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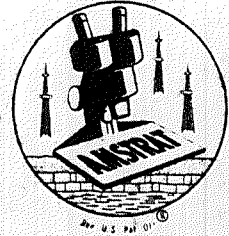
LOG NO. D-4335

NET FOOTAGE 10,264

WELL NAME GEOTHERMAL KINETICS SYSTEMS CORP.
NO. 2 POWER RANCHES

LOCATION SPOT SE NE SEC. 1 T. 2 S R. 6 E

STATE ARIZONA COUNTY MARICOPA



AREA (W) ELEV KB 1356 GR 1336

SPUD DATE May 13, 1973 STATUS Suspended

RIG RELEASE Not Available PRODUCING FM. PRODUCING INTV.

CASING 20" @ 203' 13 3/8" @ 2717' 9 5/8" @ 5400' TOTAL DEPTH 10,454

SAMPLE QUALITY Fair to poor; very poor where indicated OLDEST FM. Basement?

API NO. 02-013-20005

STUDIED by NO. 25 9-76

REMARKS

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FORMATION TOPS

15
Kbc

COLUMN 1

FOOTNOTES

1'

FAULTS



POROSITY TYPE

COLUMN 2

- X INTERCRYSTALLINE, GRANULAR, INTERFRAGMENTAL
- φ INTEROOLITIC, INTERPELLETOID
- V VUGGY voids greater than 1/16mm
- P PINPOINT voids less than 1/16mm
- ∩ MOLDIC
- e EARTHY low permeability
- o ORGANIC bridged, intrafossil
- F FRACTURE
- FENESTRAL vesicular, shrinkage cracks & birdseye texture

OIL SHOWS

STAIN PRESENT

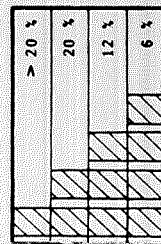
- Even staining, fluoresces in solvent
- Spotted staining, fluoresces in solvent
- Questionable
- D Dead, asphaltic, bitumen, etc.

NO STAIN PRESENT

- Oil zone (from production data)
- ▲ Gas zone (from production data)

POROSITY GRADE

COLUMN 4



ROCK TYPE

COLUMN 5

- BRECCIA
- CONGLOMERATE
- SANDSTONE
- SILTSTONE
- SHALE, gray
- SHALE, black
- SHALE, colored
- CLAYSTONE, gray
- CLAYSTONE, colored
- BENTONITE
- CHERT, bedded
- MARLSTONE, calcareous
- LIMESTONE, mudsupported (FW < 7)
- LIMESTONE, grainsupported (FW 7 or >)
- MARLSTONE, dolomitic
- DOLOMITE
- SIDERITE, LIMONITE, or HEMATITE
- ANHYDRITE, primary
- ANHYDRITE, secondary
- GYP SUM
- SALT
- COAL, gray and interbedded

- CHERT, tripolitic
- ARGILLACEOUS
- SHALE, laminae
- CARBONACEOUS FLAKES
- COAL, thin beds
- CEMENTING BITUMENOUS SUBSTANCE
- CALCAREOUS
- MARLSTONE, stringers-calc.
- LIMESTONE, stringers
- DOLOMITIC
- MARLSTONE, stringers-dol.
- DOLOMITE, stringers
- ANHYDRITIC
- ANHYDRITE, stringers
- GYP SIFEROUS
- GYP SUM, stringers
- SALT CAST or INFILL
- PHOSPHATE PELLETS
- FERRUGINOUS GRAINS or PELLETS
- FERRUGINOUS
- FERRUGINOUS, stringers
- NO DULES

- AMPHIPORA
- CORAL
- STROMATOPOROID
- BRYOZOA
- BRACHIOPOD
- OSTRACOD
- CEPHALOPOD
- GASTROPOD
- SCAPHOPOD
- BELEMNITE
- ECHINOID
- FOSSILS < 20%
- ORGANIC or NON ORGANIC
- OOLITES
- PISOLITE 2mm. or over
- PSEUDO OOLITES or PELLETS
- INTRACLASTS
- FRAMEWORK ALGAE
- SKELETAL

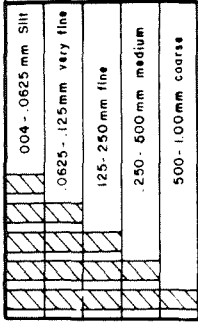
BRECCIA, fragment
 SILICEOUS
 CHERT, light and dark

CRINOID
 PELECYPOD
 BIOCLASTIC or FRAGMENTAL

L LITHOGRAPHIC
 CX CRYPTOCRYSTALLINE

CRYSTAL, GRAIN, or FRAGMENT SIZE

COLUMN 6



ROUNDING

COLUMN 7

A ANGULAR R ROUNDED
 a SUBANGULAR r SUBROUNDED

SORTING

COLUMN 8

W WELL 1 or 2 sizegrades
 M MEDIUM 3 or 4 sizegrades
 P POOR 5 or more sizegrades

FRAMEWORK

COLUMN 9

FRAMEWORK IS A RATIO BETWEEN CLASTIC MATERIAL OVER 1.6mm AND PRIMARY VOID-FILLER OR MATERIAL 1.6mm AND LESS. ORGANIC DEPOSITS (FOSSILS) ARE CONSIDERED AS FRAMEWORK WHETHER GROWING IN PLACE OR TRANSPORTED

0	5%	5	50%	C	100%	
1	10%	6	60%	?	QUESTIONABLE INTERPRETATION	
2	20%	7	70%	?	UNINTERPRETABLE	
3	30%	8	80%			
4	40%	9	90%			

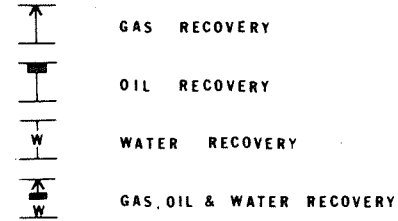
DIAGENESIS

COLUMN 10

TYPE	DEGREE
D DOLOMITIZATION	1 10%
M METASOMATISM	2 20%
R RECRYSTALLIZATION	3 30%
F FRACTURING	4 40%
L LEACHING	5 50%
	6 60%
SECONDARY CEMENTATION	7 70%
A ANHYDRITE	8 80%
S SILICA	9 90%
K KAOLIN	C 100%
C CARBONATE & OTHERS	

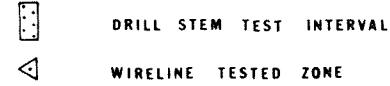
DRILL STEM & WIRELINE TEST RESULTS

COLUMN 11



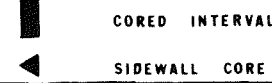
DRILL STEM & WIRELINE TEST INTERVALS

COLUMN 12

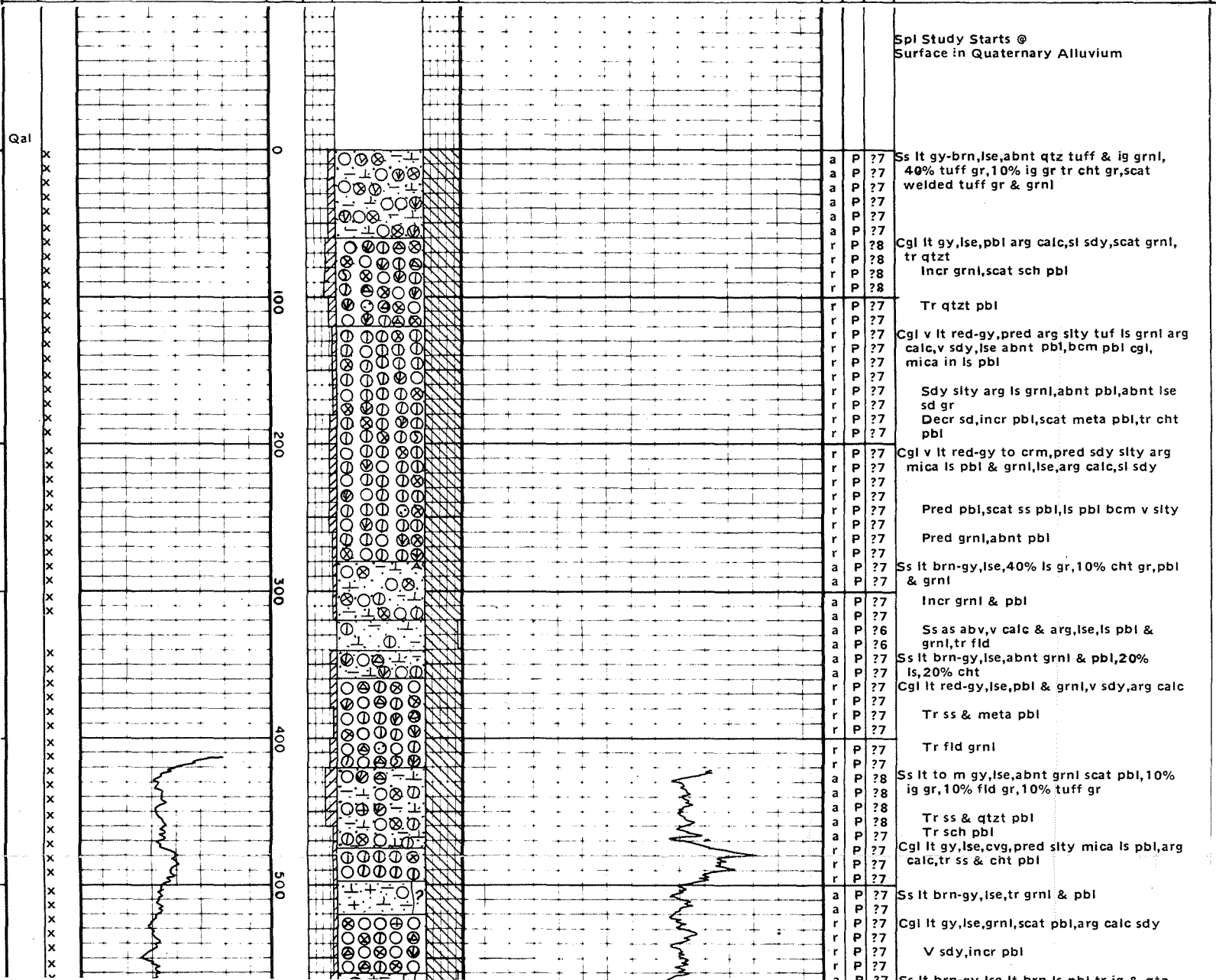


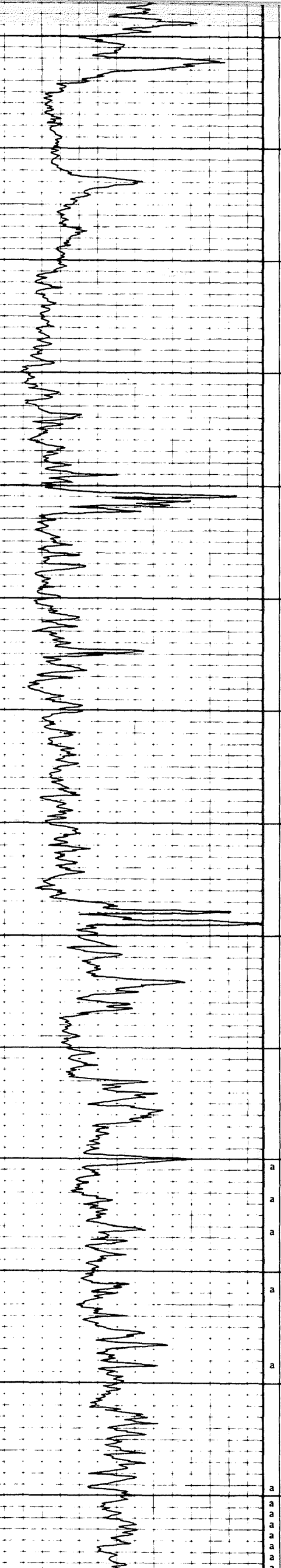
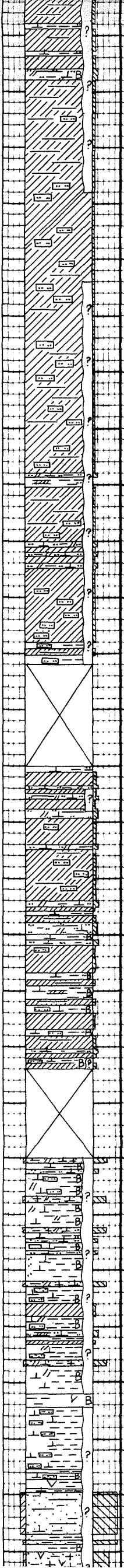
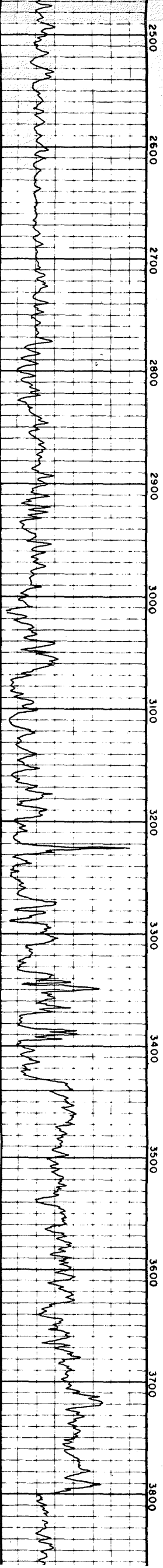
CORED INTERVALS

COLUMN 13



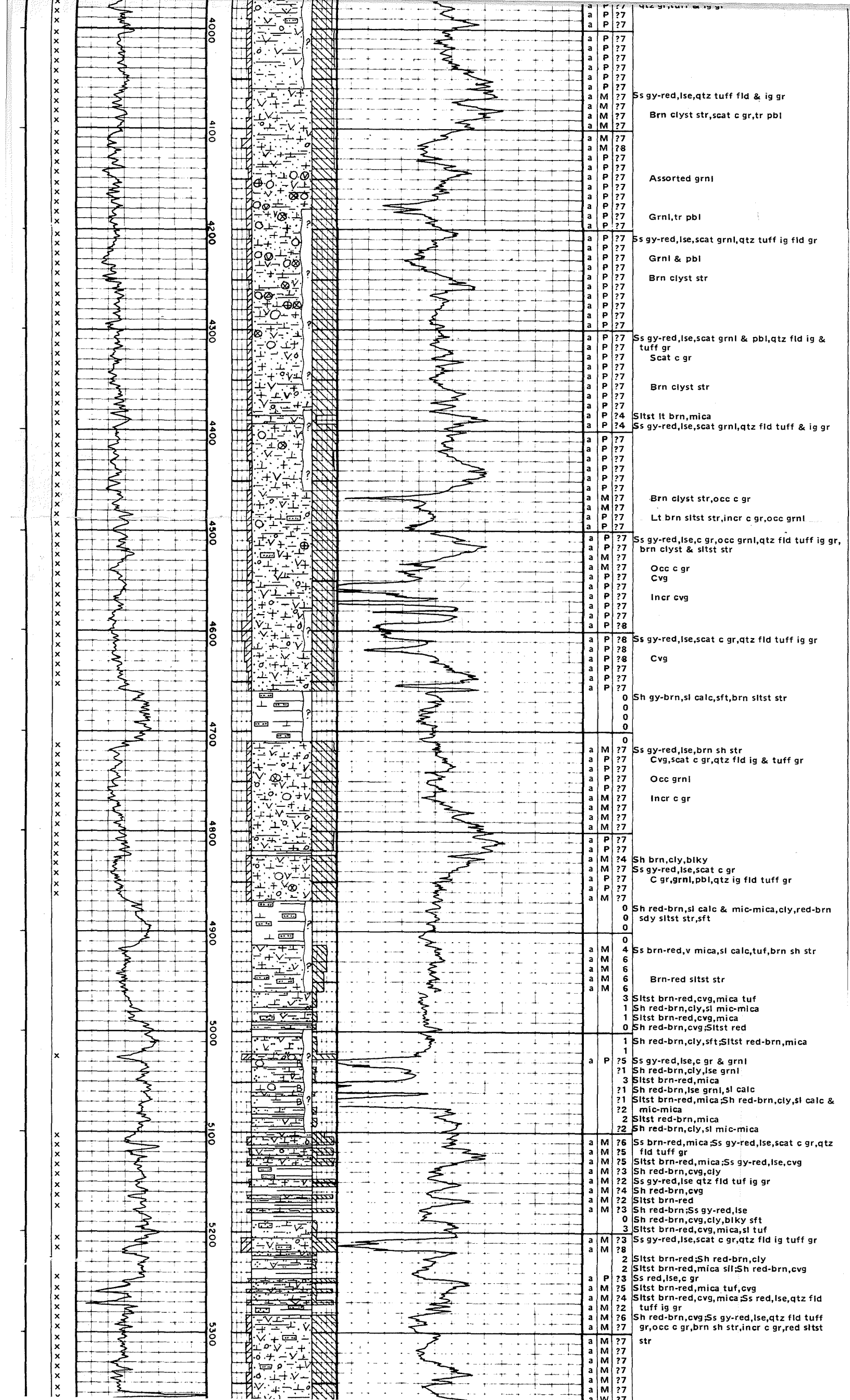
FORMATION TOPS FOOTNOTES	POROSITY TYPES	GAMMA RAY	OIL STAIN	POROSITY GRADES	LITHOLOGY	CRYSTAL GRAIN or FRAGMENT SIZE	NEUTRON	ROUNDING	SORTING	PERCENT of FRAMEWORK	DESCRIPTION	DIAGENESIS
1	2		3	4	5	6		7	8	9	10	11

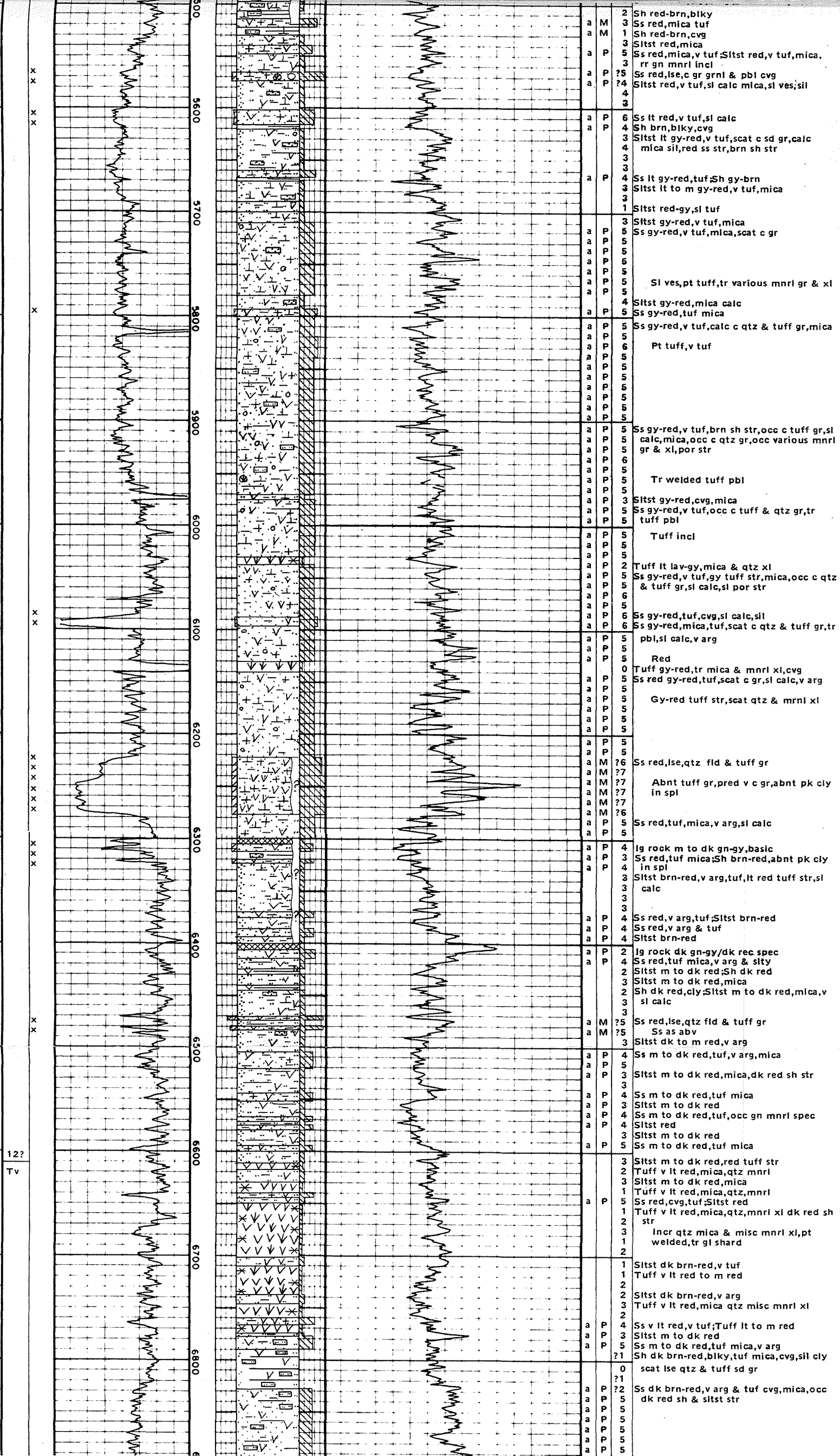




0	Anhy wh, tr pos sa-c
0	Clyst brn, bent; Anhy wh, brn clyst str
0	Clyst lt to m brn, bent
0	Anhy wh
0	Sltst brn, mica, brn clyst str
0	Anhy wh, intbd brn slty clyst str
0	Brn sltst str
0	Brn mica sltst str
0	Moderate cvg
0	Anh wh, brn sltst & clyst str
0	Pred lt gy csg cmt
0	Anhy wh, brn sltst str brn clyst str, pred lt gy csg cmt
0	Sltst lt brn, mica; Clyst lt to m brn
0	Anhy wh, brn clyst str, abnt lt gy csg cmt
0	Brn sltst str
0	Sltst lt brn; Anhy wh
0	Sltst lt brn; Anhy wh
0	Sltst lt brn
0	Anhy wh
0	Ltl brn sltst str
0	Clyst lt brn; Anhy wh
0	Clyst lt brn, brn sltst str
0	Clyst lt brn, bent; Anhy wh
0	Sltst lt brn
0	Anhy wh; Sltst lt brn
0	Anhy wh
0	Sltst lt brn, brn clyst str
0	Anhy wh
0	Sltst lt brn, mica; Anhy wh, lt brn clyst & sltst str
0	Sltst lt brn; Anhy wh
0	Clyst lt brn, bent; Anhy wh
0	Sltst lt brn, mica
0	Clyst lt brn; Sltst lt brn, mica
0	Anhy wh
0	Clyst lt red-brn
0	Anhy wh; Clyst lt brn, bent
0	Anhy gy-wh
0	Clyst lt brn
0	Anhy wh
0	Clyst lt brn, sl mica
0	Anhy gy-wh, brn clyst str
0	Sltst lt brn; Anhy wh
0	Clyst lt brn; Anhy wh
a M 3	Ss lt red, fld gr; Clyst lt brn
0	Sltst lt brn, mica; Clyst lt brn, tr wh
0	anhy incl
a M 4	Ss lt red-brn
0	Clyst lt to m brn, wh bent strg, wh
0	anhy incl
a M 4	Ss lt brn, mica, sl calc; Clyst lt brn
1	Sltst lt brn
?1	Clyst lt brn; Sltst lt brn
?1	Clyst lt to m brn, lse sd gr
a M ?1	Ss lt red, sl mica; Clyst lt to m red-brn
0	Anhy gy-wh
0	Clyst red-brn
0	Sltst red-brn, mica
0	Clyst red-brn; Anhy gy-wh
1	Clyst lt to m brn
a M 3	Ss lt red; Clyst lt to m brn
0	Clyst v lt gy v lt gn-gy tr olv, sl bent, pos
0	tuf, v sft
0	Clyst lt to m brn
0	Clyst v lt gy-gn, pos tuf, sft
1	Clyst brn, lt red ss str; Clyst v lt red, pos
tuf, v sft	
a M ?1	
a M ?7	Ss lt to m red, lse, qtz tuff & ig gr, brn
a M ?7	clyst str
a M ?7	
a M ?4	Clyst brn
a M ?2	Ss red, lse; Clyst red-brn
a M ?7	Ss red-brn, mica, sl calc, tuf & tuff gr, sil

x
x
x
x
x
x
x
x
x
x
x

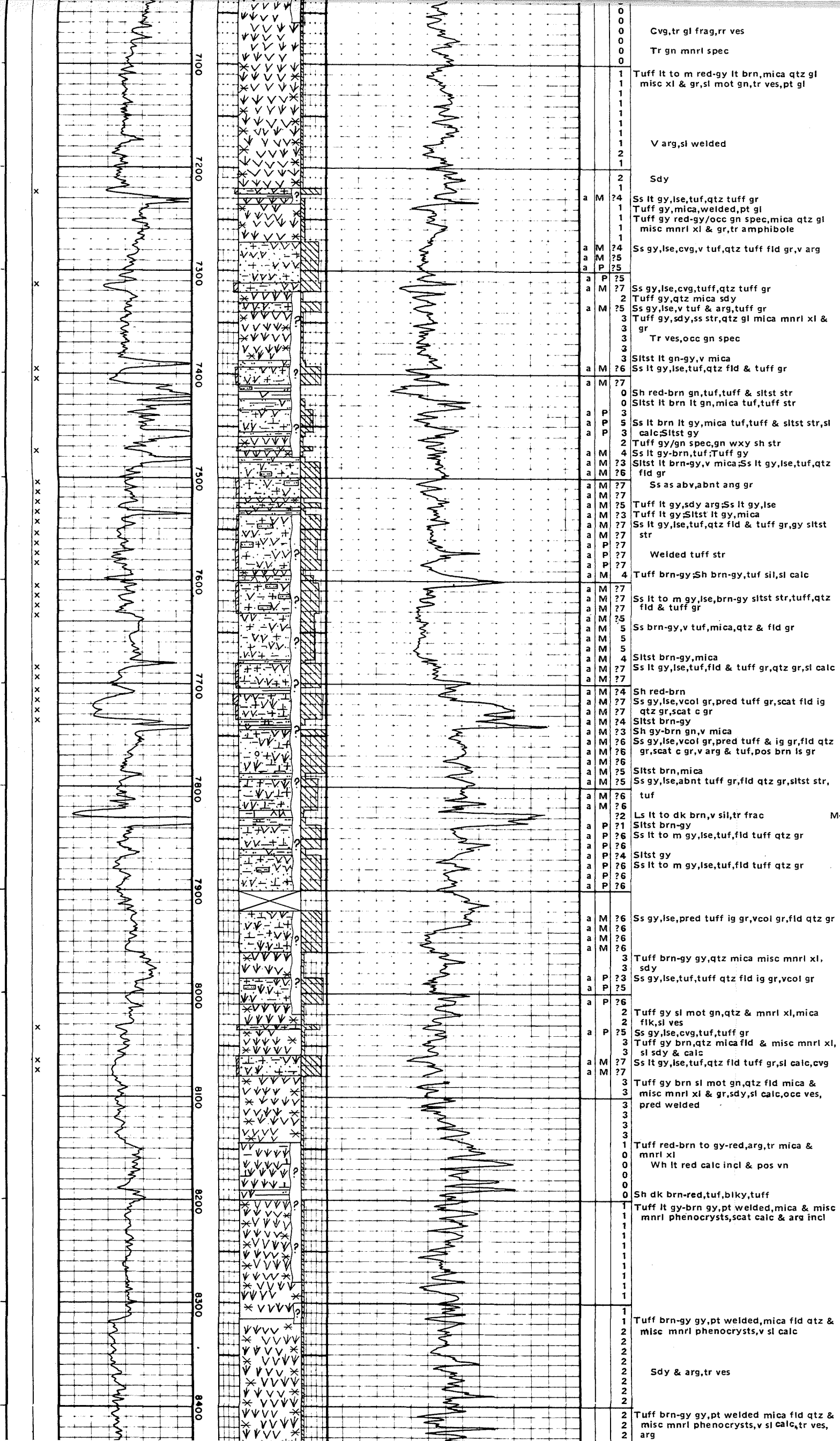




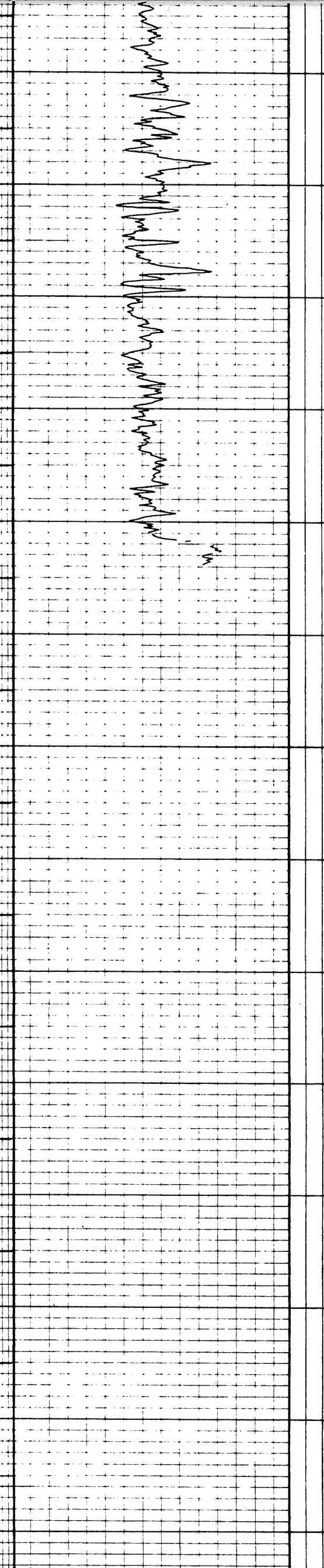
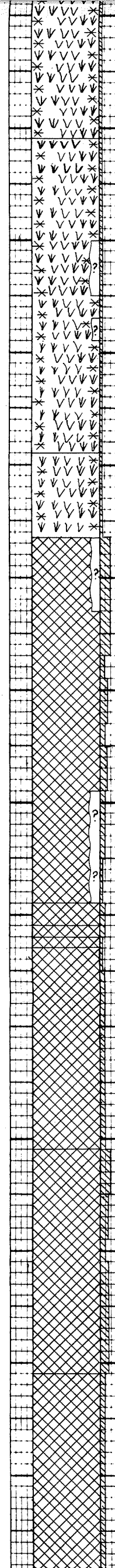
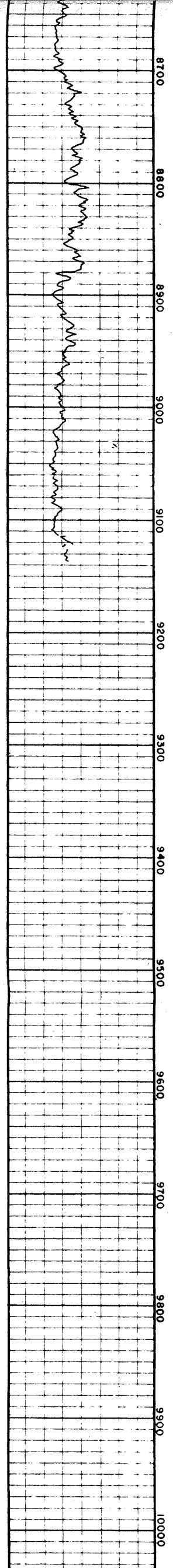
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800

a	M	2	Sh red-brn,blky
a	M	3	Ss red,mica tuf
a	M	1	Sh red-brn,cvg
a	P	3	Siltst red,mica
a	P	5	Ss red,mica,v tuf;Siltst red,v tuf,mica,rr gn mnrl incl
a	P	25	Ss red,lse,c gr grnl & pbl cvg
a	P	24	Siltst red,v tuf,sl calc mica,sl ves;sil
a	P	4	
a	P	6	Ss lt red,v tuf,sl calc
a	P	4	Sh brn,blky,cvg
a	P	3	Siltst lt gy-red,v tuf,scat c sd gr,calc mica sil,red ss str,brn sh str
a	P	4	Ss lt gy-red,tuf;Sh gy-brn
a	P	3	Siltst lt to m gy-red,v tuf,mica
a	P	3	
a	P	1	Siltst red-gy,sl tuf
a	P	3	Siltst gy-red,v tuf,mica
a	P	5	Ss gy-red,v tuf,mica,scat c gr
a	P	5	
a	P	5	
a	P	5	
a	P	5	Sl ves,pt tuff,tr various mnrl gr & xl
a	P	5	
a	P	4	Siltst gy-red,mica calc
a	P	5	Ss gy-red,tuf mica
a	P	5	Ss gy-red,v tuf,calc c qtz & tuff gr,mica
a	P	5	
a	P	5	Pt tuff,v tuf
a	P	5	
a	P	5	
a	P	5	
a	P	5	
a	P	5	Ss gy-red,v tuf,brn sh str,occ c tuff gr,sl calc,mica,occ c qtz gr,occ various mnrl gr & xl,por str
a	P	5	
a	P	5	Tr welded tuff pbl
a	P	5	
a	P	3	Siltst gy-red,cvg,mica
a	P	5	Ss gy-red,v tuf,occ c tuff & qtz gr,tr tuff pbl
a	P	5	
a	P	5	Tuff incl
a	P	5	
a	P	5	
a	P	2	Tuff lt lav-gy,mica & qtz xl
a	P	5	Ss gy-red,v tuf,gy tuff str,mica,occ c qtz & tuff gr,sl calc,sl por str
a	P	5	
a	P	5	
a	P	6	Ss gy-red,tuf,cvg,sl calc,sil
a	P	6	Ss gy-red,mica,tuf,scat c qtz & tuff gr,tr pbl,sl calc,v arg
a	P	5	
a	P	5	Red
a	P	0	Tuff gy-red,tr mica & mnrl xl,cvg
a	P	5	Ss red gy-red,tuf,scat c gr,sl calc,v arg
a	P	5	
a	P	5	Gy-red tuff str,scat qtz & mnrl xl
a	P	5	
a	P	5	
a	P	5	
a	M	26	Ss red,lse,qtz fld & tuff gr
a	M	27	
a	M	27	Abnt tuff gr,pred v c gr,abnt pk cly in spl
a	M	27	
a	M	26	
a	P	5	Ss red,tuf,mica,v arg,sl calc
a	P	5	
a	P	4	Ig rock m to dk gn-gy,basic
a	P	3	Ss red,tuf mica;Sh brn-red,abnt pk cly in spl
a	P	4	Siltst brn-red,v arg,tuf,lt red tuff str,sl calc
a	P	3	
a	P	3	
a	P	4	Ss red,v arg,tuf;Siltst brn-red
a	P	4	Ss red,v arg & tuf
a	P	4	Siltst brn-red
a	P	2	Ig rock dk gn-gy/dk rec spec
a	P	4	Ss red,tuf mica,v arg & sity
a	P	2	Siltst m to dk red;Sh dk red
a	P	3	Siltst m to dk red,mica
a	P	2	Sh dk red,cly;Siltst m to dk red,mica,v sl calc
a	P	3	
a	M	25	Ss red,lse,qtz fld & tuff gr
a	M	25	Ss as abv
a	P	3	Siltst dk to m red,v arg
a	P	4	Ss m to dk red,tuf,v arg,mica
a	P	5	
a	P	3	Siltst m to dk red,mica,dk red sh str
a	P	3	
a	P	4	Ss m to dk red,tuf mica
a	P	3	Siltst m to dk red
a	P	4	Ss m to dk red,tuf,occ gn mnrl spec
a	P	4	Siltst red
a	P	3	Siltst m to dk red
a	P	5	Ss m to dk red,tuf mica
a	P	3	Siltst m to dk red,red tuff str
a	P	2	Tuff v lt red,mica,qtz mnrl
a	P	3	Siltst m to dk red,mica
a	P	1	Tuff v lt red,mica,qtz,mnrl
a	P	5	Ss red,cvg,tuf;Siltst red
a	P	1	Tuff v lt red,mica,qtz,mnrl xl dk red sh str
a	P	2	
a	P	3	Incr qtz mica & misc mnrl xl,pt welded,tr gl shard
a	P	1	
a	P	2	Siltst dk brn-red,v tuf
a	P	1	Tuff v lt red to m red
a	P	2	
a	P	2	Siltst dk brn-red,v arg
a	P	3	Tuff v lt red,mica qtz misc mnrl xl
a	P	2	
a	P	4	Ss v lt red,v tuf;Tuff lt to m red
a	P	3	Siltst m to dk red
a	P	5	Ss m to dk red,tuf mica,v arg
a	P	1	Sh dk brn-red,blky,tuf mica,cvg,sil cly scat lse qtz & tuff sd gr
a	P	21	
a	P	22	Ss dk brn-red,v arg & tuf cvg,mica,occ dk red sh & siltst str
a	P	5	
a	P	5	
a	P	5	
a	P	5	
a	P	5	

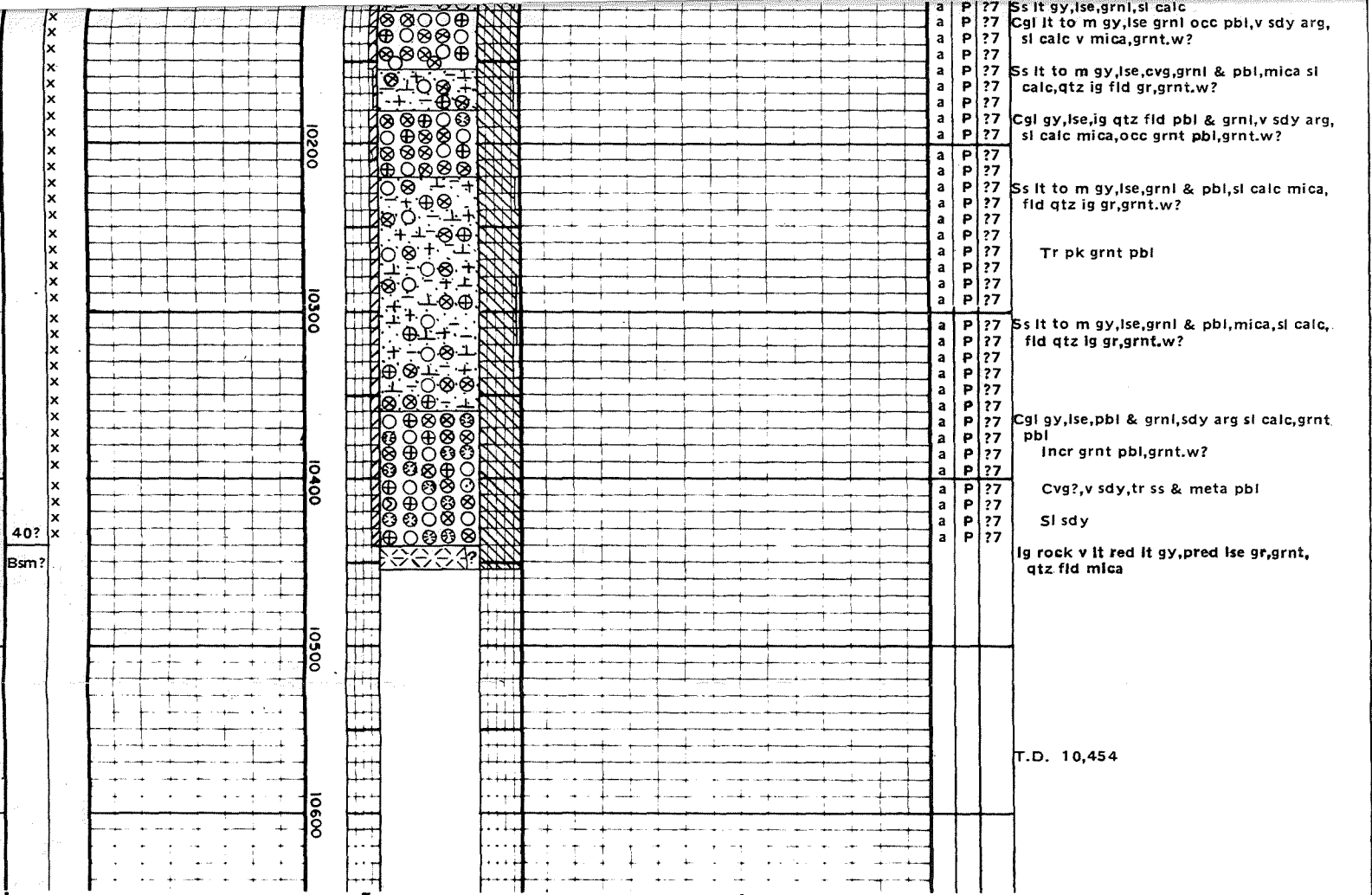
12?
Tv



0000 Cvg, tr gl frag, rr ves
 0000 Tr gn mnrl spec
 1111 Tuff lt to m red-gy lt brn, mica qtz gl
 1111 misc xl & gr, sl mot gn, tr ves, pt gl
 1111 V arg, sl welded
 21 Sdy
 a M 24 Ss lt gy, lse, tuf, qtz tuff gr
 11 Tuff gy, mica, welded, pt gl
 11 Tuff gy red-gy/occ gn spec, mica qtz gl
 11 misc mnrl xl & gr, tr amphibole
 a M 24 Ss gy, lse, cvg, v tuf, qtz tuff fld gr, v arg
 a M 25
 a P 25
 a M 27 Ss gy, lse, cvg, tuff, qtz tuff gr
 2 Tuff gy, qtz mica sdy
 a M 25 Ss gy, lse, v tuf & arg, tuff gr
 3 Tuff gy, sdy, ss str, qtz gl mica mnrl xl &
 3 gr
 3 Tr ves, occ gn spec
 3 Sltst lt gn-gy, v mica
 a M 26 Ss lt gy, lse, tuf, qtz fld & tuff gr
 a M 27
 0 Sh red-brn gn, tuf, tuff & sltst str
 0 Sltst lt brn lt gn, mica tuf, tuff str
 a P 3
 a P 5 Ss lt brn lt gy, mica tuf, tuff & sltst str, sl
 calc, Sltst gy
 2 Tuff gy/gn spec, gn wxy sh str
 a M 4 Ss lt gy-brn, tuf, Tuff gy
 a M 23 Sltst lt brn-gy, v mica, Ss lt gy, lse, tuf, qtz
 fld gr
 a M 26
 a M 27 Ss as abv, abnt ang gr
 a M 27
 a M 25 Tuff lt gy, sdy arg, Ss lt gy, lse
 a M 23 Tuff lt gy, Sltst lt gy, mica
 a M 27 Ss lt gy, lse, tuf, qtz fld & tuff gr, gy sltst
 str
 a P 27
 a P 27 Welded tuff str
 a M 4 Tuff brn-gy, Sh brn-gy, tuf sil, sl calc
 a M 27
 a M 27 Ss lt to m gy, lse, brn-gy sltst str, tuff, qtz
 fld & tuff gr
 a M 25
 a M 5 Ss brn-gy, v tuf, mica, qtz & fld gr
 a M 5
 a M 4 Sltst brn-gy, mica
 a M 27 Ss lt gy, lse, tuf, fld & tuff gr, qtz gr, sl calc
 a M 27
 a M 24 Sh red-brn
 a M 27 Ss gy, lse, vcol gr, pred tuff gr, scat fld ig
 qtz gr, scat c gr
 a M 24 Sltst brn-gy
 a M 23 Sh gy-brn gn, v mica
 a M 26 Ss gy, lse, vcol gr, pred tuff & ig gr, fld qtz
 gr, scat c gr, v arg & tuf, pos brn ls gr
 a M 26
 a M 25 Sltst brn, mica
 a M 25 Ss gy, lse, abnt tuff gr, fld qtz gr, sltst str,
 tuf
 a M 26
 a M 22 Ls lt to dk brn, v sil, tr frac
 a P 21 Sltst brn-gy
 a P 26 Ss lt to m gy, lse, tuf, fld tuff qtz gr
 a P 26
 a P 24 Sltst gy
 a P 26 Ss lt to m gy, lse, tuf, fld tuff qtz gr
 a P 26
 a M 26 Ss gy, lse, pred tuff ig gr, vcol gr, fld qtz gr
 a M 26
 a M 26
 a P 3 Tuff brn-gy gy, qtz mica misc mnrl xl,
 sdy
 a P 23 Ss gy, lse, tuf, tuff qtz fld ig gr, vcol gr
 a P 25
 a P 26
 2 Tuff gy sl mot gn, qtz & mnrl xl, mica
 fld, sl ves
 a P 25 Ss gy, lse, cvg, tuf, tuff gr
 3 Tuff gy brn, qtz mica fld & misc mnrl xl,
 sl sdy & calc
 a M 27 Ss lt gy, lse, tuf, qtz fld tuff gr, sl calc, cvg
 a M 27
 3 Tuff gy brn sl mot gn, qtz fld mica &
 3 misc mnrl xl & gr, sdy, sl calc, occ ves,
 pred welded
 3
 3
 1 Tuff red-brn to gy-red, arg, tr mica &
 0 mnrl xl
 0 Wh lt red calc incl & pos vn
 0
 0 Sh dk brn-red, tuf, blk, tuff
 1 Tuff lt gy-brn gy, pt welded, mica & misc
 1 mnrl phenocrysts, scat calc & arg incl
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1 Tuff brn-gy gy, pt welded, mica fld qtz &
 2 misc mnrl phenocrysts, v sl calc
 2
 2
 2
 2
 2
 2
 2
 2
 2 Sdy & arg, tr ves
 2
 2
 2
 2
 2 Tuff brn-gy gy, pt welded mica fld qtz &
 2 misc mnrl phenocrysts, v sl calc, tr ves,
 2 arg



2	Gn-gy brn-gy, tr wh calc xl vn, scat gn mnrl spec
2	Tr ves & mnrl cavity
1	Rr pyr
1	Tuff gn-gy gy, scat gn mnrl spec, fld mica
1	qtz & misc mnrl gr, scat calc incl & xl, pt welded
1	Tuff gy brn-gy, pred welded mica fld qtz, misc mnrl phenocryst, tr wh calc xl
1	Sl sdy
1	Tuff gy gn-gy brn-gy, occ gn mnrl spec, occ brec, sl calc, mica fld & misc mnrl xl & gr, pt welded
2	Welded
2	Pred welded
2	Tr wh calc xl
2	Tuff gy gn-gy, scat gn mnrl spec, fld, misc mnrl phenocryst, tr mica, scat calc incl, pred welded
2	Pt welded, tr ves & mnrl cavity
2	Sdy, pred lse in spl
3	Tuff gy gn-gy brn-gy, sdy, sd gr lse, ti mica, misc phenocryst, pt welded, scat gn mnrl & calc incl
2	Tuff gy-brn gy, scat gn mnrl incl, fld qtz mica misc mnrl phenocryst, sl calc, bcm sdy, sd gr pred lse
3	Ig rock gy mot gn & brn, abnt phenocryst, prob olvn fld amphibole, tr musc, calc, scat wh calc xl
2	Ig rock gy mot gn brn, prob olvn fld amphibole calc phenocryst, calc, scat gn spec
	Tr hornbd?
	Ig rock gy sl mot gn, prob olvn fld calc phenocryst, calc, cvg
	Ig rock gy, prob fld phenocryst, sl calc
	Ig rock lt to m gy/dk brn & dk gy phenocryst, calc
	Ig rock gy-gn-gy, tr phenocryst
	Ig rock dk red gn gy, phenocryst
	Ig rock lt to m gy/dk red-brn phenocryst sl calc, tr wh calc vn, tr olvn?, tr yel mica, v s dk gy spec com
	Gy tr dk red-brn phenocryst, incr olvn?
	Gn-gy occ olvn? & dk red-brn phenocryst
	Ig rock gn-gy, v s dk gy spec com, scat olvn? & dk red-brn phenocryst, tr calc xl & vn, tr pos frag, rr brn mica
	Wh calc vn pos in frac
	Ig rock m to dk brn-gy occ crm calc phenocryst & vn, v s dk brn spec com, tr frac, sl calc
	Ig rock brn-gy gn-gy gy, occ crm calc & misc phenocryst, sl calc
	Pred brn-gy
	Pred gn-gy, crm calc vn, v s dk gy spec com, tr olvn?
	Brn-gy gn-gy mot crm, calc, incr calc phenocryst, scat frac, abnt dk brn-red ig rock, sl mot dk gn
	Ig rock m to dk red-gy gn-gy dk brn-red sl mot crm, tr crm calc & misc mnrl phenocryst, tr frac & calc vn, sl calc, tr pos sks
	Tr Phenocryst
	Ig rock gn-gy, n calc, v s dk gy spec com, tr sks, tr misc phenocryst, pt fri, pos alt slitst?
	Ig rock gn-gy lt gn-gy, tr sks, pt fri, pos pt meta slitst?, scat slit-sz magnt gr, tr mica
	Gn-gy red-gy, tr calc & misc phenocryst bcm hd & n fri, tr frac, tr wh qtz vn, sl calc
	Ig rock m to dk gn-gy dk brn-red, tr sks, tr crm calc & misc phenocryst, sl calc, dk red-brn dk gy spec com, tr flt gouge



INFORMATION SUMMARY

SUMMARY OF ABBREVIATIONS ELEV. 1356 KB

QUATERNARY Qal	Quaternary Alluvium	Spl Start
TERTIARY		
T	Tertiary	1113
Te	Evaporites	2293
Tv	Volcanics	6612?
BASEMENT		
Bsm?	Basement?	10,440?

FOOTNOTES

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

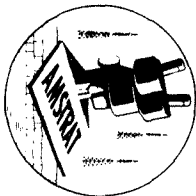
DRILL STEM TESTS

None Reported

CORED INTERVALS

None Reported

GEOHERMAL KINETICS SYSTEMS CORP. NO. 2 POWER RANCHES
SE NE 1-25-6E
MARICOPA COUNTY, ARIZONA
LOG NO. D-4335



Spot SE 1

State _____

Operator _____
Well No. _____
Formation Penetrated _____
Date Issued 9-76

AMERICAN S

5241 WILLOWSTONE AVE
CASPER, WYOMING 82601
6280 E 39 AV
DENVER, COLORADO 80207