/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
Pumped Well Number \_\_\_\_\_  
Original Water Depth 428.7

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
18 Jan	0830	0			428.7	0				
		0.83			446.6	17.9				
		1.42			459.3	30.6				
		2.42			456.8	28.1				
		3.0			450.1	21.4				
		3.33			446.1	17.4				
		4.50			441.6	12.9				
		6.0			440.0	11.3			25.2	
		7.50			435.8	7.1				
		10.0			441.4	12.7			29.9	

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

Stepwise Step Drawdown Test  
AQUIFER TEST DATA

Sheet 2/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
Pumped Well Number \_\_\_\_\_  
Original Water Depth 428.7

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		14			443.0	14.3			30.6	
		20			438.3	9.6				
		30			438.4	9.7				
		45			439.1	10.4				
		60			433.8	5.1			.20	
		90			436.6	7.9			26.3	
		120			438.9	10.2			30	
		120.5	0.5		448.6	19.9				
		121.33	1.33		454.7	26.0				
		122.5	2.5		461.8	33.1				

t = time since pumping began

t' = time since pumping stopped

S = drawdown

$\Delta S = S^2/2b$

b = thickness of screened interval

S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.

Q = well discharge

# Step-toe Step Drawdown test

AQUIFER TEST DATA

Sheet 3/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		123.5	3.5		456.8	28.1				
		124.5	4.5		457.1	28.4				
		126	6		452.7	24.0				
		128	8		456.4	27.7				
		130	10		456.3	27.6			59	
		135	15		456.7	28.0				
		140	20		456.6	27.9				
		150	30		457.2	28.5			59	
		165	45		459.2	30.5			60	
		180	60		458.6	29.9				

t = time since pumping began

t' = time since pumping stopped

S = drawdown

$\Delta S = S^2/2b$

b = thickness of screened interval

S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.

Q = well discharge

Step toe Step drawdown  
AQUIFER TEST DATA

Sheet 4/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
Pumped Well Number \_\_\_\_\_  
Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		210	90		459.6	30.9				
		240	120		459.5	30.8				
		240.5	0.5		468.0	39.3				
		241.0	1.0		475.0	46.3				
		241.5	1.5		478.8	50.1				
		242	2		478.2	49.5				
		243	3		477.0	48.3				
		244.5	4.5		476.4	47.7				
		246	6		476.4	47.7				
		249	9		477.1	48.4			80	

t = time since pumping began

t' = time since pumping stopped

S = drawdown

$\Delta S = S^2/2b$

b = thickness of screened interval

S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.

Q = well discharge



# Step toe Step drawdown test

## AQUIFER TEST DATA

Sheet 5/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		254	14		479.3	50.6			81	
		260	20		478.4	49.7				
		270	30		479.3	50.6			80.4	
		285	45		478.9	50.2				
		300	60		478.4	49.7			.79	
		330	90		481.1	52.4			81	
		360	120		482.7	54.0			81	
		360.5	0.5		491.0	62.3				
		361.0	1.0		496.0	67.3				
		361.5	1.5		500.7	72.0				

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

Step toe Step drawdown test  
AQUIFER TEST DATA

Sheet 6/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
Pumped Well Number \_\_\_\_\_  
Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		362	2		503.3	74.6				
		363	3		515.0	86.3				
		364	4		521.5	92.8				
		366	6		528.9	100.2				
		369	9		530.6	101.9			122	
		374	14		539.1	110.4				
		380	20		544.7	116.0			122	
		390	30		550.4	121.7				
		405	45		552.9	124.2				
		420	60		560.3	131.6			122	

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

# Stepac Step drawdown test

## AQUIFER TEST DATA

Test by Coddington

Sheet 7/8

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		450	90		566.5	137.8			126	
		480	120		569.5	140.8			128	
		480.75	0.75		456.3	27.6				
		482	2		432.7	4.0				
		483	3		436.3	7.6				
		484	4		437.3	8.6				
		486	6		436.9	8.2				
		489	9		436.4	7.7				
		493	13		435.6	6.9				
		500	20		434.6	5.9				

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge

# Step toe Step drawdown test

AQUIFER TEST DATA

Sheet 8/8

Test by Coddington

Observation Well Number \_\_\_\_\_  
 Pumped Well Number \_\_\_\_\_  
 Original Water Depth \_\_\_\_\_

Date	Hour	t (min)	t' (min)	t/t'	Water Depth	S (ft)	$\Delta S$	S'	Q	Remarks
		510	30		433.6	4.9				
		535	55		432.0	3.3				
		575	95		430.7	2.0				
19 Jan	0730	1380			427.6	-1.1				

- t = time since pumping began
- t' = time since pumping stopped
- S = drawdown
- $\Delta S = S^2/2b$
- b = thickness of screened interval
- S' = S -  $\Delta S$  = drawdown corrected for unconfined conditions.
- Q = well discharge