N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

DECEMBER 1988 QUARTERLY REPORT
NAS MOFFETT FIELD, CALIFORNIA
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

VOLUME 7: APPENDIX J

DECEMBER 15, 1988

Prepared by:

IT Corporation
312 Directors Drive
Knoxville, Tennessee 37923

Submitted by:

Hazardous Waste Remedial Actions Program
Martin Marietta Energy Systems, Inc.
Oak Ridge, Tennessee 37931

for:

U.S. Department of Energy
Contract DE-AC05-840R21400

Submitted to:

Department of the Navy
Western Division
Naval Facilities Engineering Command
San Bruno, California 94066-0720

N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

DECEMBER 1988 QUARTERLY REPORT REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988

THIS RECORD CONTAINS MULTIPLE VOLUMES WHICH HAVE BEEN ENTERED SEPARATELY

VOLUME 1 OF 7 IS FILED AS ADMINISTRATIVE RECORD NO. **N00296.000543**

VOLUME 2 OF 7 IS FILED AS ADMINISTRATIVE RECORD NO. **N00296.000544**

VOLUME 3 OF 7 IS FILED AS ADMINISTRATIVE RECORD NO. **N00296.000545**

VOLUME 4 OF 7 IS FILED AS ADMINISTRATIVE RECORD NO. **N00296.000546**

VOLUME 5 OF 7 IS FILED AS ADMINISTRATIVE RECORD NO. **N00296.000547**

VOLUME 6 OF 7 IS FILED AS ADMINISTRATIVE RECORD NO. **N00296.000548**

N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J – GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988

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N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J

SECTION 1.0 – SITE 1 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988

GEO-HYDRO-DATA
INCORPORATED

ELECTRIC WELL LOG

COMPANY WATER DEVELOPMENT CORP.
WELL OS-4
FIELD MOFFETT FIELD
COUNTY SANTA CLARA STATE CALIFORNIA
LOCATION SITE 1
TYPE LOG Dual Gamma Neut. Work
Sec. Twp. Rge.

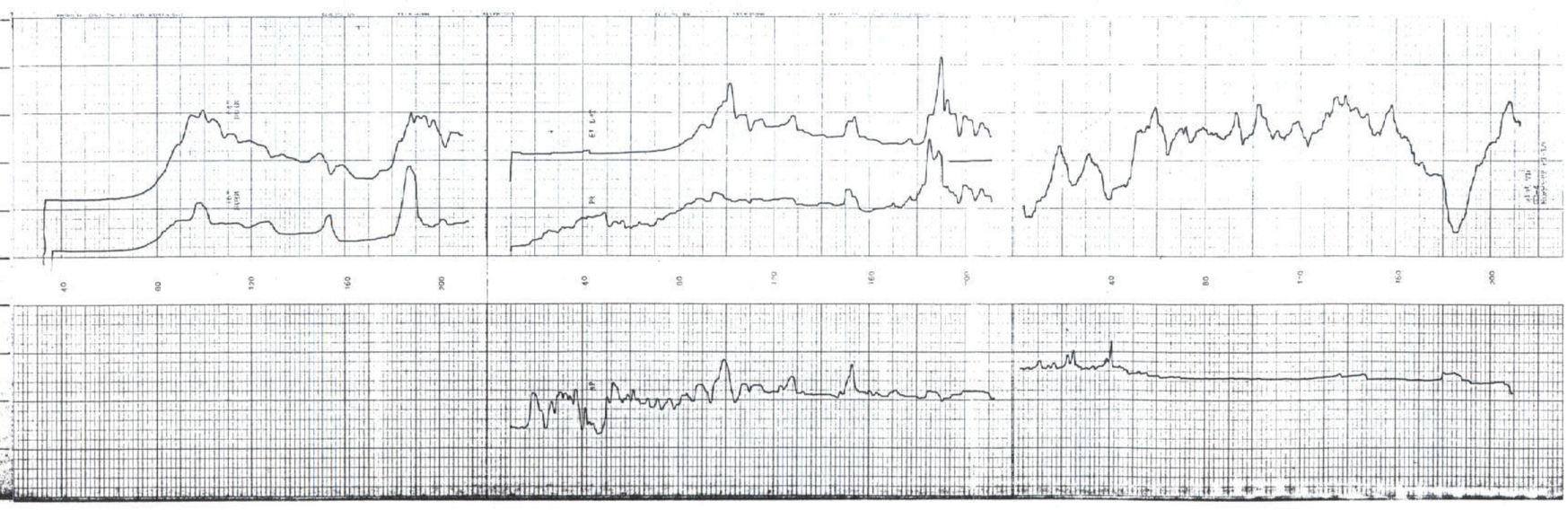
Permanent Datum	GROUND LEVEL	Elev.		Elev.: K. B.			
Log Measured From	Gale	Ft. Above Perm. Datum		D. F.			
Drilling Measured From	Gale			G. L.			
Date	5 Jun 68		two		three		
Run No.	one						
Depth — Driller	212	ft.		ft.		ft.	
Depth — GHD	212	ft.		ft.		ft.	
Btm. Log Interval	212	ft.		ft.		ft.	
Top Log Interv.	40	ft.	10	ft.	5	ft.	
Casing — Driller		in @	ft.	in @	ft.	in @	ft.
Casing — GHD			ft.		ft.		ft.
Bit Size	6	in to 212	ft.	in to	ft.	in to	ft.
Bit Size		in to	ft.	in to	ft.	in to	ft.
Bit Size		in to	ft.	in to	ft.	in to	ft.
Type Fluid in Hole	city-gel						
Source of Sample	pit						
Rm @ Meas. Temp.	1970	@	°F	@	°F	@	°F
Fluid Level	full		ft.		ft.		ft.
Dens. / Visc.							
pH / Fluid Loss	9.47		ml		ml		ml
Rm @ Meas. Temp.		@	°F	@	°F	@	°F
Rmf @ Meas. Temp.		@	°F	@	°F	@	°F
Rmc @ Meas. Temp.		@	°F	@	°F	@	°F
Time Since Circ.	1		hr.		hr.		hr.
Logging Speed	30		ft/min.		ft/min.	10	ft/min.
Tool Type and No.	harmane 5	combo 28		gamma 28			
Unit No.	5						
Location	Santa Cruz						
Invoice No.	4566						
Recorded By	Jim Set, Associate Geologist						
Witnessed By	Don Cox, Geologist (20)						
other	Mack Water Development						

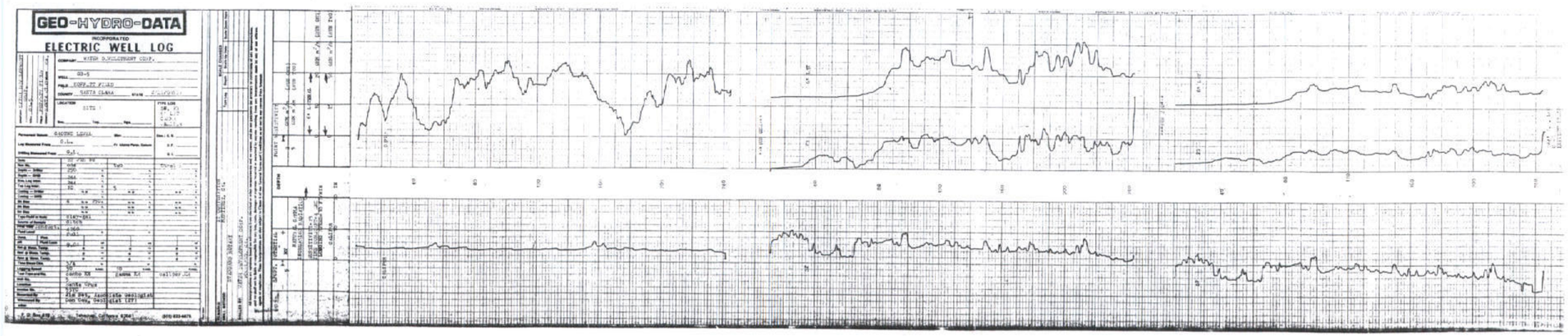
P.O. Box 428 Capitola, California 95010 (408) 475-6575

WATER DEVELOPMENT CORP.
SANTA CLARA COUNTY
WATER DISTRICT
SANTA CLARA, CALIF.

SYNDICATED MOFFETT

LOGGED BY: L. DOUD
RECORDED BY: L. DOUD
WITNESSED BY: MACK WATER DEVELOPMENT CORP.




GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG

GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY WATER DEVELOPMENT CORP.

WELL GB-6

FIELD MOFFITT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION GATE 15

Sec. Twp. Rge.

TYPE LOG SP, RN, 6' LAT NAT. GAMMA CALIPER NORMALS

Permanent Datum GROUND LEVEL Elev. Elev.: K.B.

Log Measured From G.L. 0 Ft. Above Perm. Datum D.F.

Drilling Measured From GRO'ND LEVEL G.L.

Date	14 June 88			
Run No.	one	two three		four
Depth — Driller	172 '	'		'
Depth — Grid	143 '	'		'
Btm. Log Interv.	143 '	143 143	'	143 '
Top Log Interv.	8 '	5 5	'	40 '
Casing — Driller	8 @ 8 '	@ @	'	@ '
Casing — Grid	'		'	'
Bit Size	8 7/8 TD '	TD TD	'	TD '
Bit Size	TD '	TD TD	'	TD '
Bit Size	TD '	TD TD	'	TD '
Type Fluid in Hole	gel			
Source of Sample	pitch			
Rm @ Temp.	6410			
Fluid Level	full '		'	'
Visc.	32sec			
pH Fluid Loss	8.25 cc	cc	cc	cc
Rm @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	hr.	hr.	hr.	hr.
Logging Speed	30 f./min.	10 15 f./min.	30	f./min.
Tool Types and No.	combo 21	cal 7 sonde 3	harness 7	
Unit No.	7			
Location	Shafter			
Invoice No.	5485			
Recorded By	Mike Alexander Assoc. Geologist			
Witnessed By	Don Cox GEOLOGIST			
other	Mark			

P. O. Box 418 Tehachapi, California 93581 (805) 822-6475

RESISTIVITY MEASUREMENTS: STANDARD ROTARY

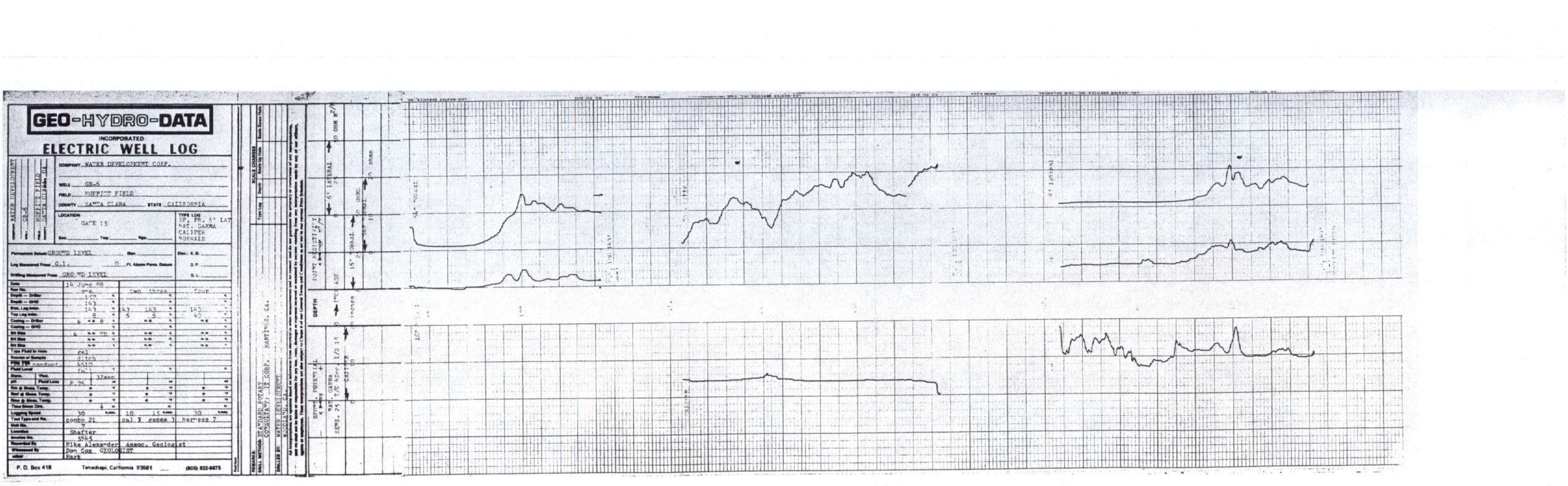
DRILL METHOD: CONSULTANT: LT CORP. MARTINEZ, CA.

DRILLED BY: WATER DEVELOPMENT

RUNNING AT: CA.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our Licensing Terms and Conditions as set out in our various Price Schedules.

SCALE CHANGES: Depth — Make Up Hole — Make Down Hole



N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J

SECTION 2.0 – SITE 2 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988

GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY WATER DEVELOPMENT CORP.

WELL CB-1

FIELD MOFFITT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION GATE 15

Sec. Twp. Rge.

TYPE LOG SP,RES,6" LAT
NAT GAMMA
CALIPER
16.4# NORMAL

Permanent Datum GROUND LEVEL Elev.

Log Measured From G.L. 0 Ft. Above Perm. Datum

Drilling Measured From GROUND LEVEL

Elev.: K.B.

D.F.

G.L.

	one	two	three	four
Date	27 Jun 66			
Run No.	one			
Depth — Driller	158.4			
Depth — Logger	158.5			
Btm. Log Inter.	158.5			
Top Log Inter.	15	35	8	5
Casing — Driller	5" @ 68'	@	@	@
Casing — Logger				
Bit Size	4 7/8			
Bit Size				
Bit Size				
Type Fluid in Hole	clay-gel			
Source of Sample	direct			
RM @ Meas. Temp.	8.71 @	cond 480 @	@	@
RMF @ Meas. Temp.	@	@	@	@
RMC @ Meas. Temp.	@	@	@	@
Time Since Circ.	1			
Logging Speed	40	40	15	
Tool Type and No.	combo 21	har 7 cal 7	gamma 3	
Unit No.	7			
Location	Shafter			
Recorded By	6650			
Witnessed By	K. Kemp Registered Geologist			
other	D. Cox			

P. O. Box 418 Tehachapi, California 93561 (805) 822-5875

REMARKS

DRILL METHOD STANDARD ROTARY

DRILLER MR. CONSOLIDATED CORE MARTINEZ, CA.

LOGGED BY WATER DEVELOPMENT
WOODLAND, CA.

SCALE CHANGES

Type Log	Depth	Scale to Inch	Scale Depth Inch

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and will not, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set forth in our current Price Schedule.

SP — POTENTIAL
5 = 1 MV
NAT GAMMA
SPNS: 25 c/s & one 1/5 15
CALIPER

DEPTH
1) INCREASE
1 inch diameter

POINT RESISTIVITY
OHM m²/m
5 10 20 50

6" LATERAL
OHM m²/m
25 20 15 10

64 normal
OHM m²/m
0 2 5 10

16 normal
OHM m²/m
0 2 5 8

OHM m²/m
20 30 50

OHM m²/m
0 10 20

GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY WATER DEVELOPMENT CORP.

WELL GB-2

FIELD MOFFETT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION

Sec. Twp. Rge.

TYPE LOG: SP, PR 61' LAT GAMMA

Permanent Datum: GROUND LEVEL Elev.: Elev.: K. B.

Log Measured From: G.L. Ft. Above Perm. Datum D. F.

Drilling Measured From: G.L. G. L.

Date	30 JUN 88	
Run No.	one	two
Depth — Driller	156 ft.	ft.
Depth — Gnd	154 ft.	ft.
Btm. Log Inter.	154 ft.	ft.
Top Log Inter.	10 ft.	5 ft.
Casing — Driller	n. o ft.	n. o ft.
Casing — Gnd	ft.	ft.
Bit Size	4 in. to 156 ft.	in. to ft.
Bit Size	in. to ft.	in. to ft.
Bit Size	in. to ft.	in. to ft.
Type Fluid in Hole	clay-gel	
Source of Sample	pit	
RM@MFT	CONDUCT 670	
Fluid Level	full ft.	ft.
Dens. / Visc.		
pH / Fluid Loss	6.32 cc	cc
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Time Since Circ.	1 hr.	hr.
Logging Speed	30 ft/min.	10 ft/min.
Tool Type and No.	combo KR	gamma KR
Unit No.	5	
Location	Santa Cruz	
Invoice No.	5703	
Recorded By	Jim Bat, Associate Geologist	
Witnessed By	Don Gom, IT Corp.	
other		

P. O. Box 418 Tehachapi, California 93561 (805) 822-6875

SCALE CHANGES — Depth — Type Log — Scale Up Hole — Scale Down Hole

REMARKS: IT CORPORATION MARTINEZ, CA.

DRILL METHOD: STANDARD ROTARY

DRILLED BY: WATER DEVELOPMENT CORP.

All interpretations, recommendations, and opinions or differences from electrical or other measurements, and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our Standard Terms and Conditions as set out in our current Price Schedule.

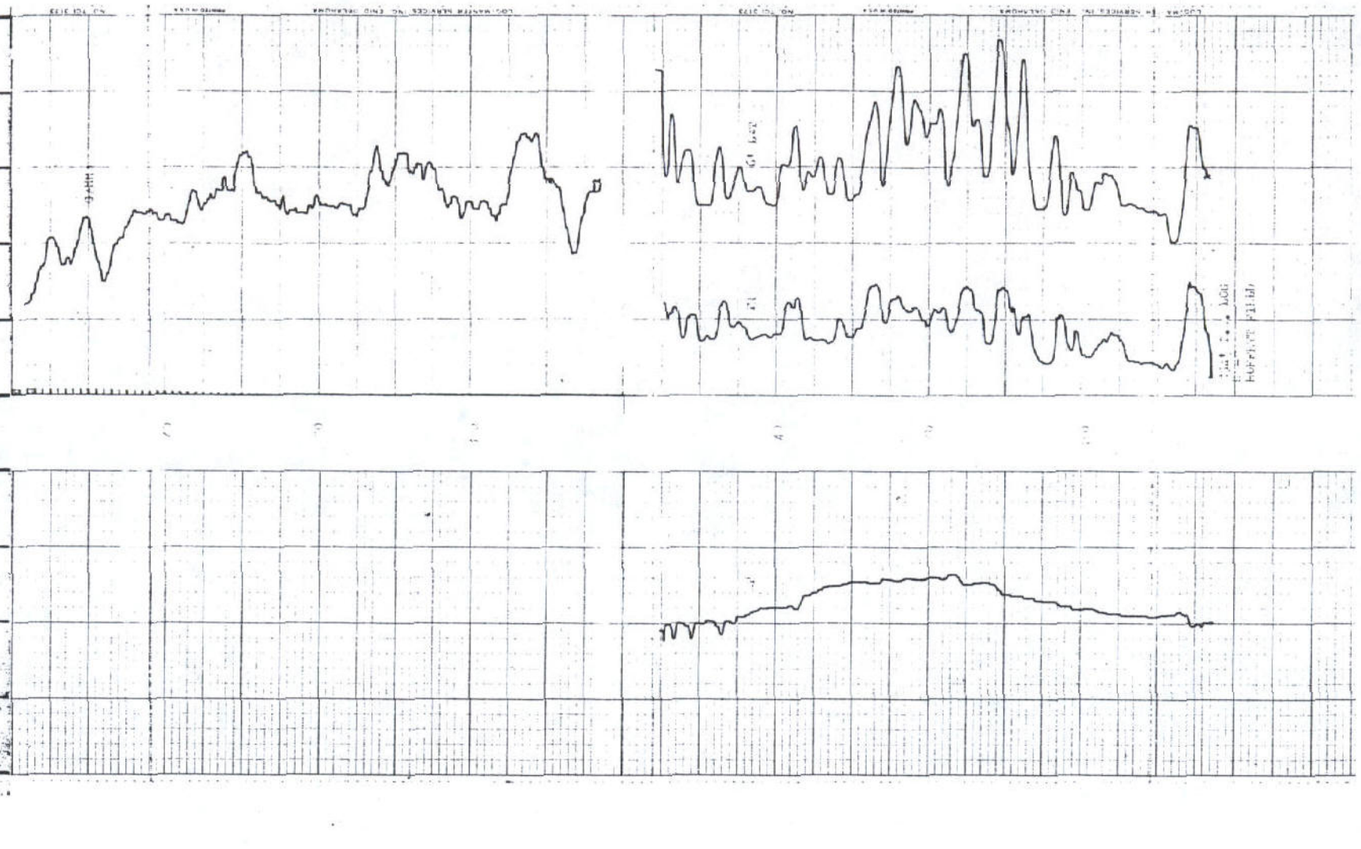
POINT RESISTIVITY — OHM m²/m — 5 — 0 — 10 — 20 — 61' LATERAL

SPONT. POTENTIAL — MV — 5 — 0 — + —

DEPTH

NATURAL GAMMA RADIATION IN API UNITS

NOTES: CALIPER LOG MISSING DUE TO CABLE FAIL. BIG RUPPLED OR REPLACED FOR RAPID LOGGING.



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY [illegible]

WELL STATE 2 Site 2

FIELD LAWSON MEAD

COUNTY SAN BERN. STATE CA

LOCATION SEC 2

TYPE LOG

Permanent Datum GROUND Elev.

Log Measured From G.L. 0 Ft. Above Perm. Datum

Drilling Measured From G.L.

Date								
Run No.								
Depth — Driller								
Depth — Gird								
Btm. Log Inter.								
Top Log Inter.								
Casing — Driller								
Casing — Gird								
Bit Size								
Bit Size								
Bit Size								
Type Fluid in Hole								
Source of Sample								
RM @ Temp								
Fluid Level								
Rm @ Meas. Temp.								
Rmf @ Meas. Temp.								
Rmc @ Meas. Temp.								
Time Since Circ.								
Logging Speed								
Tool Type and No.								
Unit No.								
Location								
Invoice No.								
Recorded By								
Witnessed By								

Recorded By: Kenny Kern Associate Geologist

Witnessed By: Ron Coxs II Co- Geologist

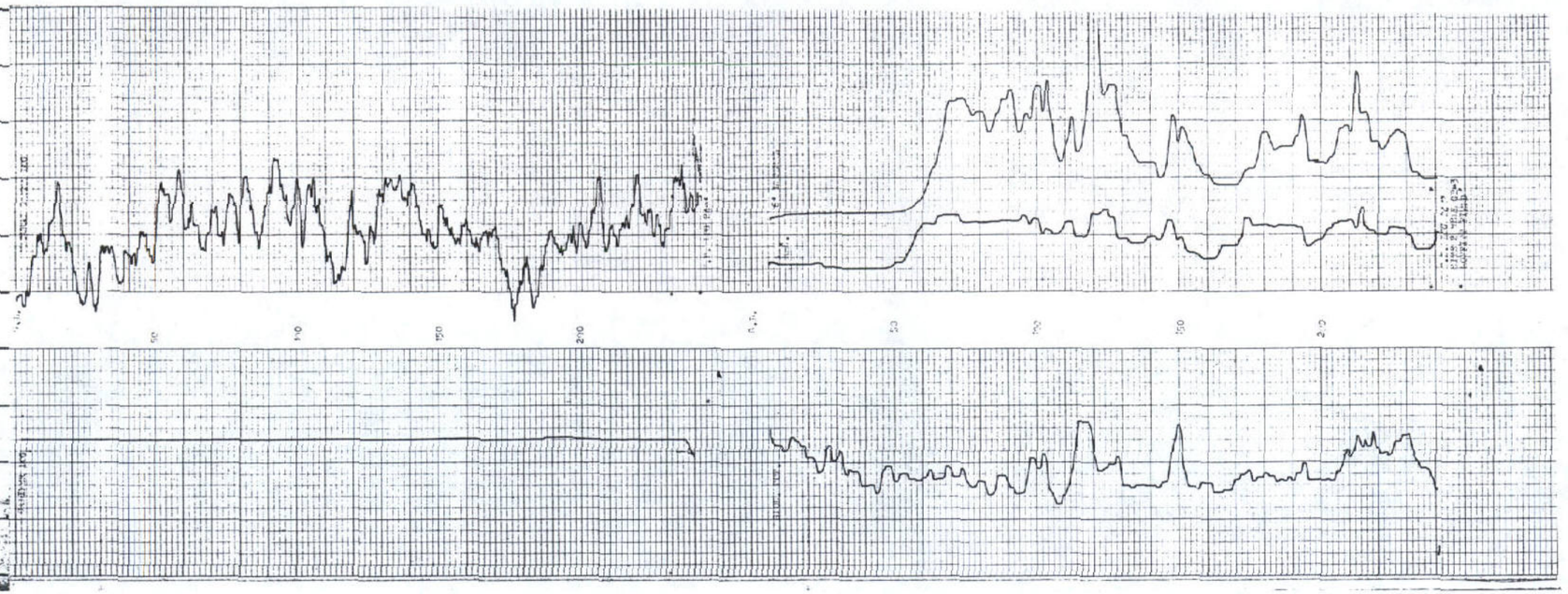
F. O. Box 458 Tehachapi, California 93561 (805) 822-6675

SCALE CHANGES

Type Log	Depth	Both Up Thru	Both Down Thru

RIGGED: DRILL METHOD: DRILLED BY:

DEPTH



N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J

SECTION 3.0 – SITE 3 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988

GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY U. S. NAVY

WELL GB-13

FIELD MOFFETT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION

Sec. Twp. Rge.

TYPE LOG
SP, PR,
6' LATERAL
CALIPER
NAT GAMMA

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	31 August 88			
Run No.	one	two		three
Depth — Driller	242			
Depth — Grid	242			
Btm. Log Inter.	242			
Top Log Inter.	10	5		5
Casing — Driller	44 no 8	no		no
Casing — Grid				
Bit Size	8 no TD	no		no
Bit Size	no	no		no
Bit Size	no	no		no
Type Fluid in Hole	mud			
Source of Sample	ditch			
Rm. Temp.	800			
Fluid Level	full			
Gravity / Visc.				
pH / Fluid Loss				
Rm @ Meas. Temp.	@	@	@	@
Rmf @ Meas. Temp.	@	@	@	@
Rmc @ Meas. Temp.	@	@	@	@
Time Since Circ.	1 hr			
Logging Speed	30 ft/min	15 ft/min		15 ft/min
Tool Type and No.	combo 21	cal 7		gamma 3
Unit No.	2			
Location	Shafter			
Invoice No.	5249			
Recorded by	Mike Alexander Assoc. Geologist			
Witnessed by	Joel Hadsall TP operator			

P. O. Box 418 Tehachapi, California 93561 (805) 822-8875

RELEASE

DRILL METHOD STA-HARD ROTARY
CONTRACTOR U.S. NAVY

DRILLED BY WATER DEVELOPMENT CORP.
WORKSHOP

SCALE CHANGES

	Depth	Scale Up to Feet	Scale Down Feet
Type Log			

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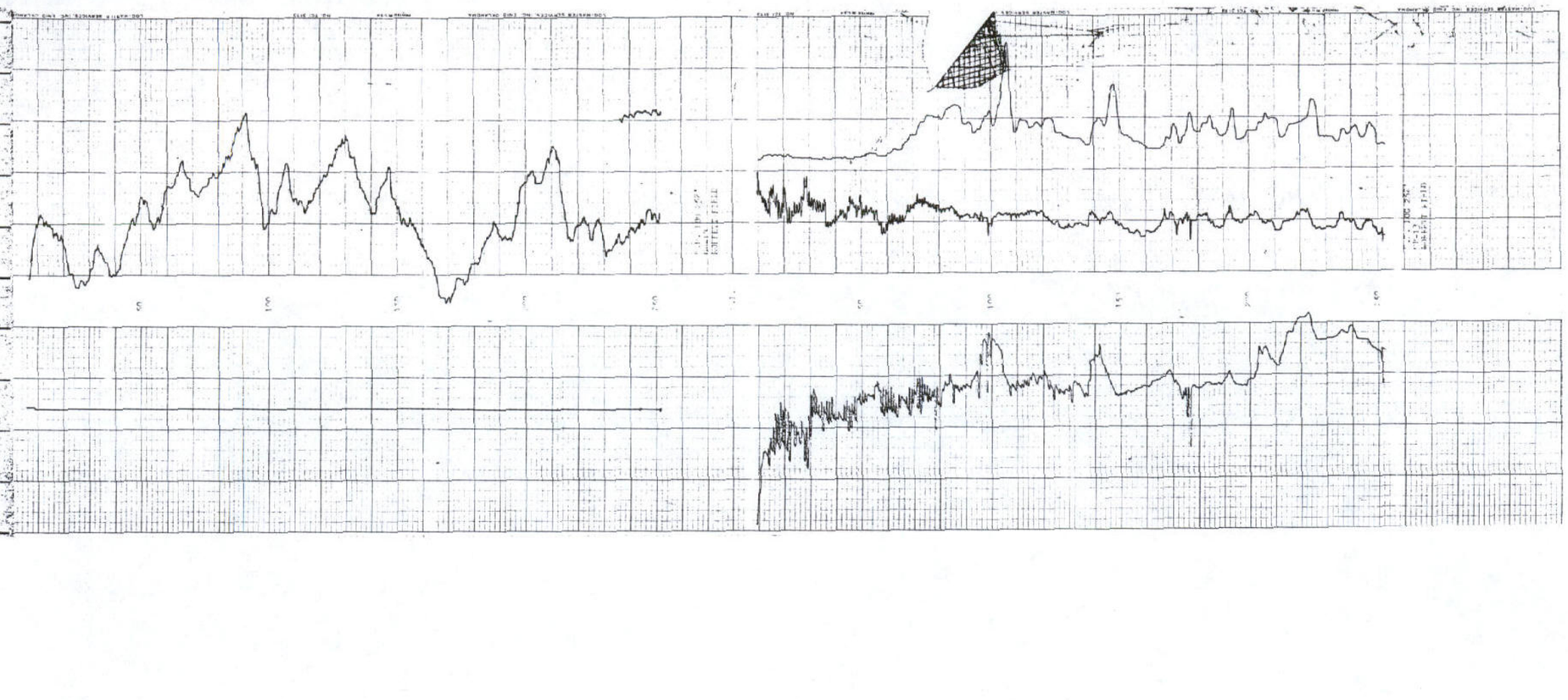
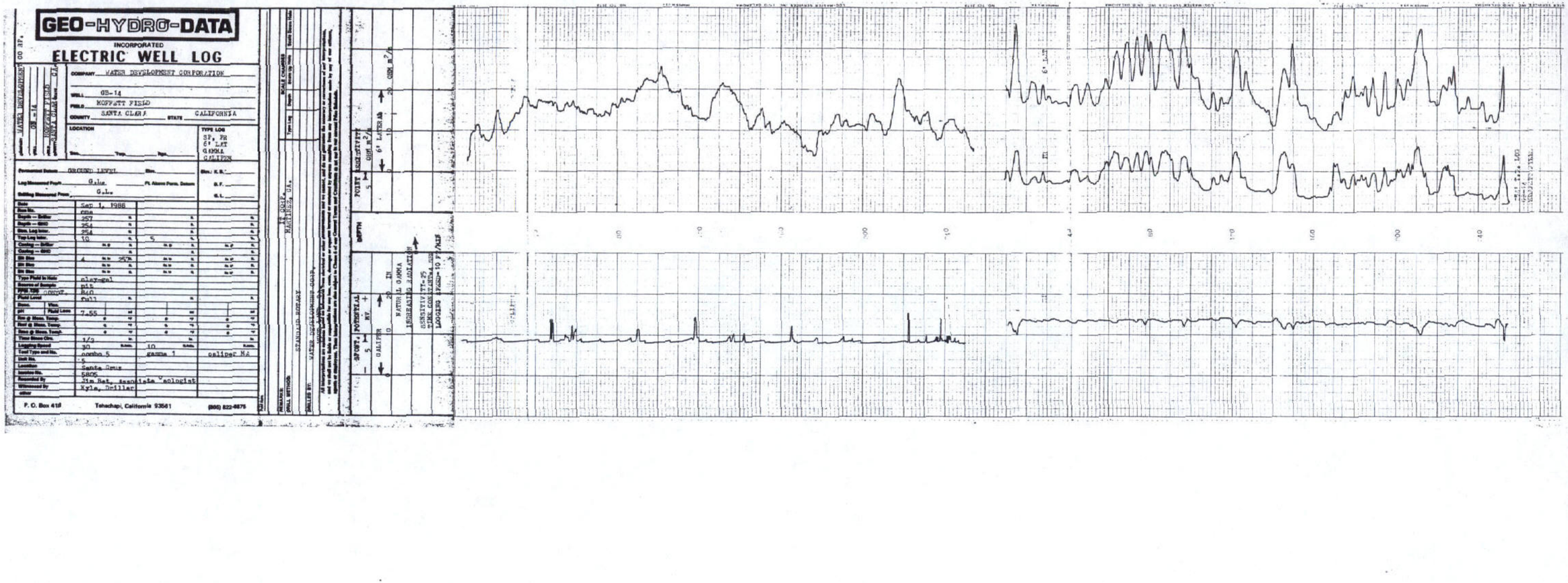
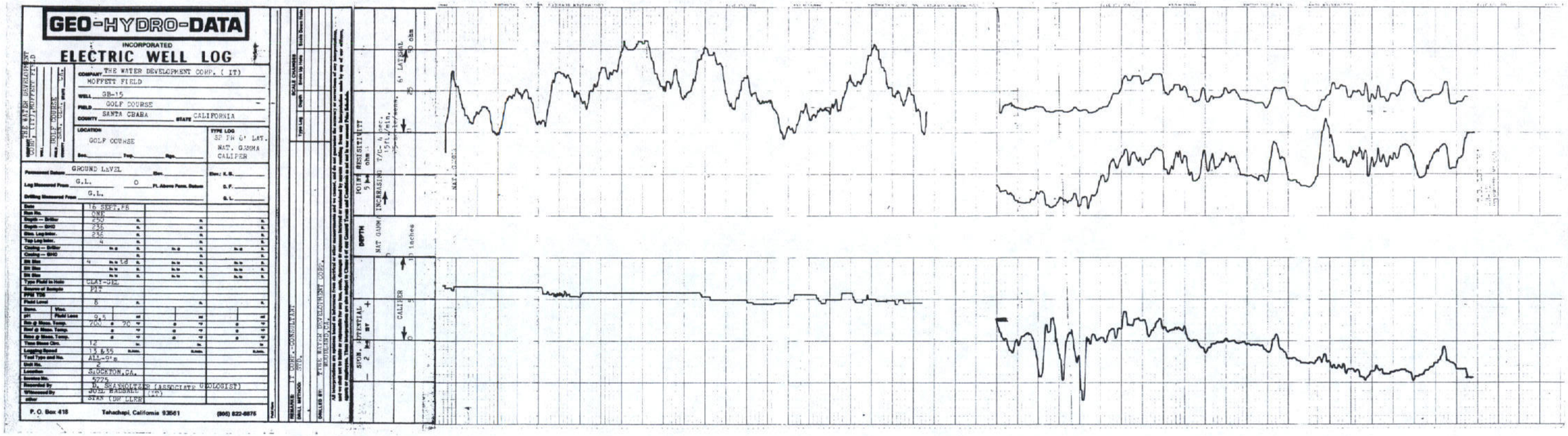



GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY WATER DEVELOPMENT CORPORTION
WELL GB-14
FIELD MOFFETT FIELD
COUNTY SANTA CLARA STATE CALIFORNIA
LOCATION
TYPE LOG
SP, FR
64" LAT
GAMMA
CALIPER
Permanent Datum GROUND LEVEL Elev.
Log Measured From G.L. Ft. Above Perm. Datum
Drilling Measured From G.L.
Elev.: K.B.
D.F.
G.L.
Sep 1, 1988
ona
257
254
254
10
5
257
clay-gal
pit
Rod
full
7.55
1/2
30
caliper 4
gamma 1
caliper #4
5
Santa Cruz
5805
Wm Rat, assoicate geologist
Kyle, Driller
P. O. Box 418 Tehachapi, California 93561 (800) 822-6875
SP MV
CALIPER IN
POINT RESISTANCE OHM M2/M
6' LATERAL OHM M2/M
DEPTH
POTENTIAL MV
NATURAL GAMMA
RESISTIVITY
SPEC. CONDUCTANCE
LOGGED FROM 10 FT/MIN



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY THE WATER DEVELOPMENT CORP. (IT)
MOFFETT FIELD
WELL GB-15
FIELD GOLF COURSE
COUNTY SANTA CRARA STATE CALIFORNIA
LOCATION GOLF COURSE
Sec. Twp. Rge.
TYPE LOG SP PM 0' LAT. NAT. GAMMA CALIPER
Permanent Datum GROUND LEVEL Elev.
Log Measured From G.L. 0 Ft. Above Perm. Datum
Drilling Measured From G.L.

Date	16 SEPT.58							
Run No.	ONE							
Depth — Driller	290		ft.			ft.		ft.
Depth — GHD	235		ft.			ft.		ft.
Btm. Log Inter.	232		ft.			ft.		ft.
Top Log Inter.	4		ft.			ft.		ft.
Casing — Driller			ft.			ft.		ft.
Casing — GHD			ft.			ft.		ft.
Bit Size	4		in. to			ft.		ft.
Bit Size			in. to			ft.		ft.
Bit Size			in. to			ft.		ft.
Type Fluid in Hole	CLAY-GEL							
Source of Sample	PIT							
RM@ Tmp								
Field Level	8		ft.			ft.		ft.
Rm. Field Level	9.5		@			@		@
pH Field Level								
Rm @ Meas. Temp.	700	@ 70	°F	@	°F	@	°F	
Rmf @ Meas. Temp.	@		°F	@	°F	@	°F	
Rmc @ Meas. Temp.	@		°F	@	°F	@	°F	
Time Since Circ.	12		hr.		hr.		hr.	
Logging Speed	13 &35		ft./min.		ft./min.		ft./min.	
Tool Type and No.	ALL-GEO							
Unit No.								
Location	STOCKTON, CA.							
Recorded By	5778							
Witnessed By	D. SCHWOLTZER (ASSOCIATE GEOLOGIST)							
other	JOEL HASBALL (VP)							
other	DAN (UP CLERK)							

P. O. Box 418 Tehachapi, California 93561 (805) 822-5875

SCALE COUNSELED — Type Log | Depth | Drillers | Scale Down Hole

RESEARCH IT CORP.-CONSULTANT
DRILL METHOD ROTO.
DRILLED BY THE WATER DEVELOPMENT CORP.

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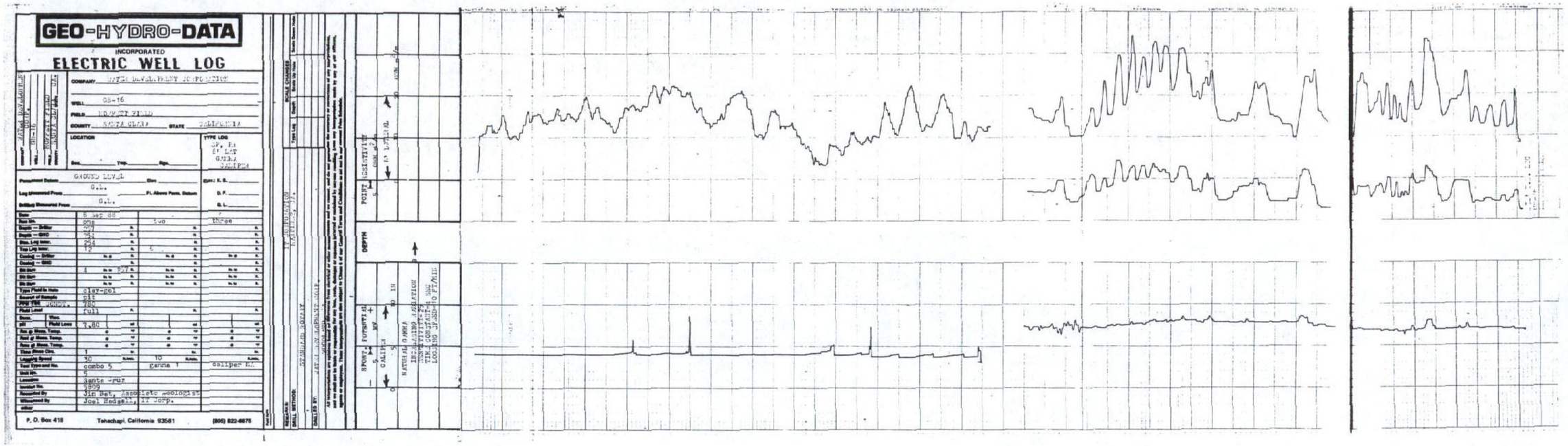
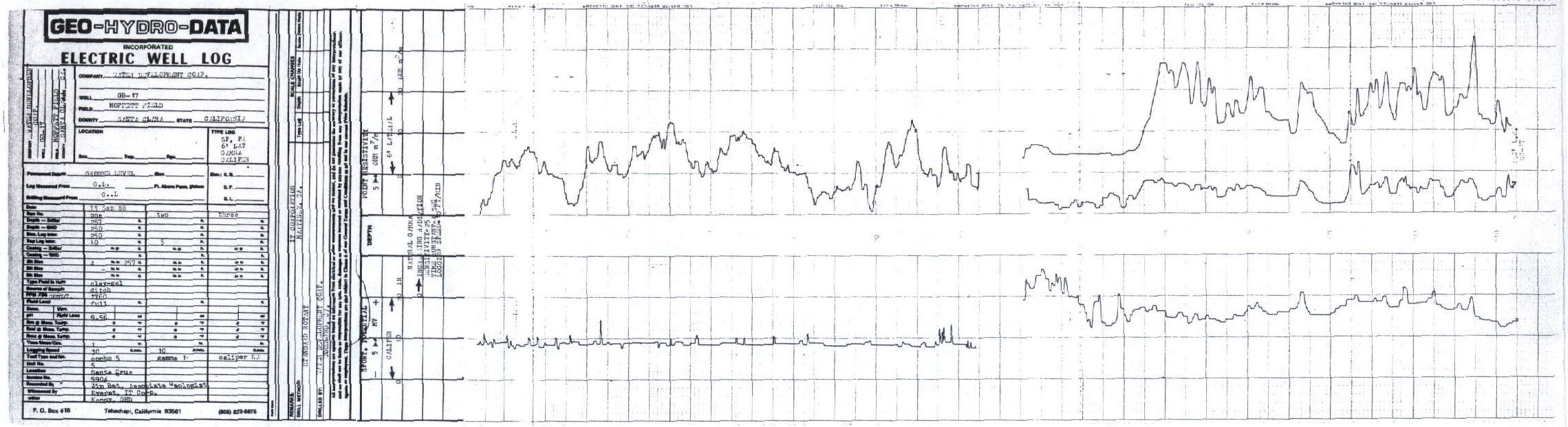
HOLE RESISTIVITY 5 ohm INCREASING T/G- 4 per. 15ft./min. 25 ohm 6' LATERAL

NAT GAMMA DEPTH 0 10 inches

SPON. POTENTIAL 2 mv + 0 − CALIPER 5


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY
WELL 08-16
FIELD EDWARDS FIELD
COUNTY SANTA CLARA STATE CALIFORNIA
LOCATION
TYPE LOG
SP, ES
ST LAT
GAMMA
CALIPER
Permanent Datum GROUND LEVEL
Log Measured From G.L.
Drilling Measured From G.L.
Run No. one two three
Depth — Driller 297 ft. ft. ft.
Depth — Logger 293 ft. ft. ft.
Btm. Log Inter. 294 ft. ft. ft.
Top Log Inter. 12 ft. ft. ft.
Casing — Driller ft. @ ft. @ ft. @
Casing — Logger ft. ft. ft.
Bit Size 8 3/4 in. 297 ft. in. ft. in. ft.
Bit Size in. ft. in. ft. in. ft.
Bit Size in. ft. in. ft. in. ft.
Type Fluid in Hole clay-gel
Source of Sample pit
PDF TEMP. 70°F 78°F
Fluid Level full ft. ft. ft.
Rm @ Meas. Temp. .80 @ °F @ °F @ °F
Rmf @ Meas. Temp. @ °F @ °F @ °F
Rmc @ Meas. Temp. @ °F @ °F @ °F
Time Since Circ. 1 hr. hr. hr.
Logging Speed 30 ft./min. 10 ft./min. ft./min.
Tool Type and No. combo 5 penna caliper #1
Unit No. 5
Location Santa Cruz
Invoice No. 5899
Recorded By Jim Bet, Associate Geologist
Witnessed By Joel Hedges, IT Corp.
other
P. O. Box 418 Tehachapi, California 93561 (805) 822-6676
SCALE CHANGES
Type Log Depth Scale Up Hrs.
DRILL METHOD:
RECORDED BY:
DEPTH
SP mV
GAMMA RAY API UNITS
CALIPER IN



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY WATER DEVELOPMENT CORP.

WELL OB-17

FIELD HOPCOTT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION

TYPE LOG
SP, FE
64" LAT
GAMMA
CALIPER

Permanent Datum GROUND LEVEL Elev.

Log Measured From G.L. Ft. Above Perm. Datum

Drilling Measured From G.L.

Date	13 Sep 88		two			three		
Run No.	one							
Depth — Driller	260	ft.		ft.			ft.	
Depth — Logger	260	ft.		ft.			ft.	
Btm. Log Interval	260	ft.		ft.			ft.	
Top Log Interval	10	ft.	5	ft.			ft.	
Casing — Driller		no ft.		no ft.			no ft.	
Casing — Logger		ft.		ft.			ft.	
Bit Size	4	in. 257 ft.		in. ft.			in. ft.	
Bit Size	-	in. ft.		in. ft.			in. ft.	
Bit Size		in. ft.		in. ft.			in. ft.	
Type Fluid in Hole	clay-gel							
Source of Sample	ditch							
RM @ Temp.	4720							
Fluid Level	full	ft.		ft.			ft.	
Density / Visc.								
pH / Fluid Loss	9.56	cc		cc			cc	
Rm @ Meas. Temp.		@ °F		@ °F			@ °F	
Rmf @ Meas. Temp.		@ °F		@ °F			@ °F	
Rmc @ Meas. Temp.		@ °F		@ °F			@ °F	
Time Since Circ.	1	hr.		hr.			hr.	
Logging Speed	30	f./min.	10	f./min.			f./min.	
Tool Type and No.	combo 5		same 1		caliper 12			
Unit No.	5							
Location	Santa Cruz							
Invoice No.	5904							
Recorded By	Jim Bat, Associate "geologist"							
Witnessed By	Everett, JT Corp.							
other	Kenny, GHD							

F. O. Box 418 Tehachapi, California 93561 (805) 823-6875

SCALE CHANGES — Scale Down Hole — Scale Up Hole — Depth — Type Log

ENGINEER IN CHARGE: JT CORPORATION, TEHACHAPI, CA.

RIG METHOD: ON-BOARD ROTARY

DRILLED BY: WATER DEVELOPMENT CORP.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set forth in our current price schedule.

DEPTH

SP — Microvolts — 5 per div. — MV

CALIPER — 10 IN.

POINT RESISTANCE — 5 per div. — OHM m²/m

64" LATERAL — 60 L/T/A/L — OHM m²/m

NATURAL GAMMA — 0 — 100 API UNITS

INDUCTION SPONTANEOUS POTENTIAL — 0 — 100 MILLIVOLTS

LATERAL LOG — 0 — 100 OHM m²/m

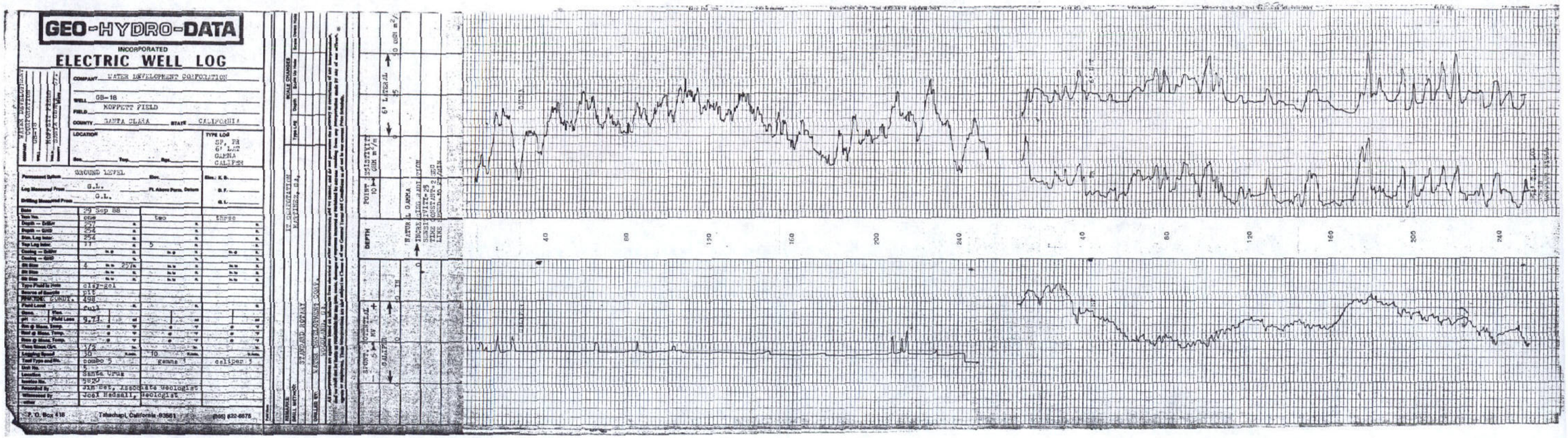
N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J

SECTION 4.0 – SITE 4 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY WATER DEVELOPMENT CORPORATION

WELL GB-18

FIELD MOFFETT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION

Sec. Twp. Rge.

TYPE LOG
SP, FE
6' LAT
GAMMA
CALIPER

Permanent Datum GROUND LEVEL Elev.

Log Measured From G.L. Ft. Above Perm. Datum

Drilling Measured From G.L.

Elev.: K. B.
D. F.
G. L.

Date	29 Sep 88			two		three		
Run No.	one							
Depth — Driller	292		ft		ft			ft
Depth — Logger	254		ft		ft			ft
Btm. Log Interval	254		ft		ft			ft
Top Log Interval	77		ft	5	ft			ft
Casing — Driller		n.o	ft	n.o	ft		n.o	ft
Casing — Logger		n.o	ft	n.o	ft		n.o	ft
Bit Size	4	n.o	7/8 in	n.o	in		n.o	in
Bit Size		n.o	in	n.o	in		n.o	in
Bit Size		n.o	in	n.o	in		n.o	in
Type Fluid in Hole	clay-gel							
Source of Sample	pit							
FLUID LEVEL (CONDT.)	198							
Fluid Level	full		ft		ft			ft
Meas. / Wtnr.								
Rm @ Meas. Temp.		@	°F	@	°F		@	°F
Rmf @ Meas. Temp.		@	°F	@	°F		@	°F
Rmc @ Meas. Temp.		@	°F	@	°F		@	°F
Rm @ BHT		@	°F	@	°F		@	°F
Time Since Circ.	1/2		hr.		hr.			hr.
Logging Speed	30		f./min.	10	f./min.			f./min.
Tool Type and No.	combo 5			gamma 5		caliper 5		
Unit No.	5							
Location	Santa Cruz							
Invoice No.	5820							
Recorded By	Jan Sas, 2560	5154 Geologist						
Witnessed By	Joel Hedgell, Geologist							

P. O. Box 418 Tehachapi, California 93581 (805) 822-6075

SCALE CHANGES

Depth	Type Log	Scale Times Hole	Scale vs Hole

RECORDED BY: J.C. CALIFORNIA

WITNESSED BY: MARTINEZ, CA.

MEAS. METHOD: STANDARD ROTARY

DRILLER TD: 4" CASING DRILLER: 254'

LOGGER TD: LOGGER: 254'

REMARKS: 4" CASING PERFORATED 77'-254'

Run One

Run Two

Run Three

Run Four

Run Five

Run Six

Run Seven

Run Eight

Run Nine

Run Ten

Run Eleven

Run Twelve

Run Thirteen

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Run Seventeen

Run Eighteen

Run Nineteen

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Run Twenty-Nine

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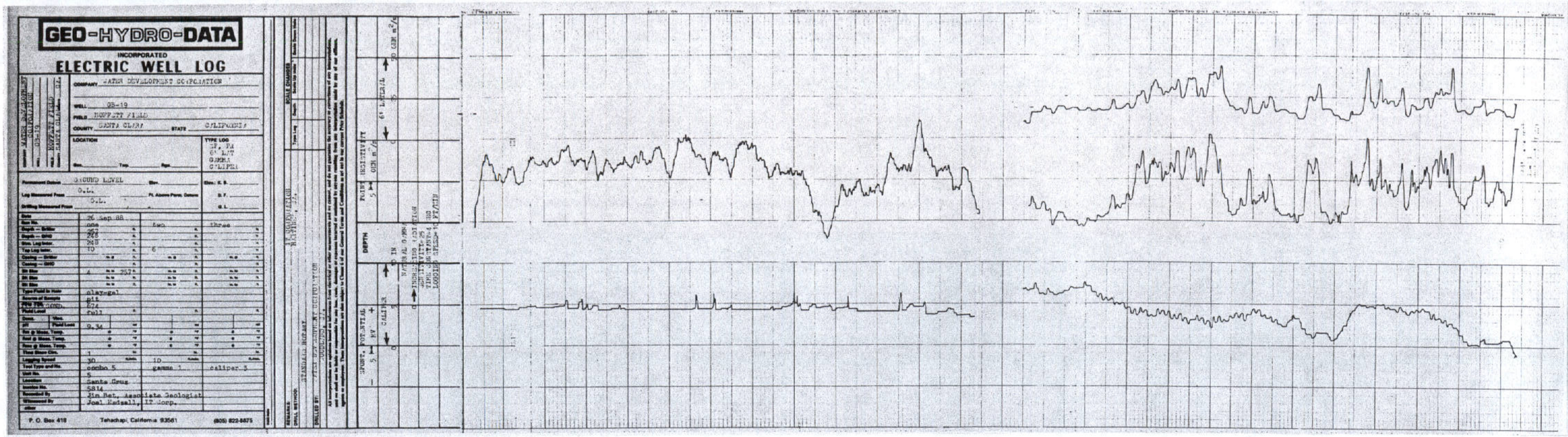
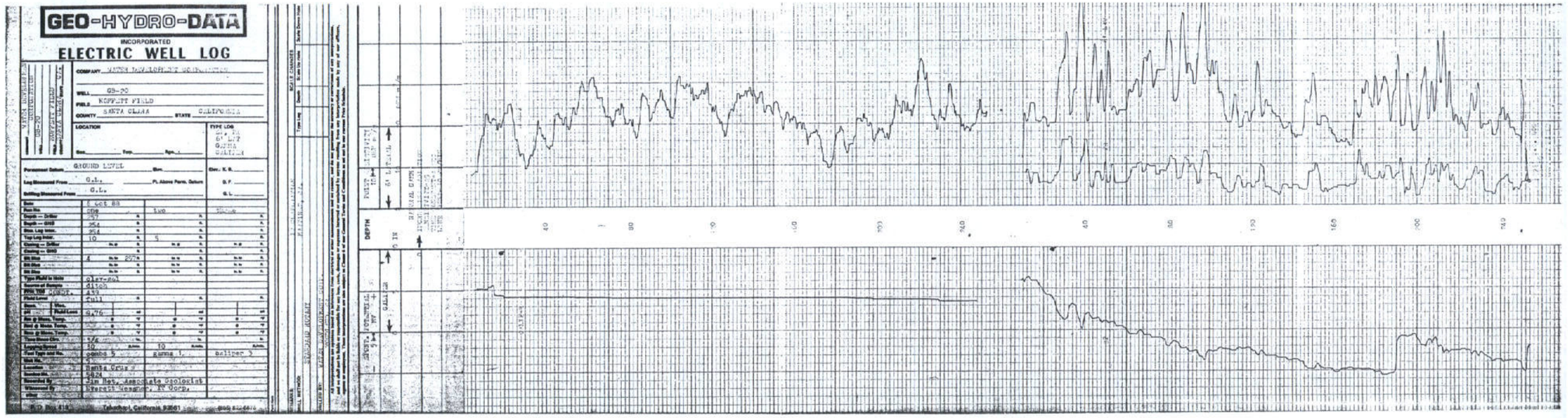
Run Nine Hundred Ninety-Nine

Run One Thousand


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY WATER DEVELOPMENT CORPORATION
WELL 2S-19
FIELD HOFFETT FIELD
COUNTY SANTA CLARA STATE CALIFORNIA
LOCATION
TYPE LOG
SP, FM
6" LAT
GAMMA
CALIPER
Permanent Datum GROUND LEVEL Elev.
Log Measured From G.L. Ft. Above Perm. Datum
Drilling Measured From G.L.
Date 26 Sep 88
Run No. one Two Three
Depth — Driller 262
Depth — Logger 258
Btm. Log Inter. 258
Top Log Inter. 70 6
Casing — Driller
Casing — Logger
Bit Size 4 7/8
Bit Size
Bit Size
Type Fluid in Hole clay-gel
Source of Sample pit
Rm @ Meas. Temp. .674 @ 70°F
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Time Since Circ. 1
Logging Speed 30 Max. 10 Max.
Tool Type and No. ocsho 5 gamma 1 caliper 3
Unit No. 5
Location Santa Cruz
Recorded By Jim Bet, Associate Geologist
Witnessed By Joel Hedsell, IT Corp.
P. O. Box 418 Tehachapi, California 93561 (805) 822-8875
DRILLER
DRILL METHOD
DRILLER BY
SCALE CHANGES
DEPTH
SP
CALIPER
FORMATION RESISTIVITY
6" LATERAL
GAMMA RAY
SHORT NORMAL
LONG NORMAL
INDUCTION
SPONT. POT.
RESIST.
DEPTH
IN
FEET
OHM M²/M
OHM M/M
MILLIVOLTS
OHMS
API UNITS
100
FEET/MIN



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY

WELL GS-20

FIELD MOFFETT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION

TYPE LOG

GROUND LEVEL

Elev.

Elev. K. B.

D. F.

G. L.

Date	5 Oct 88			
Run No.	ONE		TWO	
Depth — Driller	957	ft.		ft.
Depth — GHD	954	ft.		ft.
Btm. Log Inter.	954	ft.		ft.
Top Log Inter.	10	ft.	5	ft.
Casing — Driller	n.a.	ft.	n.a.	ft.
Casing — GHD		ft.		ft.
Bit Size	4 n.a.	2 7/8 in.	n.a.	in.
Bit Size	n.a.	in.	n.a.	in.
Bit Size	n.a.	in.	n.a.	in.
Type Fluid in Hole	clay-gel			
Source of Sample	ditch			
RM. TEMP. @ RMF.	4.49			
Fluid Level	full	ft.		ft.
Density / Visc.				
pH / Fluid Loss	8.76	cc		cc
Rm @ Meas. Temp.	@ °F		@ °F	@ °F
Rmf @ Meas. Temp.	@ °F		@ °F	@ °F
Rmc @ Meas. Temp.	@ °F		@ °F	@ °F
Time Since Circ.	5 hr.			
Logging Speed	30 ft./min.		10 ft./min.	ft./min.
Tool Type and No.	geoma 5		Ramm 1	caliper 3
Unit No.	4			
Location	Santa Cruz			
Recorded By	5824			
Witnessed By	Jim Hat, Associate Geologist			
other	Everett Newport, Jr Geop.			

P.O. Box 414 Telephone California 93561

DEPTH

SP

CALIPER

RESISTIVITY

GAMMA RAY

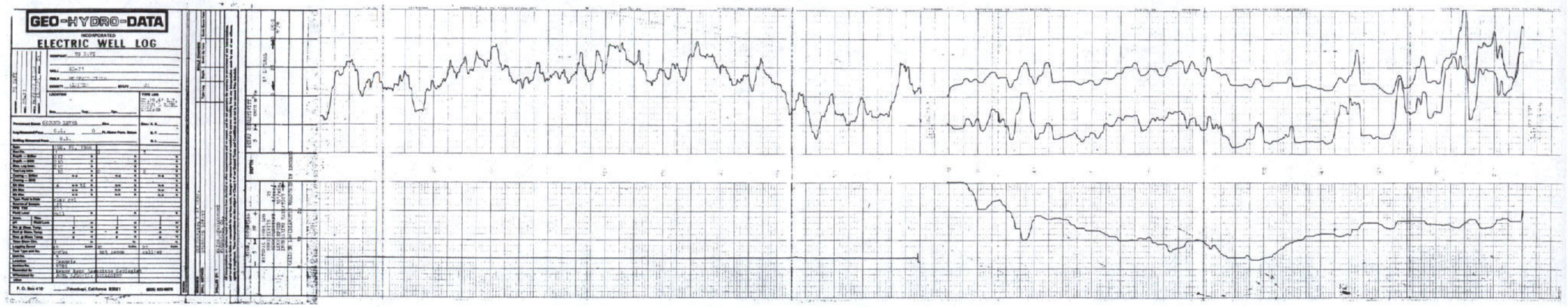
N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

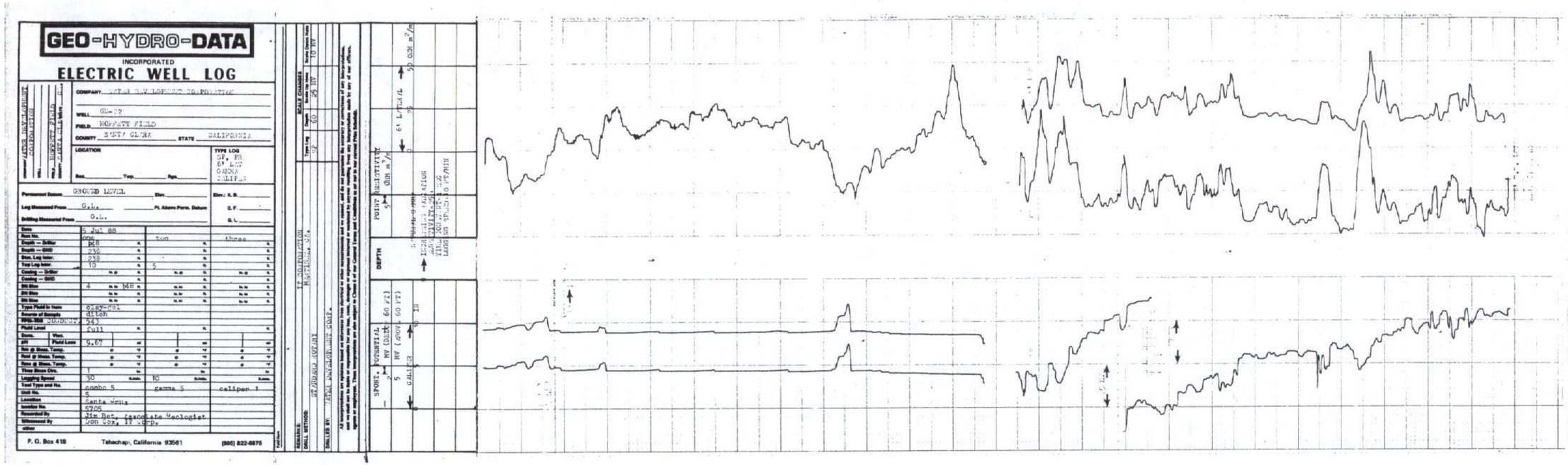
APPENDIX J

SECTION 5.0 – SITE 5 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY: [illegible] OIL PRODUCING CO. FOR [illegible]

WELL: GH-32

FIELD: HOPSETT FIELD

COUNTY: SANTA CLARA STATE: CALIFORNIA

LOCATION

Sec. Twp. Rge.

TYPE LOG: SP, FR, 64" LAT, GAMMA, CALIPER

Permanent Datum	GROUND LEVEL	Elev.		Elev.: K.B.
Log Measured From	G.L.	Ft. Above Perm. Datum		D.F.
Drilling Measured From	G.L.			G.L.
Date	5 Jul 88			
Run No.	one	two		three
Depth — Driller	248			
Depth — SWS	238			
Btm. Log Inter.	238			
Top Log Inter.	10	5		
Casing — Driller	n.o	n.o		n.o
Casing — SWS				
Bit Size	4 n.o 3/4	n.o		n.o
Bit Size	n.o	n.o		n.o
Bit Size	n.o	n.o		n.o
Type Fluid in Hole	clay-fol			
Source of Sample	ditch			
Rm @ Meas. Temp.	543			
Fluid Level	full			
Conc. / Viscos.				
pH / Fluid Loss	9.67			
Rm @ Meas. Temp.	@ °F	@ °F		@ °F
Rmf @ Meas. Temp.	@ °F	@ °F		@ °F
Rmc @ Meas. Temp.	@ °F	@ °F		@ °F
Time Since Circ.	1 h.	h.		h.
Logging Speed	30 ft/min.	30 ft/min.		ft/min.
Tool Type and No.	combo 5	gamma 5		caliper 1
Unit No.	5			
Location	Santa Cruz			
Recorded By	C706			
Witnessed By	Jim Bat, Associate Geologist			
other	Don Cox, II corp.			

P. O. Box 418 Tehachapi, California 93561 (805) 822-6875

RESISTIVITY: 16 NORMAL LOG(S) Made/Run: one

DRILL METHOD: STANDARD ROTARY

DRILLER BY: [illegible] DRILLING CORP.

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole
SP	160	25 MV	10 MV

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our Current Terms and Conditions as set out in our current Price Schedule.

SPONT. POTENTIAL MV (SEE 60 FT) 5 — 0 — 25

CALIPER 5 — 0 — 25

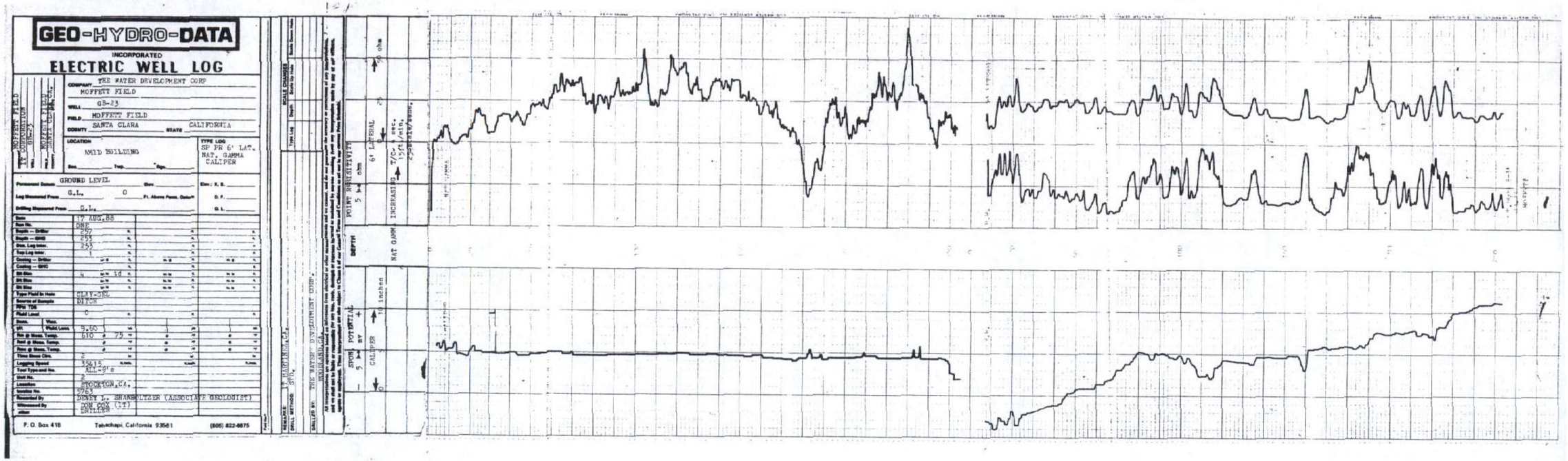
DEPTH

POINT RESISTIVITY OHM m²/m 5 — 0 — 50

64" LATERAL OHM m²/m 25 — 0 — 50

HOLE DIAMETER FROM CALIPER LOG 7" HOLE 200 FT/MIN

LOGS RUN UP HOLE AT 30 FT/MIN



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY: THE WATER DEVELOPMENT CORP

WELL: MOFFETT FIELD GB-23

FIELD: MOFFETT FIELD

COUNTY: SANTA CLARA STATE: CALIFORNIA

LOCATION: AMID BUILDING

TYPE LOG: SP FR 6' LAT. NAT. GAMMA CALIPER

Permanent Datum: GROUND LEVEL Elev.:

Log Measured From: G.L. 0 Ft. Above Perm. Datum

Drilling Measured From: G.L.

Date	17 AUG.88					
Run No.	ONE					
Depth — Driller	257					
Depth — Logger	253					
Btm. Log Interval	253					
Top Log Interval	1					
Casing — Driller						
Casing — Logger						
Bit Size	4 7/8 to 10					
Bit Size						
Bit Size						
Type Fluid in Hole	CLAY-GEL					
Source of Sample	DRYER					
RMF TOS						
Fluid Level	0					
Density / Visc.						
pH / Fluid Loss	9.50					
Rm @ Meas. Temp.	610 @ 75 °F	@ °F	@ °F	@ °F	@ °F	
Rmf @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F	@ °F	
Rmc @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F	@ °F	
Time Since Circ.	2					
Logging Speed	3815 ft/hr	ft/hr	ft/hr	ft/hr	ft/hr	
Tool Type and No.	ALL-9'8					
Unit No.	2					
Location	STOCKTON, CA.					
Recorded By	9765 DONEY L. SHANHOLTZER (ASSOCIATE GEOLOGIST)					
Witnessed By	DON COX (IT) DRILLER					

P. O. Box 418 Tehachapi, California 93561 (805) 822-8875

SCALE CHANGES: Type Log | Depth | Scale Down Hole | Scale Up Hole

RECORDED BY: J.M. HUMPHREYS, C.E.

DRILL METHOD: STD.

DRILLED BY: THE WATER DEVELOPMENT CORP. MOUNTAIN VIEW, CA.

All interpretations, opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable for any loss or expense incurred as a consequence of any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 3 of our Current Terms and Conditions as set out in our current Price Schedule.

POINT RESISTIVITY 5 3/4 ohm — 6' LATERAL — 20 ohm — INCREASING — 2"/5" RES. — 25"/16" RESIS.

DEPTH

NAT GAMMA 5 3/4 SPONT. POTENTIAL + 0 − — CALIPER — 10 inches

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 6

N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J

SECTION 7.0 – SITE 7 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988

GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY WATER DEVELOPMENT CORPORATION

WELL GB-24

FIELD MOFFETT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION

Sec. Twp. Rge.

TYPE LOG
SP, 16"
64' LAT
GAMMA
CALIPER

Permanent Datum	GROUND LEVEL	Elev.		Elev.: K. B.
Log Measured From	G.L.	Ft. Above Perm. Datum		D. F.
Drilling Measured From	G.L.			G. L.
Date	4 Oct 65			
Run No.	one	two		three
Depth — Driller	257			
Depth — Logger	254			
Btm. Log Interval	254			
Top Log Interval	10	6		
Casing — Driller				
Casing — Logger				
Bit Size	6 to 257			
Bit Size				
Bit Size				
Type Fluid in Hole	Clay-Gel			
Source of Sample	Ditch			
Rm @ Meas. Temp.	725			
Field Level	Full			
Zero				
pH — Fluid Loss	7.31			
Rmf @ Meas. Temp.				
Rmc @ Meas. Temp.				
Rm @ Meas. Temp.				
Time Since Circ.	3/2			
Logging Speed	30	10		
Tool Type and No.	combo 5	gamma 1		caliper 5
Unit No.	5			
Location	Santa Cruz			
Invoice No.	5822			
Recorded By	Jim Bay, Associate Geologist			
Witnessed By	Everett Kesmodel, Jr. Corp.			

SCALE CHANGES — Type Log | Depth | Below Open Hole

RIG NO. — API SERIAL NO. — SEC. — TWP. — RGE. — API COUNTY CODE — API STATE CODE

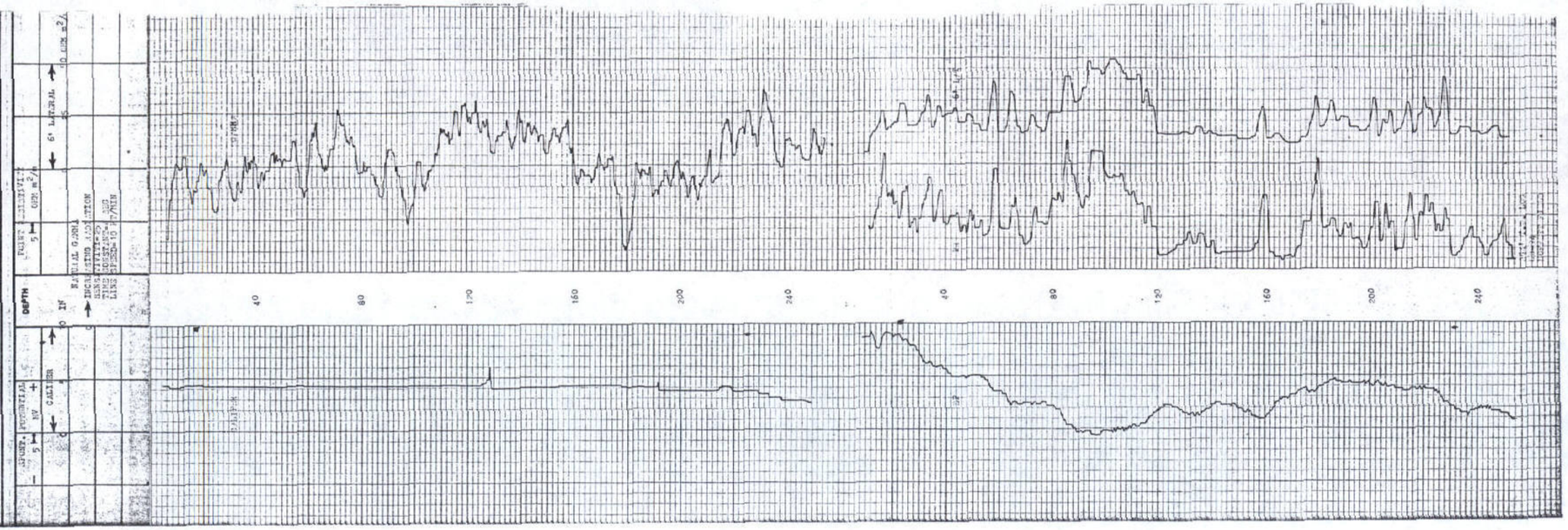
LOGGING DEPARTMENT — LOCATION

RUN NO. — DATE — TYPE LOG — DEPTH DRILLER — DEPTH LOGGER — BTM. LOG INTERVAL — TOP LOG INTERVAL — CASING DRILLER — CASING LOGGER — BIT SIZE — TYPE FLUID IN HOLE — DENS. VISC. — PH FLUID LOSS — SOURCE OF SAMPLE — RM @ MEAS. TEMP. — RMF @ MEAS. TEMP. — RMC @ MEAS. TEMP. — SOURCE RMF RMC — RM @ BHT — TIME CIRC. — MAX. REC. TEMP. — EQUIP. LOCATION — RECORDED BY — WITNESSED BY

STANDARD INTERP — PRIMARY DEPTH CONTROL

LOGGING DEPARTMENT

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 6 of our Standard Terms and Conditions which can be had on request. Price Schedule.



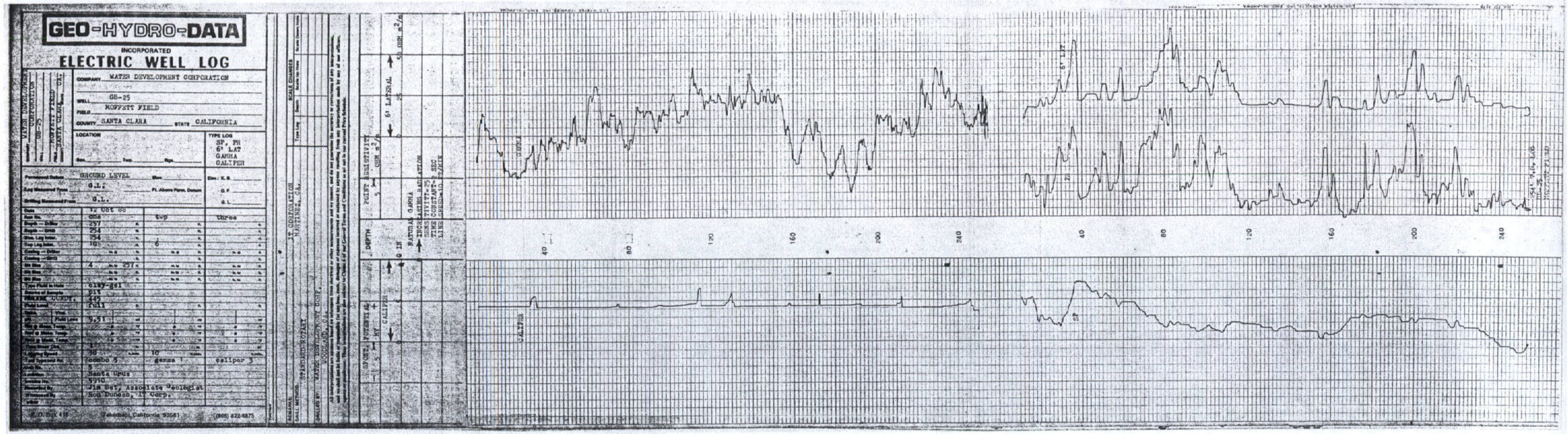
N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

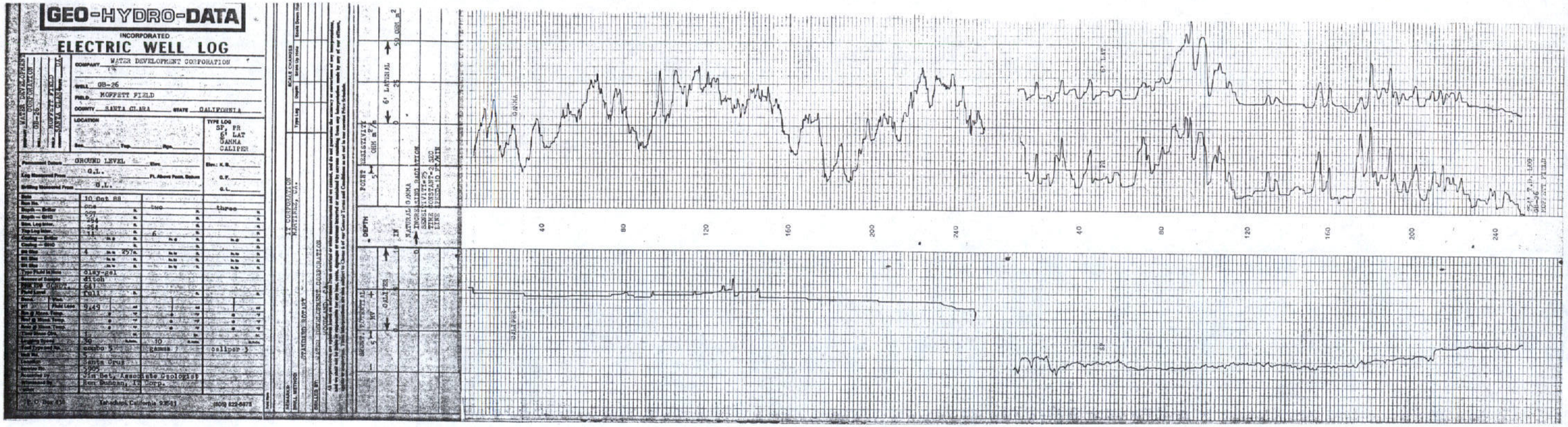
APPENDIX J

SECTION 8.0 – SITE 8 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY WATER DEVELOPMENT CORPORATION
WELL GB-25
FIELD MOFFETT FIELD
COUNTY SANTA CLARA STATE CALIFORNIA
LOCATION
TYPE LOG
SP, FR
6' LAT
GAMMA
CALIPER
GROUND LEVEL
G.L.
Ft. Above Perm. Datum
D.F.
G.L.
Date 12 Oct 60
Run No. One
Depth — Driller 297
Depth — Logger 254
Btm. Log Interv. 254
Top Log Interv. 10
Casing — Driller
Casing — Logger
Bit Size 4
Type Fluid in Hole clay gel
Source of Sample pit
RM @ Meas. Temp. .442
Rmf @ Meas. Temp. .411
Rmc @ Meas. Temp.
Source: Rmf Rmc
RM @ BHT
Time Since Circ.
Max. Rec. Temp.
Equip. No.
Location
Recorded By Jim Bay, Associate Geologist
Witnessed By Ron Duncan, Lt. Corp.
SCALE CHANGES
Run No.
Depth
Scale Up Here
Scale Down Here
Tape Log
Depth
REMARKS:
CALL METHOD:
SAMPLES BY:
J.T. CORPORATION
MARTINEZ, CAL.
DEPTH
SP
CALIPER
6' LATERAL
RESISTIVITY
NATURAL GAMMA
INDUCTION LOG
TIME CONSTANT
SEC
LINE SPEED
IN/MIN
40
80
120
160
200
240
6' LAT
CALIPER
SP
P.O. Box 418 Bakersfield, California 93561 (805) 822-4875


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY WATER DEVELOPMENT CORPORATION
WELL 08-26
FIELD MOFFETT FIELD
COUNTY SANTA CLARA STATE CALIFORNIA
LOCATION
TYPE LOG
SP
RES
GAMMA
CALIPER
GROUND LEVEL
G.L.
10 Oct 88
one
two
three
ditch
mud
9.49
combo 5
gamma 7
caliper 3
Santa Cruz
5909
Jim Bell, Associate Geologist
Ken Duncan, Dr. Corp.
Los Altos, California 94023
(415) 941-6500
(408) 225-6975
SP
GAMMA
CALIPER
DEPTH
40
80
120
160
200
240

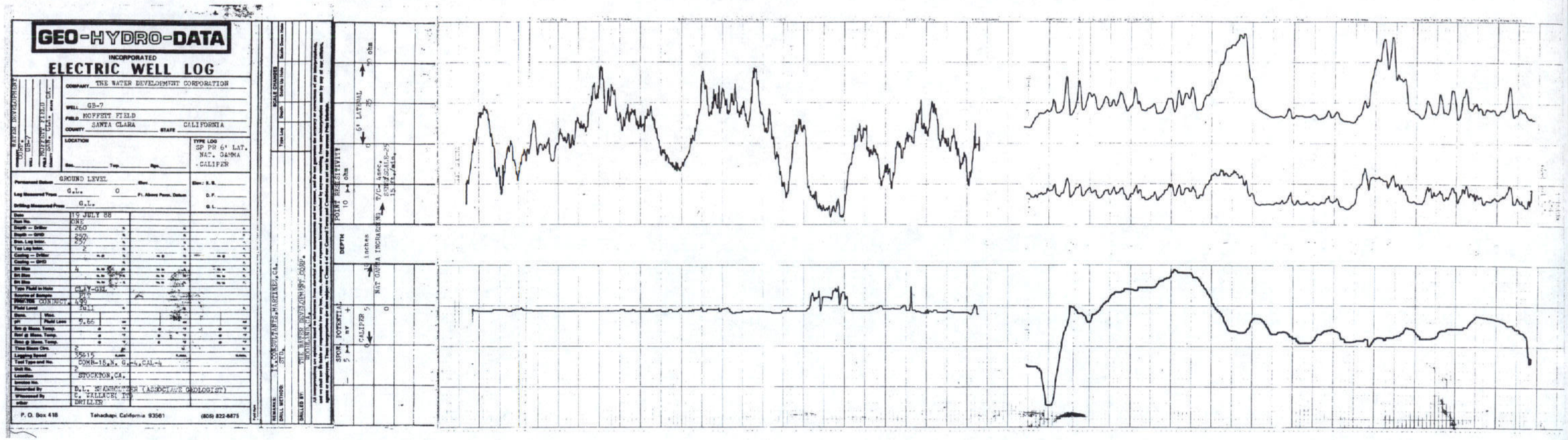
N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

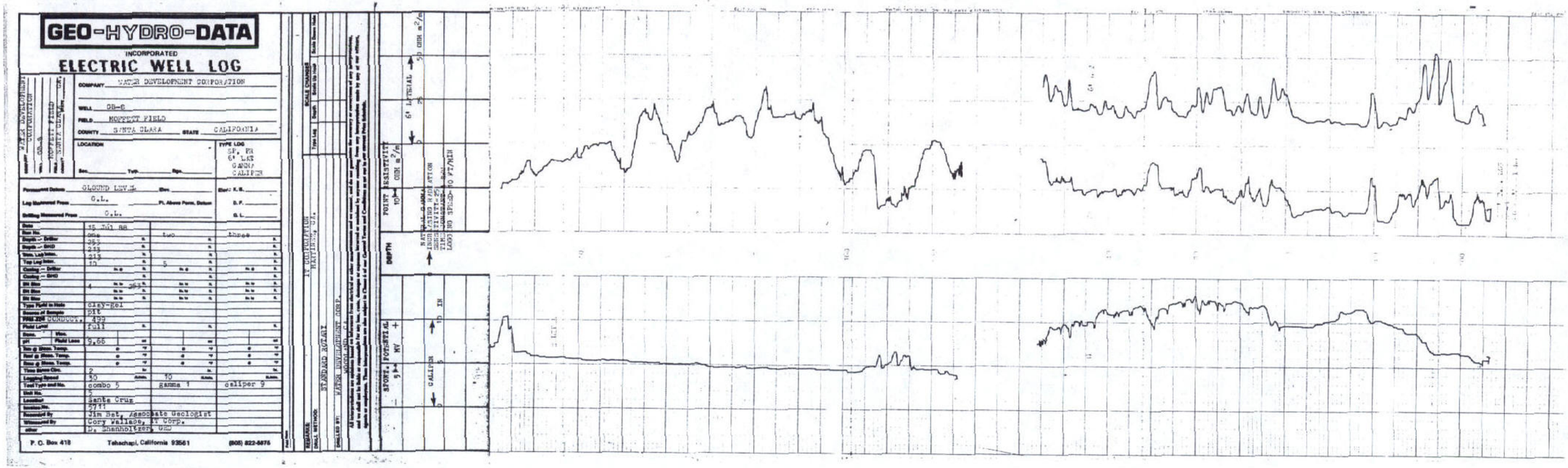
APPENDIX J

SECTION 9.0 – SITE 9 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY THE WATER DEVELOPMENT CORPORATION
WELL GS-7
FIELD MOFFETT FIELD
COUNTY SANTA CLARA
STATE CALIFORNIA
LOCATION
TYPE LOG
SP PR 6' LAT.
NAT. GAMMA
- CALIPER
Permanent Datum GROUND LEVEL
Log Measured From G.L.
Drilling Measured From G.L.
Date 19 JULY 68
Run No. ONE
Depth — Driller 260
Depth — Grad 257
Btm. Log Inter. 257
Top Log Inter. 2
Casing — Driller
Casing — Grad
Bit Size 4
Type Fluid in Hole CLAY-GEL
Source of Sample PIT
RESISTIVITY CONTACT 4.50
Fluid Level FULL
pH Fluid Loss 9.65
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Time Since Circ. 2
Logging Speed 55ft/m
Tool Type and No. COMB-15,N. G.-4,CAL-4
Unit No. 5
Location STOCKTON,CA.
Recorded By B.L. MANCHESTER (ASSOCIATE GEOLOGIST)
Witnessed By C. WALLACE(TW
DRILLER
P. O. Box 418 Tehachapi California 93561 (805) 822-6875
REMARKS. TRANSMITTANCE,MARINE,Cl=
DRILL METHOD STD.
DRILLED BY: THE WATER DEVELOPMENT CORP.
SCALE CHANGES
Top Log Depth Scale to Run
SP
POINT RESISTANCE
10 ohms
DEPTH
Inches
STOP POTENTIAL
-80 mv +
CALIPER
6" LATERAL
25 ohms
0
P/C=4sec.
SPACING=8-25
1ft.,dbl.
NAT GAMMA INCREASING
0



GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY: WATER DEVELOPMENT CORPORATION

WELL: GB-6

FIELD: MOFFETT FIELD

COUNTY: SANTA CLARA STATE: CALIFORNIA

LOCATION

Sec. Twp. Rge.

TYPE LOG: SP, FE, 64" LAT, GAMMA, CALIPER

Permanent Datum: GROUND LEVEL Elev.

Log Measured From: G.L. Ft. Above Perm. Datum

Drilling Measured From: G.L.

Elev.: K.B. D.F. G.L.

Date	15 JUL 88			
Run No.	one	two		three
Depth — Driller	353			
Depth — SMD	339			
Btm. Log Inter.	313			
Top Log Inter.	10	5		
Casing — Driller	n.e.	n.e.		n.e.
Casing — SMD				
Bit Size	4 n.e. 3 7/8	n.e.		n.e.
Bit Size	n.e.	n.e.		n.e.
Bit Size	n.e.	n.e.		n.e.
Type Fluid in Hole	clay-gel			
Source of Sample	pit			
Rm @ Meas. Temp.	.799 @ 70°F			
Fluid Level	full			
Rmf @ Meas. Temp.	9.66 @ 70°F	@ °F		@ °F
Rmc @ Meas. Temp.	@ °F	@ °F		@ °F
Time Since Circ.	2 hr.	hr.		hr.
Logging Speed	30 f/min.	30 f/min.		f/min.
Tool Type and No.	combo 5	gamma 1		caliper 9
Unit No.	3			
Location	Santa Cruz			
Invoice No.	2711			
Recorded By	Jim Bat, Associate Geologist			
Witnessed By	Gary Wallace, W. Hydr.			
other	W. Shannhitzer, GSC			

P. O. Box 418 Tehachapi, California 93561 (805) 822-5875

SCALE CHANGES — Depth — Scale Down to — Time Log — Scale Down to

REMARKS: DRILL METHOD: RECORDED BY: WITNESSED BY:

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Terms and Conditions as set forth in our current Price Schedule.

IN CONJUNCTION WITH: STANDARD ASSAY

WATER DEVELOPMENT CORP.

DEPTH

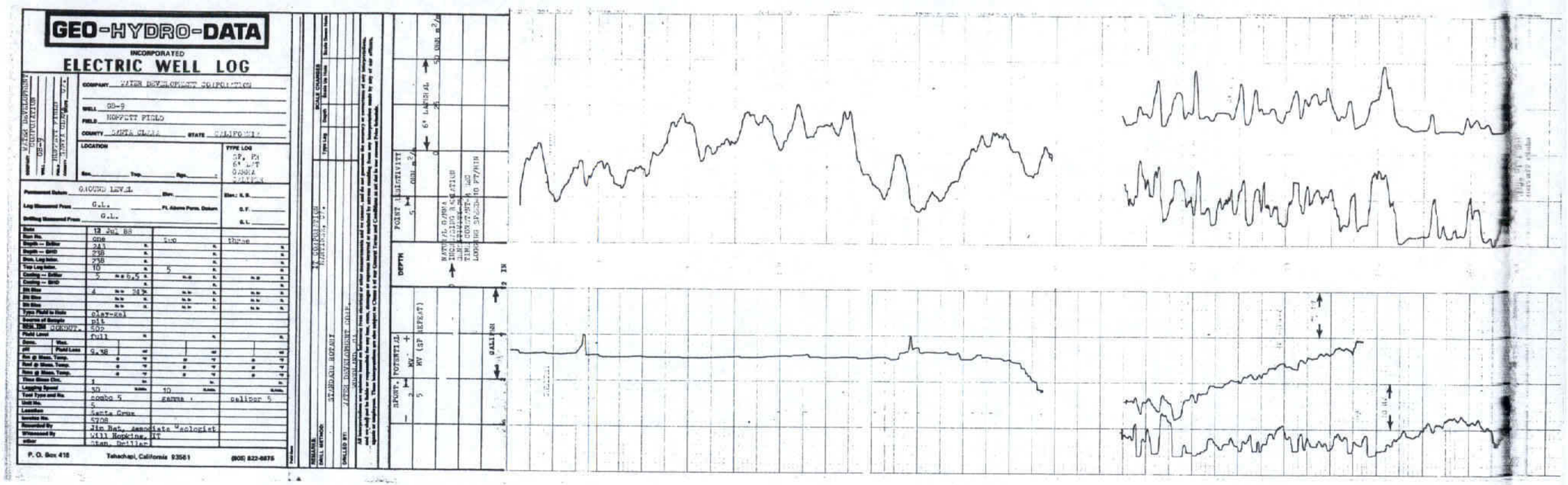
POINT RESISTANCE 10 OHM m²/m — 50 OHM m²/m

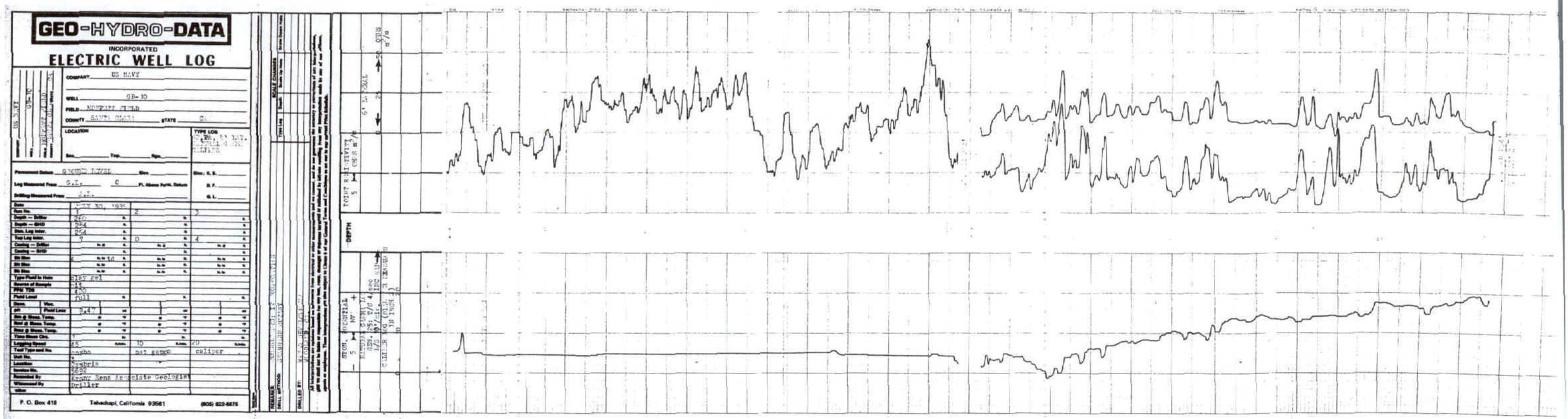
64" LATERAL

NATURAL GAMMA RADIOACTIVITY FROM FORMATION — 0 — 200 MICRO R/HR

SPONT. POTENTIAL mV — 5 — 0 — 5

CALIPER — 10 IN


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY WATER DEVELOPMENT CORPORATION
WELL GD-9
FIELD HOPKETT FIELD
COUNTY SANTA CLARA STATE CALIFORNIA
LOCATION
TYPE LOG
S.P. Rt
64" N-T
GAMMA
CALIPER
Permanent Datum GROUND LEVEL
Log Measured From G.L.
Drilling Measured From G.L.
Date 12 Jul 88
Run No. one two
Depth -- Driller 243 ft. Sub ft. three ft.
Depth -- Logger 238 ft. ft. ft.
Btm. Log Interval 238 ft. ft. ft.
Top Log Interval 10 ft. 5 ft. ft.
Casing -- Driller 5 @ 6.5 ft. @ ft. @ ft.
Casing -- Logger ft. ft. ft.
Bit Size 4 to 243 ft. ft. ft.
Bit Size to ft. ft. ft.
Bit Size to ft. ft. ft.
Type Fluid in Hole Clay-Gel
Source of Sample pit
RM @ Meas. Temp. .600 @ 70°F
Rmf @ Meas. Temp. .500 @ 70°F
Rmc @ Meas. Temp. @ °F @ °F @ °F
Time Since Circ. 1 hr. hr. hr.
Logging Speed 30 ft/min 30 ft/min ft/min
Tool Type and No. Acoplo 5 gamma 1 caliper 5
Unit No. 5
Location Santa Cruz
Service No. 5708
Recorded By Jim Bat, associate geologist
Witnessed By Will Hopkins, HT
other Stan, Driller
P. O. Box 418 Tehachapi, California 93581 (805) 822-6875
REMARKS
CALL METHOD STANDARD REPORT
CALLED BY JEFF DONNENFELD
DEPTH
POINT
MILLIVOLTS
OHM-M
64" LATERAL
SP (REFLECT)
GALLONS
BOUNDARY
RUN 1
RUN 2
RUN 3
RUN 4
RUN 5
RUN 6
RUN 7
RUN 8
RUN 9
RUN 10
RUN 11
RUN 12


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
COMPANY US NAVY
WELL OB-10
FIELD NEWBERRY MESA
COUNTY KERN STATE CA
LOCATION
TYPE LOG
Sec. Twp. Rge.
Permanent Datum GROUND LEVEL Elev.
Log Measured From G.L. 0 Ft. Above Perm. Datum
Drilling Measured From G.L.
Elev. K. B.
D. F.
G. L.
Date 11-14-90
Run No. 1 2 3
Depth — Driller 2500 2954
Depth — SWD 2954
Btm. Log Inter. 2954
Top Log Inter. -9 0 4
Casing — Driller 9-5/8 @ 2954
Casing — SWD
Bit Size 8 3/4 to 2954
Bit Size
Bit Size
Type Fluid in Hole SALT GEL
Source of Sample MIX
PPM TDS 1500
Fluid Level FULL
Density Visc.
pH Fluid Loss 9.4 cc
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Time Since Circ.
Logging Speed 45 60 FPM 70 FPM
Tool Type and No. SONDE 647 GAMMA CALIPER
Unit No. 4
Location Newbrie
Invoice No. 9866
Recorded By Kenny Renz Associate Geologist
Witnessed By Driller
Other
P. O. Box 418 Tehachapi, California 93561 (805) 822-5875
BOREHOLE RECORD
Type Log From To Bit Size
CASING RECORD
Size Wgt. From To
RELEASE
SHOT METHOD
DRILLED BY
TOOL POSITION
DEPTH
SPONTANEOUS MV
RESISTIVITY OHM M²/M
GAMMA RAY (GR) API UNITS
CALIPER (CAL) IN
GR
CAL
SPONTANEOUS
RESISTIVITY

GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY NAVAL DEVELOPMENT CORP.

WELL 65-17 SITE 9

FIELD MONTHLY FIELD

COUNTY SANTA BARBARA STATE CA

LOCATION

TYPE LOG 3P,LN,SP,1 INCH
3P,LN,SP,5 INCH
GAMMA
CALIPER

Permanent Datum	GROUND LEVEL		Elev.				Elev.: K.B.	
Log Measured From	G.L.	0	Ft. Above Perm. Datum				D.F.	
Drilling Measured From	G.L.						G.L.	
Date	MAY 26 1999							
Run No.			2				3	
Depth — Driller	765	ft.		ft.				ft.
Depth — GHD	765	ft.		ft.				ft.
Btm. Log Inter.	765	ft.		ft.				ft.
Top Log Inter.	8	ft.	0	ft.	2			ft.
Casing — Driller		ft. @		ft. @				ft. @
Casing — GHD		ft.		ft.				ft.
Bit Size	6	in. to		in. to				in. to
Bit Size		in. to		in. to				in. to
Bit Size		in. to		in. to				in. to
Type Fluid in Hole	clay gel							
Source of Sample	pit							
FWL 10C	4.50							
Fluid Level	full	ft.		ft.				ft.
Density / Visc.								
pH / Fluid Loss	9.42	cc		cc				cc
Rm @ Meas. Temp.		@ °F		@ °F				@ °F
Rmf @ Meas. Temp.		@ °F		@ °F				@ °F
Rmc @ Meas. Temp.		@ °F		@ °F				@ °F
Time Since Circ.	1	hr.		hr.				hr.
Logging Speed	45	ft/min.	30	ft/min.	30			ft/min.
Tool Type and No.	combo		nat. gamma		caliper			
Unit No.	3							
Location	Capitola							
Logger No.	5689							
Recorded By	Kerry Rene Associate Geologist							
Witnessed By	Driller							
other								

P. O. Box 418 Tehachapi, California 93561 (805) 823-8875

SCALE CHANGES — Type Log | Depth | Scale Down Hole | Scale Up Hole

RESERVE: Bentonite Mud 8.5 lb. Consumption

DRILL METHOD: ROTARY

DRILLED BY: NAVAL DEV CORP

Additional Info:

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FORMATION

DESCRIPTION IS GENERAL, NOT GEOLOGIC. SAND INCLUDES GRAVELS. BASED ON ELECTRICAL PROPERTIES AS INTERPRETED FROM ELECTRICAL DATA. IS ALSO CONSIDERED IF AVAILABLE.

YIELD

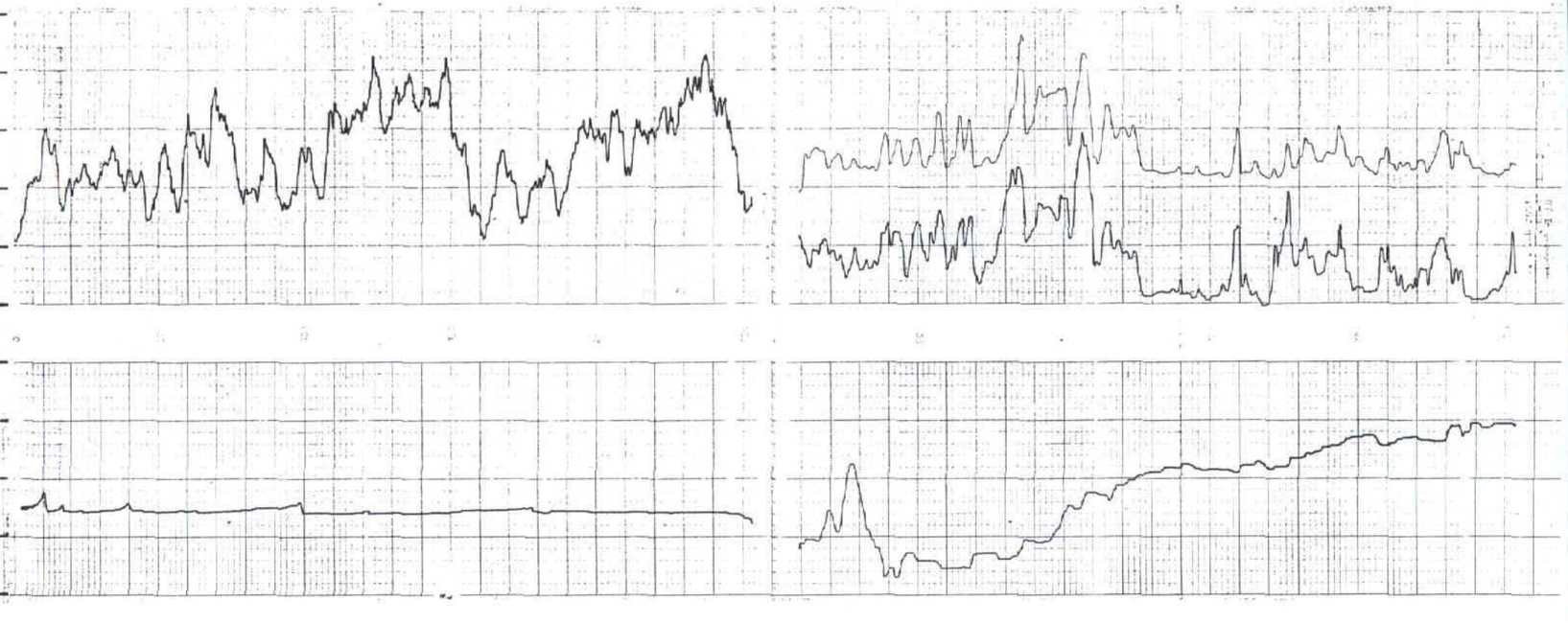
SHADING INDICATES AREAS OF PROBABLE YIELD. DARKER SHADING INDICATES GREATER YIELD.

THE INDICATED YIELD IS USUALLY RELATIVE. WIDE GRADATION AS SHADING AREA INCREASES.

WATER QUALITY

form 708

DEPTH



GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
WATER DEVELOPMENT CORPORATION
CB-12
MOFFETT FIELD
SANTA CLARA
CALIFORNIA
SP, FR, 6' LATERAL CALIPER NAT. GAMMA
GROUND LEVEL
1 August 85
Two
Three
Schlumberger
Mike Alexander, Assoc. Geologist
Bob S.
P.O. Box 493
Tehachapi, California 93561
(805) 822-5975
FORMATION
YIELD
WATER QUALITY
DEPTH
SPONT. POTENTIAL
RESISTIVITY
GAMMA RAY

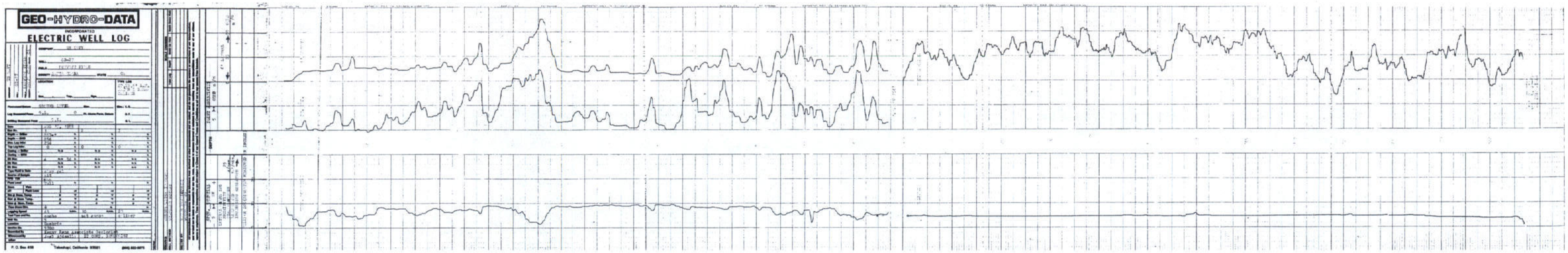
N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

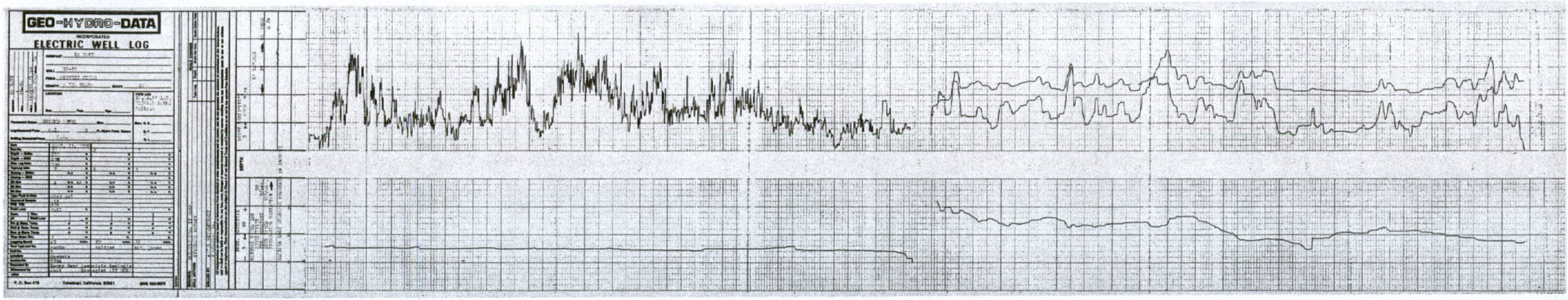
APPENDIX J

SECTION 10.0 – SITE 10 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 11

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 12

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 13

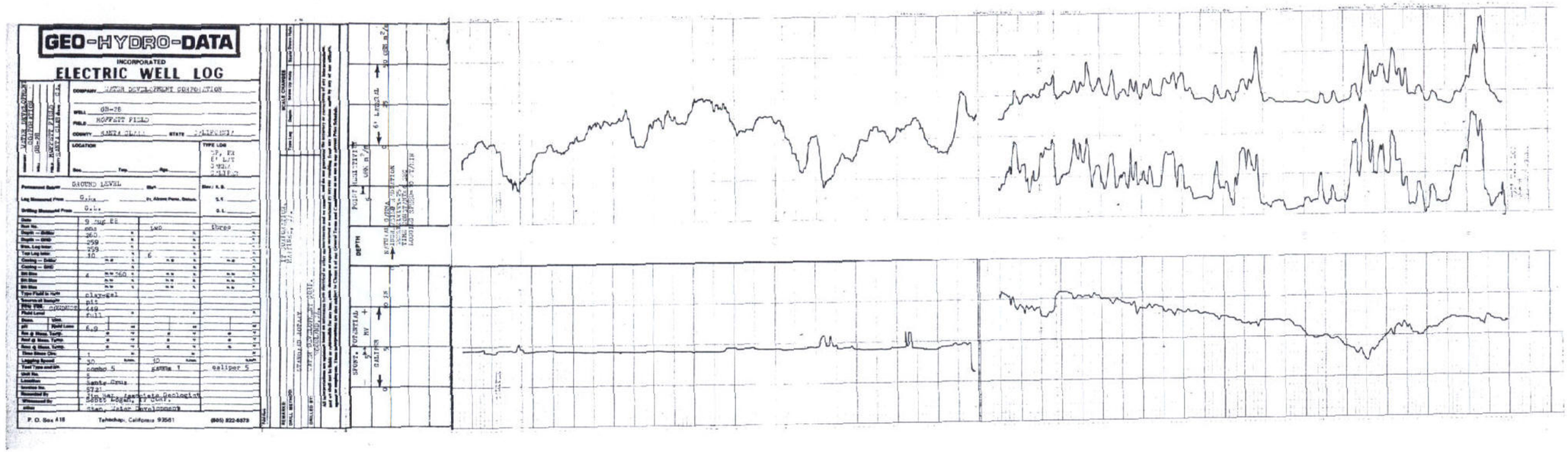
N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J

SECTION 14.0 – SITE 14 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988


GEO-HYDRO-DATA
INCORPORATED
ELECTRIC WELL LOG
P. O. Box 418
Tehachapi, California 93561
(805) 822-6879

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 15

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 16

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 17

NO GEOPHYSICAL LOGGING WAS CONDUCTED AT SITE 18

N00296.000549
MOFFETT FIELD
SSIC NO. 5090.3

APPENDIX J

SECTION 19.0 – SITE 19 GEOPHYSICAL LOGS

DECEMBER 1988 QUARTERLY REPORT
REMEDIAL INVESTIGATION/FEASIBILITY STUDY

DATED 15 DECEMBER 1988

GEO-HYDRO-DATA

INCORPORATED

ELECTRIC WELL LOG

COMPANY	WATER DEVELOPMENT CORPORATION
WELL	GB-29
FIELD	MOFFETT FIELD
COUNTY	SANTA CLARA
STATE	CALIFORNIA
LOCATION	SITE 19
Sec.	Twp.	Rge.
Permanent Datum	GROUND LEVEL	Elev.
Log Measured From	G.L.	Ft. Above Perm. Datum
Drilling Measured From	G.L.	Elev.: K. B.
		D. F.
		G. L.

TYPE LOG: SP, FR, 6' LAT, GAMMA, CALIPER

Date	15 Aug 86		
Run No.	one	two	three
Depth — Driller	250		
Depth — SWS	250		
Btm. Log Inter.	250		
Top Log Inter.	10	5	
Casing — Driller			
Casing — SWS			
Bit Size	4	250	
Bit Size			
Bit Size			
Type Fluid in Hole	clay-gel		
Source of Sample	ditch		
Rm @ Meas. Temp.	665		
Fluid Level	full		
pH / Fluid Loss	10.05		
Rmf @ Meas. Temp.			
Rmc @ Meas. Temp.			
Rm @ Meas. Temp.			
Time Since Circ.	1		
Logging Speed	30	10	
Tool Type and No.	combo 5	gamma 1	caliper 5
Unit No.	5		
Location	Santa Cruz		
Recorded By	5725		
Witnessed By	Jim Bat, Associate Geologist		
	Don Cox, Geologist (IT Corp)		
	Kyle, Water Development		

P. O. Box 418 Tehachapi, California 93561 (805) 822-8875

REMARKS: IT CORPORATION, MARTINEZ, CA.

DRILL METHOD: STANDARD ROTARY

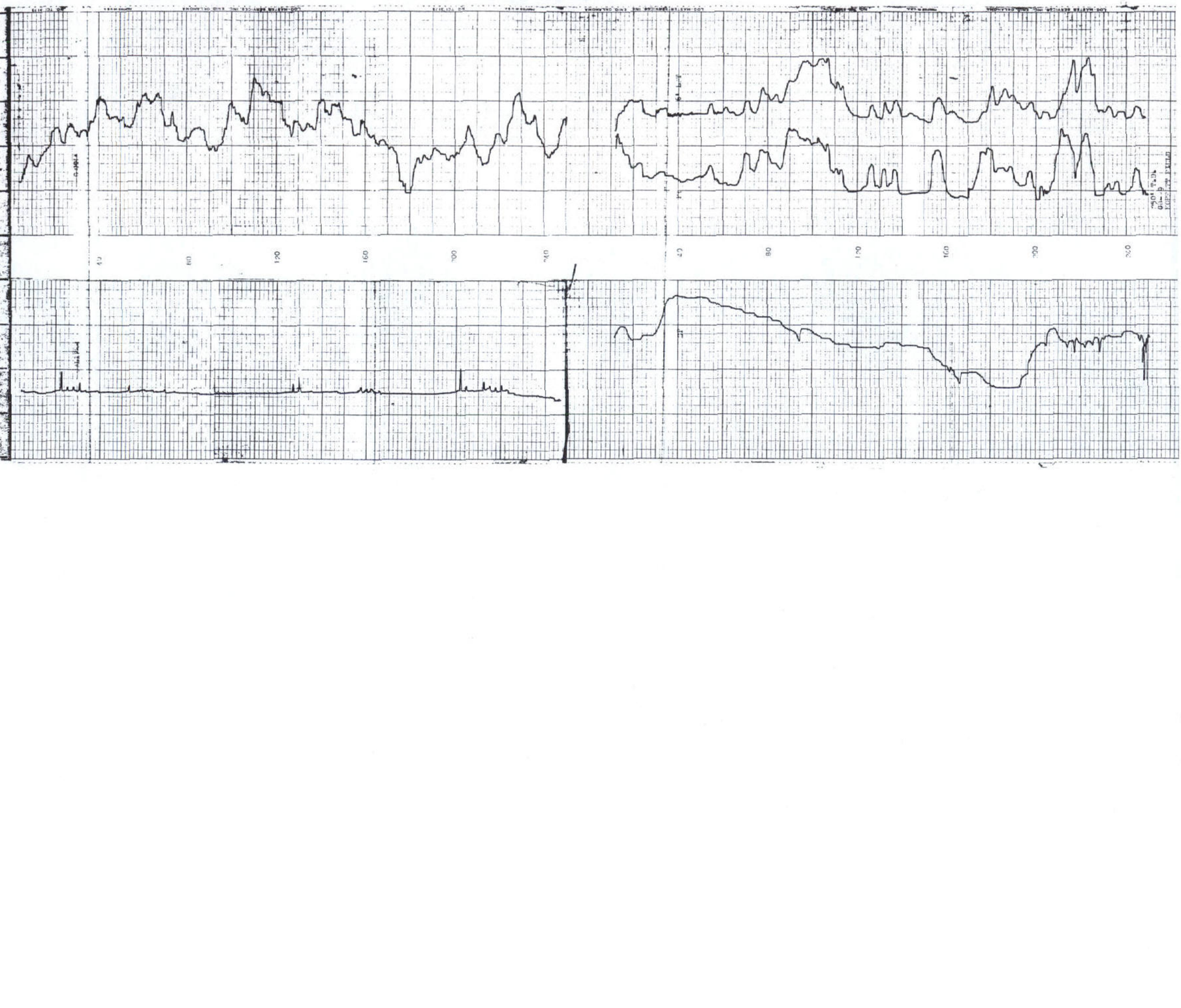
DRILLER'S NAME: WATER DEVELOPMENT CORP., WOODLAND, CA.

SCALE CHANGES: Depth, Type Log, Scale Down Hole, Scale Up Hole, Scale Down Hole

All interpretations or opinions based on information from electrical or other measurements are our opinion, and as such may differ from the accuracy or correctness of any interpretations, opinions or conclusions. Geo-Hydro-Data, Inc. shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 6 of our General Terms and Conditions as set forth in our current Price Schedule.

POINT — DEPTH — RESISTIVITY OHM m²/m — 6' LATEN AL — 50 OHM m²/m

NATURAL GAMMA — INCREASING RADIATION — 6' LATEN AL — 25

SENSITIVITY — TIME CONSTANT — LOGGING SPEED — GRD — 0 FT/MIN

SP — MV — CALIPER — IN — 20 — 10