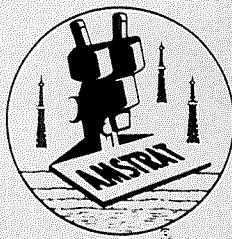


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GL03003-2 of 8



Log No D-4113

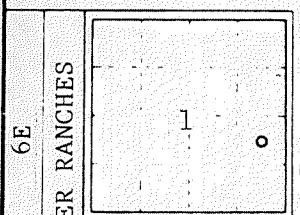
Net Footage 9067

State ARIZONA County MARICOPA

Well Name GEOTHERMAL KINETICS SYSTEMS CORP.

NO. 1 POWER RANCHES

Spot NE SE Sec 1 1 2S R 6E



Area (W)

Commenced Jan. 31, 1973

Completed Tstg

Initial Production Tstg

Elevation

KB 1358

Producing Fm

GR 1338

Total Depth

Producing Intervals

9207

20" @ 204'; 13 3/8"

Oldest Fm Casing @ 3117; 9 5/8" @

Basement? 5402'; 7" @ 9065'

Mechanical Control Used To Adjust Lithology

FDL 200-3106

IES

Sample Quality

Fair

Remarks API No. 02-013-20005

Studied by No. 33

5-74

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MECHANICAL LOGS

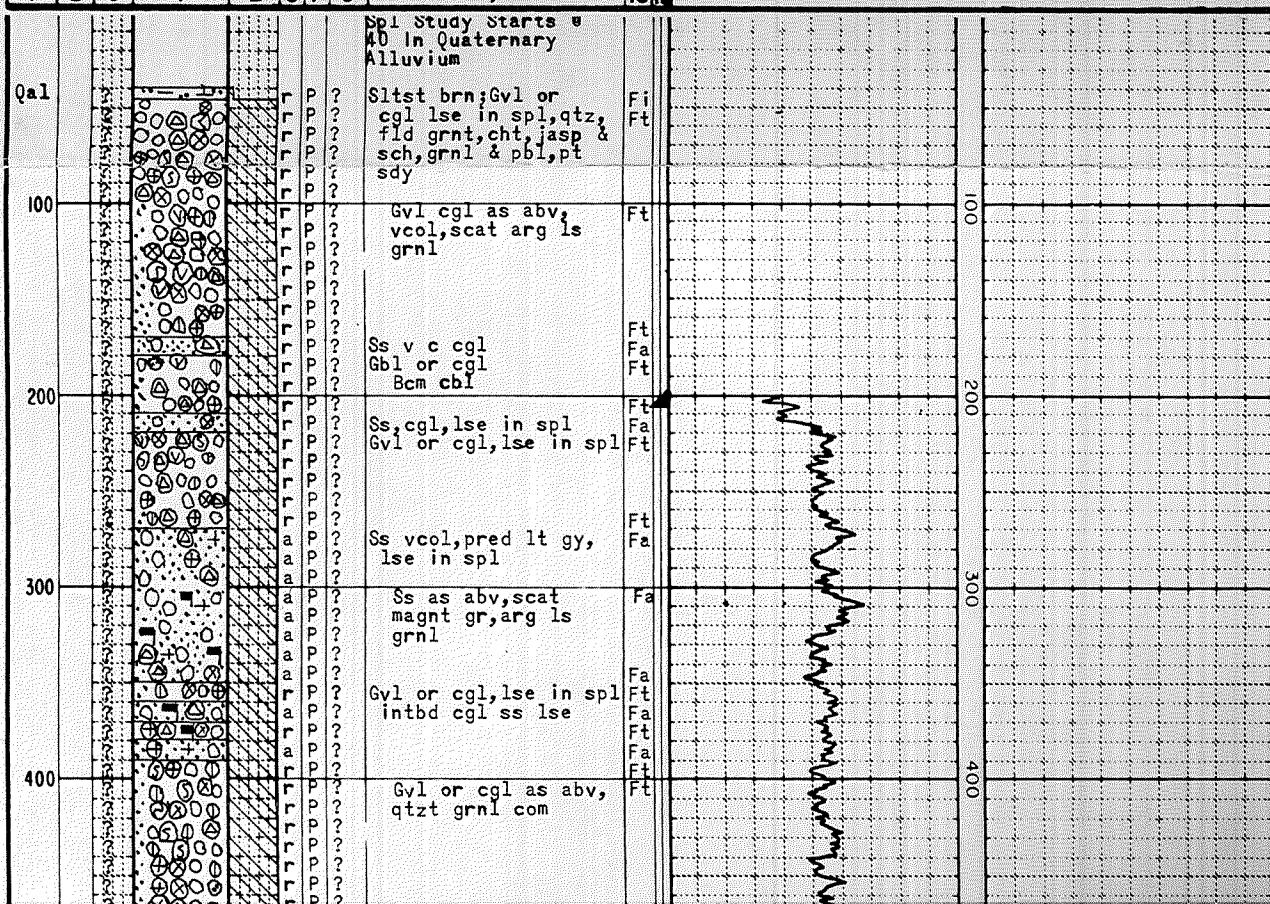
The log is shown for correlation
only and should not be used for
engineering computations.

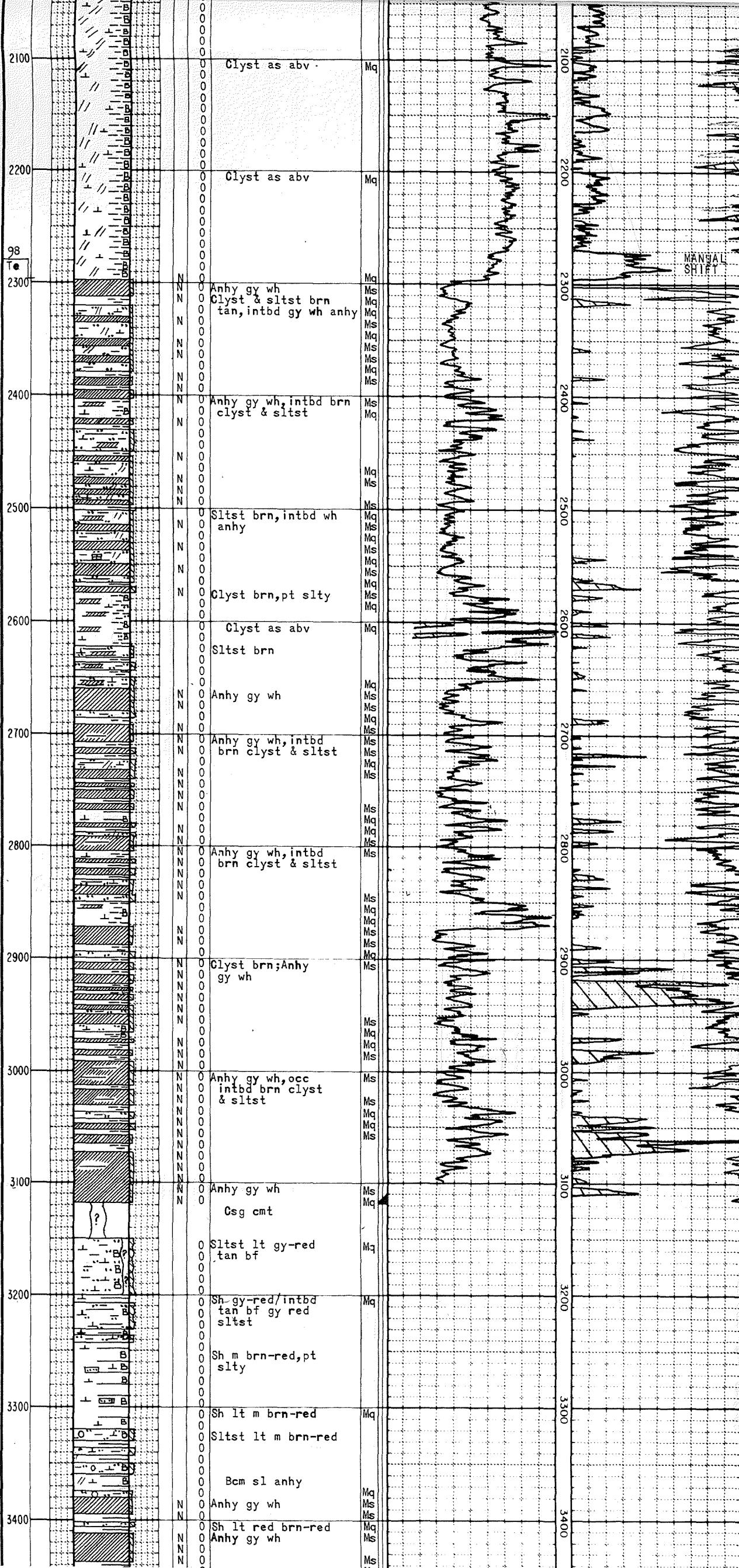
When Dual Induction log is used,
the resistivity curve on the original
E-Log may or may not have been
run on a Logarithmic scale.

Type Fluid in Hole: S.G.M.

Bit Size: 17 1/2"

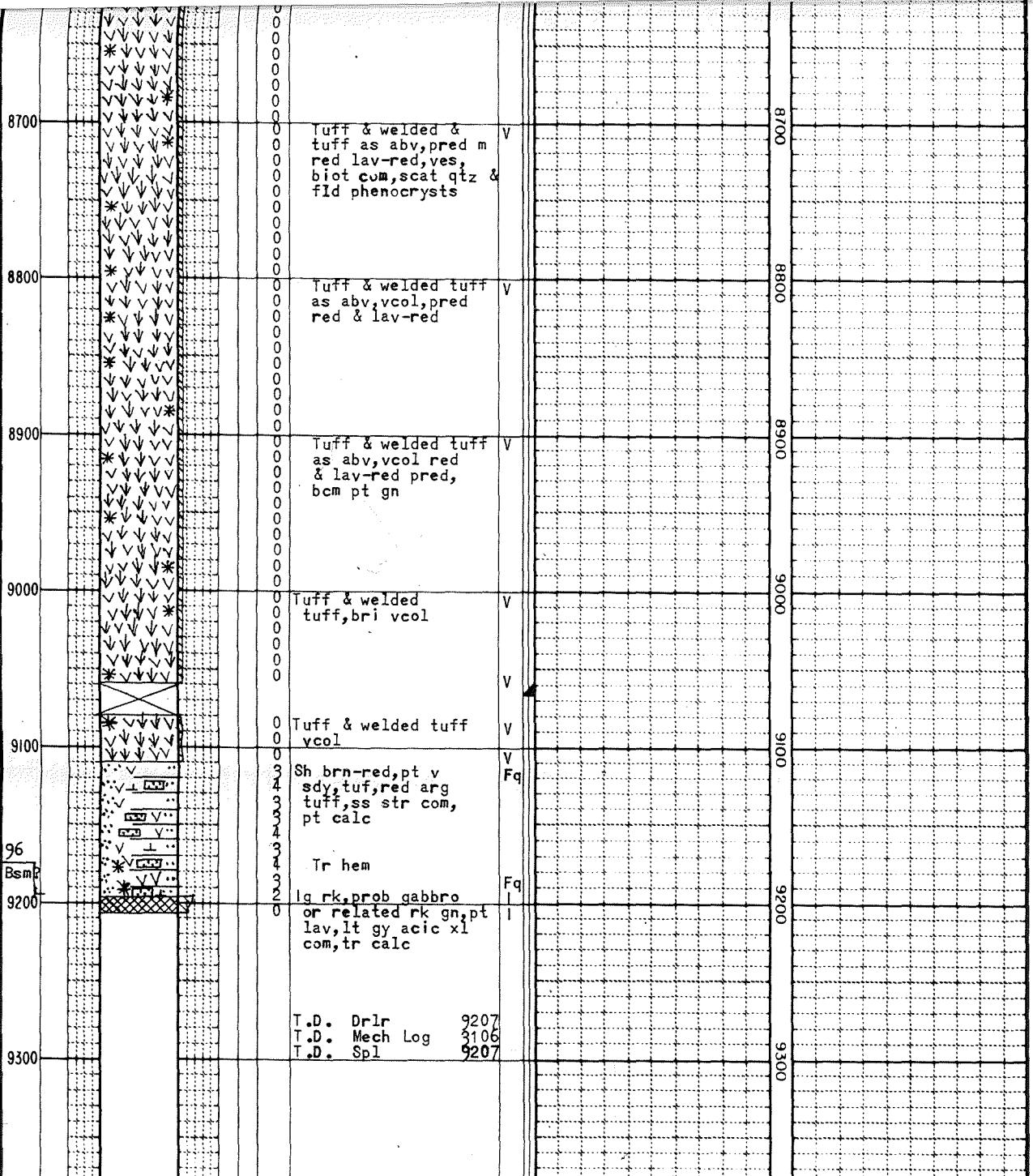
FORMATION TOPS FOOTNOTES, SHOWS	POROSITY TYPES	POROSITY GRADES	LITHOLOGY	CRYSTAL GRAIN OR FRAGMENT SIZE	ROUNDING DIAG TYPE	SORTING DIAG DEGREE	PERCENT OF FRAMEWORK	DESCRIPTION	SUGGESTED ENVIRONMENT
1	2	3	4	5	6	7	8	9	10





			0	anhy/prob anhy str, fltg sdy			
		N	2	Ss str Anhy lt gy wh Sltst brn red red,shy	Mq Ms Tq		
		N	0	Sh lt gn, pos tuf? tr gn cht, intbd brn-red sh			
3800	x	a	0	Anhy lt gy	Tq	3800	
	x	M	4	Sh v lt gn, pos tuf?	Fg		
	x	M	2	Sh red; Ss lt m red, sl calc, intbd red	Fi		
	x	M	1	sh	Fg		
	x	M	3	Anhy str	Fi		
	x	M	1		Fg		
	x	M	0		Fi		
3900	x	a	0	Sh brn-red	Fq	3900	
	x	M	4	Ss lt red	Fg		
	x	M	1	Sh brn-red	Fi		
	x	P	?	Ss m red, lse in spl Bcm v cgl	Fi		
	x	P	?		Fa		
	x	P	0	Sh brn-red/gy wh cly com, pos tuf?	Fq		
4000	x	a	0	Tuff gy wh; Sh brn-red, pt sdy	V	4000	
	x	P	?	Ss red, lse in spl Csg cmnt	Fq		
	x	P	0	Sltst & sh brn red, lse sd gr com	Fa		
4100	x	a	0		Fq	4100	
	x	P	1	Sh brn-red, pt sdy/ ss str	Fq		
	x	P	2	Ss m red	Fa		
	x	P	?	Bcm cgl, pred lse in spl; Sh brn-red	Fi		
	x	P	?	Cgl vcol, lse in spl, volc rk grnl com occ	Fi		
	x	P	?	intbd brn-red sh	Ft		
4200	x	a	0		Ft	4200	
	x	P	?	Cgl vcol lse in spl, tuff & welded tuff	Fi		
	x	P	?	grnl com, intbd	Ft		
	x	P	?	red bent & tuf sh	Fi		
4300	x	a	0		Ft	4300	
	x	P	?	Ggl as abv, pt v sdy	Fi		
	x	P	?		Ft		
	x	P	?		Fi		
	x	P	?		Ft		
4400	x	a	0		Fi	4400	
	x	P	?	Ss gy wh, lse in spl	Ft		
	x	P	3	Sh brn-red, bent, pt tuf?, sdy, pt	Fa		
	x	P	3	calc, scat frag of volc rk, grnl?	Fq		
	x	P	2	Tuf ss str			
4500	x	a	0			4500	
	x	P	6	Ss lt red, pt tuf, lse	Fg		
	x	P	0	Sh m brn-red	Fi		
	x	P	1	Pt sdy	Fq		
	x	P	2	Calc ss str			
	x	P	?	Ss lt gy red, lse in	Fq		
	x	P	?	spl; Bcm cgl	Fa		
	x	P	?	Sh brn-red; Ss lt red,	Fg		
	x	P	1	lse in spl	Fi		
	x	P	1	Sltst & sh brn-red,	Fa		
	x	P	?	sdy; Cgl lt gy red, lse in spl	Fq		
4600	x	a	0			4600	
	x	P	1	Sltst m red, tuf	Fi		
	x	P	1	Sh red	Fq		
	x	M	?	Ss lt gy red, lse in	Fq		
	x	M	1	spl	Fa		
4700	x	a	0		Fq	4700	
	x	M	?	Bent or bent wh cly, intbd red tuf sltst	Fq		
	x	P	1	& sh c ss str	Fq		
	x	P	2	Ss gy red, lse in spl	Fq		
	x	P	?	Ss lt gy red, lse in	Fq		
	x	P	1	spl; Sltst & sh	Fq		
	x	P	1	brn-red, sl tuf?, pt			
	x	P	1	bent			
4800	x	a	0			4800	
	x	B	0	Sh brn-red, bent	Fq		
	x	B	0	occ sdy sltst			
	x	B	0	str			
	x	B	0	Bent gy wh			
4900	x	a	0			4900	
	x	B	0	Sh brn-red, pt silt/sdy	Fq		
	x	B	0	sltst str			
	x	B	2	G ss str	Fq		
	x	P	2	Tuff red	V		
	x	P	6	Ss orng red, pos pt	Fq		
	x	P	7	tuf/scat tuff frag,	Fa		
	x	P	0	shy	Fq		
5000	x	a	0	Sh & siltst brn-red,			
	x	P	2	bent, calc, pt			
	x	P	6	sdy			
	x	P	4	Ss brn red, pos tuf, lrg tuff frag			
	x	P	0				
	x	W	6	Ss bri m brn-red			
5100	x	a	0	2 Sh bri m brn-red.	Fq	5100	

			welded tuff, lav pk Sh lav red, tuf	V Fq	
7000			Tuff vcol, pred lav	Fq V	
7100	a	M	Tuff as abv Ss orng red, lse in spl; Tuff lay pk, lse sd com in spl, cvg?	V V Fa V	
7100			Pt welded tuff		
7100			Tuff as abv, abnt cvg?	V	
7200	a	M	Tuff as abv, abnt cvg? or pos intbd red tuf sh, slstst & ss	V V Fq V Fq	
7300	a	M	Slstst & ss m dk red	Fq V Fq	
7300	a	M	Tuff pk Ss red, lse in spl Welded tuff & tuff, lav pk, abnt cvg	V Fq V	
7400	a	M	Bcm sdy/intbd tuf ss		
7500	a	M	Ss red, pred lse in spl	V Fi Fi	
7500	a	M	Tuff lav	V	
7600			Bcm dk lav gn		
7600	a	M	Tuff & tuf red sh	V V Fq Fq V Fq	
7700	a	M	Tuff red lav-red/ pos intbd sdy tuf sh, occ red ss lse in spl	V Fq Fa V	
7800	a	M	Tuff lav, intbd red tuf sh & red ss lse in spl	V Fi Fi V	
7800	a	M	Bcm welded tuff		
7900	a	M	Ss orng, lse in spl, cvg? Sh red, tuf /brec frag of gn	V Fi Fq	
7900	a	M	tuff, fld xl & gr com, sdy, scat blot Ss red, ark, lse intbd red sh, pt tuf	Fq Fq Fq Fq	
8000	a	P	Tuff pk; Ss red, lse intbd red tuf sh, biot com	FI	
8000	a	P	Tuff & welded tuff pk Ss red, lse, intbd pk tuff		
8100	a	P	Tuff pk	V V	
8100	a	P	Tuff pk	V	
8100	a	P	Abnt lse sd, cvg? Pt welded Prphy?		
8200	a	P	Ss lt red, lse in spl	V Fi	
8200	a	P	Tuff pk	V	
8300			Abnt lse sd, cvg? & bit metal, welded tuff, lav pk, prphy		
8300			Welded tuff & tuff/	V	



INFORMATION SUMMARY

SUMMARY OF ABBREVIATIONS ELEV. 1358 KB

QUATERNARY Qal Quaternary Alluvium Spl Start

TERTIARY T Tertiary 1080
Te Evaporites 2298
Tv Volcanics 6600

BASEMENT? Bsm? Basement? 9196

FOOTNOTES

1. This claystone & underlying evaporite section may be Pliocene Bouse formation.

DRILL STEM TESTS

None Reported

CORED INTERVALS

7890-7918

Core spl insufficient for detailed core study.

SUMMARY OF ABBREVIATIONS
ELEV. 1358 KB

QUATERNARY	Qal	Quaternary Alluvium	Spl Start
TERTIARY	T	Tertiary	1080
	Te	Evaporites	2298
	Tv	Volcanics	6600
BASEMENT?	Bsm?	Basement?	9196

FOOTNOTES

1. This claystone & underlying evaporite section may be Pliocene Bouse formation.

DRILL STEM TESTS

None Reported

CORED INTERVALS

7890-7918

Core spl insufficient for detailed core study.

GEO THERMAL KINETICS SYSTEMS CORP.
NO. 1 POWER RANCHES
NE SE 1-2S-6E
MARICOPA COUNTY, ARIZONA
LOG NO. D-4113

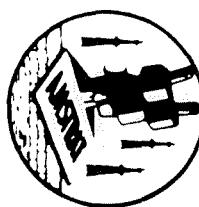
TRIM LINE ↘

Spot _____ NE. SE. _____ Sec. 1 _____ Twp. 2 S _____ Rge. 6 E _____

State ARIZONA County MARICOPA

Area _____ (W) _____

Amstrat Log No D-4113



Operator GEOTHERMAL KINETICS SYSTEMS CORP.

Well No NO. 1 POWER RANCHES

Formation Penetrated BASEMENT?

Date Issued 5-74

— AMERICAN STRATIGRAPHIC COMPANY —

524 E. YELLOWSTONE AVE 6280 E. 39 AVE BOX 2127 17 N 31 ST.
CASPER, WYOMING DENVER, COLORADO ANCHORAGE, ALASKA BILLINGS, MONTANA
82601 80207 99301 59101

TRIM LINE FOR 3"X5" FILE