

GL02998-30412

Schlumberger		INDUCTION ELECTRICAL LOG	
COUNTY MARIICOPA FIELD or LOCATION WILDCAT WELL NO. COMPANY GEO THERMAL K.S.S.	COMPANY <u>GEO THERMAL KINETICS SYSTEMS CORP.</u>		
	WELL <u>POWER RANCHES NO. 1</u>		
	FIELD <u>WILDCAT</u>		
	COUNTY <u>MARIICOPA</u> STATE <u>ARIZONA</u>		
LOCATION <u>1980 FNL 660 FWL</u> <u>SE/4 C WESE</u>		Other Services: FDC/GR HTT	
Sec. <u>1</u> Twp. <u>2S</u> Rge. <u>6E</u>			
Permanent Datum: <u>GL</u> , Elev. <u>1338</u>		Elev.: <u>K.B. 1358</u>	
Log Measured From <u>KB</u> , <u>20</u> Ft. Above Perm. Datum		D.F. <u>--</u>	
Drilling Measured From <u>KB</u>		G.L. <u>1338</u>	
Date	<u>2-12-73</u>		
Run No.	<u>ONE</u>		
Depth-Driller	<u>3118</u>		
Depth-Logger	<u>3118</u>		
Bitm. Log Interval	<u>3117</u>		
Top Log Interval	<u>204</u>		
Casing-Driller	<u>20</u> @ <u>204</u>		
Casing-Logger	<u>204</u>		
Bit Size	<u>17-1/2</u>		
Type Fluid in Hole	<u>S.G.M.</u>		
Dens.	<u>10.5</u>	<u>48</u>	
pH	<u>6.4</u>	<u>--</u>	<u>mi</u>
Fluid Loss			
Source of Sample			
R _m @ Meas. Temp.	<u>116</u> @ <u>60</u> °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	<u>106</u> @ <u>60</u> °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	<u>--</u> @ <u>--</u> °F	@ °F	@ °F
Source: R _{mf}	<u>M</u>		
R _{mc}	<u>--</u>		
R _m @ BHT	<u>1064</u> @ <u>116</u> °F	@ °F	@ °F
Time Since Circ.	<u>4</u> HOURS		
Max. Rec. Temp.	<u>116</u> °F	°F	°F
Equip. Location	<u>7656 FARM</u>		
Recorded By	<u>ELLIS</u>		
Witnessed By	<u>AUSTIN</u>		

Borehole reference data were furnished by the customer.

Reproduced By
Electrical Log Services
MIDLAND, TEXAS 79701

REFERENCE K 2641R



9 COMPLETION RECORD

SPUD DATE _____

COMP DATE _____

DST RECORD _____

API NO. _____

CASING RECORD _____

PERFORATING RECORD _____

ACID. FRAC SHOT _____

I P _____

GOR GR _____

T P CP _____

REMARKS:

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES				SCALE CHANGES			
Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth - Driller							
Type Fluid in Hole							
Dens.	Visc.						
Fluid Loss		mi				mi	
Source of Sample							
R _m @ Meas. Temp.	@ °F	@ °F					
R _{mf} @ Meas. Temp.	@ °F	@ °F					
R _{mc} @ Meas. Temp.	@ °F	@ °F					
Source: R _{mf}							
R _{mc}							
R _m @ BHT	@ °F	@ °F					
R _{mf} @ BHT	@ °F	@ °F					
R _{mc} @ BHT	@ °F	@ °F					
EQUIPMENT DATA				REMARKS			
Log No.	<u>ONE</u>			Service Order No. -	<u>74231</u>		
Well No.	<u>N 575</u>			API Serial No. -			
T. No.	<u>F 384</u>						
Code No.	<u>M 605</u>						
Panel No.	<u>B 237</u>						
Cart. No.	<u>--</u>						

Depth - Driller					
Volume Fluid in Hole					
Visc.					
Fluid Loss		ml		ml	
Volume of Sample					
m @ Meas. Temp.	@	"F	@	"F	
mf @ Meas. Temp.	@	"F	@	"F	
mc @ Meas. Temp.	@	"F	@	"F	
Source: Rmf					
m @ BHT	@	"F	@	"F	
mf @ BHT	@	"F	@	"F	
mc @ BHT	@	"F	@	"F	

EQUIPMENT DATA		REMARKS	
1. No.	ONE	Service Order No. -	74231
2. No.	N 575	API Serial No. -	
3. No.	F 384		
4. No.	M 605		
5. Panel No.	B 237		
6. Cart. No.	--		
7. Panel No.	--		
8. No.	--		
9. Device	USED		
10. Lead-off - Inches	2.0"		
11. Time Const - Sec.	--		
12. Date - F.P.M.	--		
13. R	2.0		

REPRODUCTION FOR RESALE PROHIBITED

Surface determined sonde errors used for 6FF40.

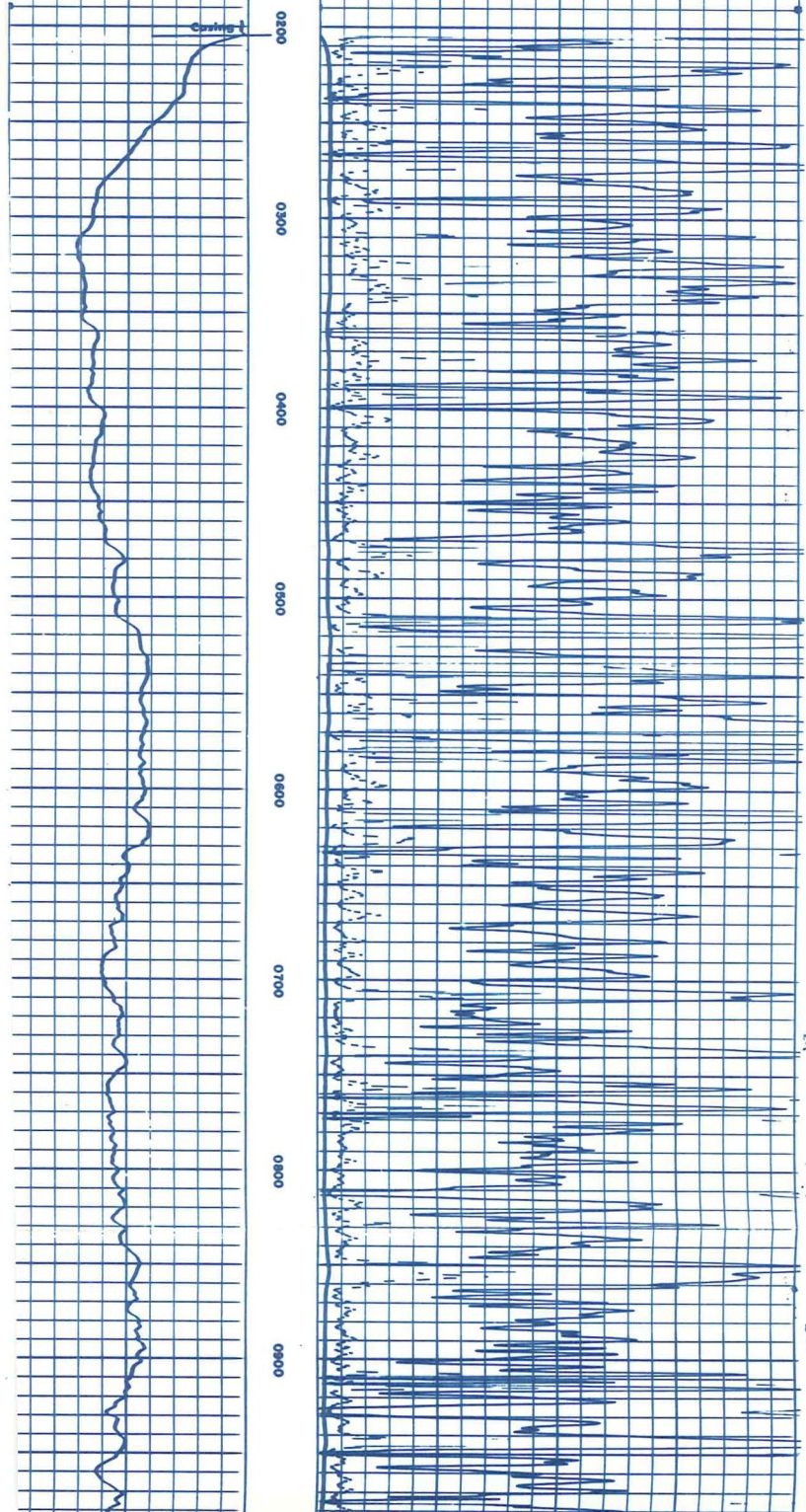
6FF40 sonde error corrected for _____ inch borehole signal at Rm = _____

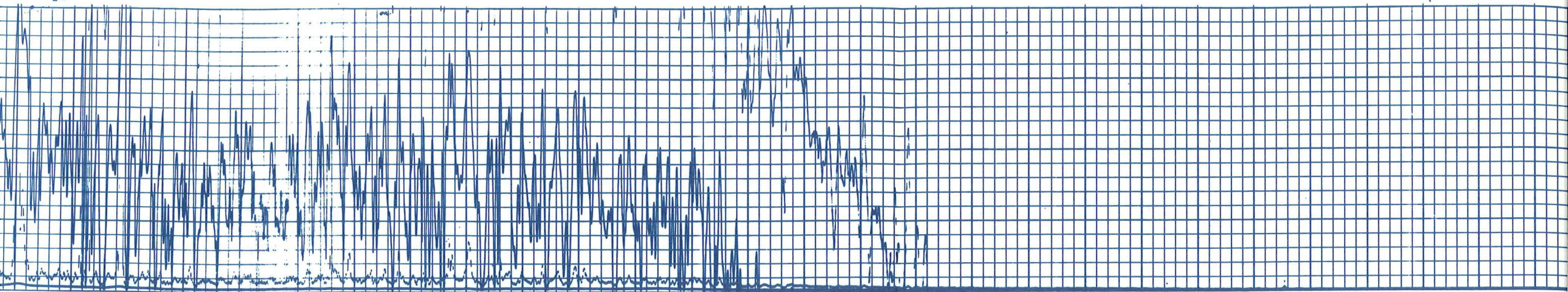
6FF40 zero set in hole at depth of _____ feet.

LIBRATION DATA						
LIBRATION:	BACKGND.	SOURCE	GALV. INCR.	SENS. TAP	SENS. TAP	TIME
	CPS.	CPS.	DIVISION	(FOR CAL.)	(RECORD)	CONST.
UMMA RAY:						

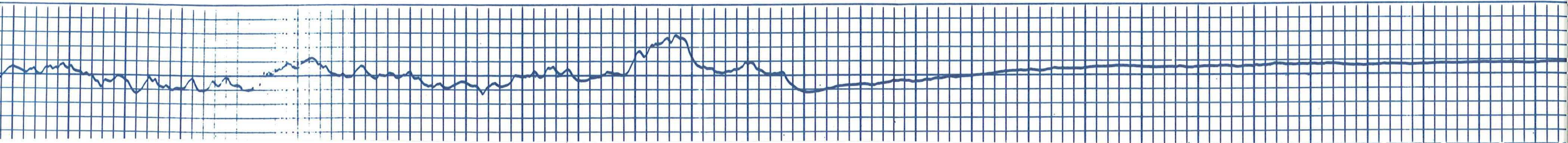
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 7 of our General Terms and Conditions as set out in our current Price Schedule.

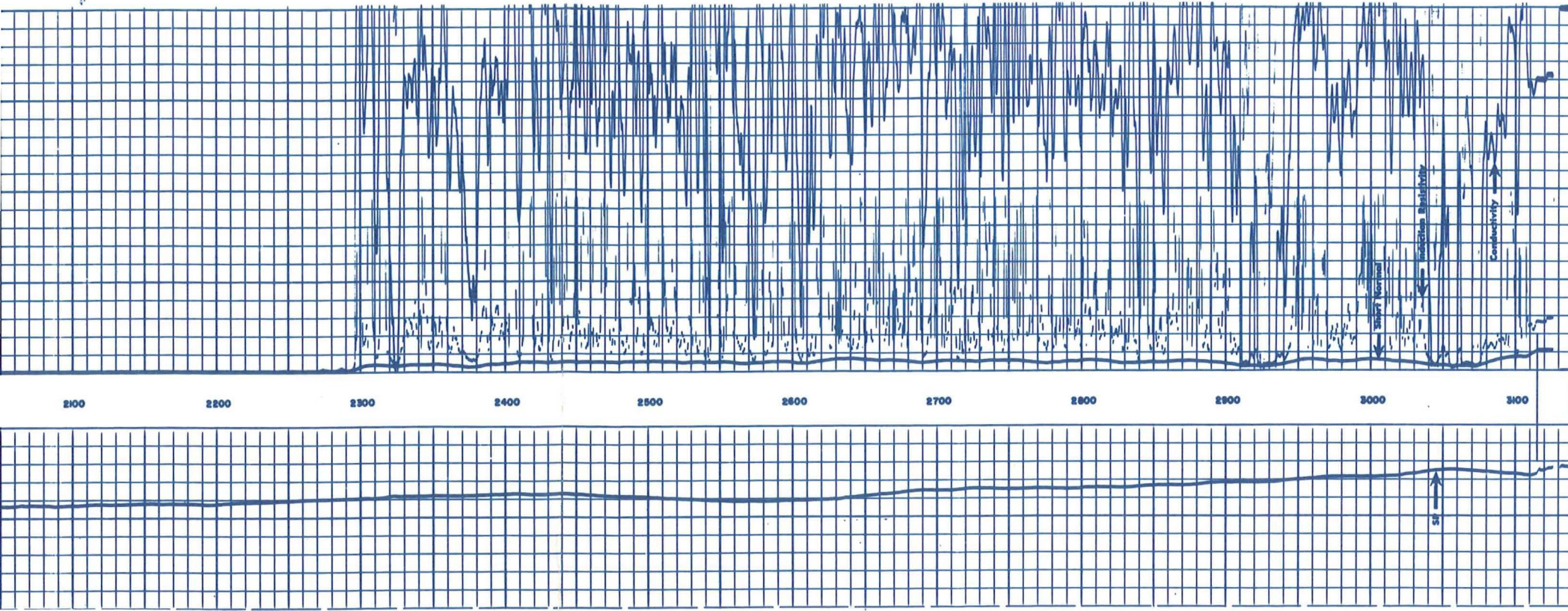
SPONTANEOUS-POTENTIAL MILLIVOLTS	DEPTHS	CONDUCTIVITY MILLIMHOS/M = $\frac{1000}{\text{OHMS. M}^2/\text{M}}$	
		6FF40 INDUCTION	
- 101 + MV		400	0
		600	400
	RESISTIVITY OHMS. M ² /M		
	A - 16" - M SHORT NORMAL		
		0	50
		0	500
		0	50





0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200





DETAIL LOG
5' = 100'

SPONTANEOUS-POTENTIAL MILLIVOLTS + - 10 mV	DEPTHS	CONDUCTIVITY MILLIMHOS/FT = OHMS. M/FT 1000 600 400 200 0	RESISTIVITY OHMS. M/FT 1000 500 50 0	INDUCTION 50 500 50 500 0
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RESISTIVITY
OHMS, IN² / FT

A - 16" - M
SHORT NORMAL

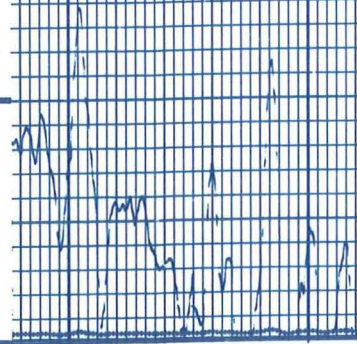
50

500

INDUCTION

50

500



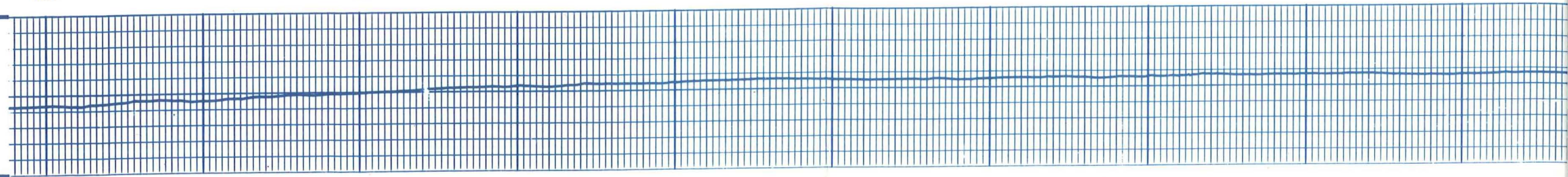
1600

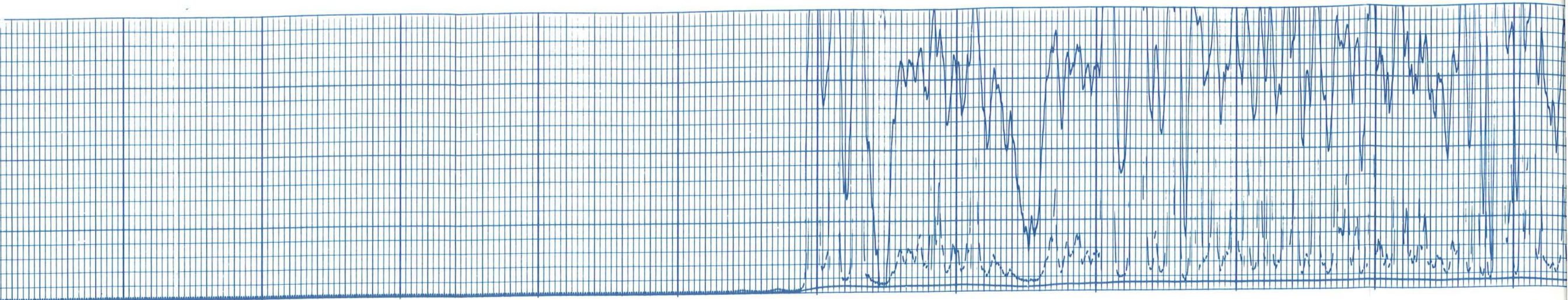
1700

1800

1900

2000





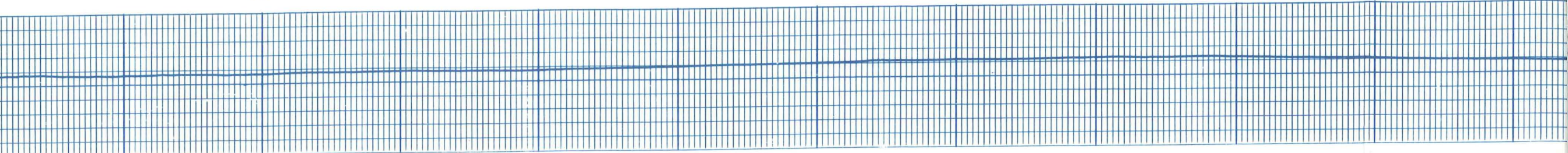
2100

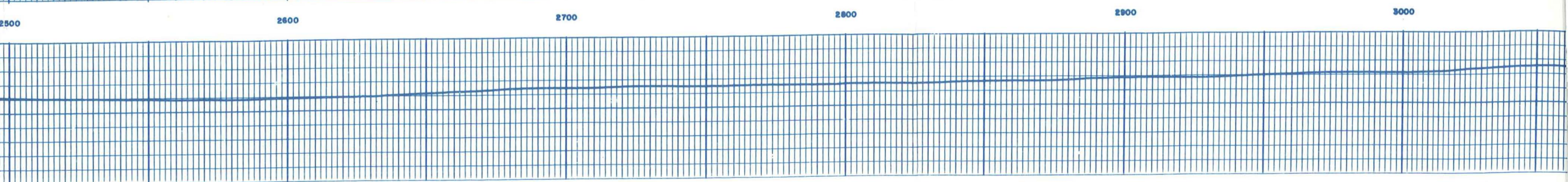
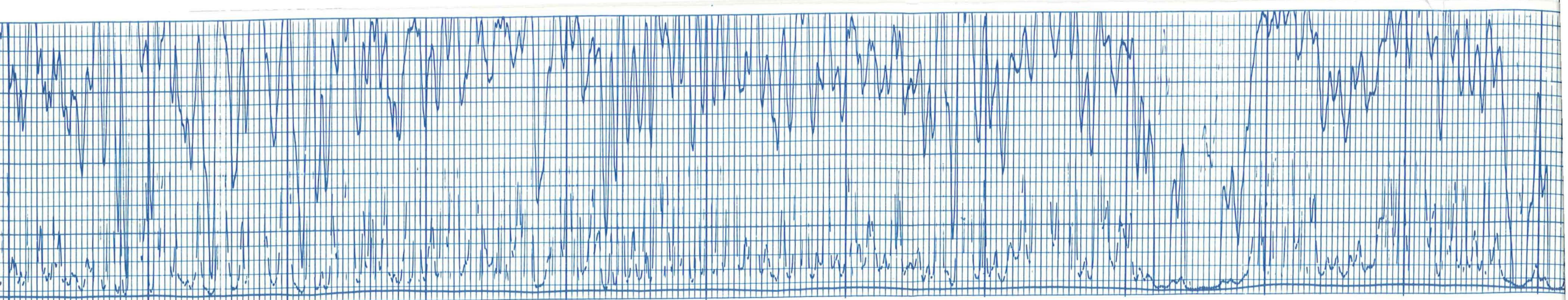
2200

2300

2400

2500





2500

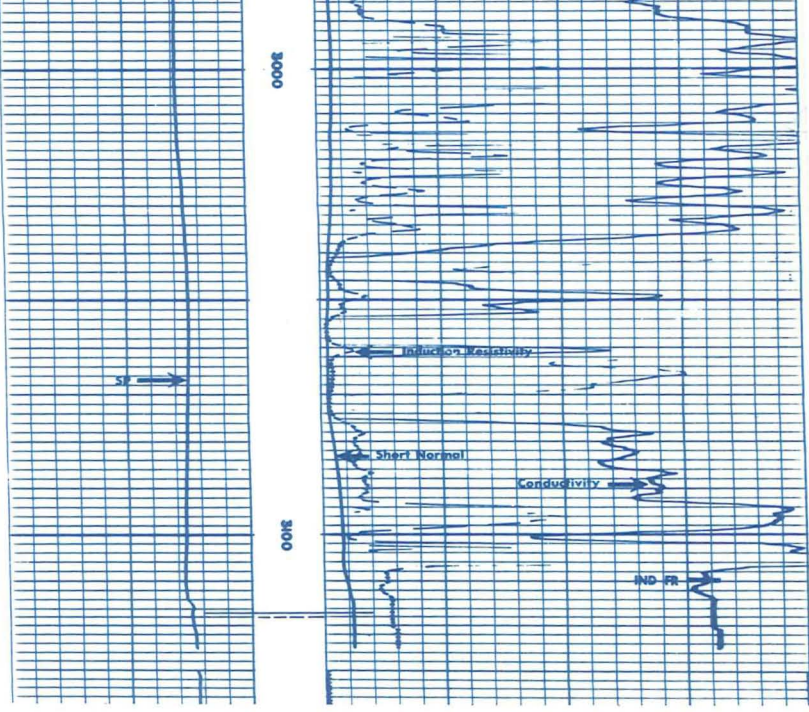
2600

2700

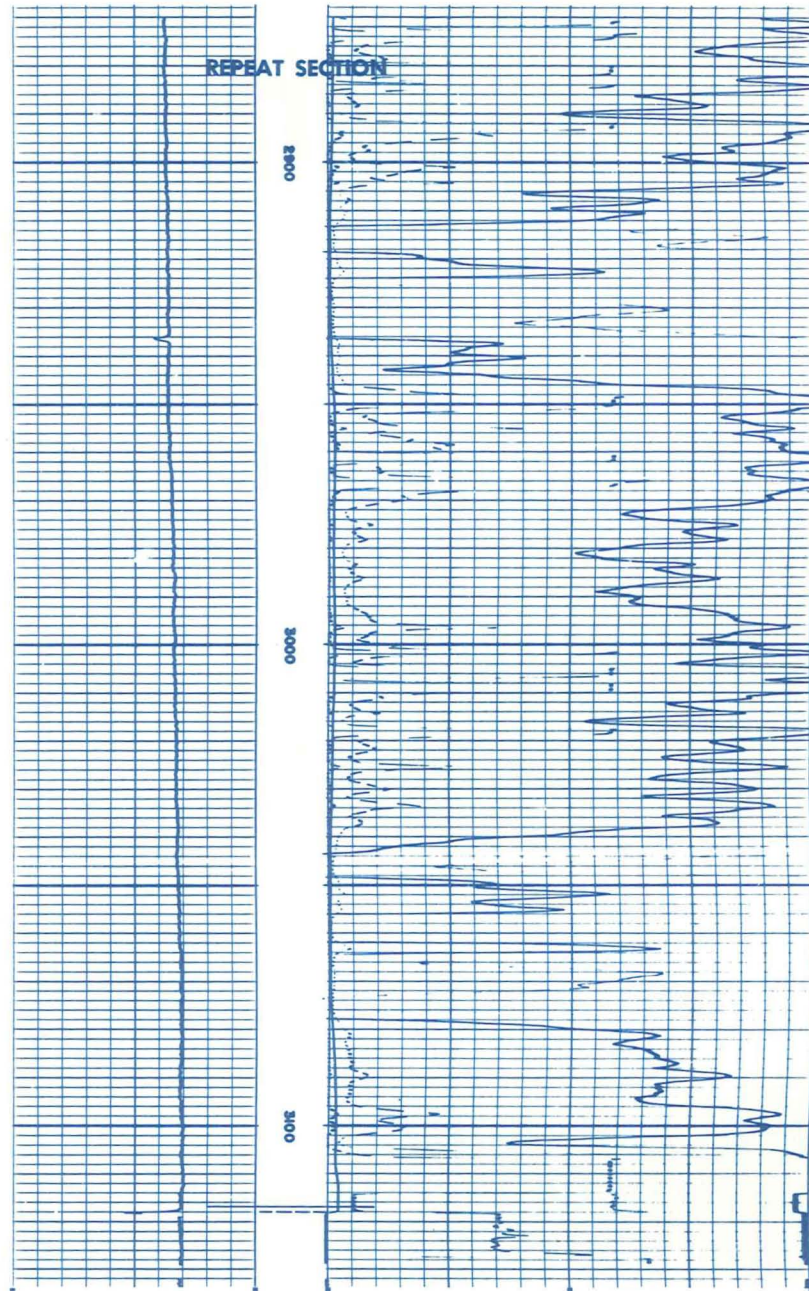
2800

2900

3000

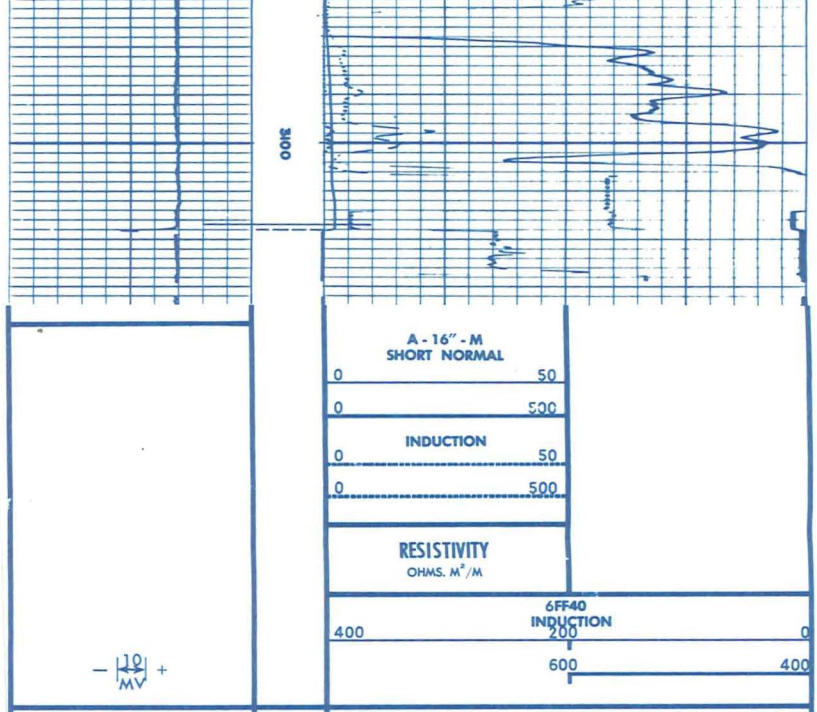


REPRODUCTION FOR RESALE PROHIBITED



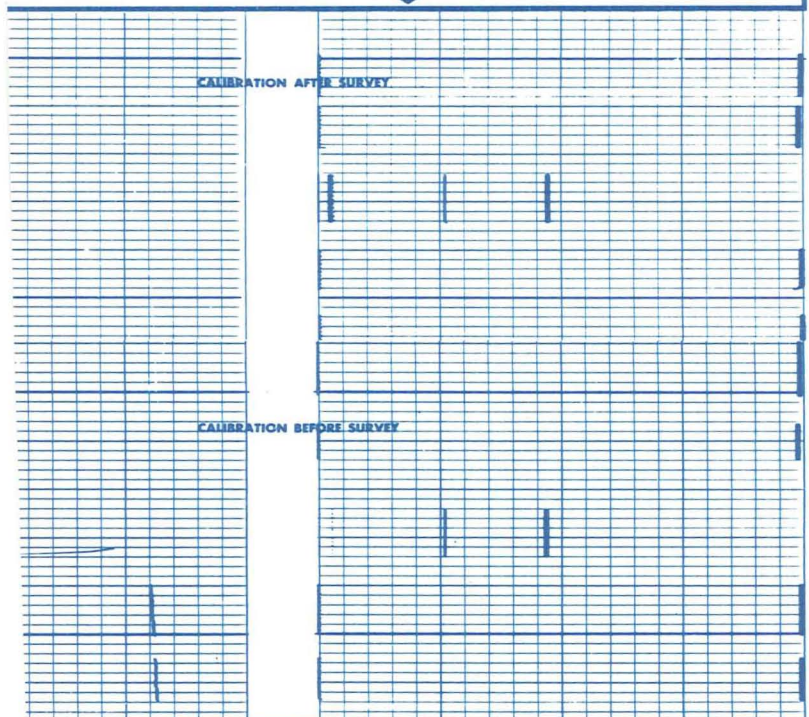
		A - 16" - M SHORT NORMAL	
		0	50
		INDUCTION	
		0	50
		RESISTIVITY OHMS. M ² /M	
		400	200
		6FF40 INDUCTION	
		600	400
SPONTANEOUS-POTENTIAL MILLIVOLTS	DEPTHS	CONDUCTIVITY MILLIMHOS/M = $\frac{1000}{\text{OHMS. M}^2/\text{M}}$	

COMPANY GEOTHERMAL KINETICS SYSTEMS CORP. SCHL FR 3117
 WELL POWER RANCHES NO. 1 SCHL TD 3118
 FIELD WILDCAT DRLR TD 3118
 Elev: 1250



SPONTANEOUS-POTENTIAL MILLIVOLTS		DEPTHS	CONDUCTIVITY MILLIMHOS/M = $\frac{1000}{\text{OHMS. M}^2/\text{M}}$	
COMPANY <u>GEOTHERMAL KINETICS SYSTEMS CORP.</u> WELL <u>POWER RANCHES NO. 1</u> FIELD <u>WILDCAT</u> COUNTY <u>MARICOPA</u> STATE <u>ARIZONA</u>			SCHL. FR. <u>3117</u> SCHL. TD. <u>3118</u> DRLR TD. <u>3118</u> Elev: <u>KB 1358</u> <u>DF --</u> <u>GL 1338</u>	

CALIBRATION RECORD



CALIBRATION RECORD

COMPANY <u>GEOTHERMAL KINETICS SYSTEMS COPR.</u> WELL <u>POWER RANCHES NO. 1</u> FELD <u>WILDCAT</u> OUNTY <u>MARICOPA</u> STATE <u>ARIZONA</u>		SCHL. FR. <u>3117</u> SCHL. TD. <u>3118</u> DRLR TD. <u>3118</u> Elev: <u>KB 1358</u> <u>DF --</u> <u>GL 1338</u>	
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