Appendix A

Well Construction Information:

Well Completion Report
Lithologic Log
Penetration Log
Electric Log

Well 2004-1

Mailed 2/15/05 w/ map

DUPLICATE
Driller's Copy

Page ___ of ___
Owner's Well No. 1
Date Work Began ___ Ended ___
Local Permit Agency San Luis Obispo County
Permit No. 2004-520 Permit Date Oct. 24, 2004

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 763488

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

GEOLOGIC LOG

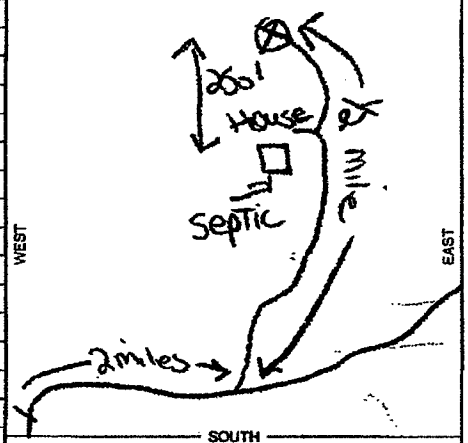
ORIENTATION (✓) ___ VERTICAL X HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Air FLUID Water

DEPTH FROM SURFACE FT.	to FT.	DESCRIPTION *Describe material, grain size, color, etc.*
0	90	Brown shale, Sandy clay
90	120	Darker shale mix
120	180	Black Shale
180	580	Blakk shale & gravel

TOTAL DEPTH OF BORING 580 (Feet)
TOTAL DEPTH OF COMPLETED WELL 560 (Feet)

WELL OWNER
Name Dave Hickey Laetitia Winery
Mailing Address 453 Laetitia Vineyard Dr.
CITY Arroyo Grande STATE Ca. ZIP 93420

WELL LOCATION
Address 787 Upper Los Berros Rd.
City Nipomo
County San Luis Obispo County
APN Book 048 Page 121 Parcel 006
Township 32S Range 14E Section 32
Latitude 35° 06. 142 NORTH (DEG. MIN. SEC.) Longitude 120° 29. 275 WEST (DEG. MIN. SEC.)

LOCATION SKETCH
NORTH


SOUTH
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)
X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)
WATER SUPPLY
X Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH TO FIRST WATER [illegible] (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 121 (Ft.) & DATE MEASURED Dec. 19, 2004
ESTIMATED YIELD * 180 (GPM) & TEST TYPE pump
TEST LENGTH 44 (Hrs.) TOTAL DRAWDOWN 224 (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE FT.	to FT.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	220	12"	X				PVC F480	8"	SDR21	
220	340	12"		X			PVC F480	8"	SDR21	.040
340	370	12"	X				PVC F480	8"	SDR21	
370	560	12"		X			PVC F480	8"	SDR21	.040

ANNULAR MATERIAL

DEPTH FROM SURFACE FT.	to FT.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	X			
50	580			X	Pea Grave

ATTACHMENTS (✓)
___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.
NAME Doug Enloe dba Enloe Well Drilling (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS P.O. Box 1698 CITY Nipomo STATE Ca. ZIP 93444
Signed Doug Enloe (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED Nov. 26, 2004 C-57 LICENSE NUMBER 318877

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Well Log
Laetitia Vineyard & Winery

Well ID: 2004-1
Date: November 1 to 10, 2004
Location: Upper Los Berros Canyon
Elevation: 600 ft above sea level (from topographic map)
Geologist: D. Burke, Cleath & Associates.
Drilling Company: Enloe Drilling
Drilling Method: air lift
Total depth: 560 feet

Lithologic Log
Depth to top and bottom in feet

Top	Bottom	Thickness	Description
0	5	5	**Sandy Clay,** topsoil.
5	10	5	**Mudstone**, dark brownish gray mudstone, lesser light grayish brown porcelanite, trace light brown chert.
10	20	10	**Clay**, soft grayish brown clay with porcelanite and mudstone, trace chert.
20	80	60	**Porcelanite with Chert,** light gray porcelanite, lesser chert trace clay.
80	200	120	**Mudstone**, lesser light grayish brown porcelanite, trace chert.
200	225	25	**Porcelanite and Mudstone,** equal parts brownish gray porcelanite and dark brown mudstone, trace chert.
225	240	15	**Porcelanite,** grayish porcelanite, lesser grayish brown mudstone.
240	280	40	**Mudstone,** predominantly dark mudstone, lesser light grayish brown porcelanite, trace large chert fragments to 2".
280	295	15	**Mudstone, Porcelanite and Chert,** nearly equal parts dark mudstone, grayish porcelanite and red to brown chert, trace large chert clast to 2".
295	330	35	**Mudstone**, predominantly dark mudstone, lesser fine brown sandstone and pale chert.
330	340	10	**Chert,** grayish brown banded chert and lesser dark mudstone.
340	410	70	**Mudstone**, predominantly dark mudstone, lesser large glassy chert.
410	460	50	**Mudstone and Chert,** dark brownish mudstone and large glassy chert fragments, trace rounded porcelanite pebbles.

Well 2004-1 (continued)

Top	Bottom	Thickness	Description
460	480	20	**Mudstone,** dark grayish brown mudstone, minor amounts of porcelanite, trace chert fragments to 2".
480	530	50	**Mudstone and Chert,** dark grayish brown mudstone and large glassy chert fragments, trace rounded porcelanite pebbles.
530	560	30	**Chert and Mudstone**, large fragments of glassy reddish brown chert, lesser dark brown mudstone.

Total Depth: 560

Mailed 2/15/05 with map

DUPLICATE
Driller's Copy

Page ___ of ___

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 763493

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. Well #2
Date Work Began Nov. 18, 2004. Ended Dec. 11, 2004
Local Permit Agency San Luis Obispo County
Permit No. 2004-551 Permit Date Nov. 09, 2004

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Rotary/Air FLUID Water

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	10	Shale
10	30	Shale with sand
30	100	Mudstone with fine sand
100	190	Mudstone
190	220	Mudstone and shale
220	320	Mudstone and gray porcelanite
320	370	Mudstone
370	520	Mudstone with chert
520	576	Silstone

TOTAL DEPTH OF BORING 580 (Feet)
TOTAL DEPTH OF COMPLETED WELL 510 (Feet)

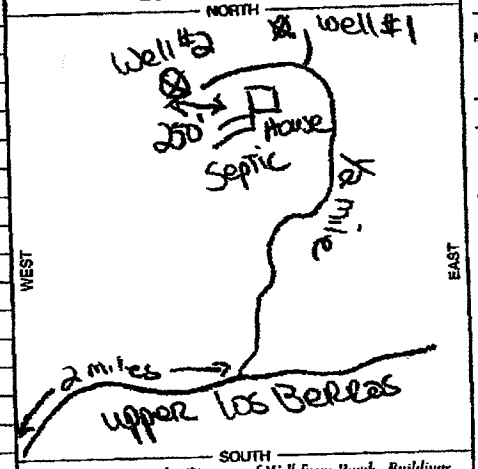
WELL OWNER

Name Dave Hickey Laetitia Winery
Mailing Address 453 Laetitia Vineyard Dr.
Arroyo Grande, Ca. 93420
CITY STATE ZIP

WELL LOCATION

Address 787 Upper Los Berros Rd.
City Nipomo
County San Luis Obispo County
APN Book 048 Page 121 Parcel 006
Township 32S Range 14E Section 32
Latitude 35° 06. 090 NORTH (DEG. MIN. SEC.) Longitude 120° 29. 328 WEST (DEG. MIN. SEC.)

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (*Describe Procedures and Materials Under "GEOLOGIC LOG"*)

PLANNED USES (✓)
WATER SUPPLY
X Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 38'1" (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 38'1" (Ft.) & DATE MEASURED Dec. 26, 2004
ESTIMATED YIELD * 250 (GPM) & TEST TYPE Pump
TEST LENGTH 72 (Hrs.) TOTAL DRAWDOWN 130'1" (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	190	15	X				PVC F480	8	SDR21	
190	320	12		X			PVC F480	8	SDR21	.040
320	370	12	X				PVC F480	8	SDR21	
370	510	12		X			PVC F480	8	SDR21	.040

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE: CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	60	X			
60	510			X	Pea Gravel

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Doug Enloe dba Enloe Well Drilling
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS P.O. Box 1698 Nipomo (CITY) Ca. (STATE) 93444 (ZIP)

Signed Doug Enloe (WELL DRILLER/AUTHORIZED REPRESENTATIVE) Jan. 20, 2005 (DATE SIGNED) 318877 (C-57 LICENSE NUMBER)

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Well Log
Laetitia Vineyard & Winery

Well ID: 2004-2
Date: November 17 to December 6, 2004
Location: Upper Los Berros Canyon
Elevation: 520 ft above sea level (from topographic map)
Geologist: N. Kelley, Cleath & Associates.
Drilling Company: Enloe Drilling
Drilling Method: Airlift to 340 feet, mud rotary 340 to 580 feet
Total depth: 580 feet

Lithologic Log
Depth to top and bottom in feet

Top	Bottom	Thickness	Description
0	10	10	**Shale,** tan to dark brown, trace chert.
10	30	20	**Shale with Silty Sand,** tan shale, angular to subangular fine silty sand.
30	100	70	**Mudstone**, predominantly dark brown to black mudstone, lesser tan shale, trace fine sand and silt, trace chert.
100	190	90	**Mudstone,** dark brown to black mudstone, with reddish brown vitreous chert to ½".
190	220	30	**Shale and Mudstone,** light grayish brown to tan shale and dark brown mudstone, lesser gray porcelanite and reddish brown banded cherts.
220	320	100	**Mudstone**, predominantly dark brown mudstone, lesser tan shale, trace translucent gray porcelanite, trace reddish brown vitreous chert to 1".
320	370	50	**Mudstone,** predominantly dark brown mudstone, trace reddish brown vitreous chert to ½".
370	520	150	**Mudstone with Chert**, predominantly dark mudstone, lesser fragments of reddish brown vitreous chert to ½".
520	580	60	**Siltstone,** dark grayish brown siltstone and mudstone with lesser tan shale, trace chert fragments.

Total Depth 580

Drill Penetration Rate
Well 2004-2
Laetitia Vineyard and Winery

From	To	Depth	Minutes	Ft/Min
0	20	20	--	--
20	40	20	40	0.50
40	60	20	20	1.00
60	80	20	--	--
80	100	20	--	--
100	120	20	49	0.41
120	140	20	44	0.45
140	160	20	40	0.50
160	180	20	62	0.32
180	200	20	125	0.16
200	220	20	--	--
220	240	20	60	0.33
240	260	20	38	0.53
260	280	20	82	0.24
280	300	20	27	0.74
300	320	20	57	0.35
320	340	20	85	0.24
340	360	20	130	0.15
360	380	20	120	0.17
380	400	20	175	0.11
400	420	20	55	0.36
420	440	20	55	0.36
440	460	20	90	0.22
460	480	20	65	0.31
480	500	20	140	0.14
500	530	30	255	0.12
530	564	34	530	0.06

Depths in Feet

welenco

GAMMA / ELECTRIC LOG / CALIPER

FILING NO.

COMPANY Enloe Well Drilling
WELL Laetitie Vinery #2
FIELD
COUNTY San Luis Obispo STATE California

LOCATION:

SEC TWP RGE

OTHER SERV:
NONE

JOB NO.
39506

Permanent Datum: GROUND LEVEL Elev: N/A
Log Measured From G.L. 0 Ft Above Perm Datum
Drilling Measured From GROUND LEVEL

K.B.
D.F.
G.L.

Date	12-06-2004		
Run No.	ONE		
Depth - Driller	576'		
Depth - Logger	576'		
Btm. Log Inter.	576'		
Top Log Inter.	0'		
Casing-Driller	13.5 at 8'		
Casing-Logger	13.5 at		
Bit Size	12"		
Type Fluid In Hole	BENTONITE		
Dens. / Visc.	N/A / N/A		
pH / Fluid Loss	N/A / N/A ml		
Source of Sample	CIRC.		
Rm at Meas.Temp	5.5 at 75 F		
Rmf at Meas.Temp	5.2 at 75 F		
Rmc at Meas.Temp	N/A at F		
Source:Rmf Rmc	MEAS		
Rm at BHT	N/A at F		
Time Since Circ.	2 HRS		
Max. Rec. Temp.	N/A F		
Equip / Location	L16 / BFL		
Rec. added By	BORINSKI		

This Heading and Log Conform To API RP 31

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Changes in Mud Type or Additional Samples

Date	Sample No.	Depth-Driller	Type Fluid in Hole	Dens.	Visc.	pH	Fluid Loss	Source of Sample	Rm at Meas. Temp.	Rmf at Meas. Temp.	Rmc at Meas. Temp.	Source:Rmf Rmc	Rm at BHT	Rmf at BHT	Rmc at BHT
							ml		at F	at F	at F		at F	at F	at F

Equipment Data

Run No.	Tool Type	PadType	Tool Pos	Other
ONE	ELECTRIC		FREE	

REMARKS WELL DRILLED BY ENLOE WELL DRILLING

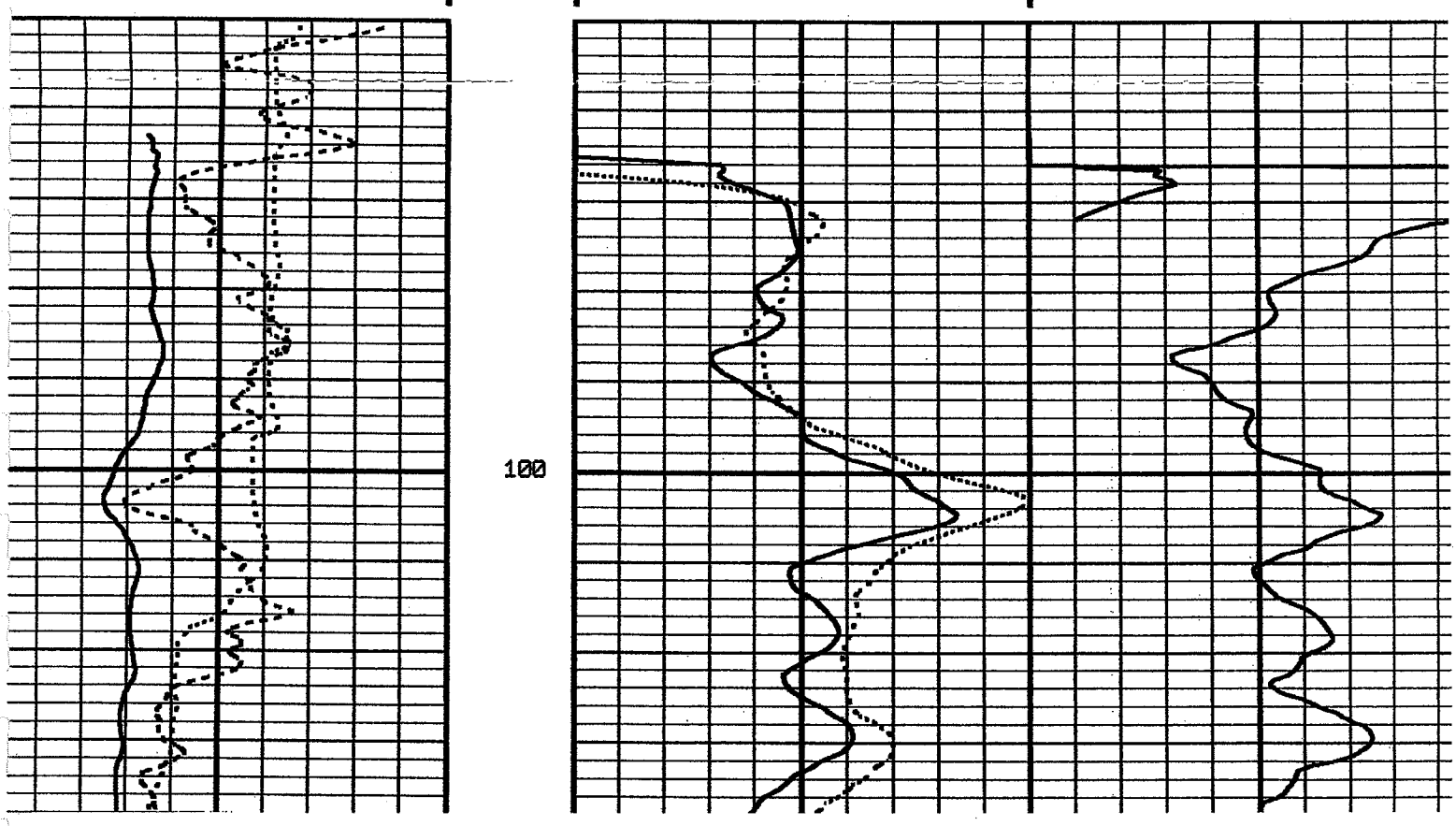
SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohmmeters2 /meter	RESISTANCE ohms

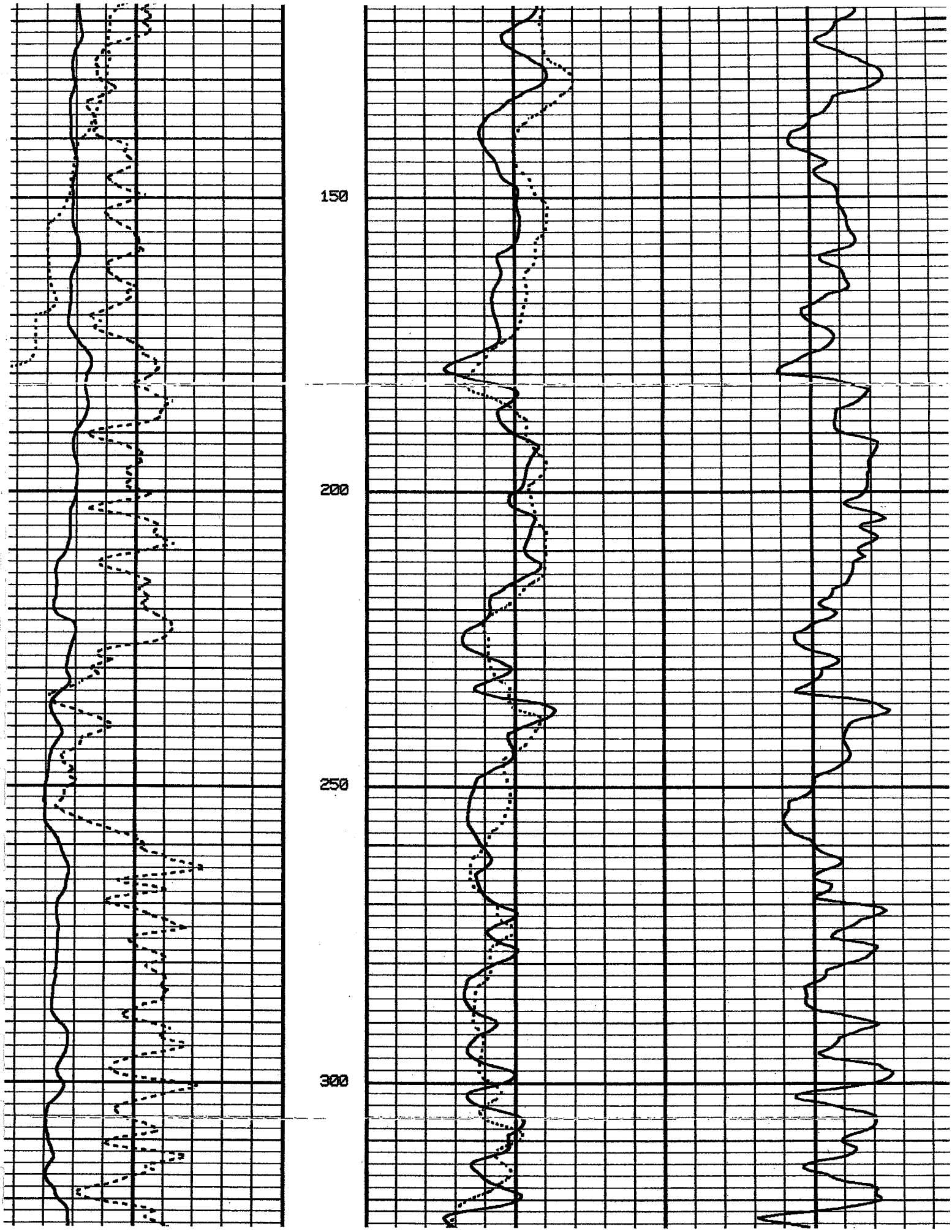
old here This Heading and Log Conform To API RP 31

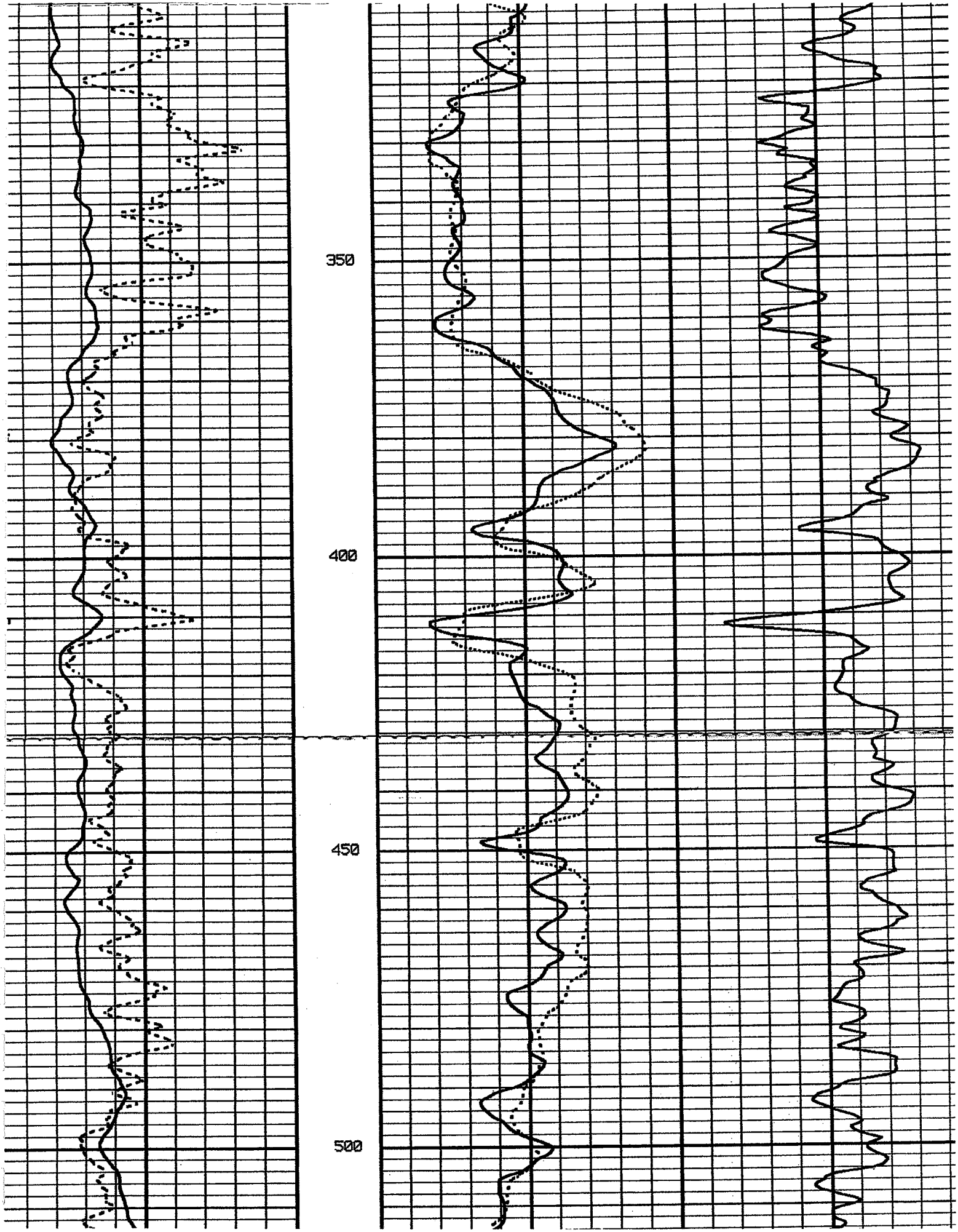
hanges in Mud Type or Additional Samples						Scale Changes			
ate	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hol
epth-Driller									
ype Fluid in Hole									
Dens.	Visc.								
ph	Fluid Loss		ml		ml				
Source of Sample						Equipment Data			
Rm at Meas. Temp.		at	F	at	F	Run No.	Tool Type	PadType	Tool Pos	Other
Rmf at Meas. Temp.		at	F	at	F	ONE	ELECTRIC		FREE	
Rmc at Meas. Temp.		at	F	at	F					
Source:Rmf	Rmc									
Rm at BHT		at	F	at	F					
Rmf at BHT		at	F	at	F					
Rmc at BHT		at	F	at	F					

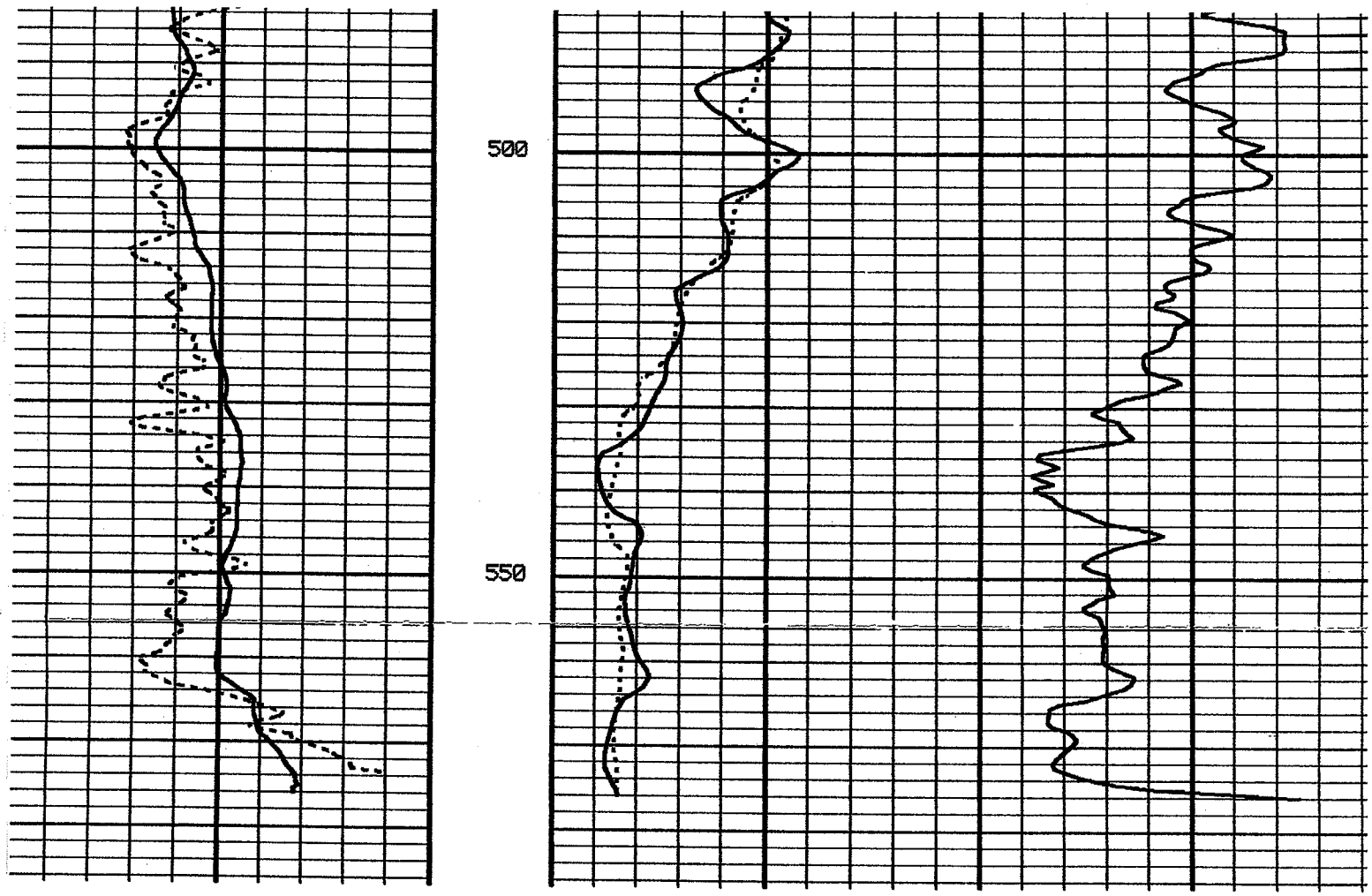
REMARKS WELL DRILLED BY ENLOE WELL DRILLING

SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohmmeters2 /meter	RESISTANCE ohms
- ⟷ + 10 Mv		SHORT NORMAL 0 16 Inch 200	
		0 X10 BACK UP 2000	
GAMMA RAY 0 ---------- API ---------- 150		LONG NORMAL 0 64 Inch 200	SINGLE POINT Detail Curve
CALIPER 4 ..... Inches 14		0 X10 BACK UP 2000	X10 BACK UP




150
200
250
300


350
400
450
500



4 .....Inches 14
CALIPER LOG
0 ---------- API ---------- 150
GAMMA RAY

- 10mV +

SPONTANEOUS POTENTIAL
milivolts

DEPTHS

0 X10 BACK UP 2000
.....
0 LONG NORMAL 200
64 INCH

0 X10 BACK UP 2000
0 SHORT NORMAL 200
16 INCH

Ohmmeters2/ meter
RESISTIVITY

X10 BACK UP
Detail Curve
SINGLE POINT

Ohms
RESISTANCE

Well 2004-3

Mailed 12/15/05 with map

DUPLICATE
Driller's Copy

Page ___ of ___

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 763494

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. Well #3
Date Work Began Dec. 18, 2004 Ended Jan. 15, 2005
Local Permit Agency San Luis Obispo County
Permit No. 2004-593 Permit Date Dec. 6, 2004

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Rotary/air FLUID Water

DEPTH FROM SURFACE FT.	to FT.	DESCRIPTION *Describe material, grain size, color, etc.*
0	5	Top soil
5	20	Light brown clay
20	40	Light brown clay
40	60	Darker brown clay
60	80	Light grey clay
80	100	Light grey clay/crumbley grey shale
100	120	Grey shale small pieces
120	140	Grey shale small and large
140	200	Grey shale large pieces
200	350	Hard grey rock

TOTAL DEPTH OF BORING 350 (Feet)
TOTAL DEPTH OF COMPLETED WELL 330 (Feet)

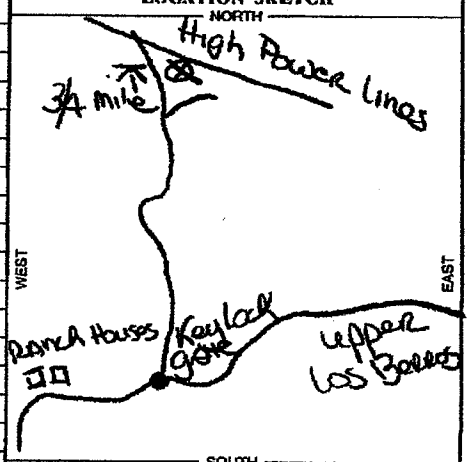
WELL OWNER

Name Dave Hickey Laetitia Winery
Mailing Address 453 Laetitia Vineyard Dr.
Arroyo Grande (CITY) Ca. (STATE) 93420 (ZIP)

WELL LOCATION

Address Upper Los Berros Rd. N14
City Nipomo
County San Luis Obispo County
APN Book 047 Page 301 Parcel 003
Township 32S Range 14E Section 32
Latitude 35° 6.048 (DEG. MIN. SEC.) NORTH Longitude 120° 30.432 (DEG. MIN. SEC.) WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY
X Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 71 (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 71 (Ft.) & DATE MEASURED Jan. 24, 2005
ESTIMATED YIELD * 200 (GPM) & TEST TYPE pump
TEST LENGTH 72 (Hrs.) TOTAL DRAWDOWN 143 (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	150	17"	X				PVC F480	10	SDR21	
150	240	17"		X			PVC F480	10"	SDR21	.040
240	280	17"	X				PVC F480	8"	SDR21	
280	330	17"		X			PVC F480	8"	SDR 21	.040

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	100	X			
100	340			X	3/4 Pea Gr

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Doug Enloe dba Enloe Well Drilling (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS P.O. Box 1698 CITY Nipomo STATE Ca. ZIP 93444
Signed Doug Enloe (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED Jan 20, 2005 C-57 LICENSE NUMBER 318877

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

Well Log
Laetitia Vineyard & Winery

Well ID: 2004-3
Date: December 18 to December 23, 2004
Location: Upper Los Berros Canyon
Elevation: 620 ft above sea level (from topographic map)
Geologist: D. Burke, Cleath & Associates.
Drilling Company: Enloe Drilling
Drilling Method: Airlift
Total depth: 340 feet

Lithologic Log
Depth to top and bottom in feet

Top	Bottom	Thickness	Description
0	30	30	**Silty, Clayey Sand,** yellowish brown, fine grained sand, lesser medium to coarse grained, fragments of weathered volcanic sandstone.
30	100	70	**Clayey Sand,** light grayish brown, fine grained sand, lesser medium to coarse grained, fragments of gray vitreous welded tuff.
100	120	20	**Sandstone,** medium gray, poorly sorted volcanic sandstone.
120	190	70	**Tuff,** dark gray, welded, vitreous, common pyrite coatings.
190	210	20	**Diabase;** medium to dark gray aphanitic rock, with pyrite and calcite.
210	235	25	**Volcanics,** medium to dark gray aphanitic rock, with lesser amounts of dark yellow aphanitic volcanic rock.
235	295	60	**Diabase,** dark gray aphanitic rock, less resistant, trace quartz.
295	340	45	**Tuff,** dark gray, welded, fractured, with pyrite and calcite filling fractures.

Total Depth: 340

Drill Penetration Rate
Well 2004-3
Laetitia Vineyard and Winery

From	To	Depth	Minutes	Ft/Min
0	5	5	--	--
5	20	15	--	--
20	40	20	15	1.33
40	60	20	15	1.33
60	80	20	20	1.00
80	100	20	40	0.50
100	120	20	25	0.80
120	140	20	65	0.31
140	160	20	85	0.24
160	180	20	90	0.22
180	200	20	162	0.12
200	220	20	142	0.14
220	230	10	40	0.25
230	240	10	175	0.06
240	255	15	150	0.10
255	265	10	45	0.22
265	285	20	40	0.50
285	305	20	190	0.11
305	325	20	175	0.11
325	335	10	60	0.17

Depths in Feet

weenco

ELECTRIC LOG \ GAMMA \ CALIPER

FILING NO.	COMPANY	ENLOE DRILLING COMPANY
	WELL	LATITICA WINERY NO ~~4~~ 3
	FIELD	NIPOMO
	COUNTY	S.L. OBISPO STATE CALIFORNIA
JOB NO. 39579	LOCATION: SEC ____ TWP ____ RGE ____	OTHER SERV: NONE

Permanent Datum: GROUND LEVEL Elev: ____ K.B. ____
Log Measured From G.L. 0 Ft Above Perm Datum D.F. ____
Drilling Measured From GROUND LEVEL G.L. ____

Date	12-23-2004		
Run No.	ONE		
Depth - Driller	345'		
Depth - Logger	341'		
Btm. Log Inter.	340'		
Top Log Inter.	3'		
Casing-Driller	14" at 20'		
Casing-Logger	13.5 at 20'		
Bit Size	11'		
Type Fluid In Hole	WATER		
Dens. / Visc.	N/A / N/A		
pH / Fluid Loss	N/A / N/A ml		
Source of Sample	WELL		
Rm at Meas.Temp	6.3 at 75 F		
Rmf at Meas.Temp	at 75 F		
Rmc at Meas.Temp	N/A at F		
Source:Rmf Rmc	MEAS		
Rm at BHT	N/A at F		
Time Since Circ.			
Max. Rec. Temp.	N/A F		
Equip / Location	L-10 / BFL		
Recorded By	L. HOCK		
Witnessed By	D. ENLOE		

Fold Here

This Heading and Log Conform To API RP 31

Changes in Mud Type or Additional Samples

Date	Sample No.	Depth-Driller	Type Fluid in Hole	Dens. / Visc.	pH / Fluid Loss	Source of Sample	Rm at Meas. Temp.	Rmf at Meas. Temp.	Rmc at Meas. Temp.	Source:Rmf / Rmc	Rm at BHT	Rmf at BHT	Rmc at BHT
					ml		at F	at F	at F		at F	at F	at F
					ml		at F	at F	at F		at F	at F	at F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down

Equipment Data

Run No.	Tool Type	PadType	Tool Pos	Other
ONE	ELECTRIC		FREE	

REMARKS:

WELL DRILLED BY:ENLOE DRILLING
DRILLER:

old Here

This Heading and Log Conform To API RP 31

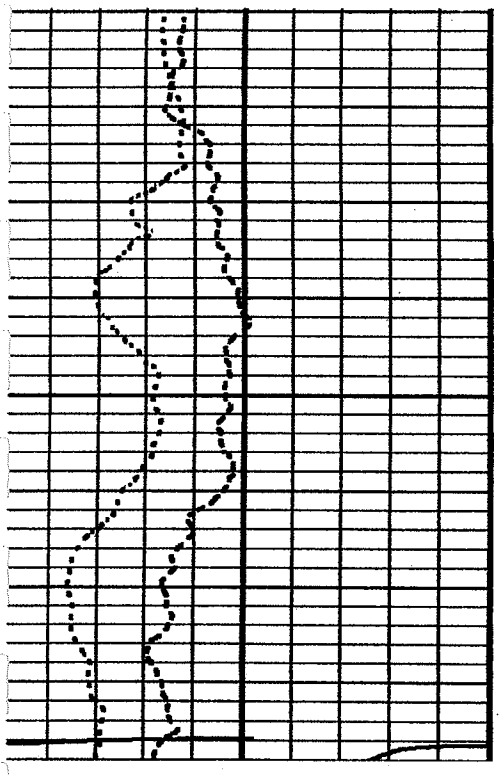
hanges in Mud Type or Additional Samples						Scale Changes			
ate	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Ho
epth-Driller									
ype Fluid in Hole									
Dens.	Visc.								
ph	Fluid Loss		ml		ml				
Source of Sample						Equipment Data			
Rm at Meas. Temp.		at	F	at	F	Run No.	Tool Type	PadType	Tool Pos	Other
Rmf at Meas. Temp.		at	F	at	F	ONE	ELECTRIC		FREE	
Rmc at Meas. Temp.		at	F	at	F					
Source:Rmf	Rmc									
Rm at BHT		at	F	at	F					
Rmf at BHT		at	F	at	F					
Rmc at BHT		at	F	at	F					

EMARKS:

ELL DRILLED BY:ENLOE DRILLING

RILLER:

SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohmmeters2 /meter	ohms
- 5 +		SHORT NORMAL 0 16 Inch 100 0 X10 BACK UP 1000	
0-------API UNITS----------200 GAMMA RAY 10...CALIPER IN INCHES.....20		LONG NORMAL 0 64 Inch 100 0 X10 BACK UP 1000	SINGLE POINT Detail Curve



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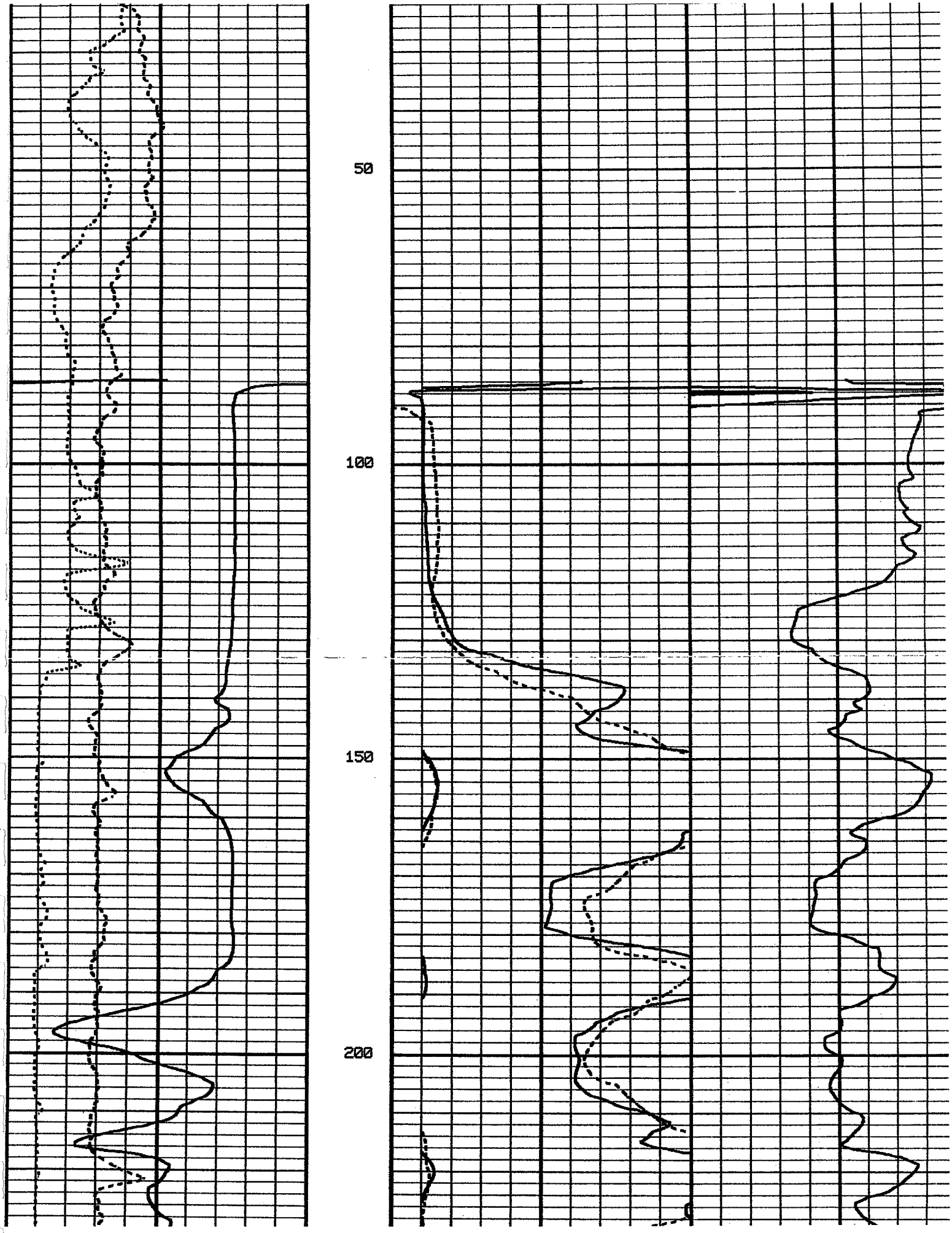
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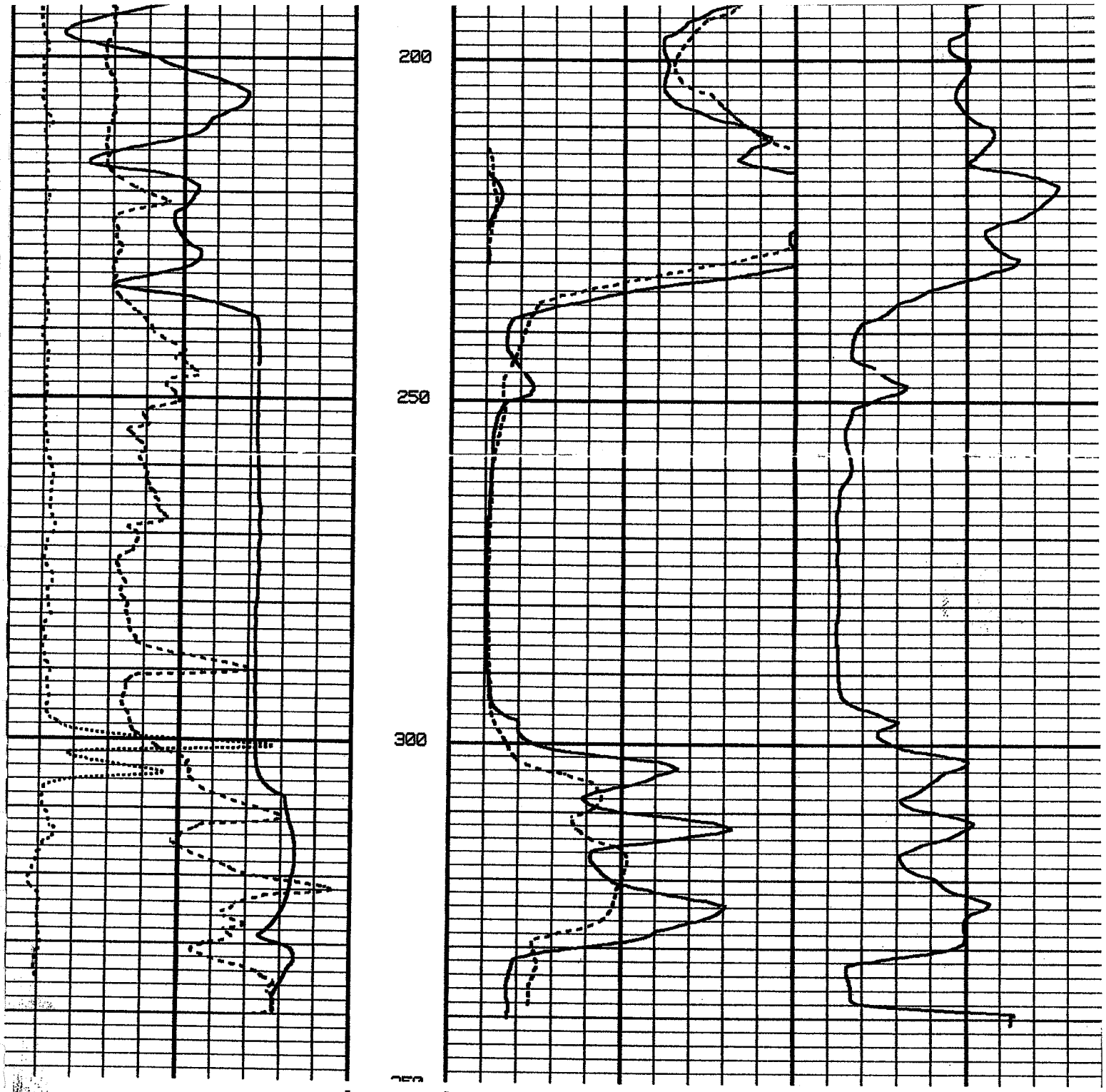


0 API UNITS 200
GAMMA RAY
10 ...CALIPER IN INCHES.....20

- 5 +

millivolts
SPONTANEOUS POTENTIAL

DEPTHS

0 X10 BACK UP 1000

0 64 Inch 100
LONG NORMAL

0 X10 BACK UP 1000

0 16 Inch 100
SHORT NORMAL

ohmmeters2/meter
RESISTIVITY

Detail Curve
SINGLE POINT

ohms
RESISTANCE

Well 2005-1

ORIGINAL
File with DWR

Page ___ of ___

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet
No. 1085590

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. #4-2005
Date Work Began June27,2005, Ended July15,2005
Local Permit Agency San Luis Obispo Environmental
Permit No. 2004-594 Permit Date Dec.6, 2005

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD Mud Rotary FLUID Bentinite

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	5	Top soil
5	20	Clay
20	60	Loose shale-Lt. Brown
60	70	Grey shale
70	80	Grey and brown shale
80	100	Lt. tan shale
100	150	Lt. blue rock (solid)
150	180	Lt. brown rock (solid)
180	210	Lt. blue sandstone
210	230	Dk. Blue Sandstone
230	260	Dk Grey Rock
260	280	Soft dark grey rock
280	310	Large pieces of dark brown rock

TOTAL DEPTH OF BORING 310 (Feet)
TOTAL DEPTH OF COMPLETED WELL 308 (Feet)

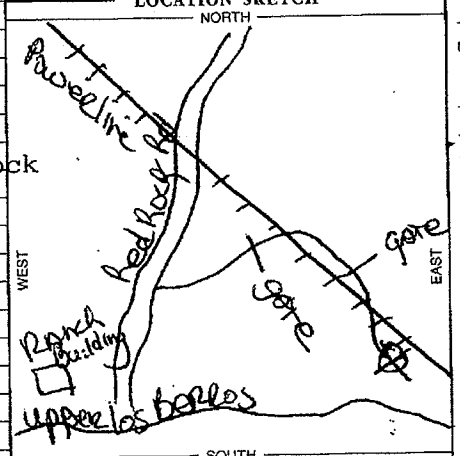
WELL OWNER

Name Dave Hickey Laetitia Winery
Mailing Address 453 Laetitia Vineyard Dr.
Arroyo Grande (CITY) Ca. (STATE) 93420 (ZIP)

WELL LOCATION

Address 787 Upper Los Berros Rd.
City Nipomo
County San Luis Obispo County
APN Book 048 Page 121 Parcel 006
Township 32S Range 14E Section 32
Lat 35° 05. 938 (DEG. MIN. SEC.) N Long 120° 30. 390 (DEG. MIN. SEC.) W

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. ***PLEASE BE ACCURATE & COMPLETE.***

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

USES (✓)

WATER SUPPLY
X Domestic ___ Public
___ Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 89 (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 89 (Ft.) & DATE MEASURED July26,2005
ESTIMATED YIELD * 200+ (GPM) & TEST TYPE Pump
TEST LENGTH 76 (Hrs.) TOTAL DRAWDOWN 35 (Ft.)
** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	115	12	X				PVCf480	8	SDR 21	
115	305	12		X			PVCf480	8	SDR 21	.040

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	X			
50	305			X	Laps#3

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Doug Enloe dba Enloe Well Drilling (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS P.O. Box 1698 Nipomo (CITY) Ca. (STATE) 93444 (ZIP)
Signed Doug Enloe (C-57 LICENSED WATER WELL CONTRACTOR) Sept.21,2005 (DATE SIGNED) 318877 (C-57 LICENSE NUMBER)

DWR 188 REV. 05-03 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM OSP 03 7883

Well Log
Laetitia Vineyard & Winery

Well ID: 2005-1
Date: June 27 to July 12, 2005
Location: Upper Los Berros Canyon
Elevation: 410 ft above sea level (from topographic map)
Geologist: N. Kelley, Cleath & Associates.
Drilling Company: Enloe Drilling
Drilling Method: Airlift
Total depth: 310 feet

Lithologic Log
Depth to top and bottom in feet

Top	Bottom	Thickness	Description
0	20	20	**Volcanics,** dark reddish brown to dark gray, weathered and oxidized.
20	60	40	**Rhyolitic Volcanics**, white to gray, trace oxidation.
60	100	40	**Tuffaceous Mudstone**, dark gray, with up to 50 percent reddish to white oxidized volcanics.
100	120	20	**Tuff and Tuffaceous Siltstone,** gray to yellowish brown, cuttings finely ground.
120	190	70	**Rhyolite Tuff;** yellowish brown and gray.
190	220	40	**Clayey Tuff,** light gray.
220	310	90	**Rhyolite Tuff and Tuffaceous Siltstone,** light to dark gray with reddish yellow volcanic fragments, larger clasts from 280-290 feet. Becoming very hard at 310 feet (drilled one foot in one hour).

Total Depth: 310

welenco

ELECTRIC LOG

ILING NO.	COMPANY	Enloe Drilling
	WELL	Laettica Vineyards 2005-1
	FIELD	Arroyo Grande
	COUNTY	San Luis Obispo STATE California
OB NO. 4573	LOCATION: Upper Los Barros Cyn. SEC ____ TWP ____ RGE ____	OTHER SERV: NONE

Permanent Datum: GROUND LEVEL Elev: N/A K.B. ____
Log Measured From G.L. 0 Ft Above Perm Datum D.F. ____
Drilling Measured From GROUND LEVEL G.L. ____

Date	07-13-2005		
Run No.	ONE		
Depth - Driller	310'		
Depth - Logger	309'		
Btm. Log Inter.	308'		
Top Log Inter.	110'		
Casing-Driller	12" at 73'		
Casing-Logger	12" at 73'		
Bit Size	11"		
Type Fluid In Hole	WATER		
Dens. | Visc.	N/A | N/A		
pH Fluid Loss	N/A | N/A ml		
Source of Sample	AIR LIFT		
Rm at Meas.Temp	7.1 at 75 F		
Rmf at Meas.Temp	7.1 at 75 F		
Rmc at Meas.Temp	N/A at F		
Source:Rmf Rmc	MEAS		
Rm at BHT	N/A at F		
Time Since Circ.			
Max. Rec. Temp.	N/A F		
Equip | Location	L11 | BFL		
Recorded By	BOBINSKI		

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This Heading and Log Conform To API RP 31

Scale Changes

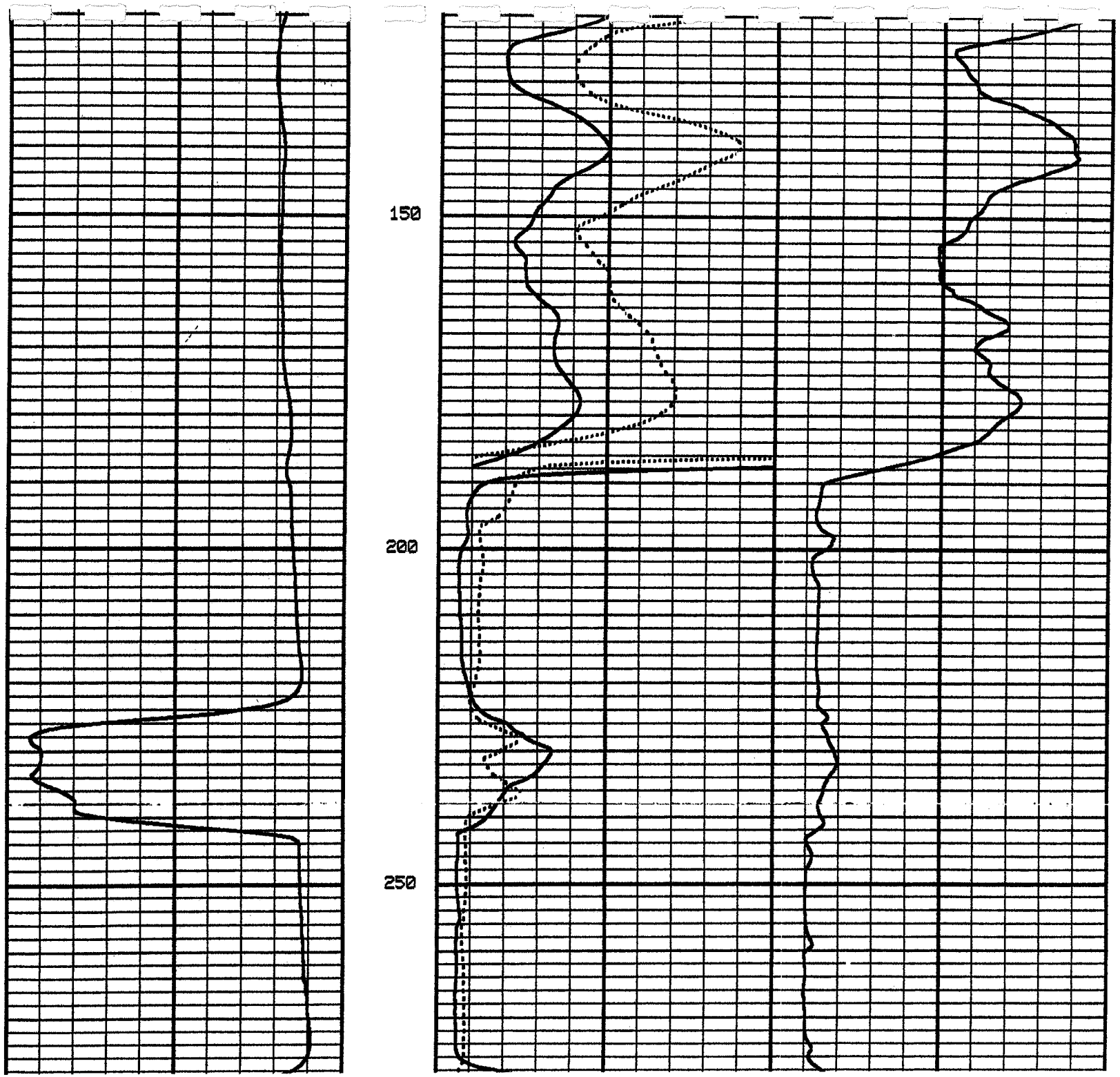
Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	PadType	Tool Pos	Other
ONE	ELECTRIC		FREE	

Changes in Mud Type or Additional Samples

Date			
Sample No.			
Depth-Driller			
Type Fluid in Hole			
Dens. | Visc.			
ph | Fluid Loss			
Source of Sample			
Rm at Meas. Temp.	at F	at F	at F
Rmf at Meas. Temp.	at F	at F	at F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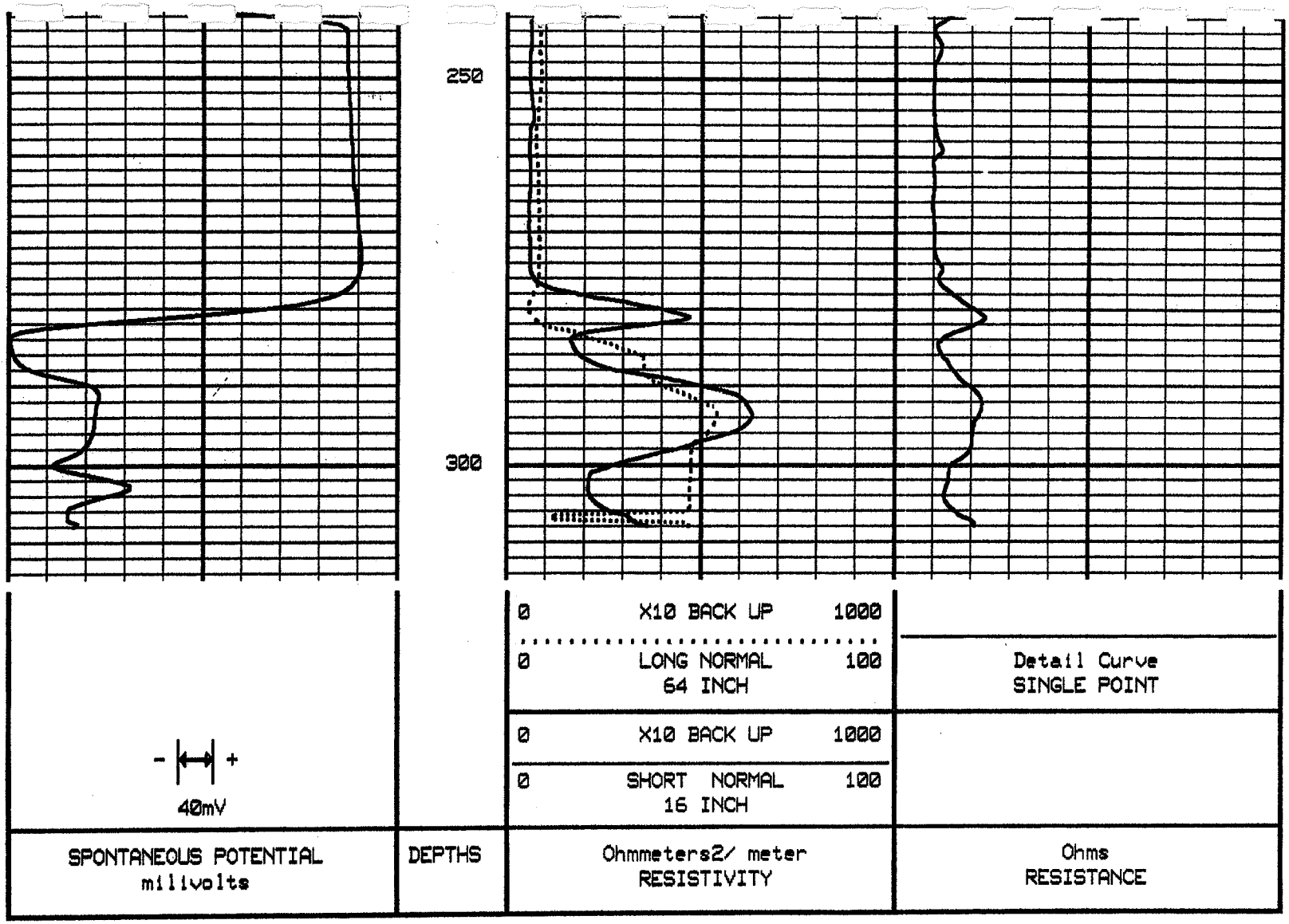
250


250
300
0 X10 BACK UP 1000
0 LONG NORMAL 100
64 INCH
Detail Curve
SINGLE POINT
0 X10 BACK UP 1000
0 SHORT NORMAL 100
16 INCH
- + 40mV
SPONTANEOUS POTENTIAL
millivolts
DEPTHS
Ohmmeters2/ meter
RESISTIVITY
Ohms
RESISTANCE

Appendix B

Water Quality Results

Well 2004-1

CREEK ENVIRONMENTAL LABORATORIES, INC.
141 SUBURBAN ROAD, SUITE C-5 - SAN LUIS OBISPO, CA 93401 - (805) 545-9838 - FAX (805) 545-0107

Dave Hickey
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 04-C14632
Order: L6585
Received: 12/21/04

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Well 2004-1	Dennis Burke	12/21/04@14:50	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Total Alkalinity as CaCO3	400	2	mg/L	SM 2320B	12/28/04
Chloride	39	1	mg/L	EPA 300.0	12/22/04
Color	Not Detected	1	units	SM 2120B	12/21/04
Electrical Conductance	920	1	umhos/cm	SM 2510	12/21/04
Fluoride	0.2	0.1	mg/L	EPA 300.0	12/22/04
Langlier Index (Corrosivity)	0.0	---	pH units	SM 2330B	01/03/05
MBAS(Anionic Surfactants MW=340)	Not Detected	0.05	mg/L	SM 5540 C	12/23/04
Nitrate as N	Not Detected	0.1	mg/L	EPA 300.0	12/22/04
Nitrate as NO3	Not Detected	0.4	mg/L	EPA 300.0	12/22/04
Nitrite as N	Not Detected	0.1	mg/L	EPA 300.0	12/22/04
Odor	Not Detected	1	TON	SM 2150B	12/21/04
pH	6.9	0.1	units	EPA 150.1	12/21/04
Sulfate	62	0.5	mg/L	EPA 300.0	12/22/04
Sulfide, Total	Not Detected	0.1	mg/L	EPA 376.2	12/22/04
Total Dissolved Solids	550	10	mg/L	EPA 160.1	12/27/04
Turbidity	0.6	0.1	NTU	EPA 180.1	12/21/04
Silver	Not Detected	0.01	mg/L	EPA 200.7	12/22/04
Aluminum	Not Detected	0.05	mg/L	EPA 200.7	12/22/04
Arsenic	0.004	0.002	mg/L	EPA 200.9	01/05/05
Boron	0.06	0.05	mg/L	EPA 200.7	12/22/04
Barium	Not Detected	0.1	mg/L	EPA 200.7	12/22/04
Beryllium	Not Detected	0.001	mg/L	EPA 200.7	12/22/04
Calcium	94	0.03	mg/L	EPA 200.7	12/22/04
Hardness	450	1	mg/L CaCO3	EPA 200.7	12/22/04
Cadmium	Not Detected	0.001	mg/L	EPA 200.9	12/28/04
Chromium	Not Detected	0.01	mg/L	EPA 200.7	12/22/04
Copper	Not Detected	0.05	mg/L	EPA 200.7	12/22/04
Iron	0.1	0.1	mg/L	EPA 200.7	12/22/04
Mercury	Not Detected	0.001	mg/L	EPA 245.1	01/04/05
Potassium	1.3	0.1	mg/L	EPA 200.7	12/22/04
Magnesium	53	0.03	mg/L	EPA 200.7	12/22/04

CREEK ENVIRONMENTAL LABORATORIES, INC.
141 SUBURBAN ROAD, SUITE C-5 - SAN LUIS OBISPO, CA 93401 - (805) 545-9838 - FAX (805) 545-0107

Dave Hickey
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 04-C14632
Order: L6585
Received: 12/21/04

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Well 2004-1	Dennis Burke	12/21/04@14:50	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Manganese	0.03	0.02	mg/L	EPA 200.7	12/22/04
Sodium	20	0.05	mg/L	EPA 200.7	12/22/04
Nickel	Not Detected	0.01	mg/L	EPA 200.7	12/22/04
Lead	Not Detected	0.005	mg/L	EPA 200.9	12/27/04
Antimony	Not Detected	0.006	mg/L	EPA 200.9	01/05/05
Selenium	Not Detected	0.005	mg/L	EPA 200.9	12/28/04
Thallium	Not Detected	0.001	mg/L	EPA 200.9	12/29/04
Zinc	0.09	0.05	mg/L	EPA 200.7	12/22/04

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Manager, Mary Ann Long

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Orval Osborne
Creek Environmental Laboratories
141 Suburban Road Suite C5
San Luis Obispo, CA 93401

Report Issue Date: 01/04/2005

BSK Submission #: 2004121636
BSK Sample ID #: 533179

Project ID: L6585
Project Desc:
Submission Comments:
Sample Type: Liquid
Sample Description: Well 2004-1 (14632)
Sample Comments:

Date Sampled: 12/21/2004
Time Sampled: 1456
Date Received: 12/23/2004

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Cyanide (CN)	SM 4500-CN E	ND	mg/L	0.02	1	0.02	12/28/04	01/03/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

Well 2004-2

CREEK ENVIRONMENTAL LABORATORIES, INC.
141 SUBURBAN ROAD, SUITE C-5 · SAN LUIS OBISPO, CA 93401 · (805) 545-9838 · FAX (805) 545-0107

Dave Hickey
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 04-C14802
Order: L6686
Received: 12/29/04

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Well 2004-2	Dennis Burke	12/29/04@10:00	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Total Alkalinity as CaCO3	420	2	mg/L	SM 2320B	01/06/05
Chloride	39	1	mg/L	EPA 300.0	12/29/04
Color	Not Detected	1	units	SM 2120B	12/29/04
Electrical Conductance	970	1	umhos/cm	SM 2510	12/29/04
Fluoride	0.2	0.1	mg/L	EPA 300.0	12/29/04
Langlier Index (Corrosivity)	0.0	---	pH units	SM 2330B	01/07/05
MBAS(Anionic Surfactants MW=340)	Not Detected	0.05	mg/L	SM 5540 C	12/30/04
Nitrate as N	Not Detected	0.1	mg/L	EPA 300.0	12/29/04
Nitrate as NO3	Not Detected	0.4	mg/L	EPA 300.0	12/29/04
Nitrite as N	Not Detected	0.1	mg/L	EPA 300.0	12/29/04
Odor	10	1	TON	SM 2150B	12/29/04
pH	6.9	0.1	units	EPA 150.1	12/29/04
Sulfate	66	0.5	mg/L	EPA 300.0	12/29/04
Sulfide, Total	1.1	0.1	mg/L	EPA 376.2	01/04/05
Total Dissolved Solids	580	10	mg/L	EPA 160.1	01/03/05
Turbidity	0.8	0.1	NTU	EPA 180.1	12/29/04
Silver	Not Detected	0.01	mg/L	EPA 200.7	01/04/05
Aluminum	Not Detected	0.05	mg/L	EPA 200.7	01/04/05
Arsenic	Not Detected	0.002	mg/L	EPA 200.9	01/05/05
Boron	0.06	0.05	mg/L	EPA 200.7	01/04/05
Barium	Not Detected	0.1	mg/L	EPA 200.7	01/04/05
Beryllium	Not Detected	0.001	mg/L	EPA 200.7	01/04/05
Calcium	90	0.03	mg/L	EPA 200.7	01/04/05
Hardness	440	1	mg/L CaCO3	EPA 200.7	01/04/05
Cadmium	Not Detected	0.001	mg/L	EPA 200.9	01/14/05
Chromium	Not Detected	0.01	mg/L	EPA 200.7	01/04/05
Copper	Not Detected	0.05	mg/L	EPA 200.7	01/04/05
Iron	0.1	0.1	mg/L	EPA 200.7	01/04/05
Mercury	Not Detected	0.001	mg/L	EPA 245.1	01/04/05
Potassium	2.8	0.1	mg/L	EPA 200.7	01/04/05
Magnesium	51	0.03	mg/L	EPA 200.7	01/04/05

CREEK ENVIRONMENTAL LABORATORIES, INC.
141 SUBURBAN ROAD, SUITE C-5 • SAN LUIS OBISPO, CA 93401 • (805) 545-9838 • FAX (805) 545-0107

Log Number: 04-C14802
Order: L6686
Received: 12/29/04

Dave Hickey
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Well 2004-2	Dennis Burke	12/29/04@10:00	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Manganese	Not Detected	0.02	mg/L	EPA 200.7	01/04/05
Sodium	26	0.05	mg/L	EPA 200.7	01/04/05
Nickel	Not Detected	0.01	mg/L	EPA 200.7	01/04/05
Lead	Not Detected	0.005	mg/L	EPA 200.9	01/04/05
Antimony	Not Detected	0.006	mg/L	EPA 200.9	01/05/05
Selenium	Not Detected	0.005	mg/L	EPA 200.9	01/14/05
Thallium	Not Detected	0.001	mg/L	EPA 200.9	01/12/05
Zinc	Not Detected	0.05	mg/L	EPA 200.7	01/04/05

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Manager, Mary Ann Kong

PRINTED ON RECYCLED PAPER

Well 2004-3

CREEK ENVIRONMENTAL LABORATORIES, INC.
141 SUBURBAN ROAD, SUITE C-5 • SAN LUIS OBISPO, CA 93401 • (805) 545-9838 • FAX (805) 545-0107

John Janneck
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 05-C1207
Order: M0603
Received: 02/02/05

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Well 2004-3	Neil Kelley	02/02/05@10:37	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Total Alkalinity as CaCO3	300	2	mg/L	SM 2320B	02/07/05
Chloride	52	1	mg/L	EPA 300.0	02/02/05
Total Cyanide	Not Detected	0.005	mg/L	EPA 335.2	02/11/05
Color	Not Detected	1	units	SM 2120B	02/02/05
Electrical Conductance	1,300	1	umhos/cm	SM 2510	02/02/05
Fluoride	0.2	0.1	mg/L	EPA 300.0	02/02/05
Langlier Index (Corrosivity)	0.1	---	pH units	SM 2330B	02/09/05
MBAS(Anionic Surfactants MW=340)	Not Detected	0.05	mg/L	SM 5540 C	02/03/05
Nitrate as N	Not Detected	0.1	mg/L	EPA 300.0	02/02/05
Nitrate as NO3	Not Detected	0.4	mg/L	EPA 300.0	02/02/05
Nitrite as N	Not Detected	0.1	mg/L	EPA 300.0	02/02/05
Odor	Not Detected	1	TON	SM 2150B	02/02/05
pH	7.5	0.1	units	EPA 150.1	02/02/05
Sulfate	350	5	mg/L	EPA 300.0	02/03/05
Sulfide, Total	Not Detected	0.1	mg/L	EPA 376.2	02/08/05
Total Dissolved Solids	860	10	mg/L	EPA 160.1	02/07/05
Turbidity	0.4	0.1	NTU	EPA 180.1	02/02/05
Silver	Not Detected	0.01	mg/L	EPA 200.7	02/04/05
Aluminum	Not Detected	0.05	mg/L	EPA 200.7	02/04/05
Arsenic	Not Detected	0.002	mg/L	EPA 200.9	02/10/05
Boron	0.10	0.05	mg/L	EPA 200.7	02/04/05
Barium	Not Detected	0.1	mg/L	EPA 200.7	02/04/05
Beryllium	Not Detected	0.001	mg/L	EPA 200.7	02/04/05
Calcium	40	0.03	mg/L	EPA 200.7	02/04/05
Hardness	340	1	mg/L CaCO3	EPA 200.7	02/04/05
Cadmium	Not Detected	0.001	mg/L	EPA 200.9	02/14/05
Chromium	Not Detected	0.01	mg/L	EPA 200.7	02/04/05
Copper	Not Detected	0.05	mg/L	EPA 200.7	02/04/05
Iron	0.2	0.1	mg/L	EPA 200.7	02/04/05
Mercury	Not Detected	0.001	mg/L	EPA 245.1	02/09/05
Potassium	13	0.1	mg/L	EPA 200.7	02/04/05

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John Janneck
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 05-C1207
Order: M0603
Received: 02/02/05

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Well 2004-3	Neil Kelley	02/02/05@10:37	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Magnesium	58	0.03	mg/L	EPA 200.7	02/04/05
Manganese	Not Detected	0.02	mg/L	EPA 200.7	02/04/05
Sodium	170	0.05	mg/L	EPA 200.7	02/04/05
Nickel	Not Detected	0.01	mg/L	EPA 200.7	02/04/05
Lead	Not Detected	0.005	mg/L	EPA 200.9	02/15/05
Antimony	Not Detected	0.006	mg/L	EPA 200.9	02/11/05
Selenium	Not Detected	0.005	mg/L	EPA 200.9	02/09/05
Thallium	Not Detected	0.001	mg/L	EPA 200.9	02/07/05
Zinc	Not Detected	0.05	mg/L	EPA 200.7	02/04/05

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Manager, Mary Ann Long

Well 2005-1

Tim Cleath
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 05-C8525
Order: M3935
Project: Enloe #4
Received: 07/29/05

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
~~Well #4~~ 2005-1	Doug Enloe	07/29/05@11:45	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Total Alkalinity as CaCO3	310	2	mg/L	SM 2320B	08/03/05
Chloride	53	1	mg/L	EPA 300.0	07/29/05
Total Cyanide	Not Detected	0.005	mg/L	EPA 335.2	08/05/05
Color	Not Detected	1	units	SM 2120B	07/29/05
Electrical Conductance	1,000	1	umhos/cm	SM 2510	07/29/05
Fluoride	0.5	0.1	mg/L	EPA 300.0	07/29/05
Langlier Index (Corrosivity)	0.1	---	pH units	SM 2330B	08/09/05
MBAS(Anionic Surfactants MW=340)	Not Detected	0.05	mg/L	SM 5540 C	07/29/05
Nitrate as N	0.5	0.1	mg/L	EPA 300.0	07/29/05
Nitrate as NO3	2.2	0.4	mg/L	EPA 300.0	07/29/05
Nitrite as N	Not Detected	0.1	mg/L	EPA 300.0	07/29/05
Odor	Not Detected	1	TON	SM 2150B	07/29/05
pH	7.1	0.1	units	EPA 150.1	07/29/05
Sulfate	140	0.5	mg/L	EPA 300.0	07/29/05
Sulfide, Total	Not Detected	0.1	mg/L	EPA 376.2	07/29/05
Total Dissolved Solids	650	10	mg/L	EPA 160.1	08/04/05
Turbidity	1.1	0.1	NTU	EPA 180.1	07/29/05
Boron	0.07	0.05	mg/L	EPA 200.7	08/07/05
Calcium	98	0.03	mg/L	EPA 200.7	08/07/05
Hardness	470	1	mg/L CaCO3	EPA 200.7	08/07/05
Iron	0.1	0.1	mg/L	EPA 200.7	08/07/05
Mercury	Not Detected	0.001	mg/L	EPA 245.1	08/02/05
Potassium	3.0	0.1	mg/L	EPA 200.7	08/07/05
Magnesium	55	0.03	mg/L	EPA 200.7	08/07/05
Sodium	39	0.05	mg/L	EPA 200.7	08/07/05
Aluminum	Not Detected	0.05	mg/L	EPA 200.8	08/07/05
Antimony	Not Detected	0.006	mg/L	EPA 200.8	08/07/05
Arsenic	0.003	0.002	mg/L	EPA 200.8	08/07/05
Barium	Not Detected	0.1	mg/L	EPA 200.8	08/07/05
Beryllium	Not Detected	0.001	mg/L	EPA 200.8	08/07/05

Tim Cleath
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 05-C8525
Order: M3935
Project: Enloe #4
Received: 07/29/05

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
~~Well #4~~ 2005-1	Doug Enloe	07/29/05@11:45	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Cadmium	Not Detected	0.001	mg/L	EPA 200.8	08/07/05
Chromium	Not Detected	0.01	mg/L	EPA 200.8	08/07/05
Copper	Not Detected	0.05	mg/L	EPA 200.8	08/07/05
Lead	Not Detected	0.005	mg/L	EPA 200.8	08/07/05
Manganese	Not Detected	0.02	mg/L	EPA 200.8	08/07/05
Nickel	Not Detected	0.01	mg/L	EPA 200.8	08/07/05
Selenium	0.029	0.005	mg/L	EPA 200.8	08/07/05
Silver	Not Detected	0.01	mg/L	EPA 200.8	08/07/05
Thallium	Not Detected	0.001	mg/L	EPA 200.8	08/07/05
Zinc	Not Detected	0.05	mg/L	EPA 200.8	08/07/05

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Enloe Well #1

CREEK ENVIRONMENTAL LABORATORIES, INC.
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Tim Cleath
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 05-C8433
Order: M3886
Project: Enloe #1
Received: 07/28/05

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Enloe #1	Doug Enloe	07/27/05@12:00	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Total Alkalinity as CaCO3	320	2	mg/L	SM 2320B	08/03/05
Chloride	45	1	mg/L	EPA 300.0	07/28/05
Total Cyanide	Not Detected	0.005	mg/L	EPA 335.2	08/04/05
Color	Not Detected	1	units	SM 2120B	07/28/05
Electrical Conductance	1,000	1	umhos/cm	SM 2510	07/28/05
Fluoride	0.5	0.1	mg/L	EPA 300.0	07/28/05
Langlier Index (Corrosivity)	0.2	---	pH units	SM 2330B	08/09/05
MBAS(Anionic Surfactants MW=340)	Not Detected	0.05	mg/L	SM 5540 C	07/29/05
Nitrate as N	Not Detected	0.1	mg/L	EPA 300.0	07/28/05
Nitrate as NO3	Not Detected	0.4	mg/L	EPA 300.0	07/28/05
Nitrite as N	Not Detected	0.1	mg/L	EPA 300.0	07/28/05
Odor	Not Detected	1	TON	SM 2150B	07/28/05
pH	7.2	0.1	units	EPA 150.1	07/28/05
Sulfate	160	0.5	mg/L	EPA 300.0	07/28/05
Sulfide, Total	Not Detected	0.1	mg/L	EPA 376.2	07/29/05
Total Dissolved Solids	630	10	mg/L	EPA 160.1	08/03/05
Turbidity	2.7	0.1	NTU	EPA 180.1	07/28/05
Boron	0.08	0.05	mg/L	EPA 200.7	08/07/05
Calcium	97	0.03	mg/L	EPA 200.7	08/07/05
Hardness	460	1	mg/L CaCO3	EPA 200.7	08/07/05
Iron	0.4	0.1	mg/L	EPA 200.7	08/07/05
Mercury	Not Detected	0.001	mg/L	EPA 245.1	08/02/05
Potassium	2.9	0.1	mg/L	EPA 200.7	08/07/05
Magnesium	54	0.03	mg/L	EPA 200.7	08/07/05
Sodium	39	0.05	mg/L	EPA 200.7	08/07/05
Aluminum	0.32	0.05	mg/L	EPA 200.8	08/07/05
Antimony	Not Detected	0.006	mg/L	EPA 200.8	08/07/05
Arsenic	0.002	0.002	mg/L	EPA 200.8	08/07/05
Barium	Not Detected	0.1	mg/L	EPA 200.8	08/07/05
Beryllium	Not Detected	0.001	mg/L	EPA 200.8	08/07/05

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Tim Cleath
Laetitia Winery
453 Laetitia Vineyard Drive
Arroyo Grande, CA 93420

Log Number: 05-C8433
Order: M3886
Project: Enloe #1
Received: 07/28/05

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	SAMPLED BY	SAMPLED DATE @ TIME	MATRIX
Enloe #1	Doug Enloe	07/27/05@12:00	Drinking Water

ANALYTE	RESULT	DLR	UNITS	METHOD	ANALYZED
Cadmium	Not Detected	0.001	mg/L	EPA 200.8	08/07/05
Chromium	Not Detected	0.01	mg/L	EPA 200.8	08/07/05
Copper	Not Detected	0.05	mg/L	EPA 200.8	08/07/05
Lead	Not Detected	0.005	mg/L	EPA 200.8	08/07/05
Manganese	0.034	0.02	mg/L	EPA 200.8	08/07/05
Nickel	Not Detected	0.01	mg/L	EPA 200.8	08/07/05
Selenium	Not Detected	0.005	mg/L	EPA 200.8	08/07/05
Silver	Not Detected	0.01	mg/L	EPA 200.8	08/07/05
Thallium	Not Detected	0.001	mg/L	EPA 200.8	08/07/05
Zinc	Not Detected	0.05	mg/L	EPA 200.8	08/07/05

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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Appendix C

Pumping Test Data

Well 2004-1

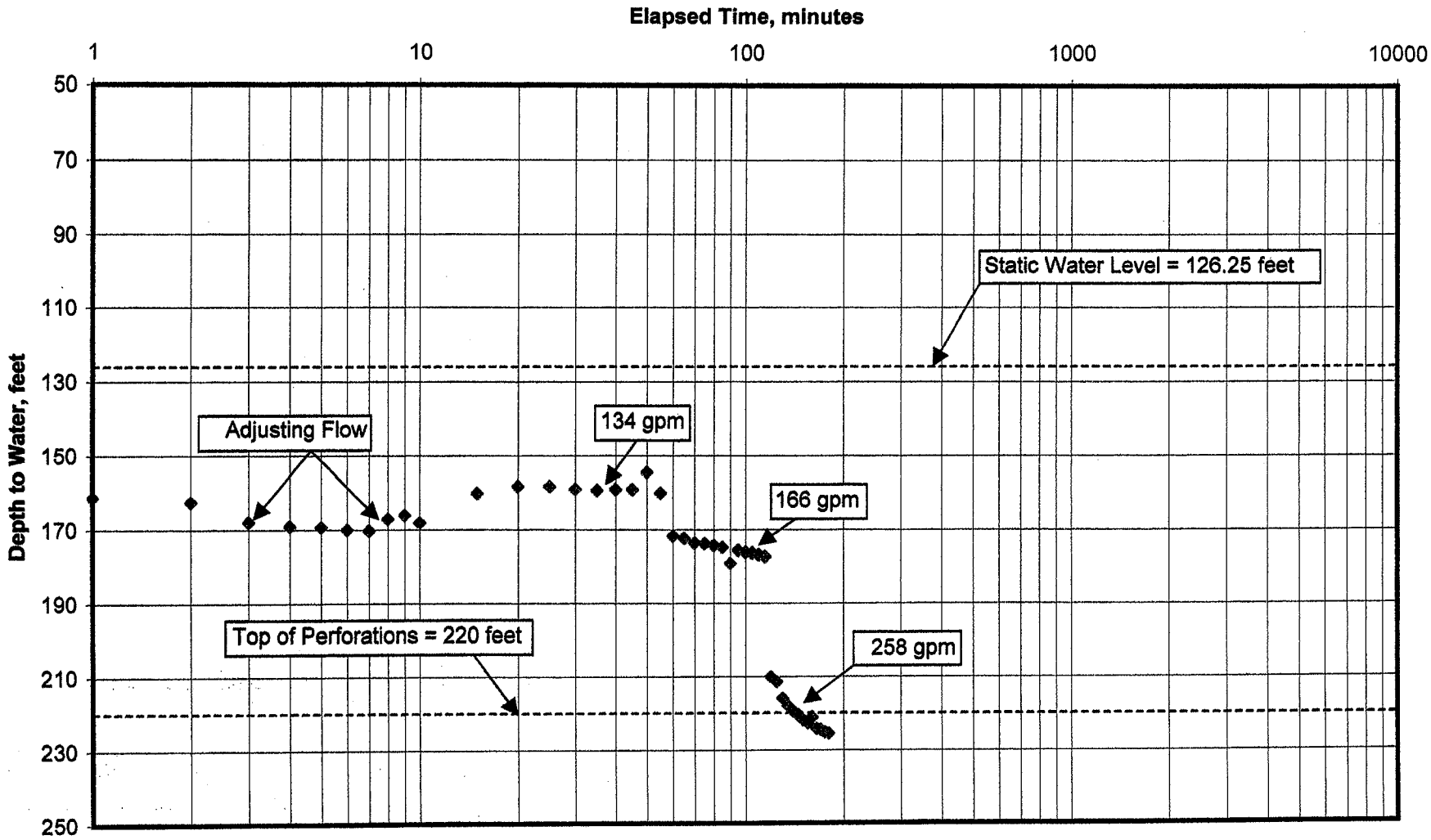
Pumping Test, Laetitia Well 2004-1, December 19-21, 2004

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate
Mo./Day/Yr	hr:min	minutes	feet	feet	gallons per minute
Dec 19 2004	9:33	0	121.33	0	Start
	9:34	1	154.00	32.67	200
	9:35	2	159.50	38.17	
	9:36	3	160.17	38.84	
	9:37	4	161.00	39.67	
	9:38	5	161.75	40.42	
	9:39	6	162.67	41.34	
	9:40	7	164.25	42.92	
	9:41	8	167.00	45.67	
	9:42	9	168.67	47.34	
	9:43	10	170.25	48.92	
	9:44	11	171.00	49.67	
	9:45	12	171.17	49.84	
	9:46	13	171.42	50.09	
	9:47	14	172.00	50.67	
	9:48	15	172.50	51.17	
	9:49	16	173.00	51.67	
	9:50	17	173.58	52.25	
	9:51	18	173.83	52.50	
	9:52	19	175.50	54.17	
	9:53	20	176.17	54.84	
	9:54	21	176.83	55.50	
	9:55	22	177.33	56.00	
	10:00	27	174.00	52.67	
	10:05	32	175.17	53.84	
	10:10	37	176.00	54.67	
	10:30	57	179.83	58.50	
	11:00	87	183.00	61.67	
	11:30	117	188.00	66.67	
	12:00	147	188.50	67.17	
	12:30	177	191.17	69.84	
	13:00	207	192.58	71.25	
	13:52	259	194.67	73.34	
	14:30	297	195.75	74.42	
	15:04	331	196.50	75.17	
	18:16	523	201.50	80.17	
	19:07	574	202.50	81.17	
	22:00	747	206.67	85.34	
Dec 20 2004	1:00	927	209.00	87.67	
	4:00	1107	212.00	90.67	
	7:00	1287	214.00	92.67	
	8:01	1348	214.75	93.42	
	11:04	1531	216.83	95.50	
	14:44	1751	219.00	97.67	
	19:00	2007	220.50	99.17	
	23:00	2247	222.17	100.84	
Dec 21 2004	3:00	2487	224.17	102.84	200
	6:15	2682			pump off
	STOP				

Recovery Test, Laetitia Well 2004-1, December 21, 2004

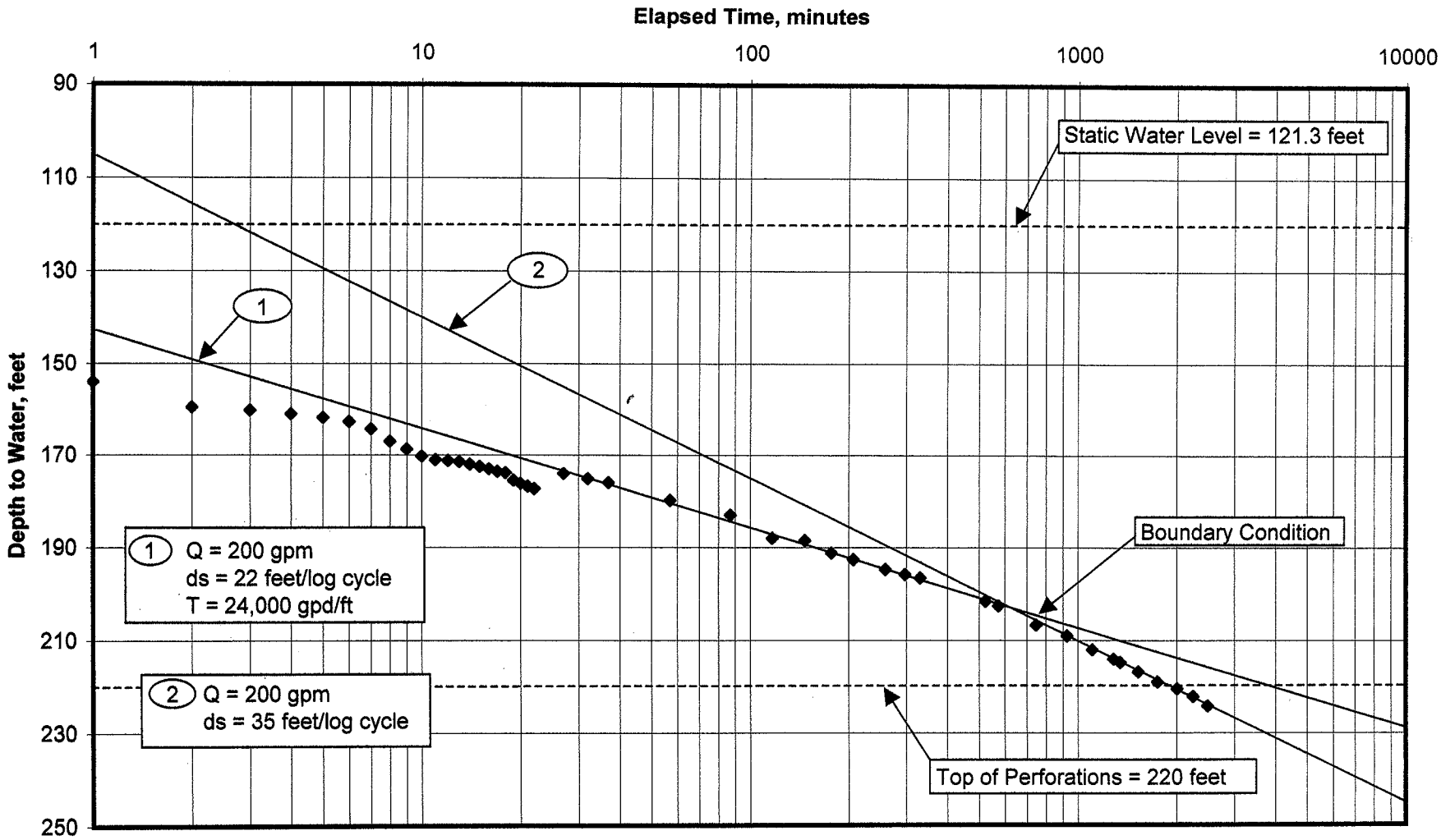
Day	Time	Elapsed Time	Depth to Water	Drawdown	Recovery Time Ratio
Mo./Day/Yr	hr:min	minutes	feet	feet	t/t(0)
Recovery					
Dec 21 2004	6:49	34	178.00	56.67	80
	6:50	35	178.00	56.67	78
	6:55	40	176.00	54.67	68
	7:00	45	175.08	53.75	61
	7:05	50	174.00	52.67	55
	7:10	55	174.00	52.67	50
	7:15	60	173.50	52.17	46
	7:30	75	171.50	50.17	37
	8:00	105	170.83	49.5	27
	8:15	120	170.25	48.92	23
	8:25	130	168.08	46.75	22
	12:09	354	162.00	40.67	9
	13:17	422	160.33	39	7
	STOP				

Stepped Test - Laetitia Well #2004-1
December 2, 2004
Depth to Static Water Level: 126.25 feet



Pumping Test - Laetitia Well #2004-1
December 19-21, 2004

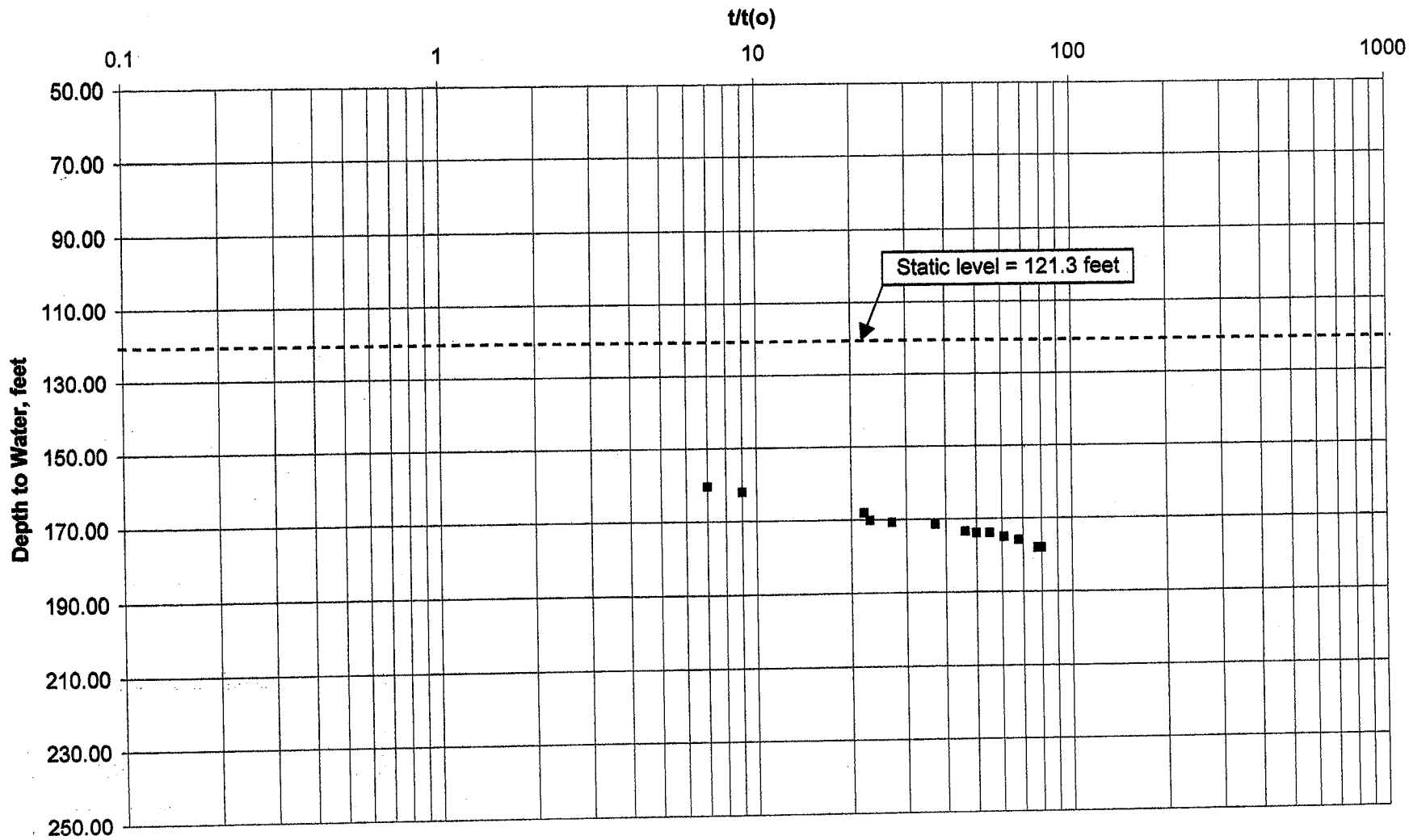
Depth to Static Water Level: 121.33 feet **Pumping Rate: 200 gpm**



Recovery Test - Laetitia Well 2004-1
December 21, 2004

Depth to Static Water Level: 121.3 feet

Average Pumping Rate: 200 gpm



Well 2004-2

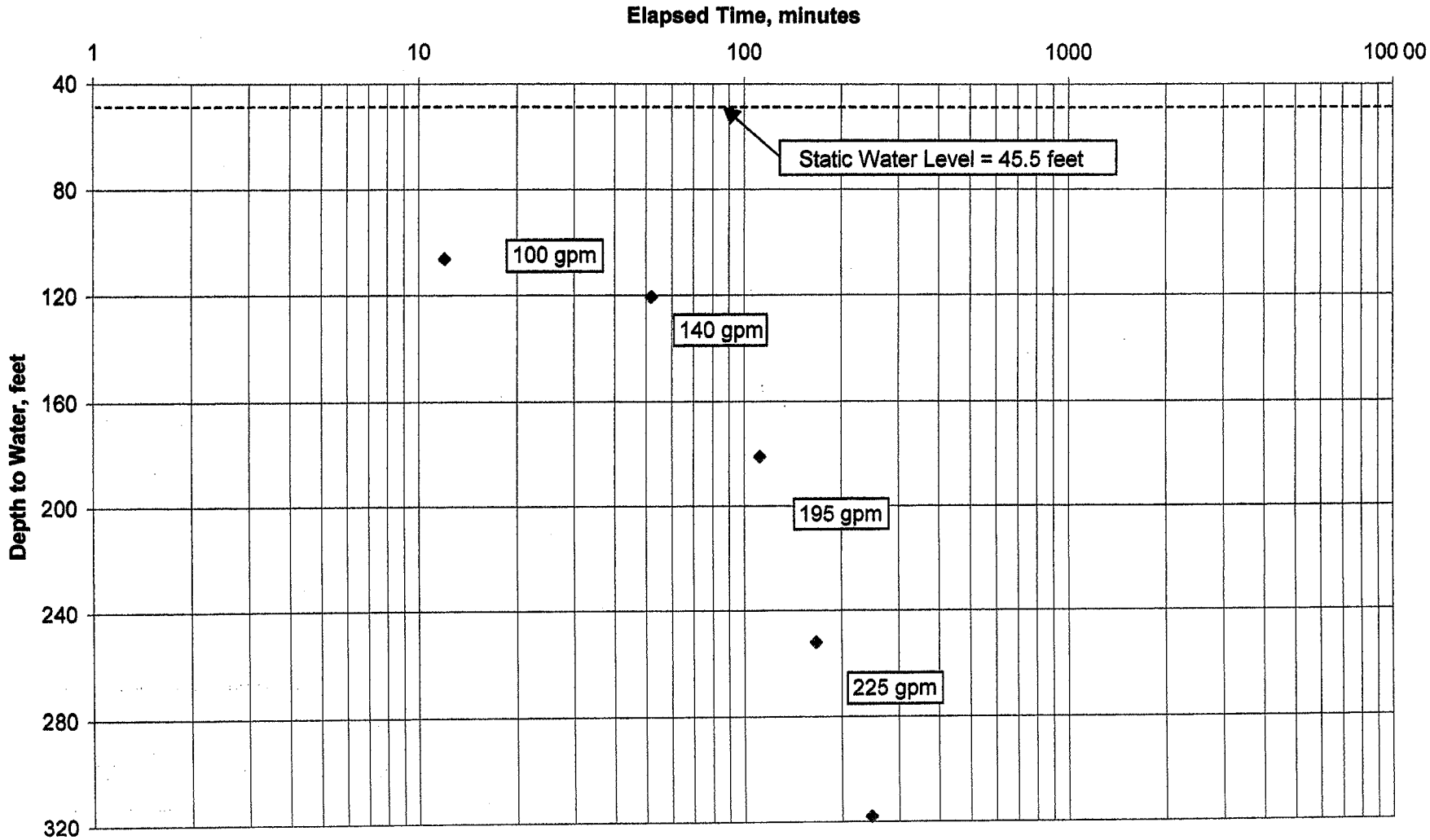
Pumping Test, Laetitia Well 2004-2, December 27-30, 2004

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate
Mo./Day/Yr	hr:min	minutes	feet	feet	gallons per minute
Dec 27 2004	2:44 PM	0	102.25	0	Start
	2:45 PM	1	108.00	5.75	100
	2:46 PM	2	110.00	7.75	
	2:47 PM	3	111.17	8.92	
	2:48 PM	4	114.00	11.75	
	2:49 PM	5	116.00	13.75	
	2:50 PM	6	116.25	14.00	
	2:51 PM	7	117.50	15.25	
	2:52 PM	8	118.00	15.75	
	2:53 PM	9	118.33	16.08	
	2:54 PM	10	119.00	16.75	
	2:55 PM	11	119.00	16.75	
	3:00 PM	16	125.67	23.42	
	3:11 PM	27	127.33	25.08	
	3:33 PM	49	128.00	25.75	
	3:35 PM	51	128.92	26.67	
	4:04 PM	80	129.83	27.58	
	4:23 PM	99	131.75	29.50	
	4:50 PM	126	133.01	30.76	
	5:55 PM	191	150.83	48.58	
	7:00 PM	256	146.00	43.75	
	8:35 PM	351	141.00	38.75	
	9:33 PM	409	142.00	39.75	
	10:35 PM	471	142.67	40.42	
12/28/2004	12:00 PM	556	142.08	39.83	
	3:06 AM	742	143.00	40.75	
	7:03	979	145.00	42.75	
	10:51	1207	147.25	45.00	
	2:05 PM	1401	148.00	45.75	
	3:00 PM	1456	149.33	47.08	
	7:50 PM	1746	151.33	49.08	
	9:40 PM	1856	151.83	49.58	
12/29/2004	1:00 AM	2056	152.50	50.25	
	6:14 AM	2370	154.00	51.75	
	10:19 AM	2615	155.00	52.75	
	1:47 PM	2823	157.33	55.08	
	1:57 PM	2833	157.00	54.75	
	7:33 PM	3169	156.92	54.67	
	7:57 PM	3193	157.50	55.25	
	8:27 PM	3223	158.50	56.25	
	9:23 PM	3279	159.33	57.08	
	9:25 PM	3281	159.50	57.25	
12/30/2004	2:32 AM	3588	160.17	57.92	
	5:24 AM	3760	161.00	58.75	
	5:37 AM	3773	161.50	59.25	
	9:02 AM	3978	162.00	59.75	
	1:10 PM	4226	163.25	61.00	100
	STOP				pump off

Recovery Test, Laetitia Well 2004-2, December 30, 2004

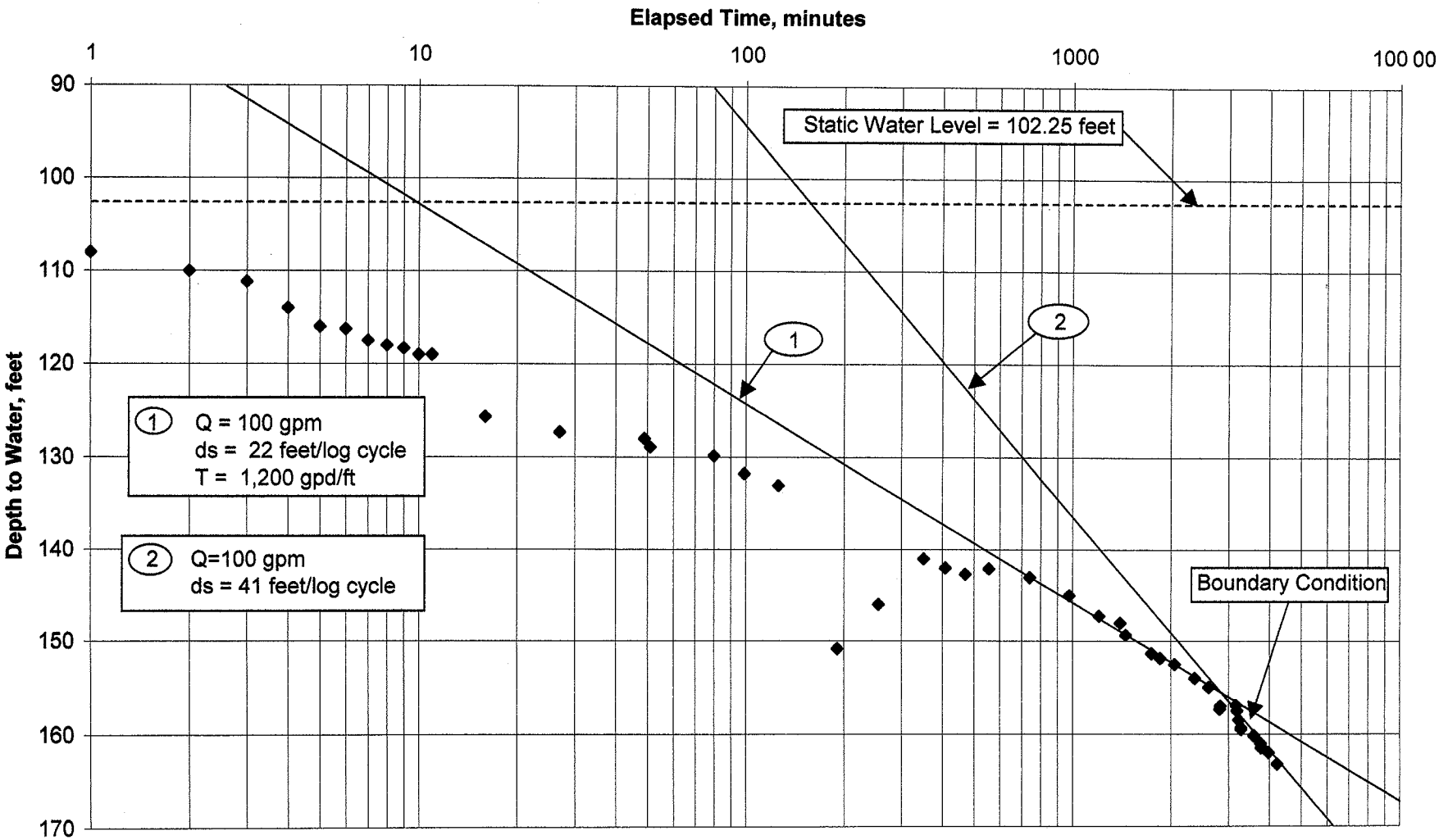
Day	Time	Elapsed Time	Depth to Water	Drawdown	Recovery Time Ratio
Mo./Day/Yr	hr:min	minutes	feet	feet	t/t(0)
12/30/2004	1:15	5	130.00	27.75	846
	1:16	6	121.00	18.75	705
	1:17	7	114.00	11.75	605
	1:18	8	111.00	8.75	529
	1:19	9	109.00	6.75	471
	1:20	10	108.00	5.75	424
	1:23	13	105.50	3.25	326
	1:24	14	104.50	2.25	303
	1:25	15	104.25	2.00	283
	1:30	20	102.50	0.25	212
	1:35	25	101.25	-1.00	170
	1:40	30	100.33	-1.92	142
	1:45	35	99.50	-2.75	122
	2:00	50	97.00	-5.25	86
	3:00	110	94.00	-8.25	39
	4:00	170	91.92	-10.33	26
	5:00	230	91.08	-11.17	19

Stepped Test - Laetitia Well #2004-2
December 26, 2004
Depth to Static Water Level: 45.5 feet



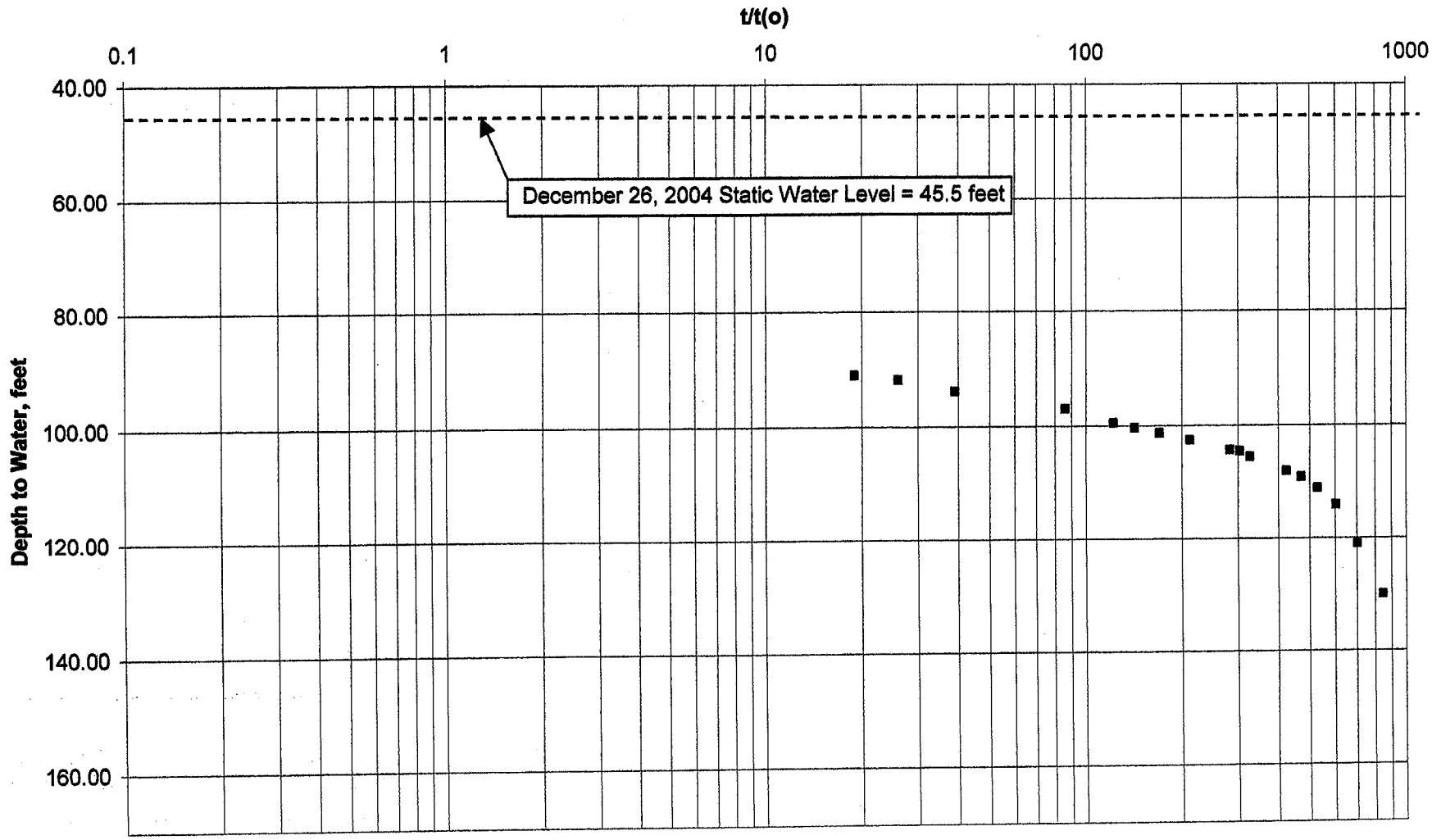
Pumping Test - Laetitia Well #2004-2
December 27 to 30, 2004

Depth to Static Water Level: 102.25 feet **Average Pumping Rate: 100 gpm**



Recovery Test - Laetitia Well 2004-2
December 30, 2004

Depth to Static Water Level Prior to Test: 102.25 feet **Average Pumping Rate: 100 gpm**



Well 2004-3

Pumping Test (72 hour), Laetitia Well 2004-3, February 1, 2005

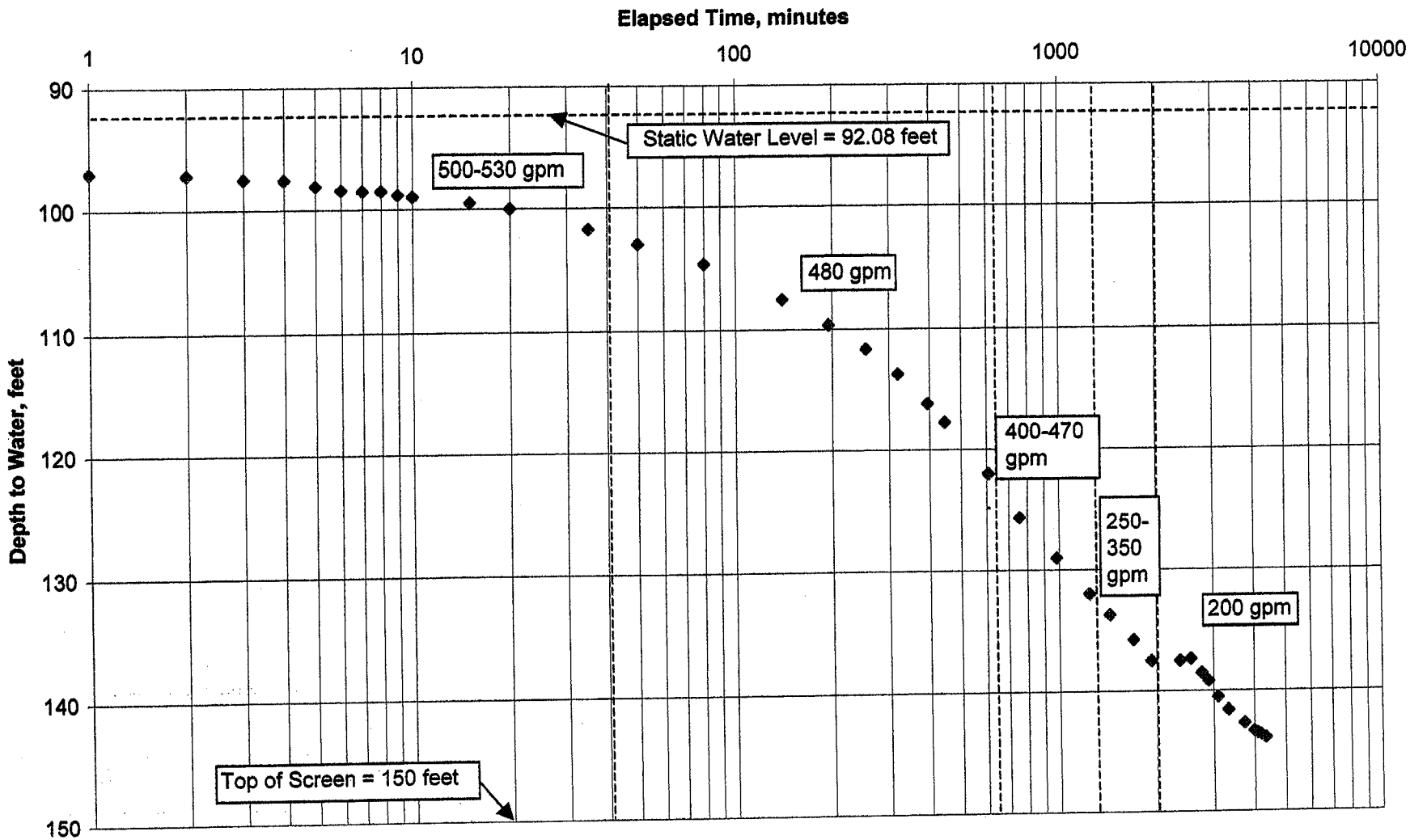
Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate
Mo./Day/Yr	hr:min	minutes	feet	feet	gallons per minute
2/1/2005	12:40	0	92.08	0	Start
	12:41	1	97.00	4.92	
	12:42	2	97.17	5.09	500
	12:43	3	97.50	5.42	
	12:44	4	97.58	5.50	
	12:45	5	98.08	6.00	
	12:46	6	98.42	6.34	
	12:47	7	98.50	6.42	
	12:48	8	98.50	6.42	
	12:49	9	98.83	6.75	
	12:50	10	99.00	6.92	
	12:55	15	99.50	7.42	530
	13:00	20	100.00	7.92	
	13:15	35	101.75	9.67	550
	13:30	50	103.00	10.92	
	14:00	80	104.67	12.59	
	15:00	140	107.60	15.52	
	15:55	195	109.67	17.59	476
	16:55	255	111.67	19.59	498
	18:00	320	113.75	21.67	479
	19:15	395	116.17	24.09	477
	20:06	446	117.75	25.67	478
	22:47	607	122.00	29.92	480
2/2/2005	1:17	757	125.67	33.59	
	5:04	984	129.00	36.92	425
	9:22	1242	132.00	39.92	
	12:41	1441	133.75	41.67	
	17:01	1701	135.75	43.67	
	20:54	1934	137.50	45.42	
2/3/2005	4:10	2370	137.50	45.42	
	7:23	2563	137.33	45.25	
	10:46	2766	138.50	46.42	
	13:00	2900	139.17	47.09	
	16:18	3098	140.50	48.42	
	20:13	3333	141.58	49.50	
2/4/2005	2:53	3733	142.67	50.59	
	7:17	3997	143.33	51.25	
	9:04	4104	143.50	51.42	
	10:44	4204	143.67	51.59	
	13:06	4346	143.92	51.84	
	STOP				

Recovery Test, Laetitia 2004-3, Feb 4-6 2004

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recovery Time Ratio
Mo./Day/Yr	hr:min	minutes	feet	feet	t/t(0)
Recovery					
2/4/2005	13:07	1	143.92	51.84	4347
	13:08	2	143.00	50.92	2174
	13:09	3	142.67	50.59	1450
	13:10	4	142.50	50.42	1088
	13:11	5	142.50	50.42	870
	13:12	6	142.33	50.25	725
	13:13	7	142.33	50.25	622
	13:14	8	142.33	50.25	544
	13:15	9	142.33	50.25	484
	13:20	14	142.17	50.09	311
	13:25	19	142.17	50.09	230
	13:30	24	142.17	50.09	182
	13:45	39	142.00	49.92	112
	14:00	54	141.83	49.75	81
	14:30	84	141.50	49.42	53
	15:00	114	141.00	48.92	39
	16:00	174	140.50	48.42	26
	17:00	234	140.00	47.92	20
	20:30	444	139.17	47.09	11
	8:00	1134	136.00	43.92	5
2/5/2005	13:29	1463	134.08	42	4
	20:30	1884	133.08	41	3
2/6/2005	10:30	2724	130.58	38.5	3
	20:30	3324	129.00	36.92	2
2/7/2005	10:00	4134	126.67	34.59	2
2/8/2005	11:00	5634	123.5	31.42	2
2/9/2005	17:00	7434	123	30.92	2
2/13/2005	11:00	12834	114.41	22.33	1

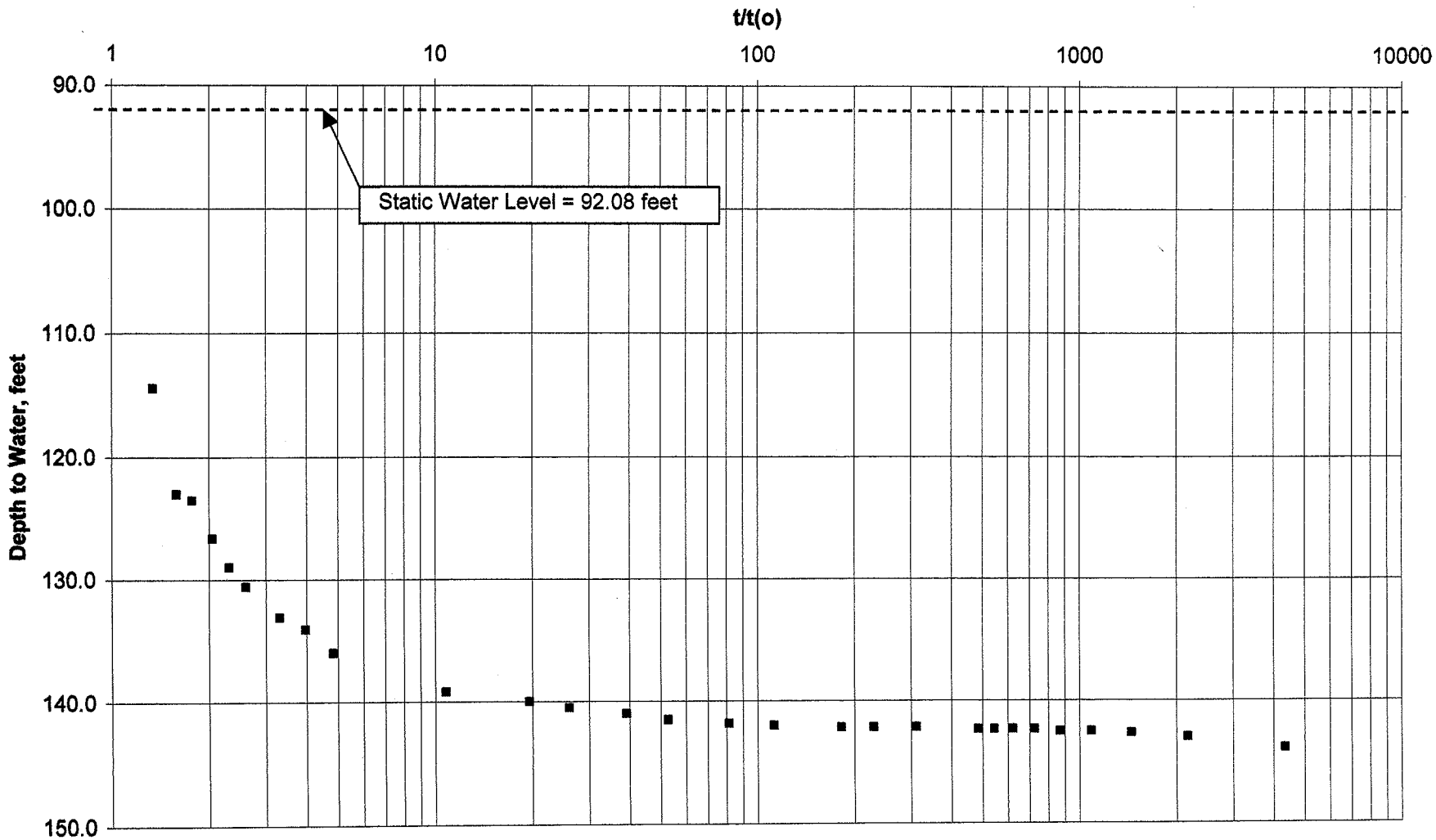
Pumping Test (72 hour) - Laetitia Well #2004-3
February 1 to February 4, 2005

Depth to Static Water Level: 92.08 feet **Ave Pumping Rate: 300 gpm**



Recovery Test - Laetitia Well 2004-3
February 4, 2005

Depth to Static Water Level: 92.08 feet **Average Pumping Rate: 300 gpm**

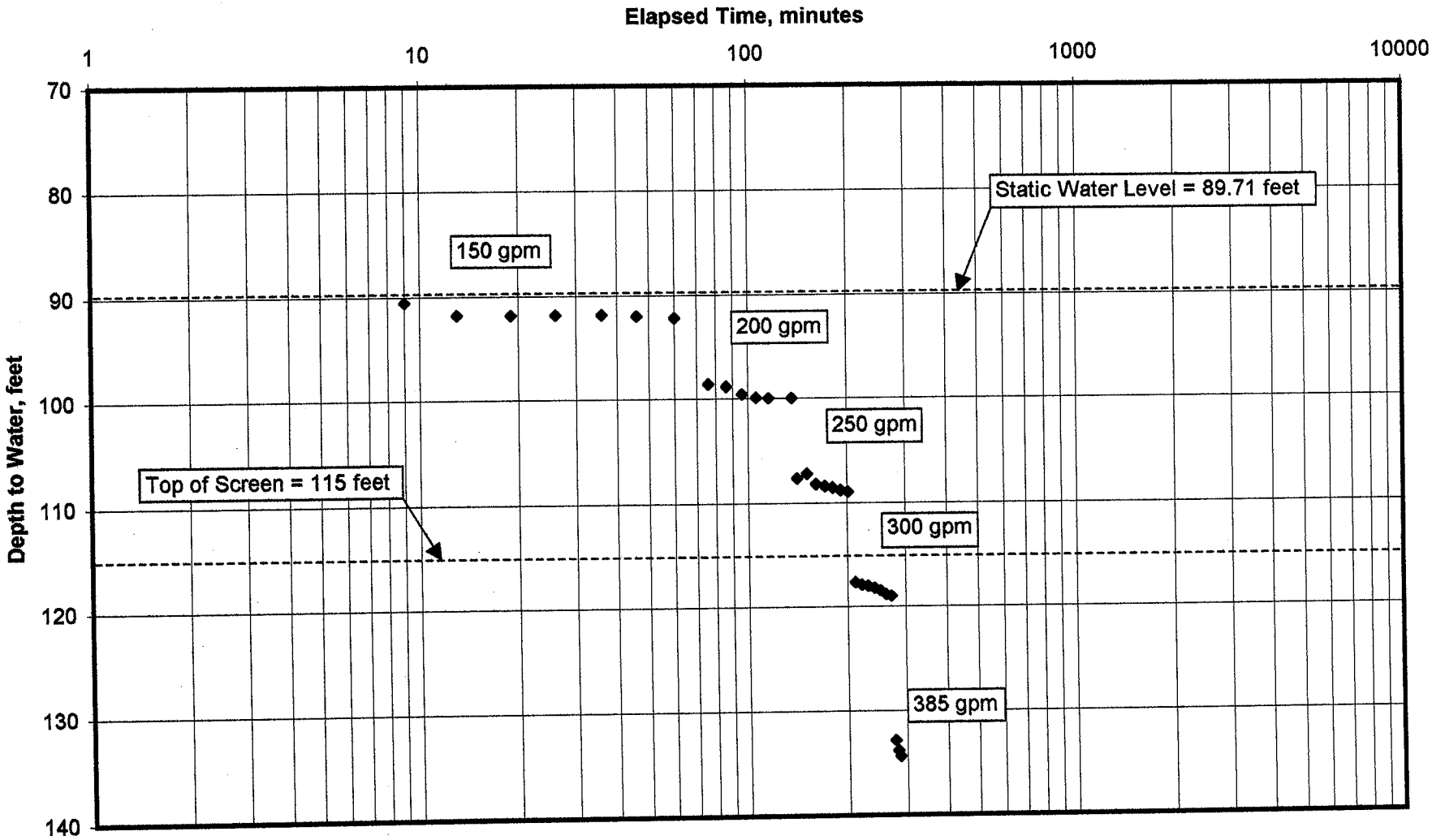


Well 2005-1

Step Test, Laetitia Well 2005-1, July 21, 2005

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate
Mo./Day/Yr	hr:min	minutes	feet	feet	gallons per minute
	11:04	0	89.71	0	Start
	11:13	9	90.50	0.79	150
	11:17	13	91.75	2.04	150
	11:23	19	91.83	2.12	150
	11:30	26	91.83	2.12	150
	11:40	36	91.83	2.12	150
	11:50	46	91.96	2.25	150
	12:04	60	92.17	2.46	150
	12:20	76	98.58	8.87	200
	12:30	86	98.83	9.12	200
	12:40	96	99.58	9.87	200
	12:50	106	99.92	10.21	200
	13:00	116	99.96	10.25	200
	13:20	136	99.96	10.25	200
	13:25	141	107.63	17.92	250
	13:35	151	107.16	17.45	250
	13:45	161	108.16	18.45	250
	13:55	171	108.33	18.62	250
	14:05	181	108.50	18.79	250
	14:15	191	108.75	19.04	250
	14:25	201	108.92	19.21	250
	14:35	211	117.58	27.87	300
	14:45	221	117.83	28.12	300
	14:55	231	117.92	28.21	300
	15:05	241	118.16	28.45	300
	15:15	251	118.41	28.70	300
	15:25	261	118.79	29.08	300
	15:35	271	118.92	29.21	300
	15:40	276	132.83	43.12	385
	15:45	281	133.83	44.12	385
	15:50	286	134.41	44.12	385
	STOP				pump off

Step Test - Laetitia Well #2005-1
July 21, 2005
Depth to Static Water Level: 89.71 feet



Pumping Test, Laetitia Well 2005-1, July 26 to 29, 2005

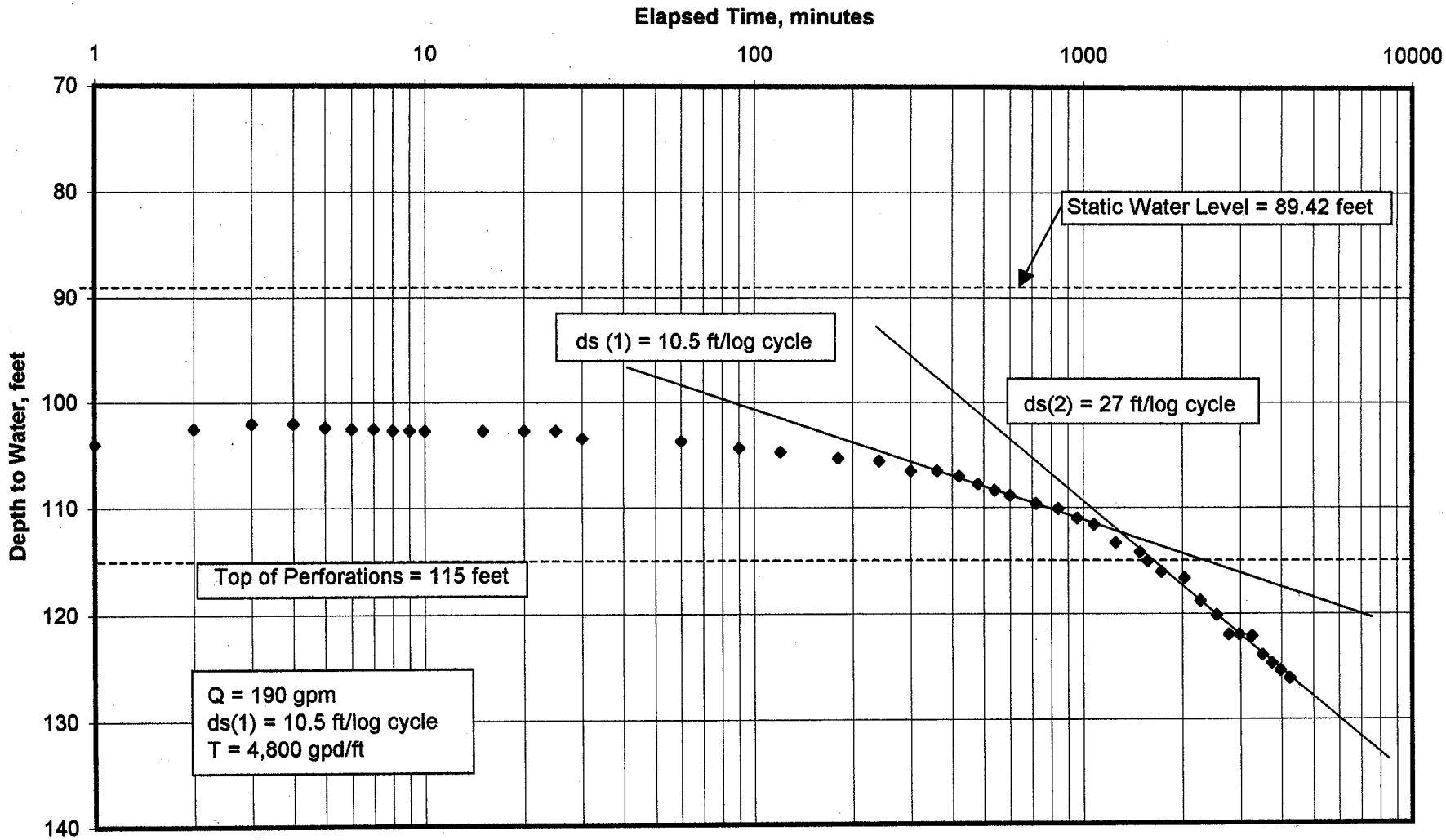
Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate
Mo./Day/Yr	hr:min	minutes	feet	feet	gallons per minute
7/26/2005	12:00	0	89.42	0	Start
	12:01	1	104.00	14.58	200
	12:02	2	102.50	13.08	
	12:03	3	102.00	12.58	
	12:04	4	102.00	12.58	
	12:05	5	102.33	12.91	240
	12:06	6	102.50	13.08	
	12:07	7	102.50	13.08	
	12:08	8	102.63	13.21	
	12:09	9	102.63	13.21	
	12:10	10	102.67	13.25	200
	12:15	15	102.71	13.29	
	12:20	20	102.67	13.25	200
	12:25	25	102.67	13.25	
	12:30	30	103.42	14.00	210
	13:00	60	103.67	14.25	180
	13:30	90	104.33	14.91	193
	14:00	120	104.71	15.29	197
	15:00	180	105.33	15.91	197
	16:00	240	105.58	16.16	197
	17:00	300	106.50	17.08	193
	18:00	360	106.50	17.08	195
	19:00	420	107.00	17.58	
	20:00	480	107.75	18.33	193
	21:00	540	108.33	18.91	193
	22:00	600	108.83	19.41	198
7/27/2005	0:00	720	109.58	20.16	191
	2:00	840	110.08	20.66	188
	4:00	960	111.00	21.58	191
	6:00	1080	111.58	22.16	188
	8:53	1253	113.25	23.83	190
	12:48	1488	114.17	24.75	
	14:12	1572	115.00	25.58	
	16:45	1725	116.00	26.58	194
	21:50	2030	116.58	27.16	187
7/28/2005	1:48	2268	118.75	29.33	
	6:25	2545	120.08	30.66	
	10:12	2772	121.92	32.50	
	13:35	2975	121.92	32.50	
	18:14	3254	122.08	32.66	
	22:21	3501	123.83	34.41	191
7/29/2005	2:21	3741	124.67	35.25	188
	6:13	3973	125.33	35.91	187
	10:38	4238	126.08	36.66	185
	11:45	4305	126.25	36.83	185
	12:00				average flow 190 gpm

Recovery Test, Laetitia Well 2005-1, July 25, 2005

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recovery Time Ratio
Mo./Day/Yr	hr:min	minutes	feet	feet	t/t(0)
Recovery					
7/29/2005	12:00	0	126.25	36.83	
	12:01	1	113.33	23.91	4306
	12:02	2	112.75	23.33	2154
	12:03	3	112.63	23.21	1436
	12:04	4	112.50	23.08	1077
	12:05	5	112.33	22.91	862
	12:10	10	112.17	22.75	432
	12:20	20	112.17	22.75	216
	12:32	32	111.50	22.08	136
	14:28	148	110.33	20.91	30
7/30/2005	9:00	1260	103.50	14.08	4
	STOP				

Pumping Test - Laetitia Well #2005-1
July 22 to 25, 2005

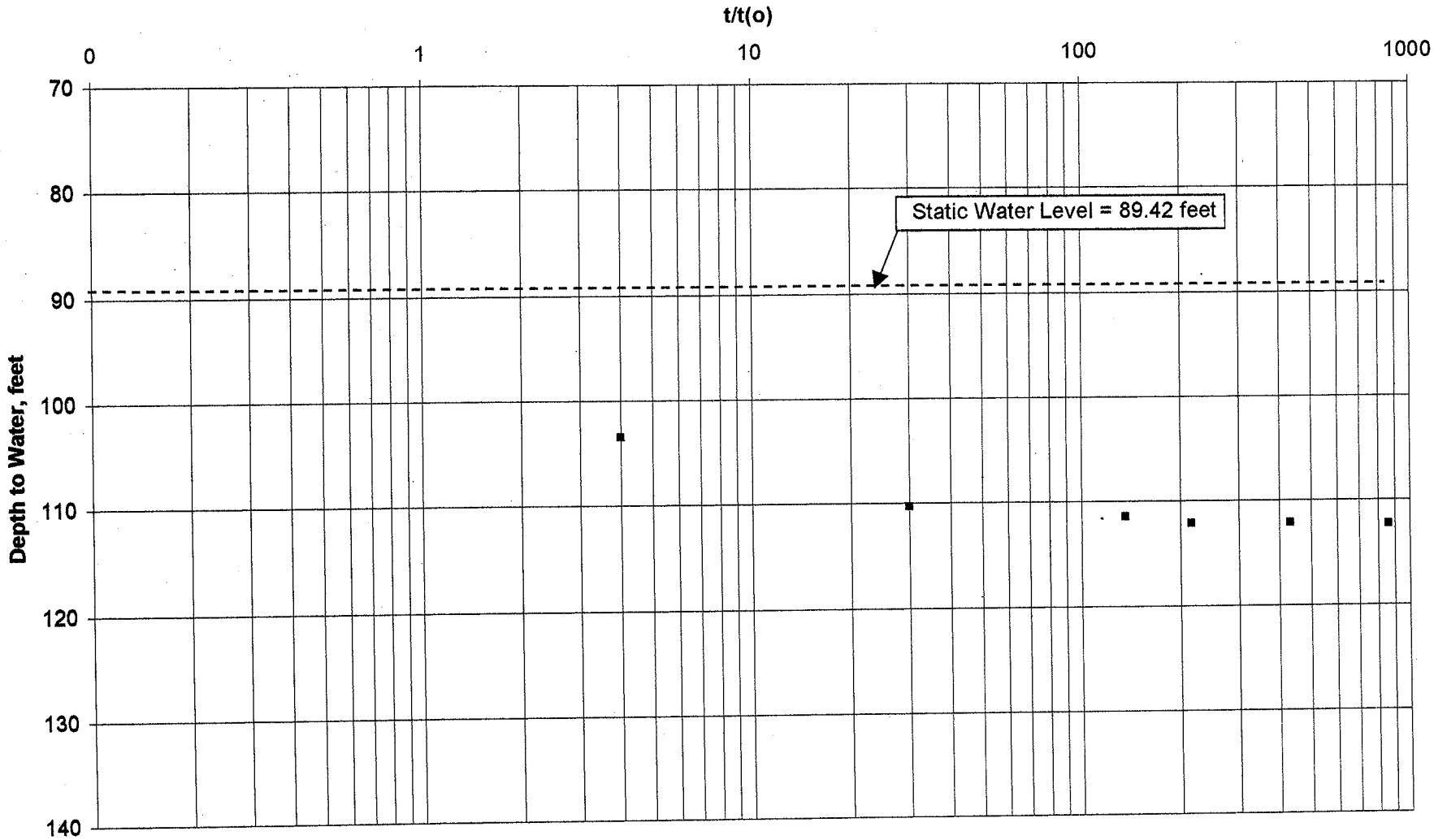
Depth to Static Water Level: 89.42 feet **Average Pumping Rate: 190 gpm**



Recovery Test - Laetitia Well 2005-1
July 25, 2005

Depth to Static Water Level: 89.42 feet

Average Pumping Rate: 200 gpm



F.V. Wells #2 (Estate Well)

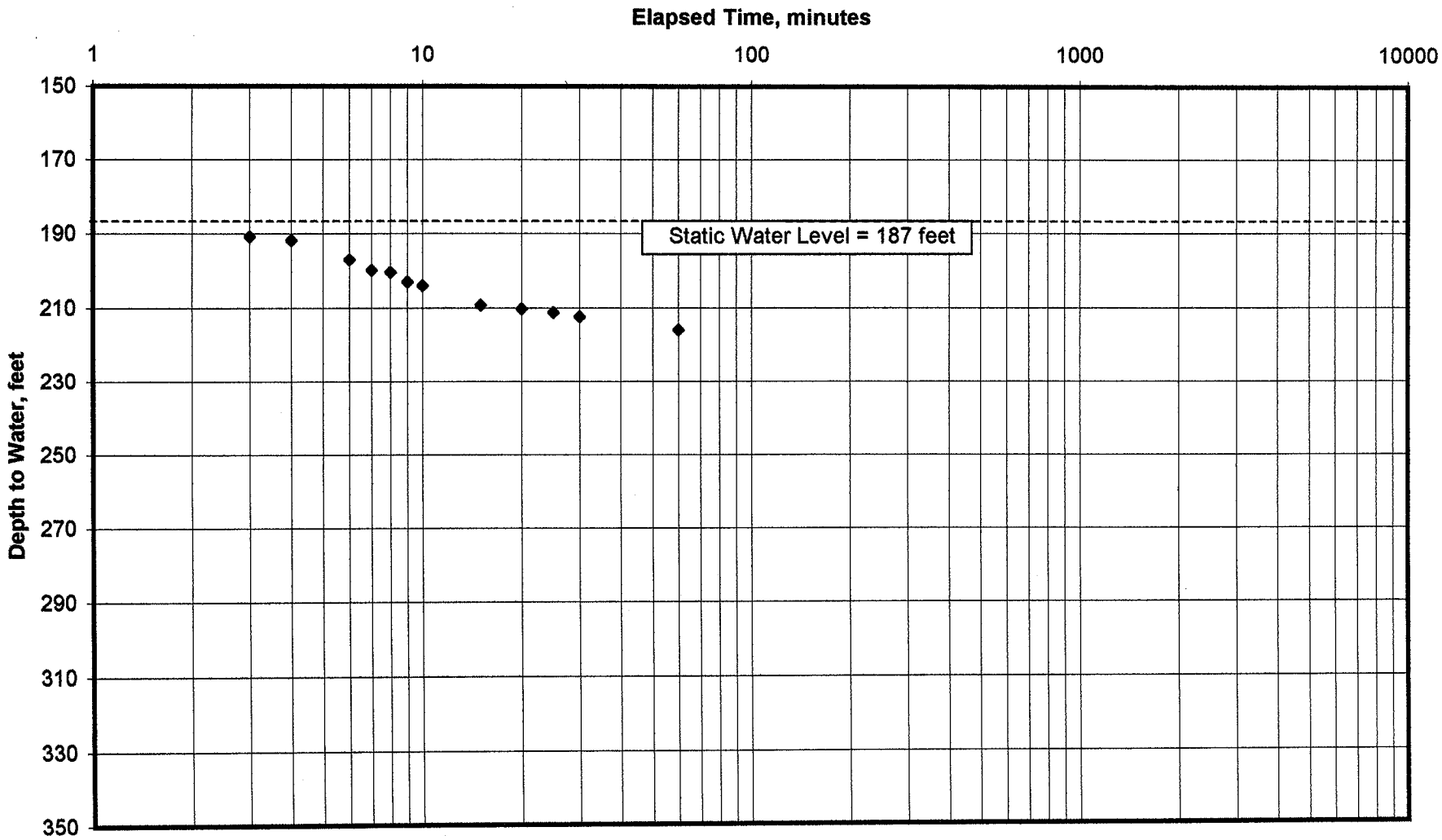
Pumping Test, F.V. Wells #2, July 27, 2005

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate	Meter
Mo./Day/Yr	hr:min	minutes	feet	feet	gallons per minute	gallons/100
7/28/2005	4:00	0	187.00	0	Start	59400
	4:03	3	190.75	3.75		
	4:04	4	191.67	4.67		
	4:06	6	197.00	10.00		
	4:07	7	199.83	12.83		
	4:08	8	200.33	13.33		
	4:09	9	203.00	16.00		
	4:10	10	204.00	17.00		
	4:15	15	209.25	22.25		
	4:20	20	210.17	23.17	45	60300
	4:25	25	211.17	24.17	60	60600
	4:30	30	212.25	25.25	40	60800
	5:00	60	215.83	28.83	53	62400
	5:42	102	218.00	31.00	57	64800
	6:00	120	218.50	31.50	55	65700
				average	53	

Pumping Test - F.V. Wells #2 (Estate Well, Laetitia)
July 27, 2005

Depth to Static Water Level: 187 feet

Average Pumping Rate: 53 gpm



Enloe #1

Pumping Test, Laetitia Well Enloe #1, July 28, 2005

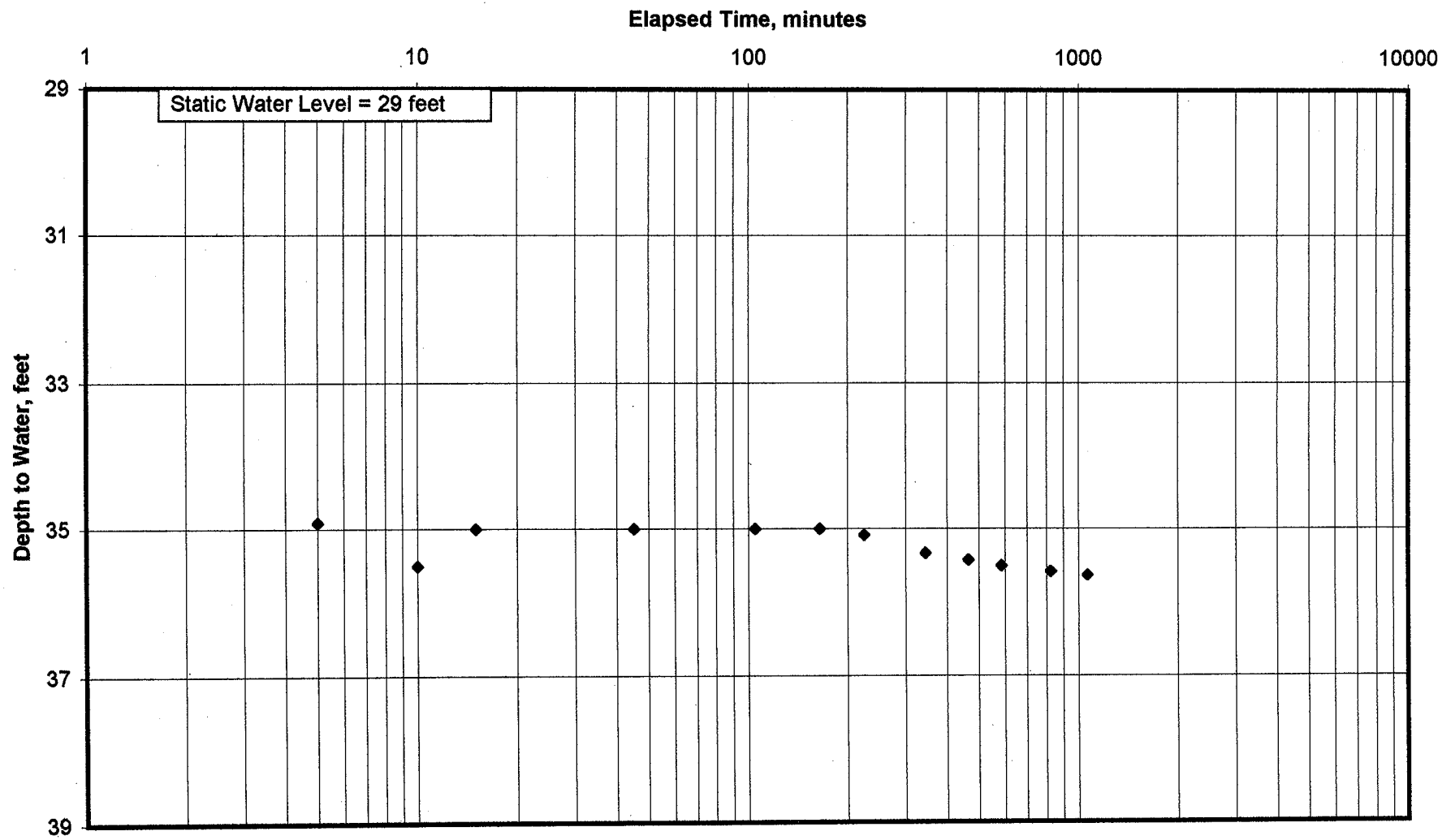
Day	Time	Elapsed Time	Depth to Water	Drawdown	Recorded Pumping Rate	Meter
Mo./Day/Yr	hr:min	minutes	feet	feet	gallons per minute	gallons/100
7/28/2005	12:15	0	29.00	0	Start	18867
	12:20	5	34.91	5.91	180	18876
	12:25	10	35.50	6.50		
	12:30	15	35.00	6.00	210	18897
	13:00	45	35.00	6.00	197	18956
	14:00	105	35.00	6.00		
	15:00	165	35.00	6.00		
	16:00	225	35.08	6.08	199	19315
	18:00	345	35.33	6.33	198	19553
	20:00	465	35.42	6.42	199	19792
	22:00	585	35.50	6.50	202	20034
	2:00	825	35.58	6.58	203	20520
	6:00	1065	35.63	6.63	195	20987
	10:17	1322	35.63	6.63	195	21489

Recovery Test, Laetitia Well Enloe #1, July 28, 2005

Day	Time	Elapsed Time	Depth to Water	Drawdown	Recovery Time Ratio
Mo./Day/Yr	hr:min	minutes	feet	feet	t/t(0)
Recovery					
7/28/2005	10:17	0	35.63	6.63	
	10:18	1	29.83	0.83	1323
	10:19	2	29.83	0.83	662
	10:20	3	29.83	0.83	442
	10:25	8	29.67	0.67	166
	10:30	13	29.67	0.67	103
	10:45	28	29.54	0.54	48
	11:35	78	29.50	0.5	18
	12:43	146	29.33	0.33	10

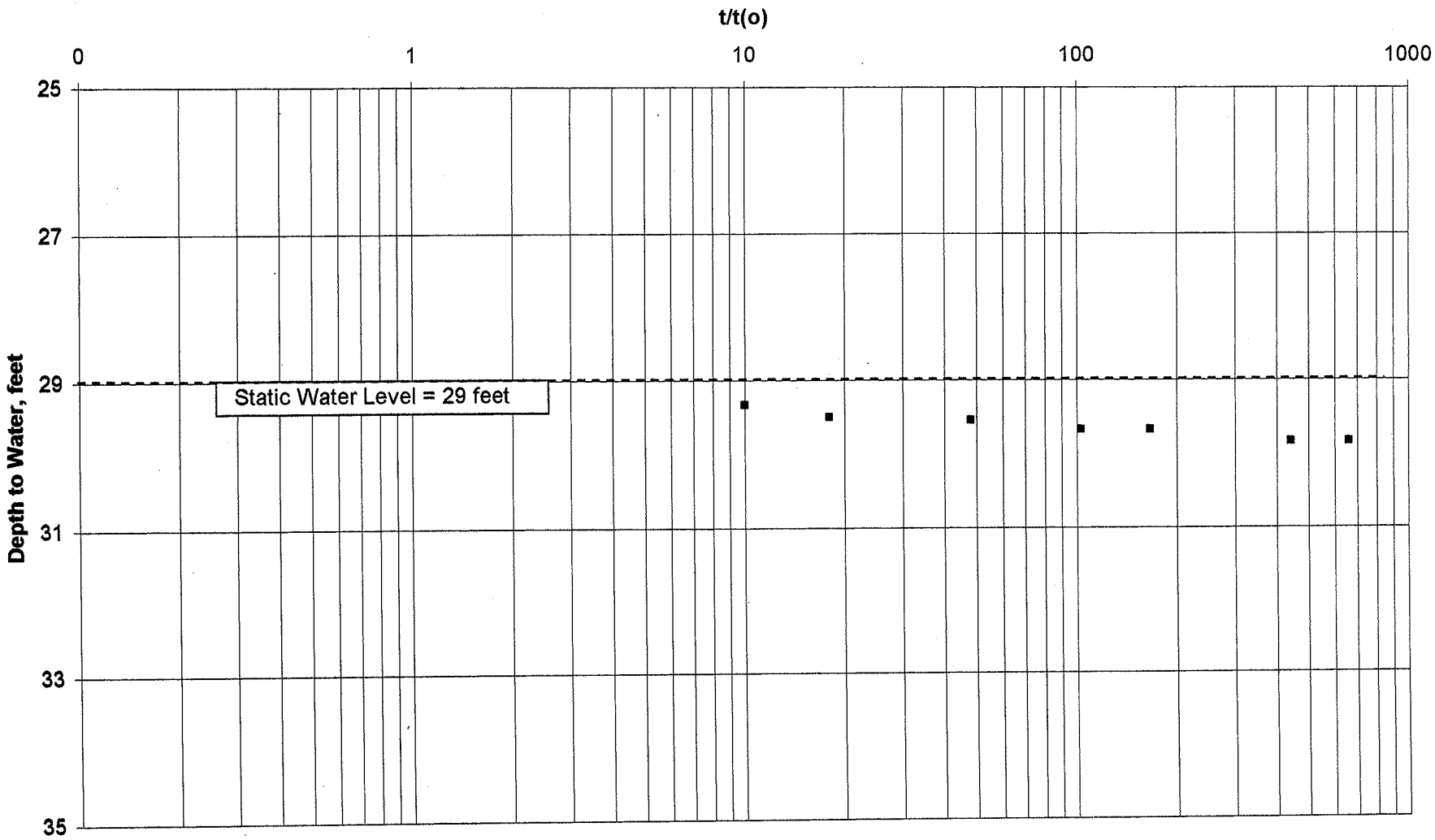
Pumping Test - Enloe #1 (Laetitia)
July 28, 2005

Depth to Static Water Level: 29 feet **Average Pumping Rate: 200 gpm**



Recovery Test - Enloe #1 (Laetitia)
July 28, 2005

Depth to Static Water Level: feet **Average Pumping Rate: 200 gpm**



Appendix D

Stream Flow and Precipitation Data

STREAM GAGING DATA FOR ARROYO GRANDE CREEK AND TRIBUTARIES

Station Name:	Arroyo Grande Creek at Arroyo Grande	Lopez Creek near Arroyo Grande	Tar Spring Creek near Arroyo Grande	Wittenberg Creek near Arroyo Grande	Los Berros Creek near Nipomo	Arroyo Grande Creek above Phoenix Creek, near Arroyo Grande
Gage No:	11141500	11141280	11141400	11141160	11141600	11141150
Elevation, feet:	98	580	180	560	312	560
Latitude (DD-MM-SS):	35-07-28	35-14-08	35-07-56	35-13-02	35-05-17	35-11-19
Longitude (DDD-MM-SS):	120-34-05	120-28-17	120-32-30	120-27-17	120-30-32	120-26-03
Record Began (Water Year):	1940	1968	1968	1968	1968	1968
Drainage Area (sq. mi.):	102	21	18	3	15	13
Water Year	Stream Discharge in Acre-Feet					
1940	9,569					
1941	65,560					
1942	21,460					
1943	45,689					
1944	15,527					
1945	12,038					
1946	5,511					
1947	3,480					
1948	1,790					
1949	2,680					
1950	4,860					
1951	3,887					
1952	36,758					
1953	9,897					
1954	7,112					
1955	4,324					
1956	17,320					
1957	3,320					
1958	46,750					
1959	5,770					
1960	4,310					
1961	1,999					
1962	19,260					
1963	5,710					
1964	2,320					
1965	5,630					
1966	5,030					
1967	36,960					
1968	3,750	3,110	170	50	20	980
1969	24,016	24,997	10,176	3,131	4,990	7,825
1970	6,565	4,616	797	326	530	1,482
1971	4,510	3,890	660	300	500	1,110
1972	3,300	1,908	131	106	90	607
1973	10,690	12,216	2,133	1,332	2,810	1,663
1974	18,020	8,910	3,210	920	1,870	1,790
1975	4,010	4,696	883	N/A	730	1,039
1976	2,940	1,810	310	N/A	270	780
1977	2,570	1,370	70	N/A	200	570
1978	23,030	15,100	7,530	N/A	3,920	4,850
1979	4,940	4,400	1,180	N/A	630	1,390
1980	22,850	12,618	N/A	N/A	1,590	3,630
1981	4,560	6,420	N/A	N/A	830	1,790
1982	10,130	8,430	N/A	N/A	790	2,360
1983	92,070	26,980	N/A	N/A	6,660	5,220
1984	10,050	6,480	N/A	N/A	1,080	1,750
1985	2,750	3,780	N/A	N/A	330	810
1986	9,110	10,030	N/A	N/A	560	4,590
1987	2,210	3,390	N/A	N/A	30	870
1988	1,950 *	2,840	N/A	N/A	0	670
1989	2,600 *	2,430	N/A	N/A	0	600
1990	2,120	1,440	N/A	N/A	0	360
1991	5,010	2,769	N/A	N/A	908	512
1992	5,130	3,559	N/A	N/A	317 *	1,317 E

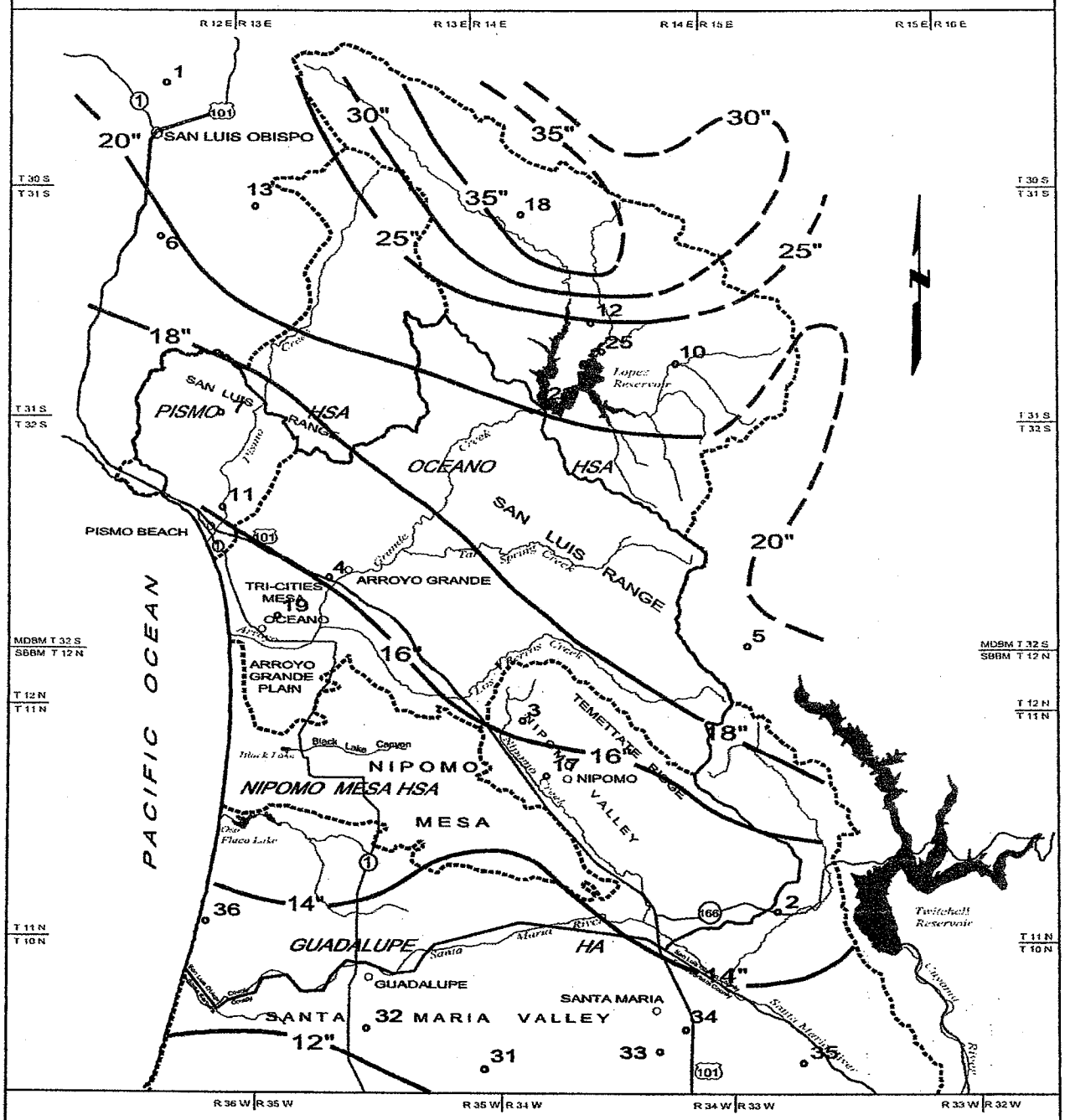
N/A: Not Available; E: Estimated; *Incomplete Record

STREAM GAGING DATA FOR ARROYO GRANDE CREEK AND TRIBUTARIES

Station Name:	Arroyo Grande Creek at Arroyo Grande	Lopez Creek near Arroyo Grande	Tar Spring Creek near Arroyo Grande	Wittenberg Creek near Arroyo Grande	Los Berros Creek near Nipomo	Arroyo Grande Creek above Phoenix Creek, near Arroyo Grande
Gage No:	11141500	11141280	11141400	11141160	11141600	11141150
Elevation, feet:	98	580	180	560	312	560
Latitude (DD-MM-SS):	35-07-28	35-14-08	35-07-56	35-13-02	35-05-17	35-11-19
Longitude (DDD-MM-SS):	120-34-05	120-28-17	120-32-30	120-27-17	120-30-32	120-26-03
Record Began (Water Year):	1940	1968	1968	1968	1968	1968
Drainage Area (sq. mi.):	102	21	18	3	15	13
Water Year	Stream Discharge in Acre-Feet					
1993	9,010	8,469	N/A	N/A	1,056	N/A
1994	2,160 *	2,598	N/A	N/A	N/A	N/A
1995	18,110 *	14,304	N/A	N/A	1,136 *	N/A
	For 1940-95 Water Years	*For 1968-95 Water Years*	*For 1968-95 Water Years*	*For 1968-95 Water Years*	*For 1968-95 Water Years*	*For 1968-95 Water Years*
Sum	683,405	203,561	27,250	6,165	29,655	48,565
N	53	28	12	7	25	25
Mean	12,894	7,270	2,271	881	1,186	1,943
Mean for 1984-95 Water Years	4,548	5,174	N/A	N/A	358	1,275
Max	92,070	26,980	10,176	3,131	6,660	7,825
Min	1,790	1,370	70	50	0	360
STD	17,310	6,506	3,117	1,014	1,693	1,857
1996	15,500 *	7,676			968	
1997	60,599 *	16,755			3,253 *	
1998	81,114 *	26,033			8,385 *	
1999	8,591 *	5,350			512 *	
2000	7,922	6,852			924 *	
	For 1940-2000 Water Years	*For 1968-2000 Water Years*			*For 1968-2000 Water Years*	
Sum	886,411	266,227			45,782	
N	61	33			33	
Mean	14,531	8,067			1,387	
Max	92,070	26,980			8,385	
Min	1,790	1,370			0	
STD	19,389	7,094			1,981	

N/A: Not Available; E: Estimated; *Incomplete Record

PLATE 8 - LINES OF EQUAL MEAN ANNUAL PRECIPITATION, 1870 THROUGH 1995



LEGEND

12"- -	Lines of equal mean annual precipitation, dashed where inferred
31	Data Point Number. For station name see Table 14
———	Study Area Boundary
- - - - -	Watershed Boundary
	HA = Hydrologic Area
	HSA = Hydrologic Subbarea

Nipomo Station 38 Precipitation in inches

Year	Annual Precipitation
1921	12.27
1922	16.45
1923	15.53
1924	6.53
1925	15.77
1926	11.6
1927	16.11
1928	17.22
1929	11.86
1930	9.49
1931	9.78
1932	18.37
1933	11.19
1934	8.06
1935	22.79
1936	16.07
1937	21.02
1938	22.23
1939	11.34
1940	17.89
1941	31.09
1942	18.86
1943	18.28
1944	13.57
1945	14.58
1946	11.35
1947	11.23
1948	11.55
1949	12.09
1950	14.16
1951	11.48
1952	23.59
1953	13.65
1954	15
1955	14
1956	18.37
1957	11.27
1958	26.77
1959	10.18
1960	16.16
1961	9.9
1962	22.6
1963	15.02
1964	11.81
1965	17.14
1966	14.18
1967	22.99
1968	11.37
1969	29.21

Year	Annual Pre
1970	11.87
1971	14.49
1972	7.06
1973	25.6
1974	22.7
1975	15.84
1976	8.73
1977	14.59
1978	31.42
1979	18.24
1980	18.78
1981	15.69
1982	20.07
1983	37.79
1984	12.52
1985	12.86
1986	18.93
1987	14.17
1988	14.73
1989	11.86
1990	8.03
1991	17.16
1992	17.23
1993	23.04
1994	13.37
1995	31.97
1996	18.57
1997	23.01
1998	39.12
1999	15.81
2000	19.91
2001	21.66
2002	10.22
2003	16.98
2004	13.35
average	16.67