Placid Oil WXC - Barton #1

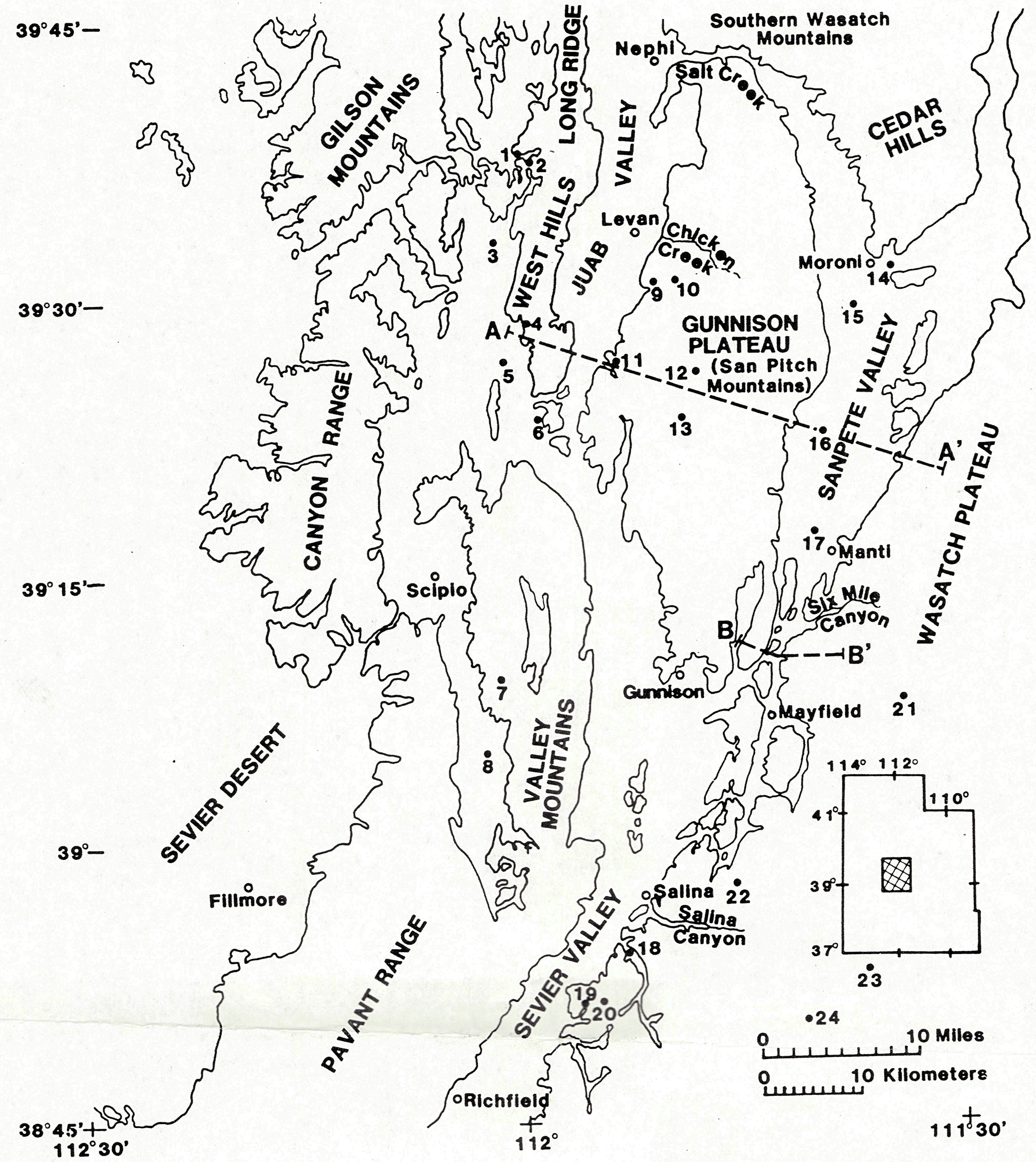


Figure 1. Index map of central Utah. Localities referred to in text are shown. A-A' is line of cross section in Figure 14; B-B' is line of cross section in Figure 13. Wells listed in Table 1 are located by number.

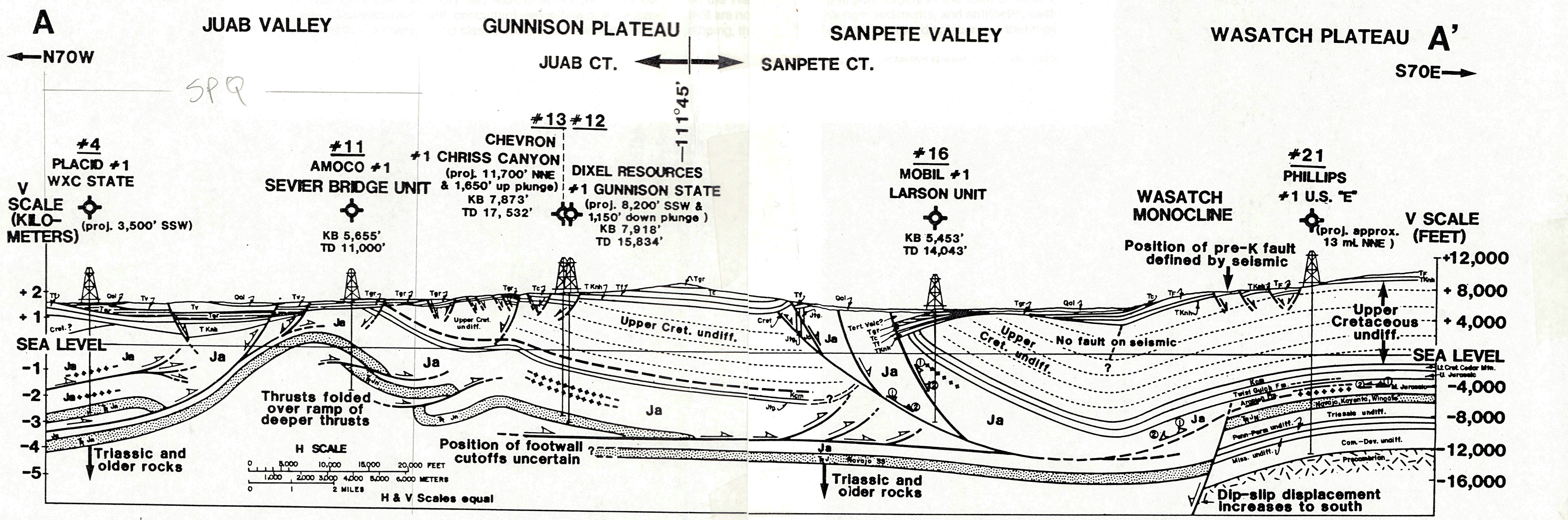


Figure 14. Cross section from the Wasatch Plateau to West Hills, showing subsurface structural geometry based on surface geology, drill hole data, seismic lines, and gravity surveys. Wells #11 and #16 are on line of section A-A' shown in Figure 1. Double-barbed arrows indicate two senses of fault displacement; thrusting preceded normal faulting. The fault at the east end of the cross section, passing under the Wasatch Plateau, follows the salt horizon in the Arapien (Carmel to east); it is interpreted as having two senses of fault displacement.

 (Hintze + Davis, 2003)

Number on index map: 79-2

Operator: Placid Oil Company

Well name: WXC Barton #1

USGS 1:24,000 (7½-minute) quadrangle: ~~Skinner Peaks~~ HKCSW

Location: NW¼ SE¼ section 32, T. 16 S., R. 1 W., Juab County

Total depth: 21,840 feet Completion date: 11-27-79

Well samples on file at Utah Geological Survey Core Research Center: Yes

Log reference: John E. Welsh, stratigrapher, in 1979, using samples and gamma-ray log.

Formation/unit tops (feet)			Thicknesses drilled (feet)	Douge
0	Surficial and volcanic rocks	Q ≈ 100, S = 920 →	(Q+S 300	
300	Copperopolis volcanic rock		S 720	
1,020	Packard tuff		4 170	1,715 1,641
1,190	Tuffaceous deposits	3/2 = 150' 1 = 375' ?	3/2/1? 525	
	UNCONFORMITY ← ?			
1,715	Green River Formation		1,215	742
2,930	Flagstaff Formation		1,520	334?
	UNCONFORMITY			
4,450	Arapien Shale/Twist Gulch Fm		1,885	2326
6,335	upper Twin Creek Limestone/Carmel Fm		1,217	
7,552	Twin Creek Limestone, Watton Canyon Mbr		143	
7,695	Twin Creek Limestone, Boundary Ridge Mbr		159	
7,854	Twin Creek Limestone, Rich Mbr		164	
8,018	Twin Creek Limestone, Sliderock Mbr		104	
8,122	Twin Creek Limestone, Gypsum Spring Mbr		150	
8,272	Navajo Sandstone		1,243	
9,515	Ankareh Fm/Chinle Fm - sh, sltst, ss		2,185	
11,700	"Shinarump" {Cg Mbr of Chinle} - ss		60	
11,760	Moenkopi Fm, upper red siltstone mbr		1,260	
13,020	Moenkopi Fm, Shnabkaib Mbr - marine strata		1,185	
14,205	Moenkopi Fm, middle red siltstone mbr		355	
14,560	Moenkopi Fm, Virgin Limestone Mbr		1,150	
15,710	Moenkopi Fm, lower red siltstone mbr		355	
16,065	Moenkopi Fm, limestone tongue		115	
16,180	Moenkopi Fm, lower red siltstone mbr		970	
17,150	Moenkopi Fm, Sinbad Dol {Ls} Mbr		60	
17,210	Moenkopi Fm, Black Dragon Mbr		470	
17,680	Moenkopi Fm, Timpoweap Dolo {Mbr}		80	
17,760	Black Box Dolomite (Permian)		130	
17,890	Queantoweap Sandstone		430	
18,320	Pakoon Dolomite		740	
19,060	Gardison Dolo {Ls} (Mississippian)		340	
19,400	Fitchville Dolomite {Fm}		200	
19,600	Pinyon Peak Fm {Ls} (Devonian)		385	
19,985	Crystal Pass Limestone {Guilmette}		465	
20,450	Simonson Dolomite		400	
20,850	Sevy Dolomite		450	
21,300	Laketown Dolomite (Silurian)		540	
21,840	T.D.			

Comments: This thick unfaulted sequence lies east of the Sevier-age Pavant thrust fault on the Paxton thrust sheet (DeCelles and others, 1995). It contains the westernmost complete record of Triassic and Jurassic strata at this latitude in central Utah. The Moenkopi members listed are a mixture of southwestern and eastern (Colorado Plateau) Utah terminology. Black Box is terminology for Permian carbonates on the Emery high in central Utah (Welsh and others, 1979). The Mississippian terminology of north-central Utah is used here. Crystal Pass is terminology from southwestern Utah. Permian terminology is from southern Utah and may not be appropriate.

4/19/04

Placid Oil Co. #1 WXC Barton

NE NW SE 32 16S 01E
Juab Co. Ut

Depths 300 - 1510
Box 1 of 44
UGSSL well No. 434

1st sample → 300' Lt gray ~~tuff~~ Tuff. ss (+cgl.) w/ dk gray to dk pink vol. clasts

400' "

500' "

600' Lt gray-green tuff ss (+cgl.)

mbr 1

700' "

800 "

900 "

1000 "

) greenish color distinctive of 1 mbr!!

1010-20

1020-30

} most samples are pink tuff w/ biotite, pumice — CCT but some have Qtz phenos too (looks like CCT)

(There are other volcanic rock frags + Qtz grains in samples)

CCT

180'

1110-20 Tuff matrix more Lt green

1190-1200 green tuff ss(+cgl)

mbr 1

(I didn't see what looked like mbrs 3 or 2 below CCT)

1300-10 green tuff SS

1400-10 "

1500-10 gray → green tuff SS

(end of Box 1)

(Box 2 1510-2820')

1600-10 "

1640-50 "

1650-60 "

Green River 1690-1700 start getting

1750-60 Tan LS + gray shale

↑ Fizzes

1690
1190
500 ft
mbr 1 below ...

1690
-300
1390 Volcanics

1690
1190
500

500
180
710
200
1590

1010
-300
710

Thickness		
Q=100?		
200' say	0 - 300	? No cuttings
710	300 - 1010	mbr 1
180	1010 - 1190	CCT
500	1120 - 1690	mbr 1

Volcanics ~1590'

Green River Fm.

[redacted]

Review microfiche from oil & Gas
@ DNR Library

Location:
1955' FEL
2039' FSL

S. 32, T16S, R1W

GL: 5084'

logs run by Schlumberger
~~7/16/80~~
~~- 5/19/80~~
~~- 6/2/80~~ & several geophysical logs

- Dipmeter logs are deep
≈ 17,000 - 20,000'

Table X. *Simplified log of exploratory drill hole in the northern portion of the Hells Kitchen Canyon SW quadrangle. Data from Douglas Sprinkel.*

(5/27/03)

Operator	Well Name	Location	Ground Elevation (feet)	Formation Name	Drilled Depth (feet)	Elevation (feet)	Thickness (feet)
Placid Oil	WXC-Barton #1	xxxxxx1/4 s. 32, T. 16 S., R. 1 W. HKCSW or Skinner Peaks quadrangle	5,084	Volcanics (Goldens Ranch)	0	5,084	1,641
				Green River	1,641	3,443	742
				Colton	2,383	2,701	334?
				Flagstaff (present?)	?	2,367?	?
				North Horn	2,717	2,367?	2,507
				Arapien	5,224	-140	2,326
				Twin Creek			
				Watton Canyon Mbr.	7,550	-2,466	145
				Boundary Ridge Mbr.	7,695	-2,611	157
				Rich Mbr.	7,852	-2,768	164
				Slide Rock Mbr.	8,016	-2,932	104
				Gypsum Springs Mbr.	8,120	-3,036	152
				Navajo (Nugget)	8,272	-3,188	1,246
				Moenkopi]Ankareh equiv.	9,518	-4,434	2,090
				thrust fault	11,608	-6,524	
				Twin Creek			
				Gypsum Springs Mbr.	11,608	-6,524	79
				Navajo (Nugget)	11,687	-6,603	443
				thrust fault	12,130	-7,046	
				Arapien (Leeds Creek)	12,130	-7,046	4,192
				thrust fault	16,322	-11,238	
				Arapien (Leeds Creek)	16,322	-11,238	2,988
				Twin Creek			
				Watton Canyon Mbr.	19,310	-14,226	140
				Boundary Ridge Mbr.	19,450	-14,366	150
				Rich Mbr.	19,600	-14,516	300
				Slide Rock Mbr.	19,900	-15,066	250
				Gypsum Springs Mbr.	20,150	-15,316	50
				Navajo (Nugget)	20,200	-15,366	400
				Moenkopi]Ankareh, Thaynes, Woodside equivalent	21,600	-15,766	?
				Kaibab] Park City equivalent	?	?	?
				thrust fault?	?	?	?
				Twin Creek			
				Rich Mbr.	21,845	-16,011	
				T.D.	21,845	-16,011	

Donald Clark

From: Jon King [jonking@utah.gov]
Sent: Thursday, April 15, 2004 9:53 AM
To: dclark@rouxinc.com
Subject: Fwd: Re: well cuttings needed

>>> Carolyn Olsen 04/14/04 08:14AM >>>
Bob/Jon,

We'll have it ready for him. We will be going to lunch to say goodby to Mike Kirschbaum so no one will be here from 11:30 until probably 1:00. I assume he also wants the microscope and various things.

Carolyn

>>> Bob Biek 04/14/04 07:54AM >>>
Carolyn,

We have a volunteer (Don Clark) coming in Monday, April 19th, and he needs to look at cuttings/core for the Placid Oil WXC-Barton #1 well (sec 32, T16S, R1W).

Can you get this set up for Monday? FYI - I'm out of the office today through Friday, but will cc this to Jon and you can contact him with any questions.

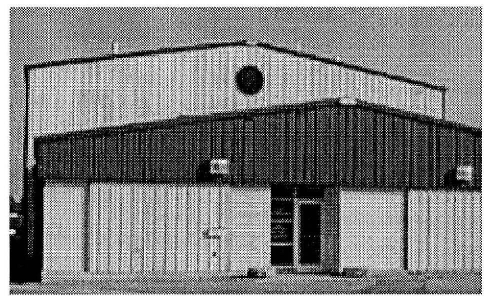
Thanks,

Bob

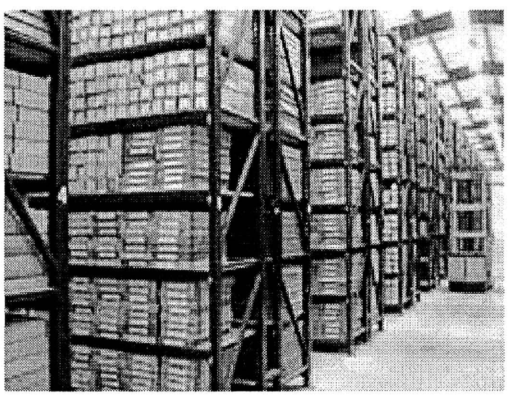
Utah Core Research Center

Cuttings & Samples || Open for Individual, Company, or Group Use
Data & Equipment || Use of Facility || Fee Schedule || Location || Trust Fund

The Utah Geological Survey's (UGS) Utah Core Research Center (formerly the UGS Sample Library), established in 1951 and now occupying a 12,000-square-foot warehouse, contains the region's only publicly available and most complete collection of geologic cuttings and core from Utah.



Cuttings & Samples



The facility currently holds cuttings from r
3,500 drill holes; core samples from more
drill holes; a collection of type oils from al
producing formations in the state; represen
samples from Utah's producing coal mines
miscellaneous samples of metallic mineral
industrial rocks and minerals, tar sands, oil
geothermal wells, and surface stratigraphic
Great Salt Lake sediment and brine sample
available.

Open for Individual, Company, or Group Use

The Utah Core Research Center provides a service to all interested individuals, uni
and companies requiring direct observation of actual samples for their research or investigations, and it acts as a repository for irreplaceable geologic samples which r
otherwise be discarded.

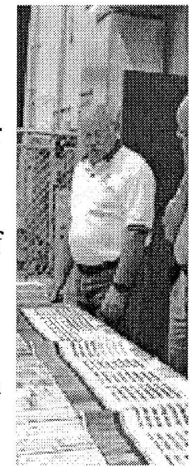
Used more and more often for education and research endeavors, the Utah Core Research Center offers core workshops for oil company training sessions, geologic program short courses, college thesis work, and sample evaluations for UGS/industry cooperative projects.

Data & Equipment

The staff has inventoried and re-indexed the entire collection.

The facility is equipped with an automated Order Selector and has large layout tabl
examination of core and samples. Equipment includes an on-site saw and drill pres:
binocular microscope, and UV light. A selection of reagents are available for simpl
chemical tests. Destructive testing is occasionally permitted.

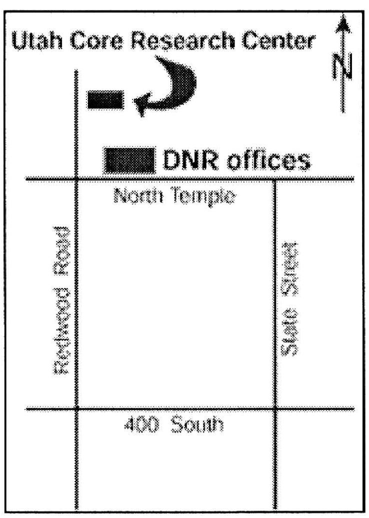
Use of the Facility



Samples may be examined on-site or borrowed for a period of up to six months, with extensions possible. There is a minimal charge for sample use (see Fee Schedule). In addition, many of the individual cores have been photographed, and these photo sets are available for a fee.

The Utah Core Research Center aggressively pursues acquisitions of new samples. Industry's response is gratifying and the number of donations increases each year. Donations of cores, core chips, cuttings, oils, or other pertinent data such as lithologic or geophysical logs, assay results, and reservoir or engineering data are encouraged. Any inquiries about the Core Centers collection and services are welcomed.

Location



For any additional information, contact Carolyn Olse1
at the address below.

Utah Core Research Center
240 North Redwood Road
P.O. Box 146100
Salt Lake City, UT 84114-6100
801.537.3359, Fax 801.537.3400
email: carolynolsen@utah.gov

Hours: 8 a.m. to 5 p.m., Monday through Friday
Please call before visiting.

ROCKY MOUNTAIN GEO-ENGINEERING COMPANY

Grand Junction, Colorado 32-16S-1W utah

					FROM	TO
COMPANY	PLACID OIL CO.	LOCATION	NWSE SEC 32 T 16S-R1W	DEPTH LOGGED	300'	
WELL	BARTON #1	COUNTY	UHAB	DATE LOGGED	3-30-79	
FIELD	WILD CAT	STATE	UTAH			
ELEVATION	5,084 GL. 5,116 KB	DRILLING FLUID	NON DISPERED LOW SOLIDS	ENGINEERS	MARK EDEN	BLAIK COPELAND

SHALE — DOLOMITE — COAL — OIL SHOW: TRACE — CORE NO. — NB - NEW BIT

SANDSTONE — CHERT — ANHY-GYP — FAIR — DST NO. — NR - NO RETURNS

LIMESTONE — SALT — GOOD — DEVIATION — CO - CIRCULATE OUT; NS - NO SAMPLE; TG - TRIP GAS

DRILLING RATE IN MIN./FT. | LITHOLOGY: INTERPRETIVE, DEPTH, PERCENTAGE | OIL SHOW T F G | CHROMATOGRAPH HYDROCARBONS IN PARTS PER MILLION M = 1000 ppm: TOTAL GAS, METHANE, ETHANE, PROPANE, BUTANES, PENTANES | REMARKS: WT VIS WL CKE PH

25 50 75 100 200 300 400 600 800 1200 1400

Depth: 200, 50, 300, 50, 400, 50, 500, 50, 600, 50, 700, 50, 800

Deviation: 0- 1¼° (300); 1¼° 0- (400); 1½° 0- (550); 0- 1½° (600); 0- 2° (700); 0- 2° (800)

Tops:

Pyroclastics at Surface

Green River — 1641

Colton — 2383

North Horn — 2717

Upper Carmel — 3336

Lower Carmel — 4149

Twin Creek — 7852

Navajo — 8120

Moen Kopi — 9518

Thrust Fault — 11,430

Twin Creek — 11,430

Navajo — 11,687

Thrust Fault — 12,375

Lower Carmel — 12,375

REMARKS:

LOGGING UNIT ON LOCATION
3-29-79 STARTED LOGGING
3-30-79

SET 205' SURFACE

clystn,wht,sft-frm,biotit
flakes,v ignius

ss,wht,lt grn,lt gy,vf
ignious
9.1 55 40 3/32

clystn,wht,buff,sft,bi
flaks,v ignious

pyro clastic volc ash,
grn,w/phonoyls of biot
olivine qtz

pyro clastic volc,lt
intrbed w biotite thr
frm-hrd,w/sfyt

volc ash,grn,ltgrn,v
frm-hrd

qtz,clr,wht,sm lt ylo

pyro clastic colc ash
intrbed w blck,redbrn
sm slty,smmedg

qtz aa

pyro clastic volc,gr
w/wht,volc ash,blck,
brn,lots of black mi
bed thru out

aa

pyro clastic,volc,
w/wht,aa
sm clystn,

qtz,med-lrg g.
volc ash,blck,red,

,rdbrn,brn,gy,mic,wxy,
blky,plty,slty,sl calc

AMERICAN STRATIGRAPHIC COMPANY

LOG NO.	D-6112	NET FOOTAGE	21,540
WELL NAME	PLACID OIL CO. NO. 1 WXC BARTON		
LOCATION	SPOT NW SE SEC. 32 T. 16 S R. 1 W		
STATE	UTAH COUNTY JUAB		
AREA	(W)	ELEV	KB 5116 GR 5084
SPUD DATE	March 30, 1979	STATUS	D & A
RIG RELEASE	June 2, 1980	PRODUCING FM. PRODUCING INTV.	
CASING	30" @ 205' 20" @ 2628' 13 3/8" @ 8732' 9 5/8" @ 13,936'	TOTAL DEPTH	21,845
SAMPLE QUALITY	Fair to poor, except where indicated	OLDEST FM.	Blue Belle
API NO.	43-023-30004	REMARKS	
STUDIED by NO.	97 5-31-88		

COLUMN 1

FORMATION TOPS 15/Kbc

FOOTNOTES 1*

FAULTS

COLUMN 2

POROSITY TYPE

- x INTERCRYSTALLINE, INTERGRANULAR, INTERFRAGMENTAL
- ϕ INTEROOLITIC, INTERPELLETOID
- v VUGGY voids greater than 1/16 mm
- p PINPOINT voids less than 1/16 mm
- MOLDIC
- e EARTHY low permeability
- o ORGANIC bridged, intrafossil
- f FRACTURE
- FENESTRAL vesicular, shrinkage cracks & birdseye texture

COLUMN 3

OIL SHOWS

STAIN PRESENT

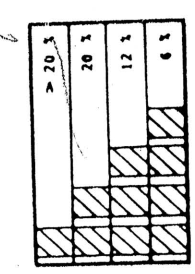
- ● Even staining, fluoresces in solvent
- ◑ Spotted staining, fluoresces in solvent
- ○ Questionable
- D Dead, asphaltic, bitumen, etc.

NO STAIN PRESENT

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

COLUMN 4

POROSITY GRADE



COLUMN 5

ROCK TYPE

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, primary
DOLOMITE, secondary
SIDERITE, LIMONITE, or HEMATITE
ANHYDRITE, primary
ANHYDRITE, secondary
GYPSUM
SALT
COAL, pure and interbedded
GLACIAL TILL
IGNEOUS, basic
IGNEOUS, acidic
TUFF
WELDED TUFF
METAMORPHIC

ACCESSORIES

1 symbol = 10% or 20%
2 symbols = 30% or 40%
3 symbols = 50%

SANDY
SANDSTONE, stringers
SILTY
SILTSTONE, stringers
PEBBLES > 2 mm.
SAND GRAINS > 1 to 2 mm.
ARGILLITE GRAIN

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
GYPSIFEROUS
GYPSUM, stringers
SALT CAST or INFILL
PHOSPHATE PELLETS
FERRUGINOUS GRAINS or PELLETS
FERRUGINOUS
FERRUGINOUS, stringers
NODULES
TUFFACEOUS

SYMBOLS USED FOR SIGNIFICANT OCCURRENCES
(may be less than 5%)

HEAVY, DARK MINERALS
GLAUCONITE
BENTONITE
PYRITE
KAOLIN
PLANT SPORES
PLANT REMAINS
FISH REMAINS
MINERAL CRYSTALS

ROCK BUILDERS

F = < 20% 1 symbol = 20 to 50%	2 symbols = 50 to 70% 3 symbols = 70 to 100%

ORGANIC

AMPHIPORA
CORAL
STROMATOPOROID
BRYOZOA
BRACHIOPOD
OSTRACOD
CEPHALOPOD
GASTROPOD
SCAPHOPOD
BELEMNITE
ECHINOID
FOSSILS < 20%

ORGANIC or NON ORGANIC

OOLITES
PISOLITE 2 mm. or over
PSEUDO OOLITES or PELLETS
INTRACLASTS

FRAMEWORK ALGAE

SKELETAL
OOTOID

NON-FRAMEWORK ALGAE

NON-DESCRIPT
LAMINATED

MISCELLANEOUS

KARST TOPOGRAPHY
NO SAMPLES
CANNOT INTERPRET, cavings etc
QUESTIONABLE INTERPRETATION

TEXTURES

EARTHY

FORMATION TOPS $\frac{15}{Kbc}$

FOOTNOTES 1*

FAULTS

COLUMN 1

POROSITY TYPE

COLUMN 2

X INTERCRYSTALLINE, INTERGRANULAR, INTERFRAGMENTAL

INTEROOLITIC, INTERPELLETOID

V VUGGY voids greater than 1/16 mm

P PINPOINT voids less than 1/16 mm

MOLDIC

e EARTHY low permeability

O ORGANIC bridged, intrafossil

F FRACTURE

FENESTRAL vesicular, shrinkage cracks & birdseye texture

OIL SHOWS

COLUMN 3

STAIN PRESENT

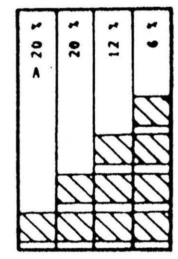
- Even staining, fluoresces in solvent
- Spotted staining, fluoresces in solvent
- Questionable
- D Dead, asphaltic, bitumen, etc.

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, primary
- DOLOMITE, secondary
- SIDERITE, LIMONITE, or HEMATITE
- ANHYDRITE, primary
- ANHYDRITE, secondary
- GYPSUM
- SALT
- COAL, pure and interbedded
- GLACIAL TILL
- IGNEOUS, basic
- IGNEOUS, acidic
- TUFF
- WELDED TUFF
- METAMORPHIC

ACCESSORIES

1 symbol = 10% or 20%
2 symbols = 30% or 40%
3 symbols = 50%

- SANDY
- SANDSTONE, stringers
- SILTY
- SILTSTONE, stringers
- PEBBLES > 2 mm.
- SAND GRAINS > 1 to 2 mm.
- ARGILLITE GRAIN
- FELDSPAR
- BRECCIA, fragment
- SILICEOUS
- CHERT, light and dark
- 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
- GYPSIFEROUS
- GYPSUM, stringers
- SALT CAST or INFILL
- PHOSPHATE PELLETS
- FERRUGINOUS GRAINS or PELLETS
- FERRUGINOUS
- FERRUGINOUS, stringers
- NODULES
- TUFFACEOUS

SYMBOLS USED FOR SIGNIFICANT OCCURRENCES
(may be less than 5%)

- HEAVY, DARK MINERALS
- GLAUCONITE
- BENTONITE
- PYRITE
- KAOLIN
- PLANT SPORES
- PLANT REMAINS
- FISH REMAINS
- MINERAL CRYSTALS

ROCK BUILDERS

F = < 20%	2 symbols = 50 to 70%
1 symbol = 20 to 50%	3 symbols = 70 to 100%

ORGANIC

- FORAMINIFERA
- CRINOID
- PELECYPOD
- BIOCLASTIC or FRAGMENTAL
- AMPHIPORA
- CORAL
- STROMATOPOROID
- BRYOZOA
- BRACHIOPOD
- OSTRACOD
- CEPHALOPOD
- GASTROPOD
- SCAPHOPOD
- BELEMNITE
- ECHINOID
- F FOSSILS < 20%

ORGANIC or NON ORGANIC

- OOLITES
- PISOLITE 2mm. or over
- PSEUDO OOLITES or PELLETS
- INTRACLASTS

FRAMEWORK ALGAE

- SKELETAL
- OOTOID

NON-FRAMEWORK ALGAE

- NON-DESCRIPT
- LAMINATED

MISCELLANEOUS

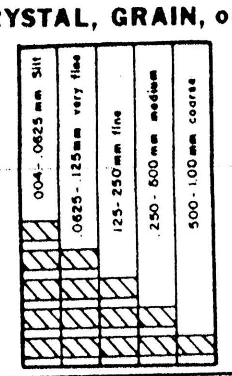
- KARST TOPOGRAPHY
- NO SAMPLES
- ? CANNOT INTERPRET, cavings etc
- ? QUESTIONABLE INTERPRETATION

TEXTURES

- e EARTHY
- C CHALKY
- 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 16mm AND PRIMARY VOID-FILLER OR MATERIAL 1 16mm AND LESS. ORGANIC DEPOSITS (fossils) ARE CONSIDERED AS FRAMEWORK WHETHER GROWING IN PLACE OR TRANSPORTED

0	0 to 5%	5	50%	C	100%
1	10%	6	60%	?5	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%
P	PRESSURE DEFORMATION	6	60%
SECONDARY CEMENTATION		7	70%
		8	80%
A	ANHYDRITE	9	90%
S	SILICA	C	100%
K	KAOLIN		
C	CARBONATE & OTHERS		

DRILL STEM & WIRELINE TEST RESULTS

COLUMN 11

- GAS RECOVERY
- OIL RECOVERY
- W WATER RECOVERY
- W GAS, OIL & WATER RECOVERY

DRILL STEM & WIRELINE TEST INTERVALS

COLUMN 12

- DRILL STEM TEST INTERVAL
- WIRELINE TESTED ZONE

CORED INTERVALS

COLUMN 13

- CORED INTERVAL
- SIDEWALL CORE

TOPS | TYPES | GAMMA RAY | GRADES | GRAIN or SIZE | BORE HOLE

FRAMEWORK IS A RATIO BETWEEN CLASTIC MATERIAL OVER [illegible] AND PRIMARY VOID-FILLER OR MATERIAL 1 16mm AND LESS. ORGANIC DEPOSITS (fossils) ARE CONSIDERED AS FRAMEWORK WHETHER GROWING IN PLACE OR TRANSPORTED

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

DRILL STEM TEST INTERVAL

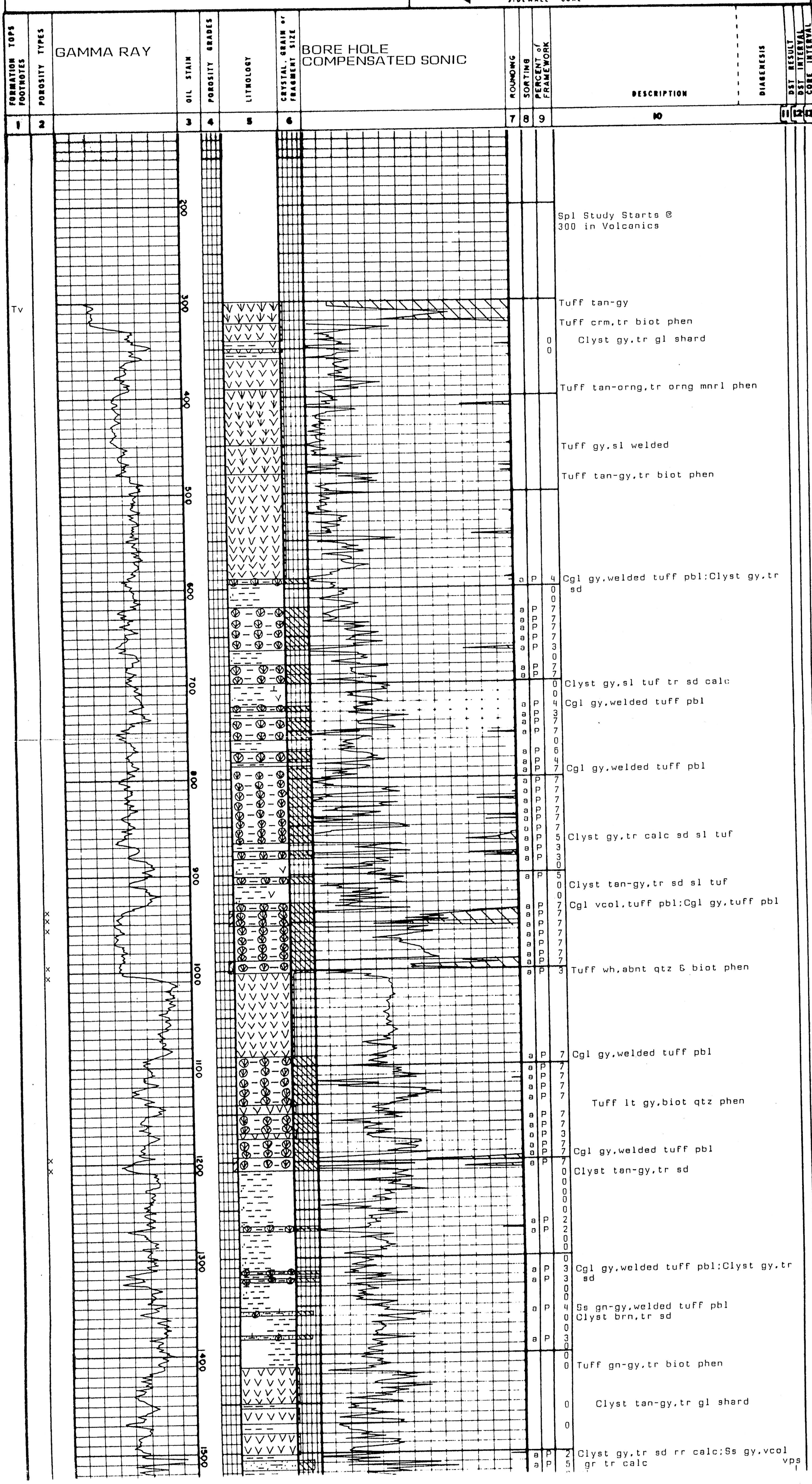
WIRELINE TESTED ZONE

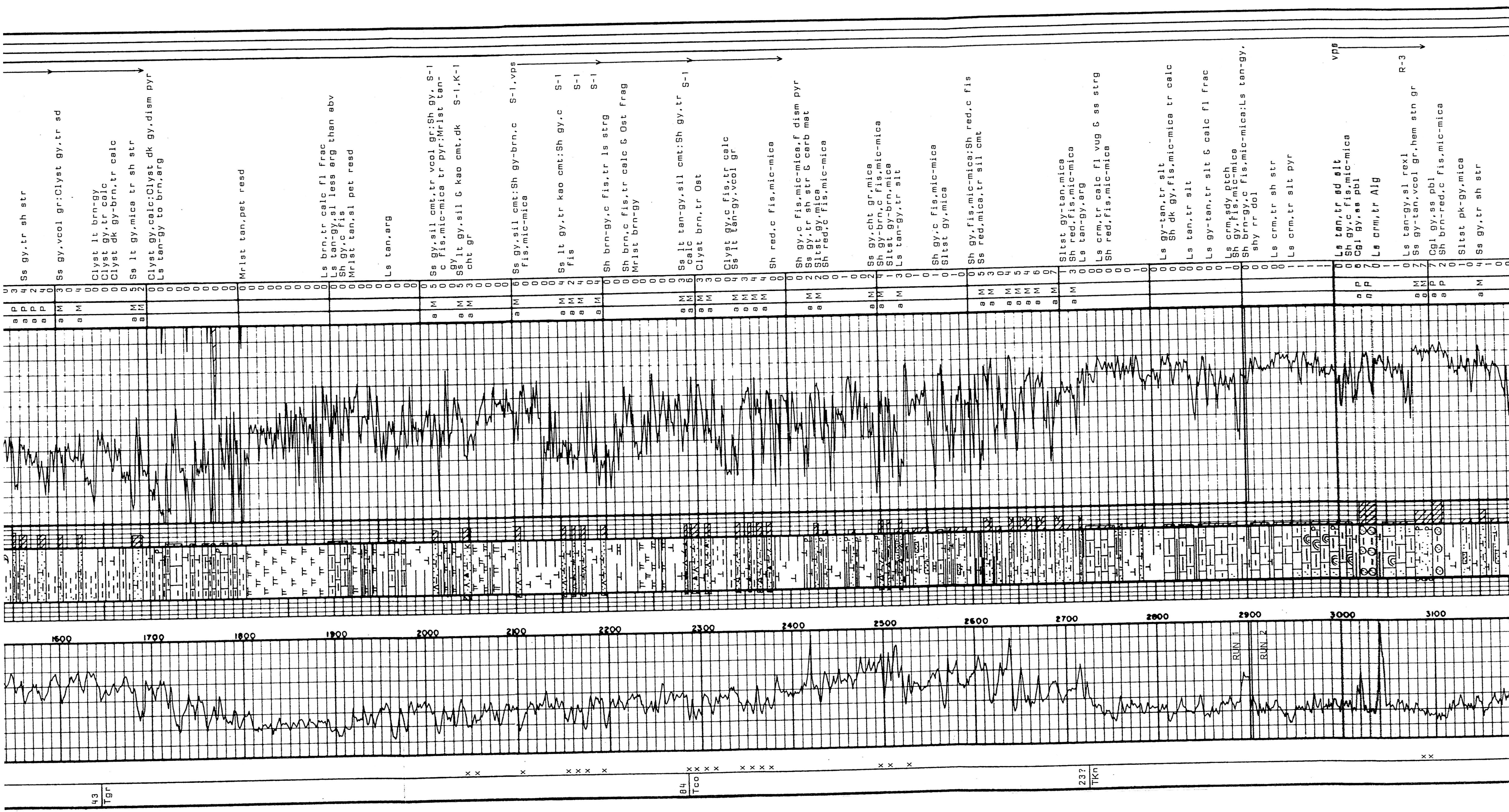
CORED INTERVALS

CORED INTERVAL

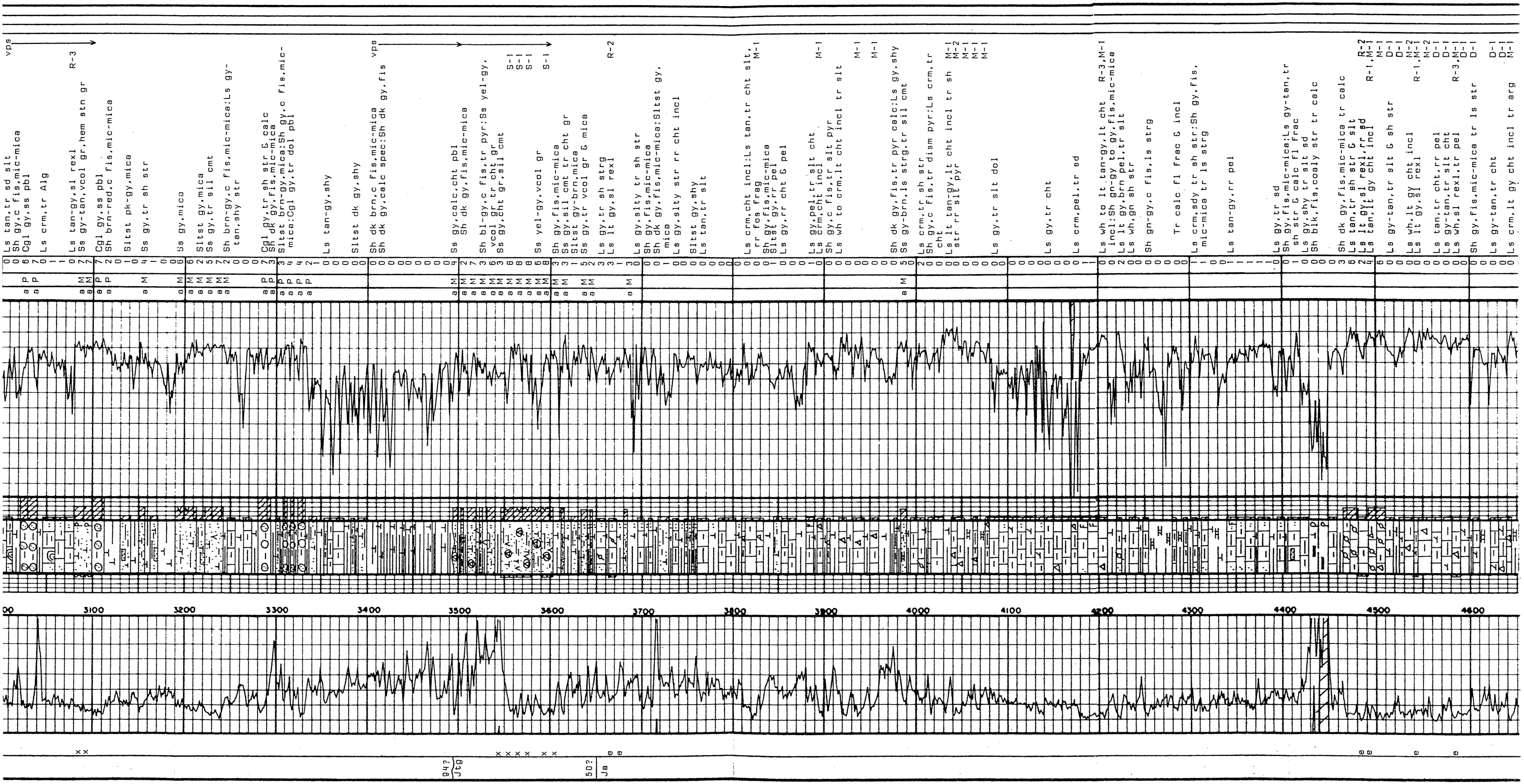
SIDEWALL CORE

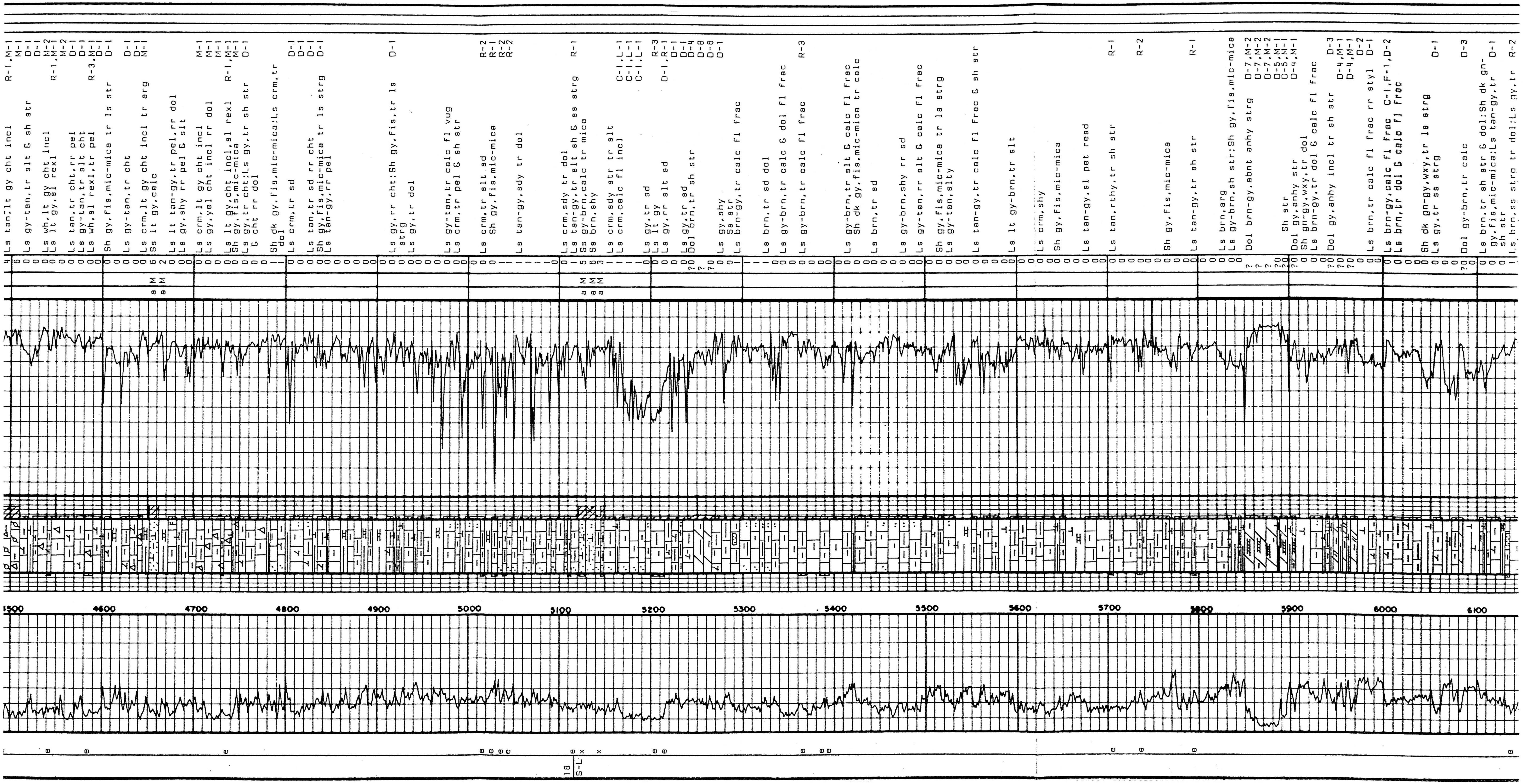
COLUMN 13



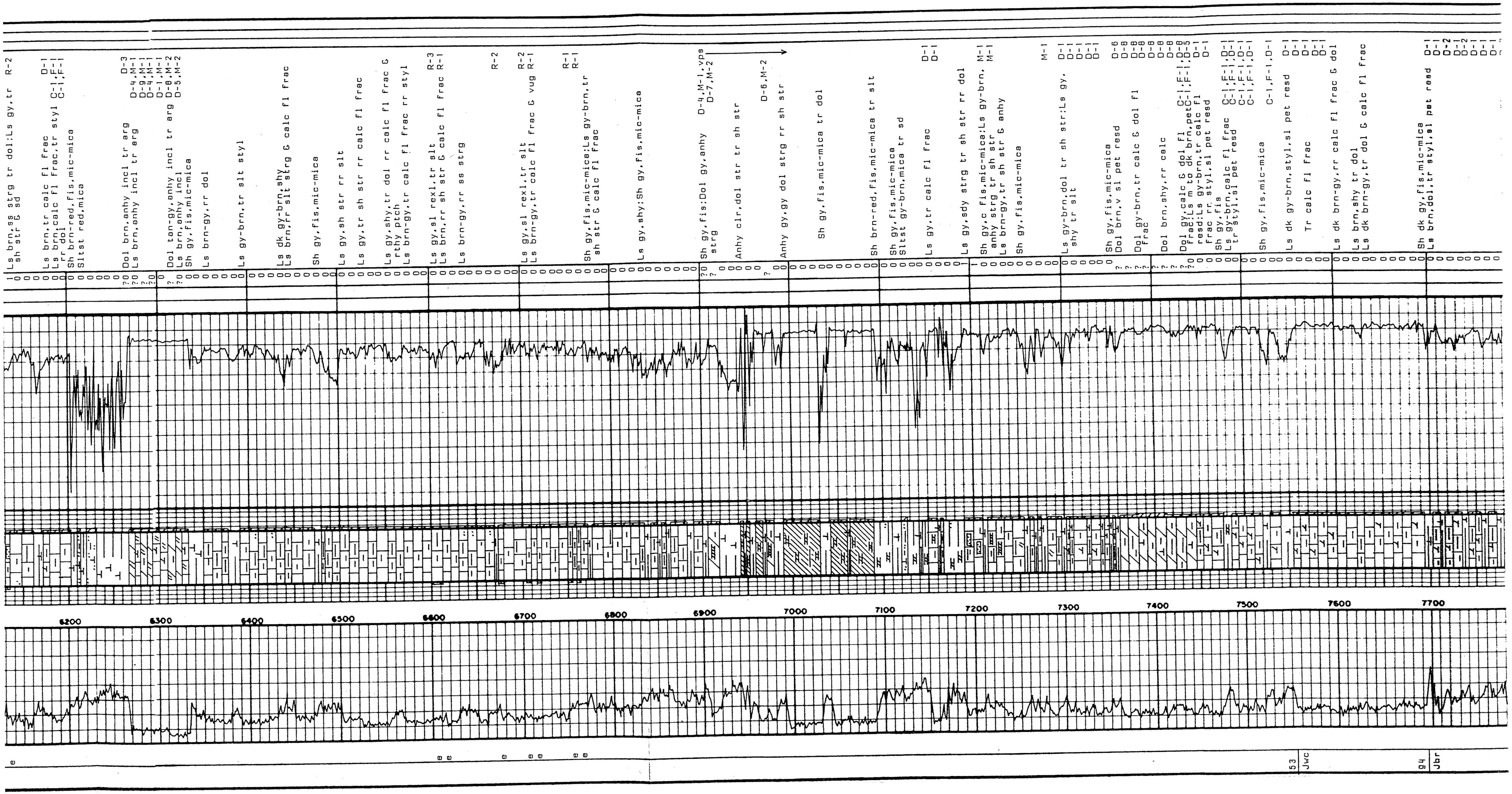


Ss gy,tr sh str
Ss gy,vcol gr:Clyst gy,tr sd
Clyst lt brn-gy
Clyst gy,tr calc
Clyst dk gy-brn,tr calc
Ss lt gy,mica tr sh str
Clyst gy,calc:Clyst dk gy,dism pyr
Ls tan-gy to brn,arg
Mrlst tan,pet resd
Ls brn,tr calc fl frac
Ls tan-gy,sl less arg than abv
Sh gy,c fis
Mrlst tan,sl pet resd
Ls tan,arg
Ss gy,sil cmt,tr vcol gr:Sh gy, S-1
c fis,mic-mica tr pyr:Mrlst tan-gy
Ss lt gy,sil & kao cmt,dk cht gr
S-1,K-1
S-1,vps
Ss gy,sil cmt:Sh gy-brn,c fis,mic-mica
Ss lt gy,tr kao cmt:Sh gy,c fis
S-1
S-1
S-1
Sh brn-gy,c fis,tr ls strg
Sh brn,c fis,tr calc & Ost frag
Mrlst brn-gy
Ss lt tan-gy,sil cmt:Sh gy,tr calc
S-1
Clyst brn,tr Ost
Clyst gy,c fis,tr calc
Ss lt tan-gy,vcol gr
Sh red,c fis,mic-mica
Sh gy,c fis,mic-mica,f dism pyr
Ss gy,tr sh str & carb mat
Sltst gy,mica
Sh red,c fis,mic-mica
Ss gy,cht gr,mica
Sh gy-brn,c fis,mic-mica
Sltst gy-brn,mica
Ls tan-gy,tr slt
Sh gy,c fis,mic-mica
Sltst gy,mica
Sh gy,fis,mic-mica;Sh red,c fis
Ss red,mica,tr sil cmt
Sltst gy-tan,mica
Sh red,fis,mic-mica
Ls tan-gy,arg
Ls crm,tr calc fl vug & ss strg
Sh red,fis,mic-mica
Ls gy-tan,tr slt
Sh dk gy,fis,mic-mica tr calc
Ls tan,tr slt
Ls gy-tan,tr slt & calc fl frac
Ls crm,sdy ptch
Sh gy,fis,mic-mica
Sh brn-gy,c fis,mic-mica;Ls tan-gy,shy rr dol
Ls crm,tr sh str
Ls crm,tr slt pyr
Ls tan,tr sd slt
Sh gy,c fis,mic-mica
Cgl gy,ss pbl
Ls crm,tr Alg
vps
R-3
Ls tan-gy,sl rexl
Ss gy-tan,vcol gr,hem stn gr
Cgl gy,ss pbl
Sh brn-red,c fis,mic-mica
Sltst pk-gy,mica
Ss gy,tr sh str
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
RUN 1
RUN 2
43 Tgr
84 Tco
23? TKn


vps
Ls tan,tr sd slt
Sh gy,c fis,mic-mica
Cgl gy,ss pbl
Ls crm,tr Alg
Ls tan-gy,sl rexl
R-3
Ss gy-tan,vcol gr,hem stn gr
Cgl gy,ss pbl
Sh brn-red,c fis,mic-mica
Sltst pk-gy,mica
Ss gy,tr sh str
Ss gy,mica
Sltst gy,mica
Ss gy,tr sil cmt
Sh brn-gy,c fis,mic-mica:Ls gy-tan,shy str
Cgl gy,tr sh str & calc
Sh dk gy,fis,mic-mica
Sltst brn-gy,mica:Sh gy,c fis,mic-mica:Cgl gy,tr dol pbl
Ls tan-gy,shy
Sltst dk gy,shy
vps
Sh dk brn,c fis,mic-mica
Sh dk gy,calc spec:Sh dk gy,fis
Ss gy,calc,cht pbl
Sh dk gy,fis,mic-mica
Sh bl-gy,c fis,tr pyr:Ss yel-gy,vcol gr tr cht gr
Ss gy,cht gr,sil cmt
S-1
S-1
S-1
Ss yel-gy,vcol gr
S-1
Sh gy,fis,mic-mica
Ss gy,sil cmt tr cht gr
Sltst gy-brn,mica
Ss gy,tr vcol gr & mica
Ls gy,tr sh strg
Ls lt gy,sl rexl
R-2
Ls gy,slty tr sh str
Sh gy,fis,mic-mica
Sh dk gy,fis,mic-mica:Sltst gy,mica
Ls gy,slty str rr cht incl
Sltst gy,shy
Ls tan,tr slt
Ls crm,cht incl:Ls tan,tr cht slt,rr fos frag
M-1
Sh gy,fis,mic-mica
Sltst gy,rr pel
Ls gy,rr cht & pel
Ls gy,pel,tr slt cht
M-1
Ls crm,cht incl
Sh gy,c fis,tr slt pyr
Ls wh to crm,lt cht incl tr slt
M-1
M-1
Sh dk gy,fis,tr pyr calc:Ls gy,shy
Ss gy-brn,ls strg,tr sil cmt
Ls crm,tr sh str
Sh gy,c fis,tr dism pyr:Ls crm,tr cht
Ls lt tan-gy,lt cht incl tr sh str rr slt pyr
M-1
M-2
M-1
M-1
M-1
Ls gy,tr slt dol
Ls gy,tr cht
Ls crm,pel,tr sd
Ls wh to lt tan-gy,lt cht
R-3,M-1
incl:Sh gn-gy to gy,fis,mic-mica
Ls lt gy,brn pel,tr slt
Ls wh,gn sh str
Sh gn-gy,c fis,ls strg
Tr calc fl frac & incl
Ls crm,sdy tr sh str:Sh gy,fis,mic-mica tr ls strg
Ls tan-gy,rr pel
Ls gy,tr sd
Sh gy,fis,mic-mica:Ls gy-tan,tr sh str & calc fl frac
Ls gy,shy tr slt sd
Sh blk,fis,coaly str tr calc
Sh dk gy,fis,mic-mica tr calc
Ls tan,tr sh str & slt
R-2
Ls lt gy,sl rexl,rr sd
R-1,M-1
Ls tan,lt gy cht incl
M-1
D-1
D-1
Ls gy-tan,tr slt & sh str
M-1
Ls wh,lt gy cht incl
M-2
Ls lt gy,sl rexl
R-1,M-1
Ls tan,tr cht,rr pel
D-1
Ls gy-tan,tr slt cht
D-1
Ls wh,sl rexl,tr pel
R-3,M-1
Sh gy,fis,mic-mica tr ls str
D-1
Ls gy-tan,tr cht
D-1
Ls crm,lt gy cht incl tr arg
D-1
M-1
00
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
xx
xxxx xx
94?
Jtg
50?
Ja



Ls tan,lt gy cht incl
Ls gy-tan,tr slt & sh str
Ls wh,lt gy cht incl
Ls lt gy,sl rexl
Ls tan,tr cht,rr pel
Ls gy-tan,tr slt cht
Ls wh,sl rexl,tr pel
Sh gy,fis,mic-mica tr ls str
Ls gy-tan,tr cht
Ls crm,lt gy cht incl tr arg
Ss lt gy,calc
Ls lt tan-gy,tr pel,rr dol
Ls gy,shy rr pel & slt
Ls crm,lt gy cht incl
Ls gy,yel cht incl rr dol
Ls lt gy,cht incl,sl rexl
Sh gy,fis,mic-mica
Ls gy,tr cht;Ls gy,tr sh str & cht rr dol
Sh dk gy,fis,mic-mica;Ls crm,tr dol
Ls crm,tr sd
Ls tan,tr sd rr cht
Sh gy,fis,mic-mica tr ls strg
Ls tan-gy,rr pel
Ls gy,rr cht;Sh gy,fis,tr ls strg
Ls gy,tr dol
Ls gy-tan,tr calc fl vug
Ls crm,tr pel & sh str
Ls crm,tr slt sd
Sh gy,fis,mic-mica
Ls tan-gy,sdy tr dol
Ls crm,sdy tr dol
Ls tan-gy,tr slt sh & ss strg
Ss gy-brn,calc tr mica
Ss brn,shy
Ls crm,sdy str tr slt
Ls crm,calc fl incl
Ls gy,tr sd
Ls lt gy
Ls gy,rr slt sd
Ls gy,tr sd
Dol brn,tr sh str
Ls gy,shy
Ss str
Ls brn-gy,tr calc fl frac
Ls brn,tr sd dol
Ls gy-brn,tr calc & dol fl frac
Ls gy-brn,tr calc fl frac
Ls gy-brn,tr slt & calc fl frac
Sh dk gy,fis,mic-mica tr calc
Ls brn,tr sd
Ls gy-brn,shy rr sd
Ls gy-tan,rr slt & calc fl frac
Sh gy,fis,mic-mica tr ls strg
Ls gy-tan,slty
Ls tan-gy,tr calc fl frac & sh str
Ls lt gy-brn,tr slt
Ls crm,shy
Sh gy,fis,mic-mica
Ls tan-gy,sl pet resd
Ls tan,rthy,tr sh str
Sh gy,fis,mic-mica
Ls tan-gy,tr sh str
Ls brn,arg
Ls gy-brn,sh str;Sh gy,fis,mic-mica
Dol brn-gy,abnt anhy strg
Sh str
Dol gy,anhy str
Sh gn-gy,wxy,tr dol
Ls brn-gy,tr dol & calc fl frac
Dol gy,anhy incl tr sh str
Ls brn,tr calc fl frac rr styl
Ls brn-gy,calc fl frac
Ls brn,tr dol & calc fl frac
Sh dk gn-gy,wxy,tr ls strg
Ls gy,tr ss strg
Dol gy-brn,tr calc
Ls brn,tr sh str & dol;Sh dk gn-gy,fis,mic-mica;Ls tan-gy,tr sh str
Ls brn,ss strg tr dol;Ls gy,tr
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
18
S-L


Ls brn,ss strg tr dol:Ls gy,tr sh str & sd R-2
Ls brn,tr calc fl frac D-1
Ls brn,calc fl frac,tr styl rr dol C-1,F-1 C-1,F-1
Sh brn-red,fis,mic-mica
Sltst red,mica
Dol brn,anhy incl tr arg D-3 D-4,M-1
Ls brn,anhy incl tr arg D-9,M-1 D-4,M-1 D-1,M-2 D-8,M-2 D-5,M-2
Dol tan-gy,anhy incl tr arg
Ls brn,anhy incl
Sh gy,fis,mic-mica
Ls brn-gy,rr dol
Ls gy-brn,tr slt styl
Ls dk gy-brn,shy
Ls brn,rr slt strg & calc fl frac
Sh gy,fis,mic-mica
Ls gy,sh str rr slt
Ls gy,tr sh str rr calc fl frac
Ls gy,shy,tr dol rr calc fl frac & rthy ptch
Ls brn-gy,tr calc fl frac rr styl
Ls gy,sl rexl,tr slt R-3
Ls brn,rr sh str & calc fl frac R-1
Ls brn-gy,rr ss strg R-2
Ls gy,sl rexl,tr slt R-2
Ls brn-gy,tr calc fl frac & vug R-1
Sh gy,fis,mic-mica;Ls gy-brn,tr sh str & calc fl frac R-1 R-1
Ls gy,shy;Sh gy,fis,mic-mica
Sh gy,fis;Dol gy,anhy strg D-4,M-1,vps D-7,M-2
Anhy clr,dol str tr sh str
Anhy gy,gy dol strg rr sh str D-6,M-2
Sh gy,fis,mic-mica tr dol
Sh brn-red,fis,mic-mica tr slt
Sh gy,fis,mic-mica
Sltst gy-brn,mica tr sd
Ls gy,tr calc fl frac D-1 D-1
Ls gy,sdy strg tr sh str rr dol
Sh gy,c fis,mic-mica:Ls gy-brn, anhy strg tr sh str M-1 M-1
Ls brn-gy,tr sh str & anhy
Sh gy,fis,mic-mica M-1
Ls gy-brn,dol tr sh str:Ls gy, shy tr slt D-1 D-1 D-1 D-1
Sh gy,fis,mic-mica
Dol brn,v sl pet resd D-6 D-8
Dol gy-brn,tr calc & dol fl frac D-8 D-8
Dol brn,shy,rr calc D-8
Dol gy,calc & dol fl frac:Ls m to dk brn,pet resd:Ls gy-brn,tr calc fl frac rr styl,sl pet resd C-1,F-1,D-8 C-1,F-1,D-5 D-1
Sh gy,fis
Ls gy-brn,calc fl frac tr styl,sl pet resd C-1,F-1,D-1 C-1,F-1,D-1 C-1,F-1,D-1
Sh gy,fis,mic-mica C-1,F-1,D-1
Ls dk gy-brn,styl,sl pet resd D-1 D-1
Tr calc fl frac D-1
Ls dk brn-gy,rr calc fl frac & dol
Ls brn,shy tr dol
Ls dk brn-gy,tr dol & calc fl frac
Sh dk gy,fis,mic-mica
Ls brn,dol,tr styl,sl pet resd D-1 D-1 D-2 D-1 D-1 D-1
6200
6300
6400
6500
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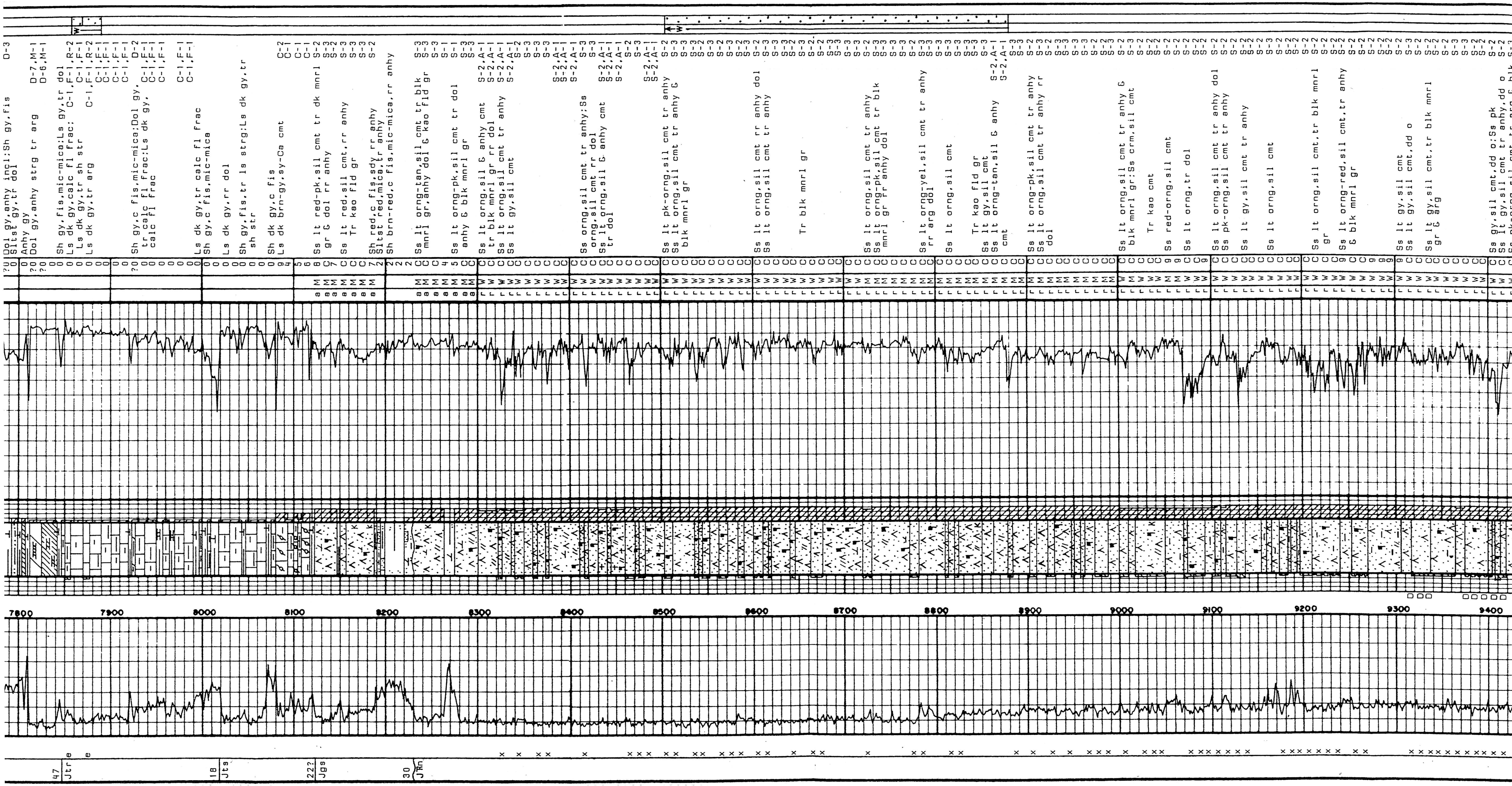
7700
53 Jwc
94 Jbr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7900
8000
8100
8200
8300
8400
8500
8600
8700
8800
8900
9000
9100
9200
9300
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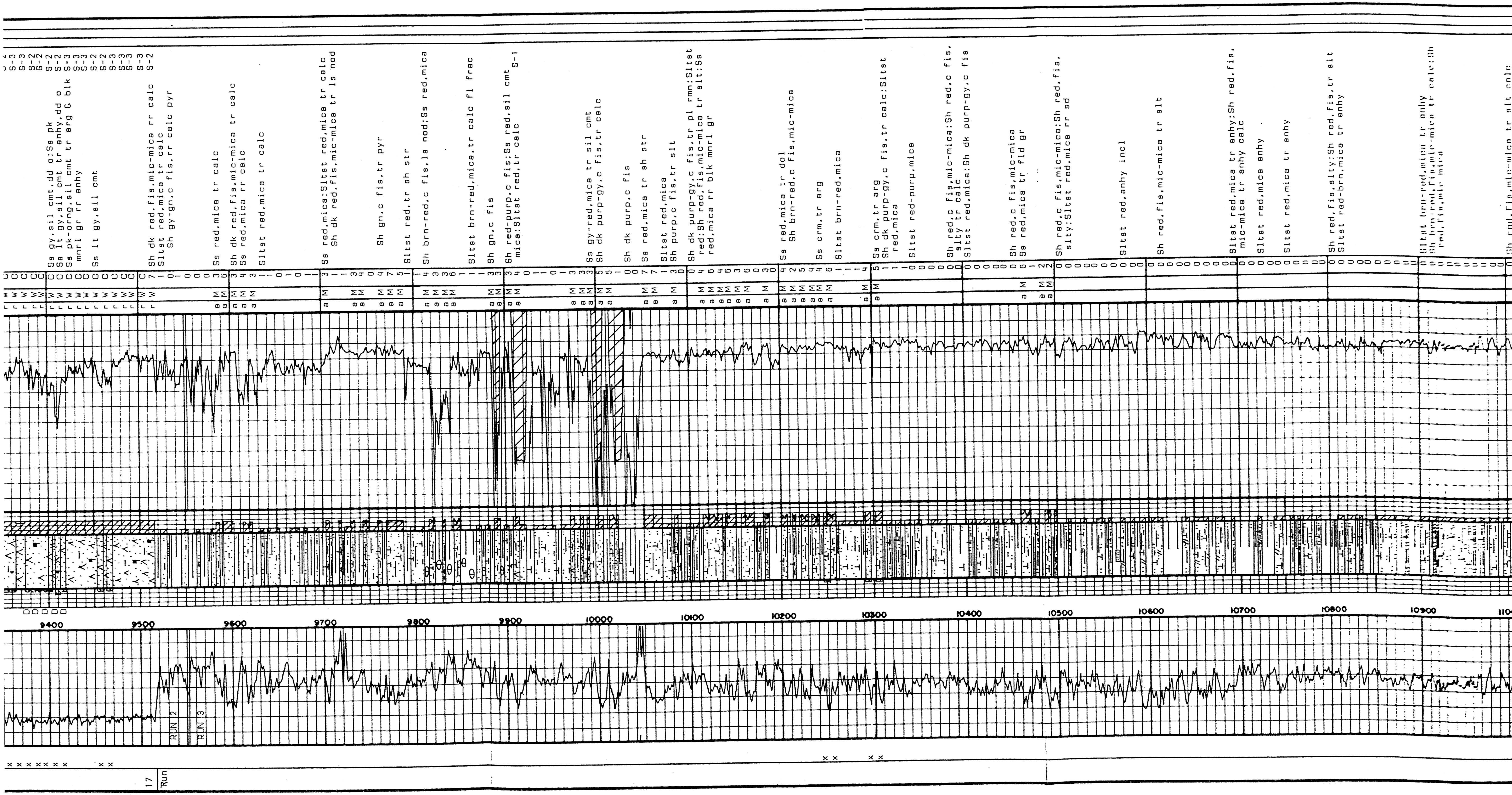
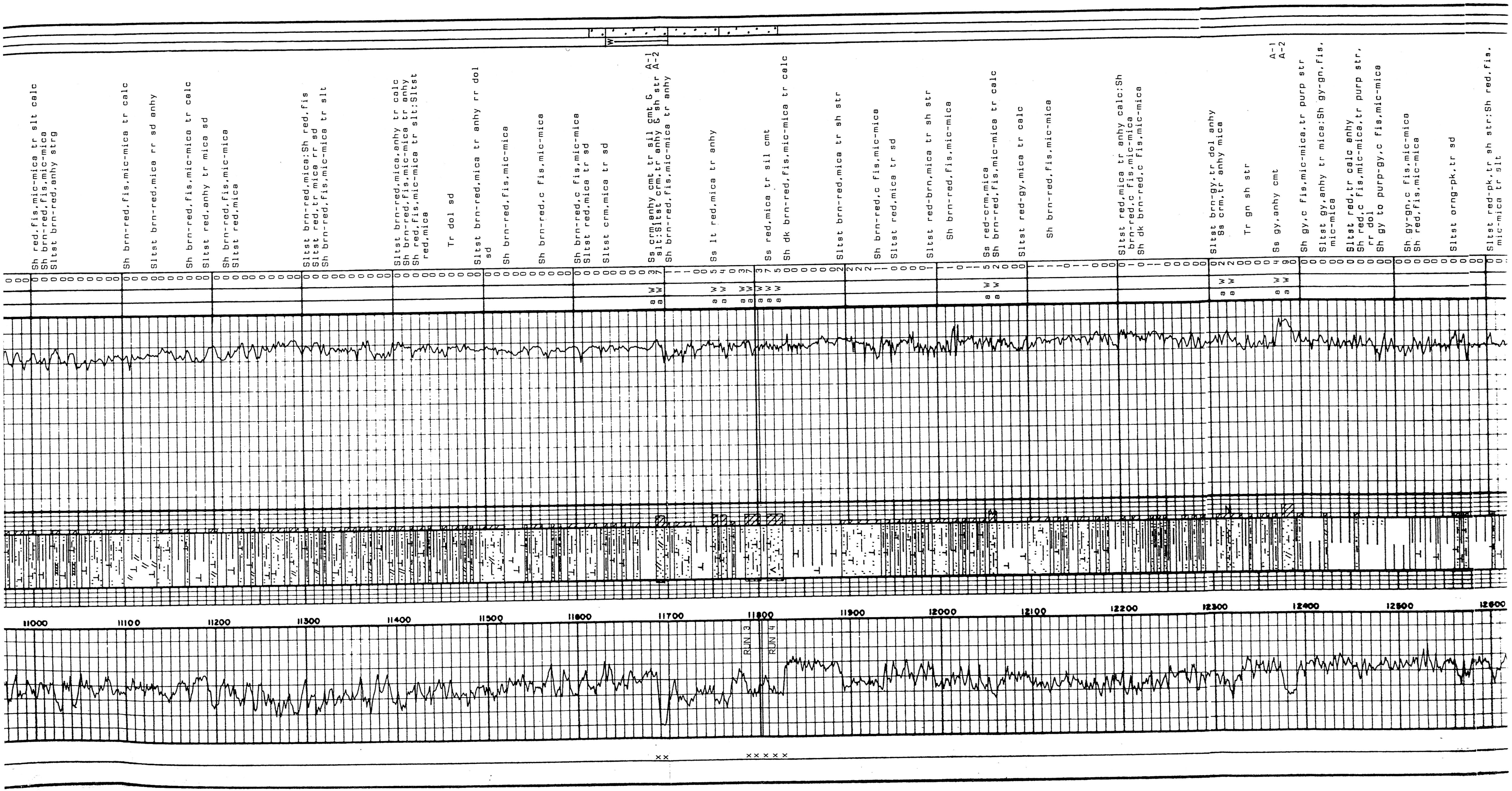
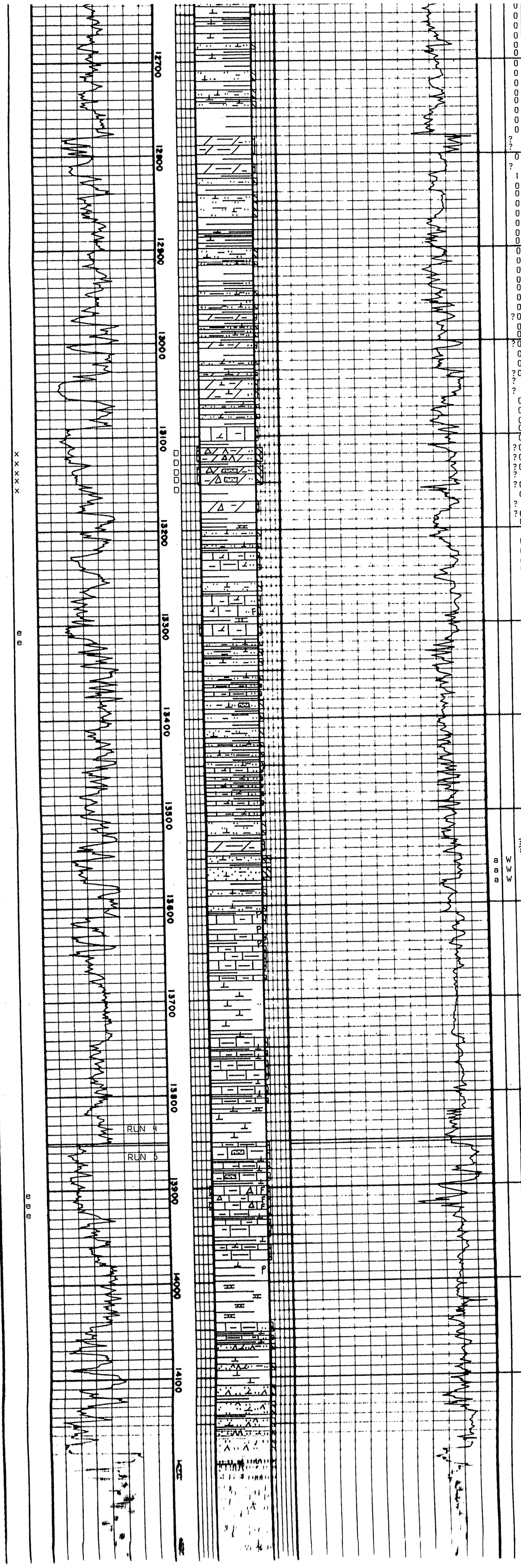
47 Jtr
18 Jts
22? Jgs
30 JRn


Ss gy,sil cmt,dd o:Ss pk
Ss lt gy,sil cmt tr anhy,dd o
Ss pk-orng,sil cmt tr arg & blk mnrl gr rr anhy
Ss lt gy,sil cmt
Sh dk red,fis,mic-mica rr calc
Sltst red,mica tr calc
Sh gy-gn,c fis,rr calc pyr
Ss red,mica tr calc
Sh dk red,fis,mic-mica tr calc
Ss red,mica rr calc
Sltst red,mica tr calc
Ss red,mica;Sltst red,mica tr calc
Sh dk red,fis,mic-mica tr ls nod
Sh gn,c fis,tr pyr
Sltst red,tr sh str
Sh brn-red,c fis,ls nod;Ss red,mica
Sltst brn-red,mica,tr calc fl frac
Sh gn,c fis
Sh red-purp,c fis;Ss red,sil cmt mica;Sltst red,tr calc
S-1
Ss gy-red,mica tr sil cmt
Sh dk purp-gy,c fis,tr calc
Sh dk purp,c fis
Ss red,mica tr sh str
Sltst red,mica
Sh purp,c fis,tr slt
Sh dk purp-gy,c fis,tr pl rmn;Sltst red;Sh red,fis,mic-mica tr slt;Ss red,mica rr blk mnrl gr
Ss red,mica tr dol
Sh brn-red,c fis,mic-mica
Ss crm,tr arg
Sltst brn-red,mica
Ss crm,tr arg
Sh dk purp-gy,c fis,tr calc;Sltst red,mica
Sltst red-purp,mica
Sh red,c fis,mic-mica;Sh red,c fis, slty tr calc
Sltst red,mica;Sh dk purp-gy,c fis
Sh red,c fis,mic-mica
Ss red,mica tr fld gr
Sh red,c fis,mic-mica;Sh red,fis, slty;Sltst red,mica rr sd
Sltst red,anhy incl
Sh red,fis,mic-mica tr slt
Sltst red,mica tr anhy;Sh red,fis, mic-mica tr anhy calc
Sltst red,mica anhy
Sltst red,mica tr anhy
Sh red,fis,slty;Sh red,fis,tr slt
Sltst red-brn,mica tr anhy
9400
9500
9600
9700
9800
9900
10000
10100
10200
10300
10400
10500
10600
10700
10800
10900
11000
RUN 2
RUN 3
17
Run


Sh red,fis,mic-mica tr slt calc
Sh brn-red,fis,mic-mica
Sltst brn-red,anhy strg
Sh brn-red,fis,mic-mica tr calc
Sltst brn-red,mica rr sd anhy
Sh brn-red,fis,mic-mica tr calc
Sltst red,anhy tr mica sd
Sh brn-red,fis,mic-mica
Sltst red,mica
Sltst brn-red,mica;Sh red,fis
Sltst red,tr mica rr sd
Sh brn-red,fis,mic-mica tr slt
Sltst brn-red,mica,anhy tr calc
Sh brn-red,fis,mic-mica tr anhy
Sh red,fis,mic-mica tr slt;Sltst red,mica
Tr dol sd
Sltst brn-red,mica tr anhy rr dol sd
Sh brn-red,fis,mic-mica
Sh brn-red,c fis,mic-mica
Sh brn-red,c fis,mic-mica
Sltst red,mica tr sd
Sltst crm,mica tr sd
A-1
A-2
Ss crm,anhy cmt tr sil cmt & slt:Sltst crm,tr anhy & sh str
Sh brn-red,fis,mic-mica tr anhy
Ss lt red,mica tr anhy
Ss red,mica tr sil cmt
Sh dk brn-red,fis,mic-mica tr calc
Sltst brn-red,mica tr sh str
Sh brn-red,c fis,mic-mica
Sltst red,mica tr sd
Sltst red-brn,mica tr sh str
Sh brn-red,fis,mic-mica
Ss red-crm,mica
Sh brn-red,fis,mic-mica tr calc
Sltst red-gy,mica tr calc
Sh brn-red,fis,mic-mica
Sltst red,mica tr anhy calc;Sh brn-red,c fis,mic-mica
Sh dk brn-red,c fis,mic-mica
Sltst brn-gy,tr dol anhy
Ss crm,tr anhy mica
Tr gn sh str
A-1
A-2
Ss gy,anhy cmt
Sh gy,c fis,mic-mica,tr purp str
Sltst gy,anhy tr mica;Sh gy-gn,fis,mic-mica
Sltst red,tr calc anhy
Sh red,c fis,mic-mica,tr purp str, rr dol
Sh gy to purp-gy,c fis,mic-mica
Sh gy-gn,c fis,mic-mica
Sh red,fis,mic-mica
Sltst orng-pk,tr sd
Sltst red-pk,tr sh str;Sh red,fis,mic-mica tr slt
11000
11100
11200
11300
11400
11500
11600
11700
11800
RUN 3
RUN 4
11900
12000
12100
12200
12300
12400
12500
12600



Sh gy-gn,c fis,mic-mica
Sltst red,mica tr sd & sh str

Sh red,fis,mic-mica tr slt

Dol gy,tr slt D-8 D-8

Sh gy-gn,c fis,mic-mica D-8

Sltst gy-gn,tr calc
Sh dk brn-red,fis,mic-mica tr calc
Sltst red,mica rr sd

Sh red,fis,mic-mica tr slt

Sltst red,mic-mica tr sd
Sh red,fis,mic-mica slty tr calc
Sh gy-gn,c fis,mic-mica rr slt calc

Dol crm-gy-tan,tr slt D-6

Dol tan-gy;Sh gy-gn,c fis D-5

Sltst gy,mica;Sh red,c fis,mic-mica D-3 D-7 D-7

Ls gy,tr pyr,rr pel D-2
Sh gn-gy,c fis,mic-mica
Dol dk gy,cht incl & sil, D-4,M-2
dd o D-4,M-2
Dol gy,cht incl,dd o D-4,M-2 D-6,M-1 D-2

Dol gy,cht incl rr anhy D-8,M-1 D-2
Dol strg
Sltst gy,mica
Sh gy,c fis,mic-mica
Ls gy,tr sh str D-1 D-1

Ls gy,tr sh str,rr fos frag D-1 D-1

Ls tan-gy,sl rexl,tr R-3,D-1,vps
slt;Sh gy-gn,wxy R-1
Sltst gy,mica tr sh str & sd rr
pyr;Sh gy,c fis,mic-mica

Ls gy,tr dol;Sh red,fis,mic-mica

Ss strg

Sh gy-gn,c fis to wxy,tr calc
Sltst gy,mica tr sil
Sh red,fis,mic-mica;Sltst red

Ls tan-gy,slty D-1

D-1

Sh gy-gn,wxy
Sltst tan-gy,mica tr sd

Dol tan-gy,tr slt D-6 D-2

Ss lt tan-gy,calc tr mica

Sltst gy,mica

Sltst gy,mica tr sh str;Sh gy,fis
Ls gy,tr styl & sh str rr dol

Ls dk gy,shy rr slt dol pyr

Sh dk gy,fis,mic-mica rr slt

Sh dk gy,fis,mic-mica
Ls dk gy,v sl pet resd

Ls dk gy to blk,sl pet resd

Sh dk gy,fis,mic-mica;Ls dk gy,rr
pel

Ls gy,ss str tr pyr slt

Ls gy,cht incl,tr pel;Ls R-2,M-1
gy,tr slt styl & pel R-2,M-1
Ls gy,sh str vps
Sh dk gy,fis,mic-mica;Ls gy,
tr sh str,rr fos frag

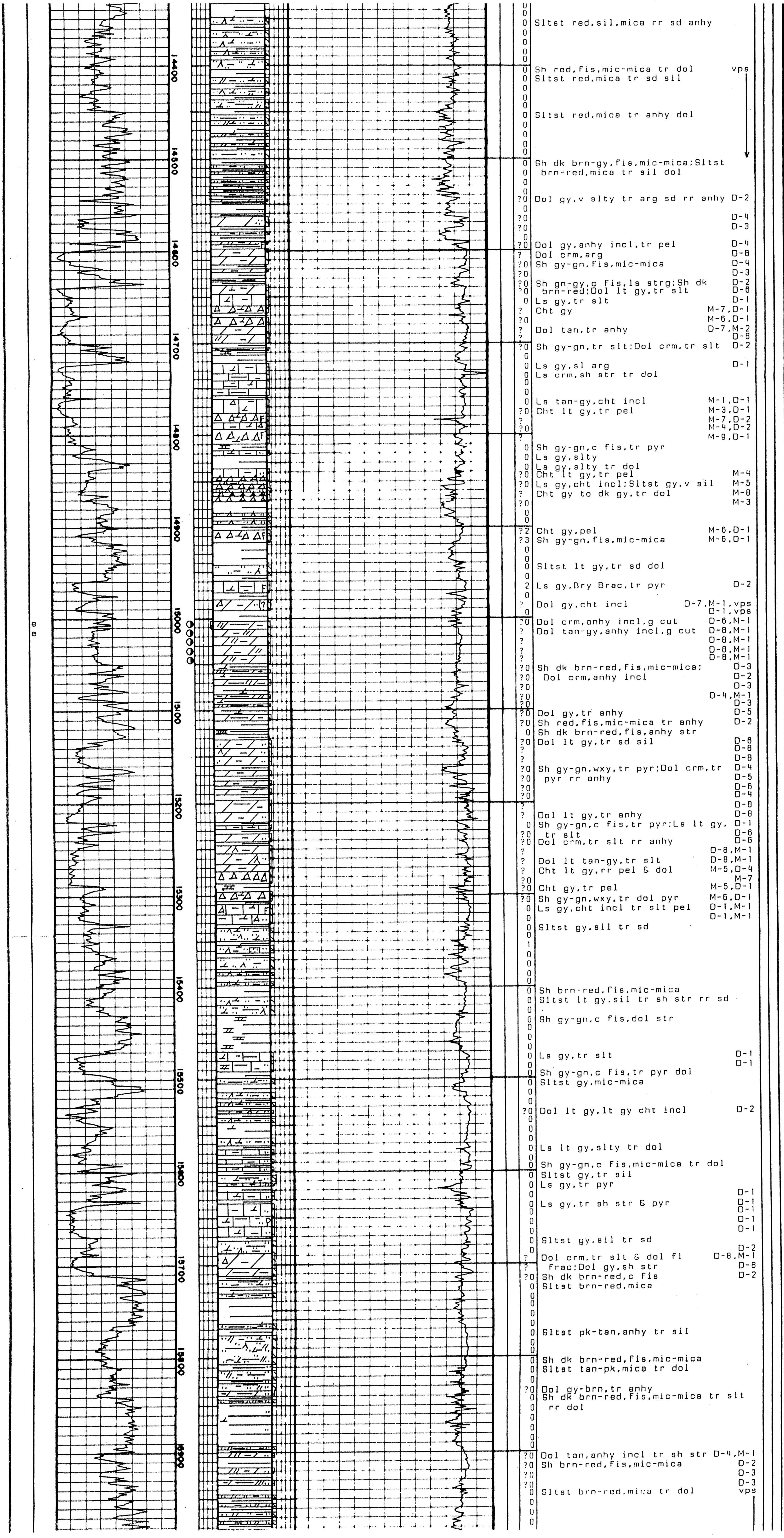
Ls gy,dol tr slt D-1
Sh gy to dk gy,fis,mic-mica tr
calc & f dism pyr

Sh dk gy,fis,mic-mica ls strg

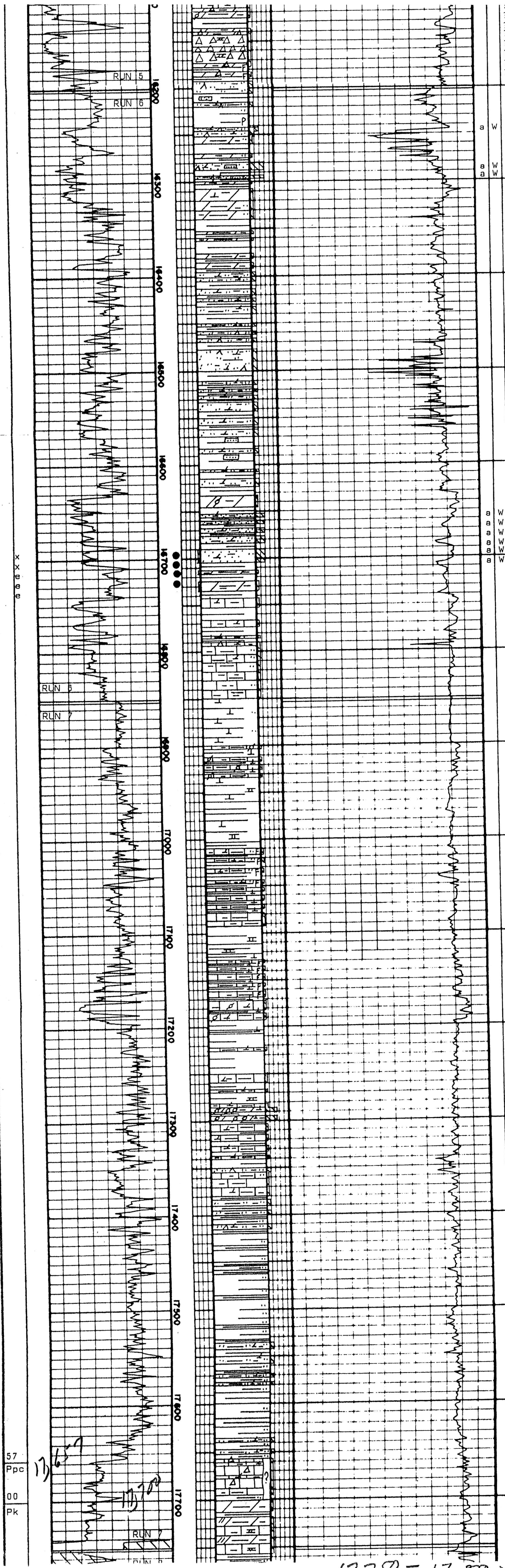
Ls gy,tr sd styl

Sltst gy,v sil

Sltst lt gy,v sil
Sh gy,fis,mic-mica tr slt calc



14400
14500
14600
14700
14800
14900
15000
15100
15200
15300
15400
15500
15600
15700
15800
15900
Sltst red,sil,mica rr sd anhy
Sh red,fis,mic-mica tr dol
Sltst red,mica tr sd sil
vps
Sltst red,mica tr anhy dol
Sh dk brn-gy,fis,mic-mica:Sltst brn-red,mica tr sil dol
Dol gy,v slty tr arg sd rr anhy
Dol gy,anhy incl,tr pel
Dol crm,arg
Sh gy-gn,fis,mic-mica
Sh gn-gy,c fis,ls strg:Sh dk brn-red:Dol lt gy,tr slt
Ls gy,tr slt
Cht gy
Dol tan,tr anhy
Sh gy-gn,tr slt:Dol crm,tr slt
Ls gy,sl arg
Ls crm,sh str tr dol
Ls tan-gy,cht incl
Cht lt gy,tr pel
Sh gy-gn,c fis,tr pyr
Ls gy,slty
Ls gy,slty tr dol
Cht lt gy,tr pel
Ls gy,cht incl:Sltst gy,v sil
Cht gy to dk gy,tr dol
Cht gy,pel
Sh gy-gn,fis,mic-mica
Sltst lt gy,tr sd dol
Ls gy,Bry Brac,tr pyr
Dol gy,cht incl
Dol crm,anhy incl,g cut
Dol tan-gy,anhy incl,g cut
Sh dk brn-red,fis,mic-mica:
Dol crm,anhy incl
Dol gy,tr anhy
Sh red,fis,mic-mica tr anhy
Sh dk brn-red,fis,anhy str
Dol lt gy,tr sd sil
Sh gy-gn,wxy,tr pyr:Dol crm,tr pyr rr anhy
Dol lt gy,tr anhy
Sh gy-gn,c fis,tr pyr:Ls lt gy, tr slt
Dol crm,tr slt rr anhy
Dol lt tan-gy,tr slt
Cht lt gy,rr pel & dol
Cht gy,tr pel
Sh gy-gn,wxy,tr dol pyr
Ls gy,cht incl tr slt pel
Sltst gy,sil tr sd
Sh brn-red,fis,mic-mica
Sltst lt gy,sil tr sh str rr sd
Sh gy-gn,c fis,dol str
Ls gy,tr slt
Sh gy-gn,c fis,tr pyr dol
Sltst gy,mic-mica
Dol lt gy,lt gy cht incl
Ls lt gy,slty tr dol
Sh gy-gn,c fis,mic-mica tr dol
Sltst gy,tr sil
Ls gy,tr pyr
Ls gy,tr sh str & pyr
Sltst gy,sil tr sd
Dol crm,tr slt & dol fl
Frac:Dol gy,sh str
Sh dk brn-red,c fis
Sltst brn-red,mica
Sltst pk-tan,anhy tr sil
Sh dk brn-red,fis,mic-mica
Sltst tan-pk,mica tr dol
Dol gy-brn,tr anhy
Sh dk brn-red,fis,mic-mica tr slt rr dol
Dol tan,anhy incl tr sh str
Sh brn-red,fis,mic-mica
Sltst brn-red,mica tr dol
vps



Ls gy,dol ...
incl:Dol gy,tr pyr:Sh dk brn-red,fis:Dol lt orng-crm,tr cht D-6
anhy:Dol tan,chty:Cht gy, D-3
dol str:Cht gy,tr pel & M-7,D-3
dol M-9,D-1
Dol gy,pel,cht incl:Sh gy, M-9,D-1
fis:Sh gy,fis,mic-mica D-4,M-3
Sltst gy,sil tr dol D-4,M-1
Sh gy-gn,c fis,mic-mica tr pyr slt
Sltst gy,sil tr sd

Ss lt gy,sil cmt S-1
Dol gy,tr cht D-5

Dol tan-gy,tr sh str D-3
Ss gy,sil cmt S-1,vps

Dol crm,tr sh str D-6
D-8
Dol gy,shy,rr cht D-6
D-6
Sh dk brn-red,fis,mic-mica
Dol gy,tr slt D-3
D-3
D-3
Tr cht incl D-5
Sltst red,mica D-2
Sltst red,tr anhy:Sh dk brn-red,
fis,mic-mica

Sltst gy,sil tr dol
Sltst red-gy-brn,sil tr mica &
sh str

Sh dk brn-red,fis,mic-mica
Sltst gy,mica tr sil anhy

Sltst brn-red,mica tr sd:Sh gy-gn,
fis
Sh dk brn-red,fis,tr dol slt anhy
Dol gy,arg tr slt pyr D-6
D-5
Ss gy,tr anhy vps

Ss blk,g cut
Sh dk gy,fis,mic-mica,g cut
Dol gy,arg,rthy D-3
D-3
D-4
Ls gy,tr sh str & sil D-1

Ls dk gy,shy tr dol

Ls dk gy,tr slt rr dol

Sh dk gy,fis,mic-mica

Ls dk gy,pel,tr dol:Sh dk gy,fis,tr
ls strg

Sh dk gy,fis,mic-mica tr calc

Sh dk gy,fis,mic-mica tr calc
Ls gy,pel,tr pyr D-1
D-1

Ls gy,tr slt dol

Sh dk gy,fis,ls strg vps
Sh dk gy,fis,mic-mica
Ls gy to dk gy,pel

Ls gy,tr sh str & pyr D-1
D-1
Sh gy,fis
Sh dk gy,fis,calc

Ls gy,shy

D-1

Dol tan,tr sh str D-2
D-4
Sh red,fis,mic-mica:Ls gy D-1
D-1
D-1
D-1

Sltst gy,mica:Ls gy,tr dol
D-1
Sh dk brn-red,fis,mic-mica:Sltst
red,mica tr sd
Sh brn-red,fis,slty
Sltst red,sil tr sd

Sh brn-gy-red,fis,mic-mica tr
calc fl frac

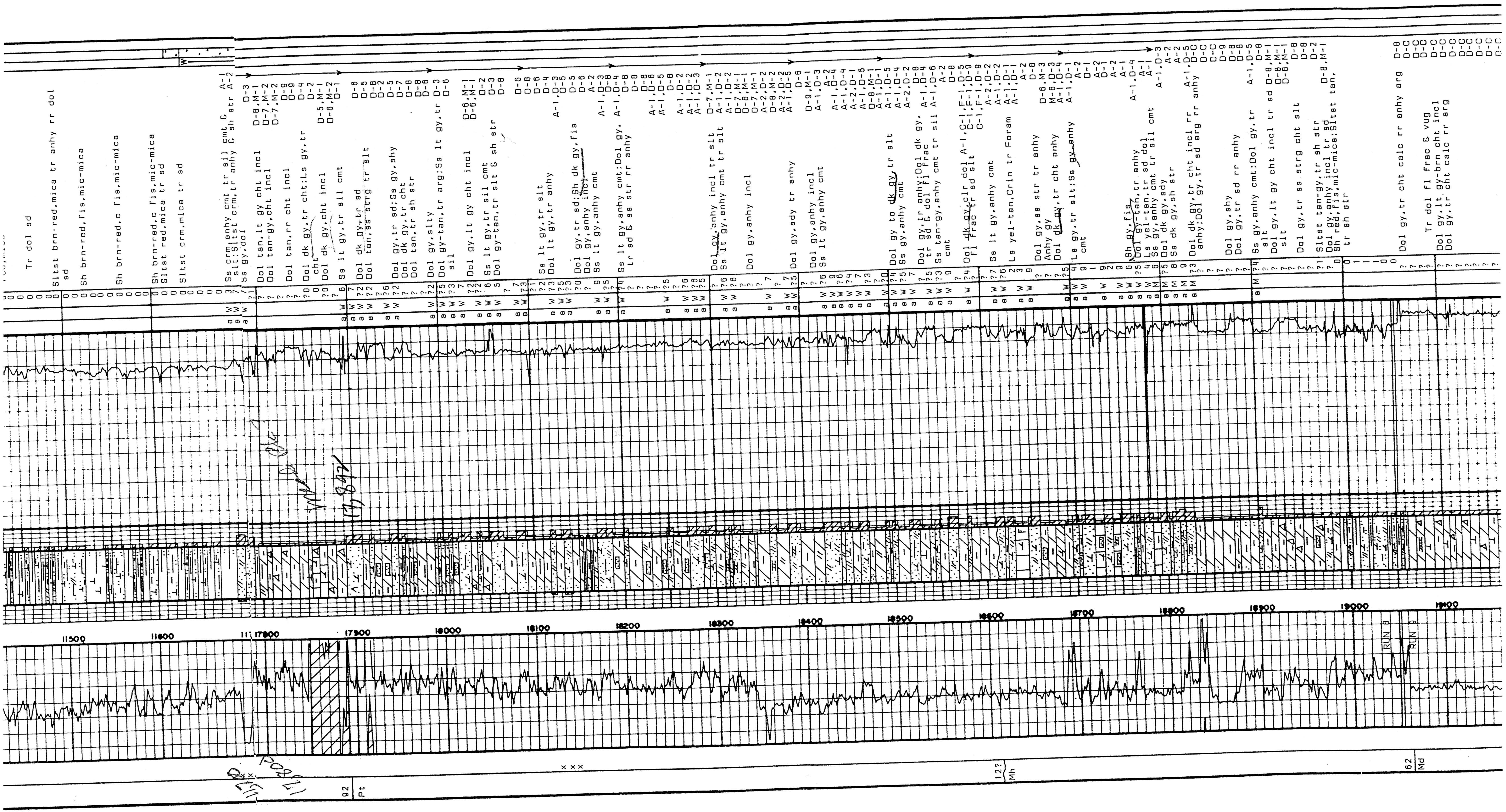
Sh dk brn-red,fis,mic-mica
Sltst brn-red,mica tr blk mnrl gr

Sh ~~brn-red~~,fis,mic-mica
Sh dk ~~brn-red~~,fis,mic-mica tr slt

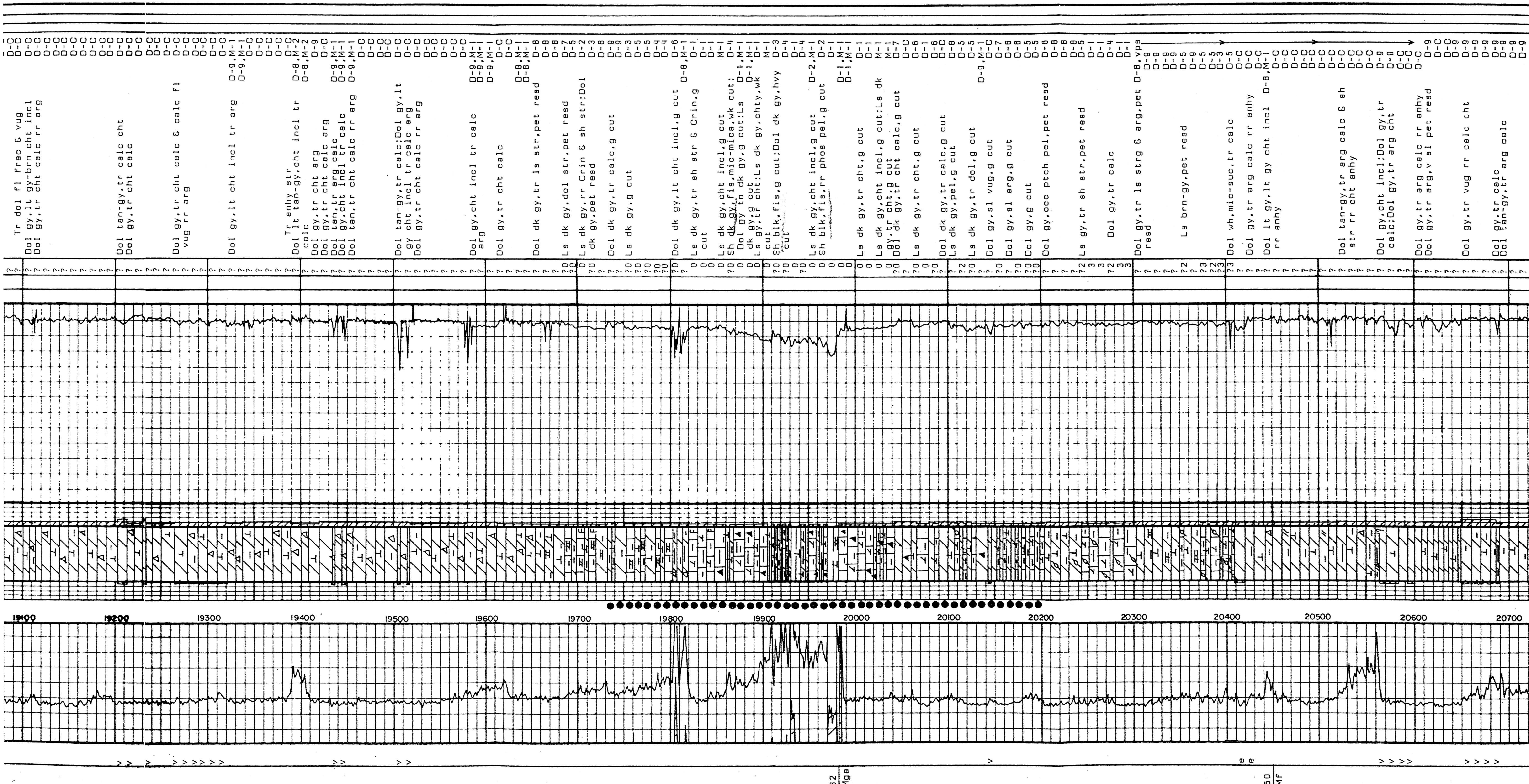
Sltst red,tr sd

Ls tan-gy,lt gy cht incl tr arg
Ls lt gy,tr cht M-1
M-1
M-1
Ls gy,tr cht
Dol tan-yel D-7
Sh dk brn-red,fis,mic-mica D-4
Dol tan,anhy incl D-6,M-1
D-1
D-4,M-1
D-1
D-3

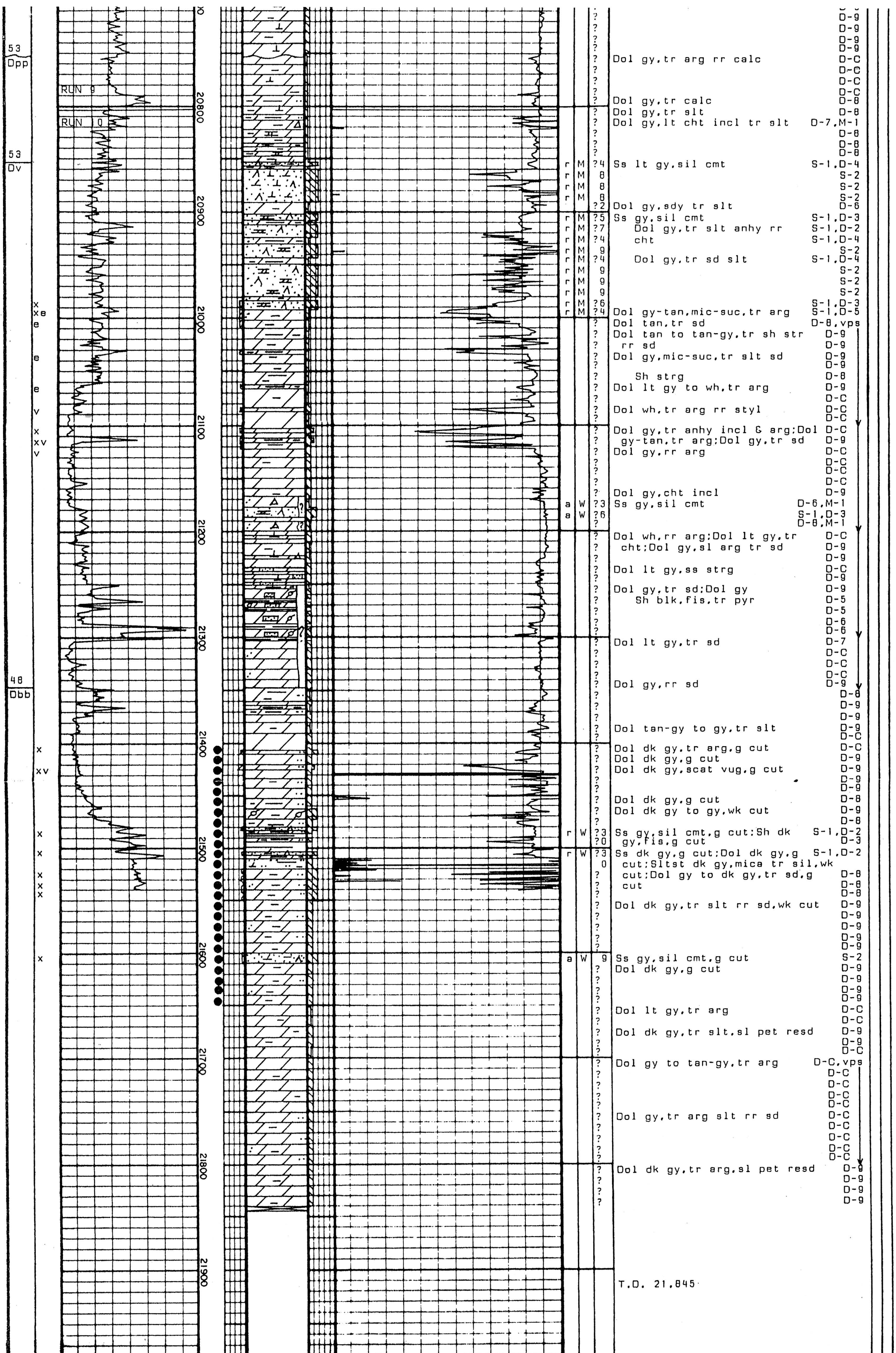
17,750 - 17,870 msl? Tot



Tr dol sd
Sltst brn-red,mica tr anhy rr dol sd
Sh brn-red,fis,mic-mica
Sh brn-red,c fis,mic-mica
Sh brn-red,c fis,mic-mica
Sltst red,mica tr sd
Sltst crm,mica tr sd
Ss crm,anhy cmt tr sil cmt & slt:Sltst crm,tr anhy & sh str
Ss gy,dol
Dol tan,lt gy cht incl
Dol tan-gy,cht incl
Dol tan,rr cht incl
Dol dk gy,tr cht:Ls gy,tr cht
Dol dk gy,cht incl
Ss lt gy,tr sil cmt
Dol dk gy,tr sd
Dol tan,ss strg tr slt
Dol gy,tr sd:Ss gy,shy
Dol dk gy,tr cht
Dol tan,tr sh str
Dol gy,slty
Dol gy-tan,tr arg:Ss lt gy,tr sil
Dol gy,lt gy cht incl
Ss lt gy,tr sil cmt
Dol gy-tan,tr slt & sh str
Ss lt gy,tr slt
Dol lt gy,tr anhy
Dol gy,tr sd:Sh dk gy,fis
Dol gy,anhy incl
Ss lt gy,anhy cmt
Ss lt gy,anhy cmt:Dol gy, tr sd & ss str rr anhy
Dol gy,anhy incl tr slt
Ss lt gy,anhy cmt tr slt
Dol gy,anhy incl
Dol gy,sdy tr anhy
Dol gy,anhy incl
Ss lt gy,anhy cmt
Dol gy to dk gy tr slt
Ss gy,anhy cmt
Dol gy,tr anhy:Dol dk gy, tr sd & dol fl frac
Ss tan-gy,anhy cmt tr sil cmt
Dol dk gy,clr dol fl frac tr sd slt
Ss lt gy,anhy cmt
Ls yel-tan,Crin tr Foram
Dol gy,ss str tr anhy
Anhy gy
Dol dk gy,tr cht anhy
Ls gy,tr slt:Ss gy,anhy cmt
Sh gy,fis
Dol gy-tan,tr anhy
Ls yel-tan,tr sd dol
Ss gy,anhy cmt tr sil cmt
Dol dk gy,sdy
Ss dk gy,sh str
Dol dk gy,tr cht incl rr anhy:Dol gy,tr sd arg rr anhy
Dol gy,shy
Dol gy,tr sd rr anhy
Ss gy,anhy cmt:Dol gy,tr slt
Dol gy,lt gy cht incl tr sd slt
Dol gy,tr ss strg cht slt
Sltst tan-gy,tr sh str
Dol gy,anhy incl tr sd
Sh red,fis,mic-mica;Sltst tan, tr sh str
Dol gy,tr cht calc rr anhy arg
Tr dol fl frac & vug
Dol gy,lt gy-brn,cht incl
Dol gy,tr cht calc rr arg
11500
11600
17800
17900
18000
18100
18200
18300
18400
18500
18600
18700
18800
18900
19000
19100
RUN 8
RUN 9
92 Pt
123 Mh
62 Md



19100
19200
19300
19400
19500
19600
19700
19800
19900
20000
20100
20200
20300
20400
20500
20600
20700
82 Mga
50 Mf



INFORMATION SUMMARY

SUMMARY OF ABBREVIATIONS
ELEV. 5116 KB

TERTIARY		Spl Start
Tv	Volcanics	1643
Tgr	Green River	2284
Tco	Colton	
TERTIARY-CRETACEOUS		
TKn	North Horn	2723?
JURASSIC		
Jtg	Twist Gulch	3494?
Ja	Arapien	3650?
Jwc	Watton Canyon	7553
Jbr	Boundary Ridge	7694
Jtr	Rich	7847
Jts	Sliderock	8018
Jgs	Gypsum Springs	8122?

JURASSIC-TRIASSIC

Jgs	Gypsum Springs	8122?
JURASSIC-TRIASSIC		
J̄Rn	Navajo	8230
TRIASSIC		
R̄un	Triassic Undivided	9517
PERMIAN		
Ppc	Park City	17,657
Pk	Kaibab	17,700
Pt	Toroweap	17,892
MISSISSIPPIAN		
Mh	Humbug	18,612?
Md	Deseret	19,062?
Mga	Gardison	19,982
Mf	Fitchville	20,450
DEVONIAN		
Dpp	Pinyon Peak	20,753
Dv	Victoria	20,853
Dbb	Blue Belle	21,348

DRILL STEM TESTS
(from P.I.)

7859-7891

Op 30, SI 60, op 120, SI 240, op 300, SI 240, rec 911 SWCM, FP 35-67, 80-168, 194-409, SIP 3301-3314, HP 3799-3781.

7869-7891

Misrun.

8506-8881

Op 30, SI 60, op 170, SI 180, rec 744 mud, 6913 VSGCW, FP 3325-3762, 3768-3768, SIP 3768-3768, HP 4217-4203.

11,620-11,828

Misrun.

11,638-11,707

Op 30, SI 60, op 170, SI 180, rec 386 wtr, 22 mud, FP 165-165, 165-165, SIP 488-1027, HP 5443-5420.

11,764-11,828

Misrun.

17,325-17,392

Misrun.

17,331-17,392

Op 34, SI 58, op 155, SI 240, rec 2818 wtr cush, 1302 MCW, 558 mud, FP 1692-1892, 2004-3123, SIP 7183-7387, HP 8880-8717.

CORED INTERVALS

None Reported

PLACID OIL CO. NO. 1 WXC BARTON
NW SE 32-16S-1W
JUAB COUNTY, UTAH
LOG NO. D-6112

Spot NW SE Sec 32 Twp 16 S Rge 1 W
State UTAH County JUAB
Area (W)
Amstrat Log No. D-6112

Operator PLACID OIL CO.
Well No. NO. 1 WXC BARTON
Formation Penetrated DEVONIAN (BLUE BELLE)
Date Issued 5-31-88

AMERICAN STRATIGRAPHIC COMPANY
6280 E. 39 AVE. DENVER, COLORADO 80207
4546 BUSINESS PARK BLVD. ANCHORAGE, ALASKA 99503