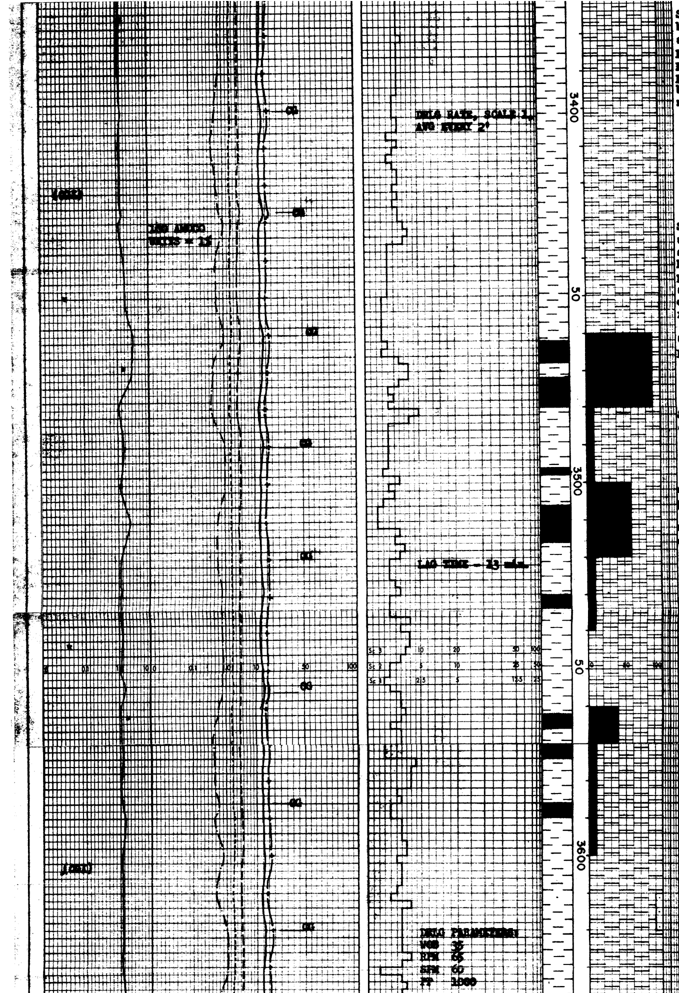


SH, pred lt gy-m gy-brn, sme vcal, blky-sb fis, m sft-m hd, pred arg, sl carb in pt, n-calc, occ dism py, occ c sd grs, sl-brn, w rd, no flor, no show

SH, pred m gy-gy brn, sme vcal, blky-sb fis, sm-sthy, sme wxy, m hd-hd, arg, sl carb in pt, brn sh pred slty, sme dk mrnls, incr amt of c sd grs, sl-brn, w rd, no flor, no show

COAL, blk, brit, m sft, platy, lstr, py

SH, A/A with calcite & cht

COAL, blk, brit, m sft, platy, lstr, py

COAL, A/A with sme sft, sthy, pred coal dust

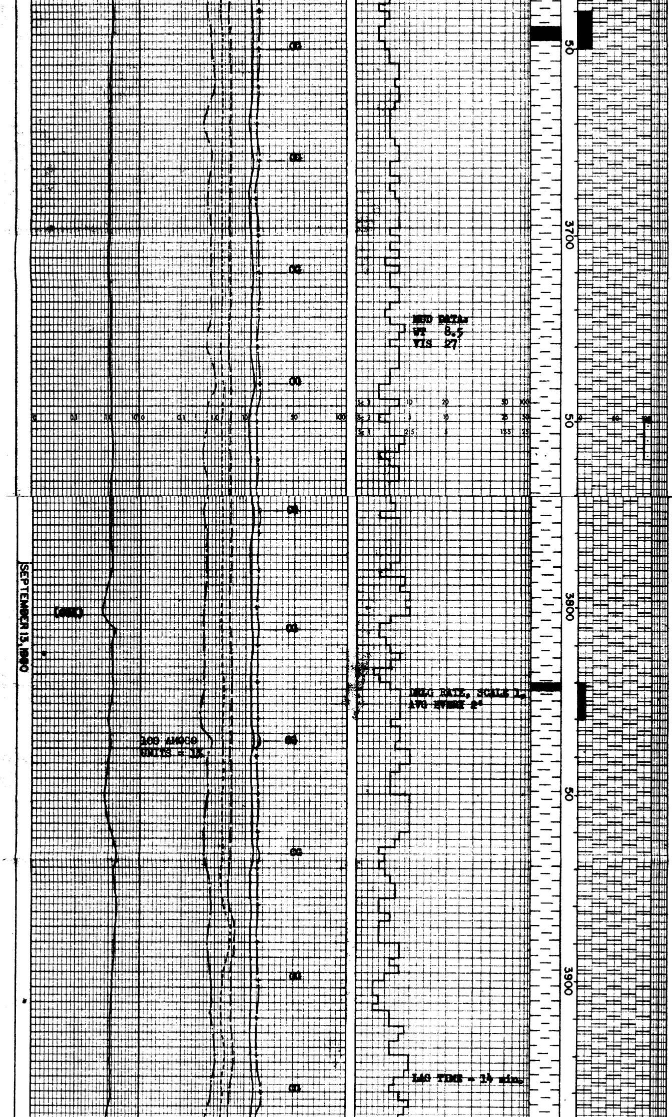
SH, pred lt gy-m gy, sme vcal, blky-sb fis, m hd-m sft, pred sm-wxy, sme sthy, arg, sl carb, slty in pt

COAL, blk, brit, m sft-sft, dull, sthy, pred coal dust

SH, A/A with incr amt of dk brn carb sh

DS @ 3616' - 1¼°

SS, wh-cl-lt gy, vf gr, rd-sb rd, w srt, mv cmt, n-calc, hd, sme dk mrnls, p vis por, no flor, no show



COAL, blk, brit, m sft-sft, dull, ethy, pred coal dust

SH, pred lt gy-m gy, sme vcol, blky-sb fis, m hd-m sft, pred sm-wxy, sme ethy, arg, sl carb, slty in pt, occ c qtz grs, cl, ang, occ anhy

SH, A/A with sme free py

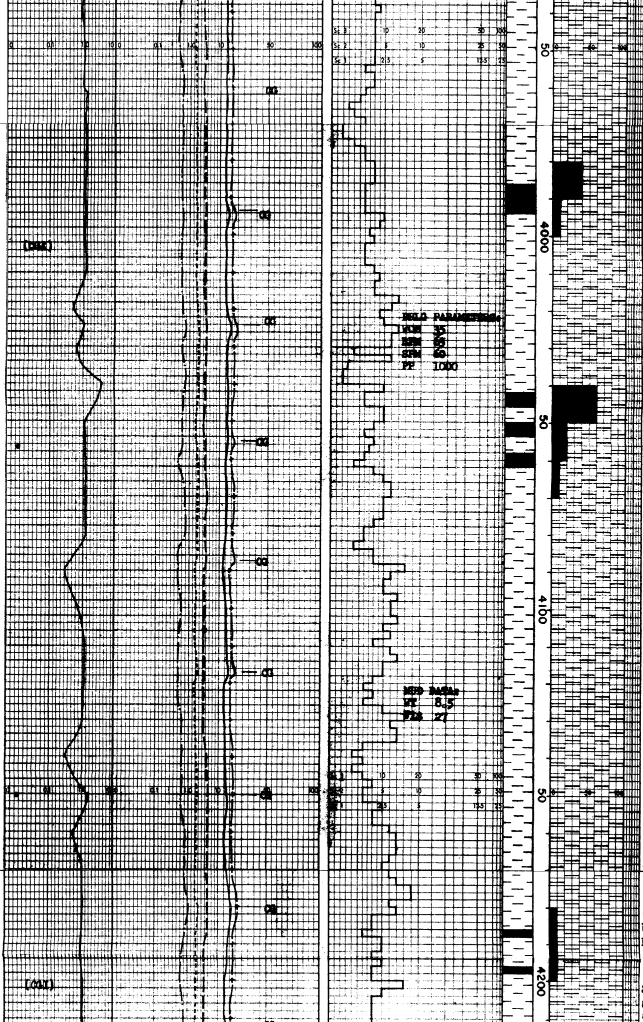
SS, cl-lt brn, lse gr, vf-c gr, rd-sb rd, p srt, no apr cmt, no flor, no show

SH, pred lt gy-m gy, sme vcol, blky-sb fis, m hd-m sft, pred sm-wxy, sme ethy, arg, sl carb, slty in pt, occ c qtz grs, cl, w rd-ang, occ py, occ calc

SH, lt gy-m gy-dk gy brn, blky-sb fis, sft-m hd, wxy-ethy, slty in pt, arg, sl carb, incr amt of slt
COAL, blk, brit, sb blky, sft, wxy, py

SH, A/A with decr amt of slt

SH, lt gy-m gy-dk gy brn, blky-sb fis, sft-m hd, wxy-ethy, slty in pt, arg, carb, incr amt of slt, occ c qtz grs, cl, w rd-ang, occ calc



SH, A/A with decr amt of slt

SH, lt gy-m gy-dk gy brn, blky-sb fis, sft-m hd, wxy-ethy, slty in pt, arg, carb, incr amt of slt, occ qtz & calc

COAL, blk, brit, sb blky, sft, lstr, py, pred coal dust

SH, pred lt gy-m gy, sme gy brn, blky-sb fis, m hd-m sft, pred wxy-sm, sme ethy, arg, carb in pt, slty in pt

COAL, blk, brit, sb blky, sft, lstr, py, pred coal dust

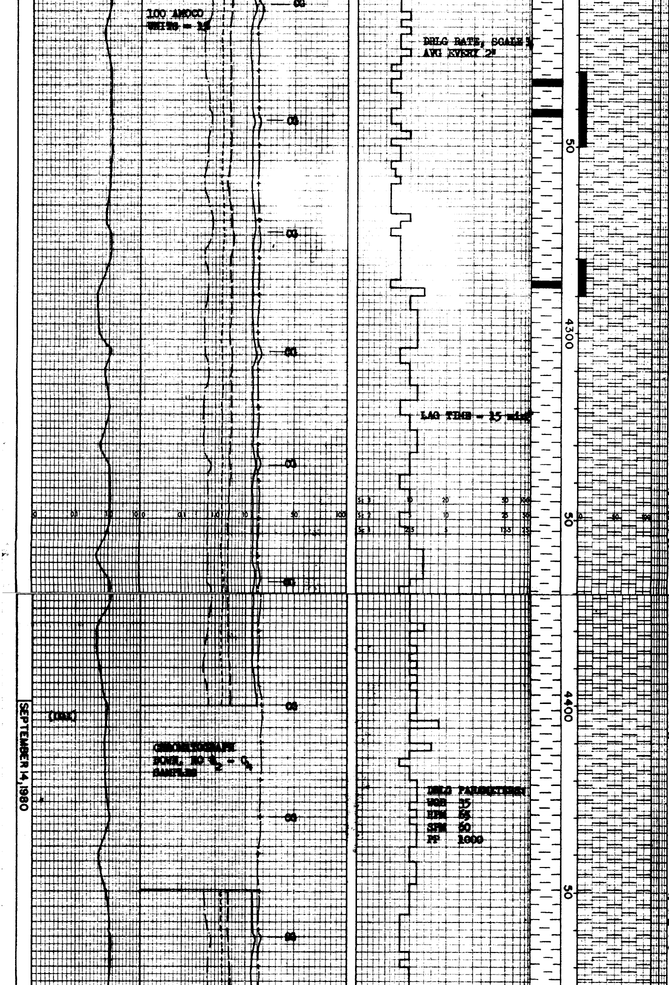
SH, A/A with incr amt of dk gy brn, slty, carb sh

SH, pred lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, pred wxy-sm, sme ethy, arg, carb in pt, slty in pt, occ qtz grs & calc

SH, pred lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, pred wxy-sm, sme ethy, arg, carb in pt, slty in pt, occ qtz grs & calc

COAL, blk, brit, sb blky, sft, lstr, py, pred coal dust

SH, pred lt gy-m gy-dk gy brn, blky-sb blky, sme sb fis, m hd-m sft,



pred wxy-sm, sme ethy, arg, carb in pt, slty in pt, occ qtz grs & calc, tr coal, A/A

COAL, blk, brit, sb blky, sft, lstr, py, pred coal dust

SH, pred lt gy-m gy-dk gy brn, blky-sb blky, sme sb fis, m hd-m sft, pred wxy-sm, sme ethy, arg, carb in pt, slty in pt, occ qtz grs & calc, tr coal, A/A

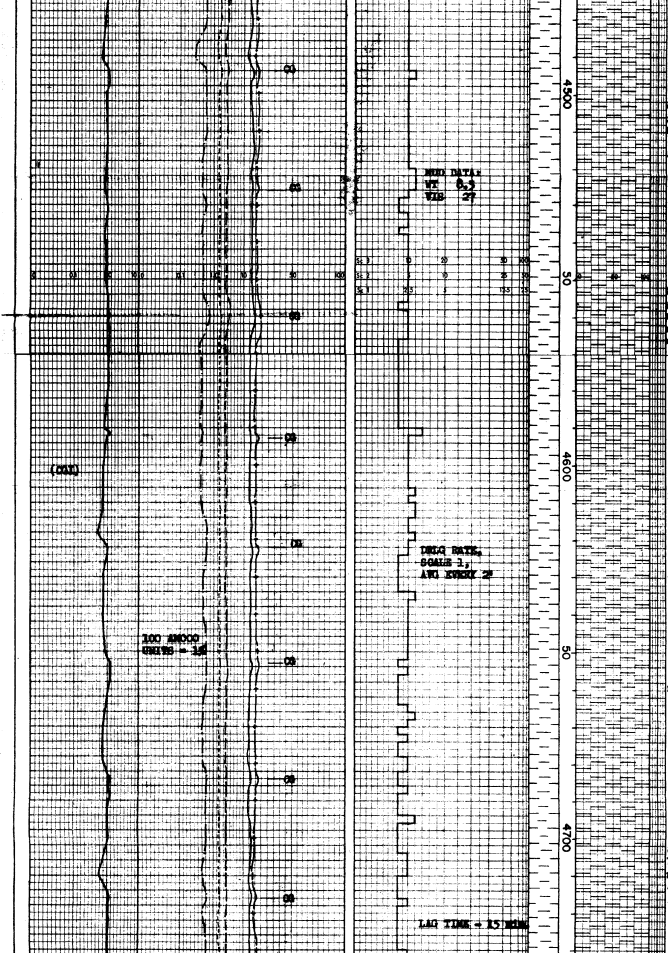
COAL, blk, brit, sb blky, sft, lstr, py, pred coal dust

SH, A/A with incr amt of dk gy brn carb sh, slty

SH, pred lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, pred wxy-sm, sme ethy, arg, carb in pt, slty in pt, occ qtz grs & calc

SH, pred m gy-dk gy-dk gy brn, sme vcol, blky, m hd-m sft, arg, carb, slty in pt, occ qtz & calc

SH, pred m gy-dk gy-dk gy brn, sme vcol, blky, m hd-m sft, arg, carb, slty in pt, occ qtz & calc



SH, pred m gy-dk gy-dk gy brn, sme vool, blky, m hd-m sft, arg, carb, slty in pt, occ qtz & calc

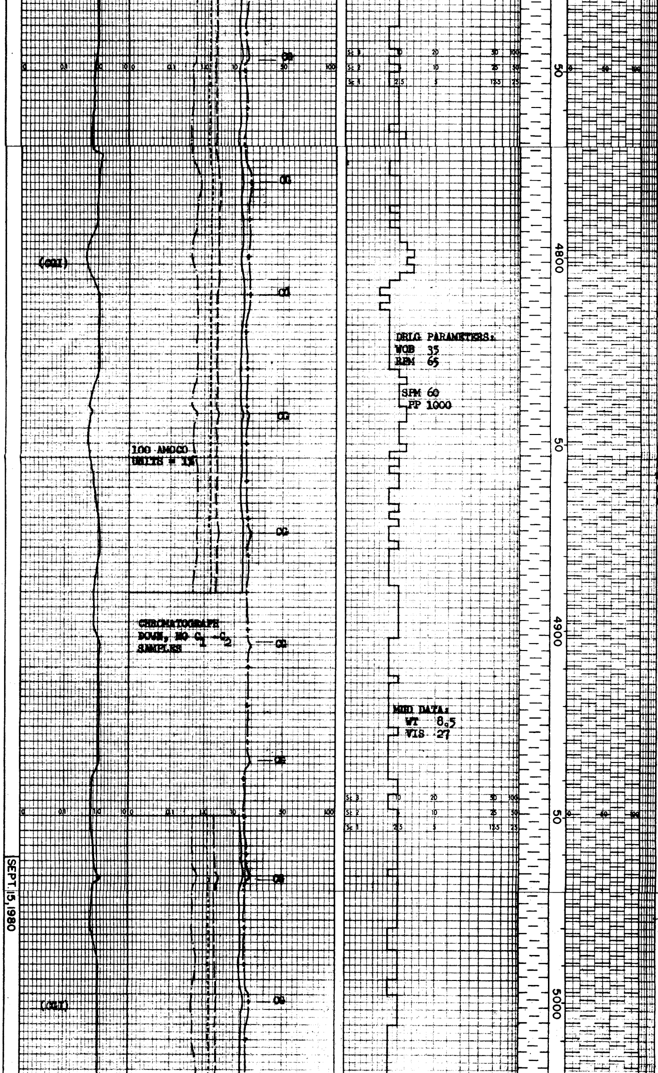
SH, pred m gy-dk gy-dk gy brn, sme vool, blky, m hd-m sft, arg, carb, slty in pt, occ qtz & calc, tr py

SH, pred m gy-dk gy-dk gy brn, sme vool, blky, m hd-m sft, arg, carb, slty in pt, occ qtz & calc

- DS @ 4629' - 1¼°

SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, sm-wxy, sme sthy, arg, carb in pt, slty in pt

SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, sm-wxy, sme sthy, arg, carb in pt, slty in pt, occ qtz



100 AMOCO UNITS = 1%

CHROMATOGRAPH DOWN, NO C_1 - C_2 SAMPLES

DRLG PARAMETERS:
WOB 35
RPM 65
SPM 60
PP 1000

MUD DATA:
WT 8.5
VIS 27

SEPT. 15, 1980

SH, A/A with tr anhy

SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, sm-wxy, sme sthy, arg, carb in pt, slty in pt, occ qtz

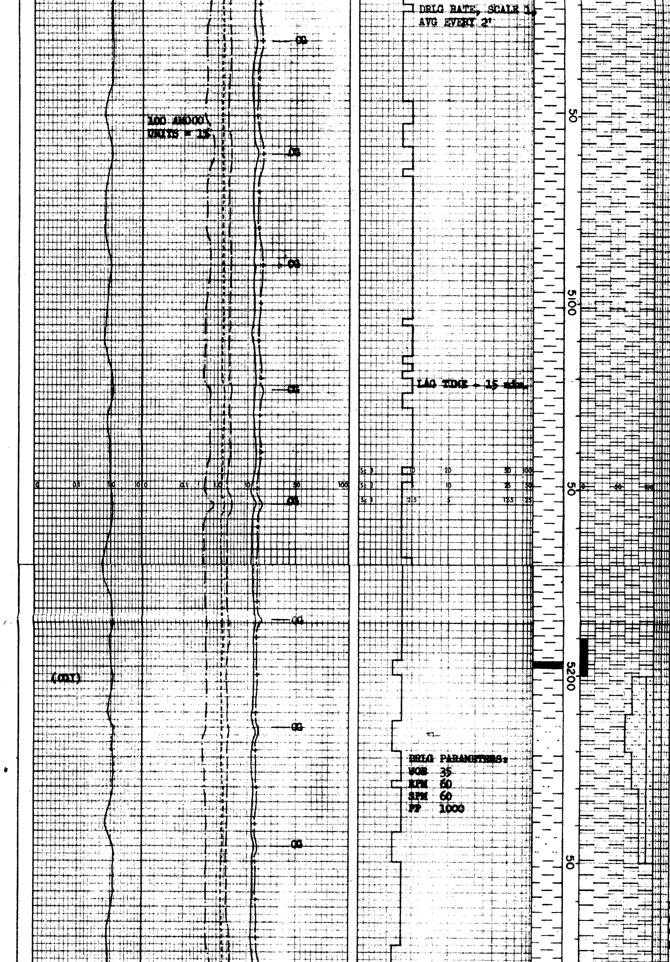
SH, A/A with dk gy brn sh bec v slty in pt

SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, sm-wxy, sme sthy, arg, carb in pt, slty in pt, occ qtz

SH, A/A with incr amt carb mat

SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd, sme m sft, sm-wxy, sme sthy, arg, carb in pt, decr amt of slt

SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, sm-wxy, sme sthy, arg, carb in pt, slty in pt, occ qtz & calc



SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, sm-wxy, sme ethy, arg, carb in pt, slty in pt, occ qtz, occ calc & anhy

SH, lt gy-m gy-dk gy brn, blky-sb fis, m hd-m sft, sm-wxy, sme ethy, arg, carb in pt, slty in pt, occ qtz, occ calc & anhy

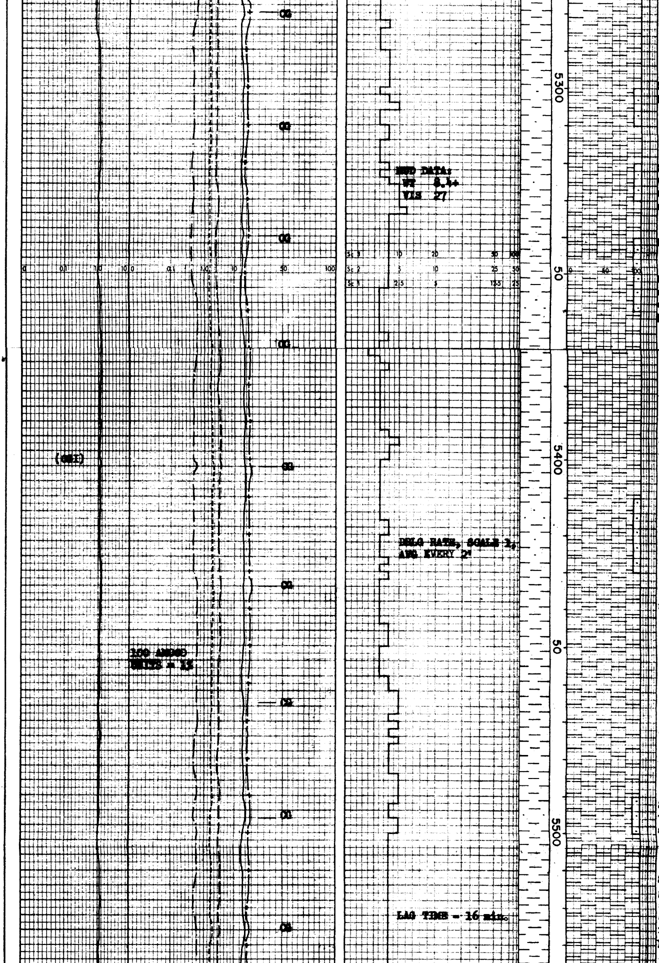
SH, pred gy brn, sme vcal, sb-fis-sb blky, sft, abnt carb mat, slty in pt

SH, A/A with incr amt of slt, abnt qtz, cl, ang

- DS @ 5153' - 1½°

SH, pred gy brn, sme vcal, sb fis-sb blky, sft, abnt, carb mat, slty in pt, calc in pt
COAL, blk, brit, sft, conch frac
SS, cl-brn, lse grs, vf-m gr, sb rd-rd, no apr cmt, no flor, no show
SLTST, cl-brn, nearing vf ss, calc, carb mat in pt
SH, A/A but pred n-calc

SH, pred gy brn-dk brn, sb fis-sb blky, m hd-m sft, carb mat, alty in pt, calc in pt



SS, A/A
SH, A/A with incr calc

SS, cl-brn, lse grs, vf-m gr, sb rd-rd, no apr cmt, no flor, no show

SS, A/A

SH, pred gy brn-dk brn, sb fis-sb blky, m hd-m sft, carb mat, slty in pt, calc

SH, A/A but less calc

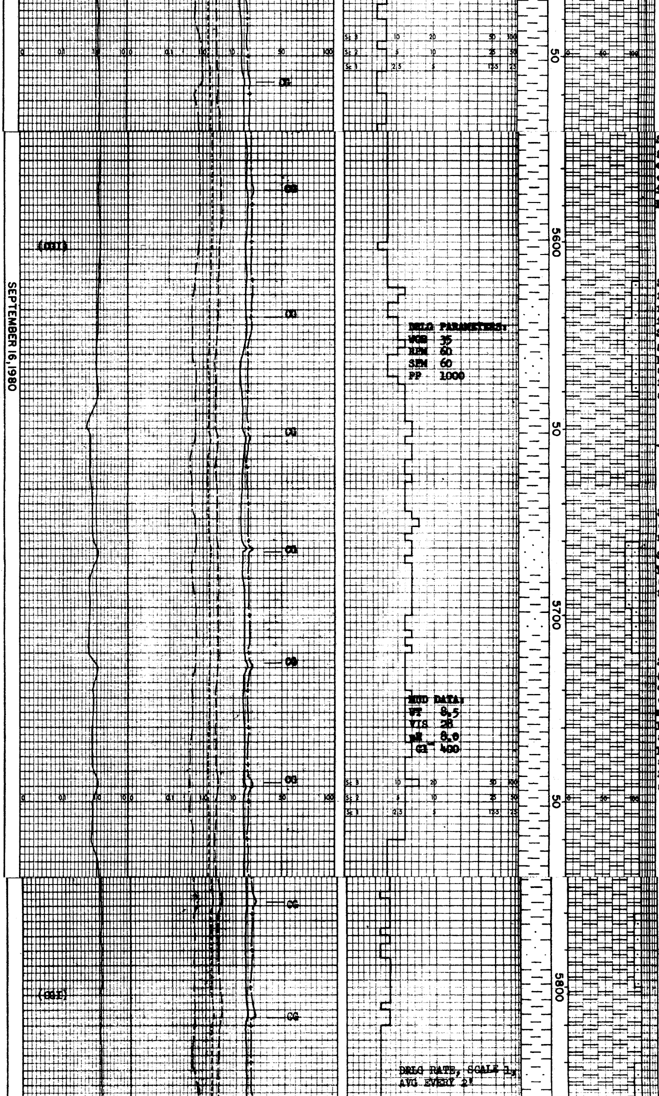
SS, cl-brn, lse grs, vf-c gr, sb rd-rd, no apr cmt, no flor, no show

SH, pred gy brn-dk brn, sb fis-sb blky, m hd-m sft, carb mat, slty in pt, calc

SH, A/A but v sl calc

SS, cl-brn, lse grs, vf-c gr, sb rd-rd, no apr cmt, no flor, no show

SH, pred m gy-dk brn gy-blk, sme vcol, sme slty, m hd-m sft, arg, carb in pt, calc, slty in pt, sme dk mnrls & py



SH, pred m gy- dk brn gy-blk, sme vool, sm-ethy, m hd-m sft, arg, carb in pt, calc, slty in pt, sme dk marls & py

SS, pred lse grs, cl-fros, vf-c gr, rd-sb rd, no apr cmt, no flor, no show

SH, A/A with sme wh-lt gy, m hd, sm, n-calc, pale yel flor, fair show, brn stn, (amt of flor sh near 1%-5% of sample)

- DS @ 5654' - 1½°

SH, A/A sme flor sh [illegible] calc, (amt of flor sh near 1%-5% of sample)

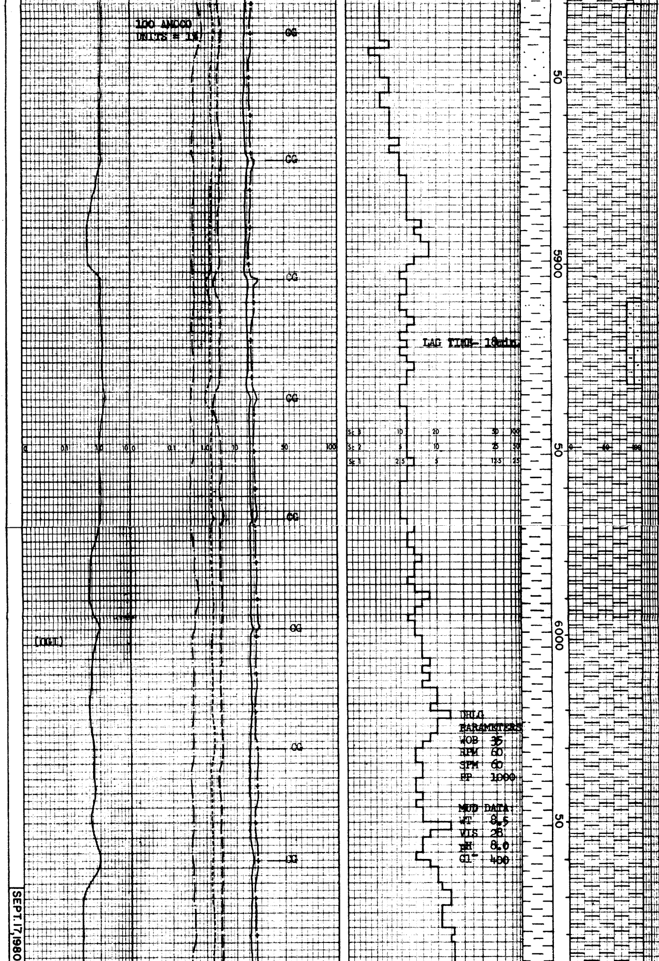
SS, lse grs, cl-fros, pred vf-m gr, sme c gr, sb ang-rd, no apr cmt, no flor, no show

SH, pred m gy-dk brn gy-blk, sme vool, sm-ethy, m hd-m sft, arg, carb in pt, sme dk marls in pt, slty, occ py, sme wh-lt gy, m hd, sme m sft, sm, n-calc, pale yel flor, fair show, brn stn, (amt of flor sh near 1%-3% of sample

SH, pred m gy-dk brn gy-blk, sme vool, sm-ethy, m hd-m sft, arg, carb in pt, pred slty, occ py, sme wh-lt gy, m hd, sme sft, sm, n-calc, pale yel flor, tr show, brn stain, (amt of flor sh near 1%-3% of sample)

SS, lse grs, cl-fros, pred vf-m gr, sme c gr, sb ang-rd, no apr cmt, no flor, no show

SS, A/A



SH, A/A with decr amt of flor sh

SH, pred m gy-dk brn gy-blk, sme vol, sm-ethy, m hd-m sft, arg, carb, pred slty, occ py, (flor sh less than 1% of sample)

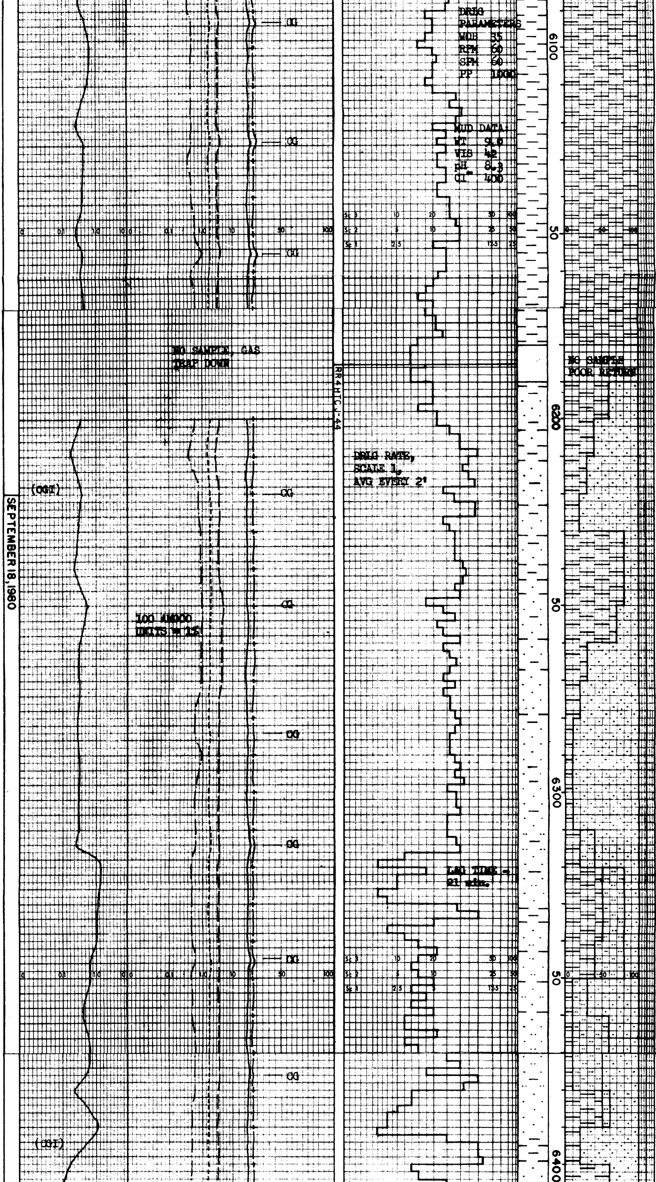
SLTST, wh-cl-lt gy, blky, m sft-m hd, sme dk mnrls, calc, nearing vf ss

SS, wh-lt gy-lt brn, sme s&p, pred vf gr, sme c gr, sb ang-rd, m-mw srt, w cmt, n-calc, p vis por, no flor, no show

SH, m gy-dk gy-dk brn, m hd, sm-ethy, arg, pred slty, carb, calc, occ py

SH, m gy-dk gy-dk brn, m hd, sm-ethy, arg, pred slty, carb, calc, occ py

SH, m gy-dk gy-dk brn, m hd, sm-ethy, arg, pred slty, carb, calc, occ py



SH, m gy-dk gy-dk brn, m hd, ~~sm~~-ethy, arg, pred slty, carb, calc, occ py

SH, m gy-dk gy-dk brn, m hd, sm-ethy, arg, pred slty, carb, calc, occ py

SS, lt tan-lt gy-cl, pred vf-f gr, occ c gr, rd-sb rd, mw-w srt, calc in pt, occ dk mnrls, tt vis por, bri yel flor, fr cut, brn stn

SS, A/A but dull yel flor, no cut

SS, A/A but dull org flor, no cut

SS, A/A with pale yel flor, no cut

SH, dk gy-dk gy brn-blk, blky, m hd-m sft, pred ethy, arg, slty, carb, pred n-calc

SS, lt tan-lt gy-cl, pred vf-f gr, sme m-c gr, rd-sb ang, mw-w srt, calc, tt vis por, pale yel flor, no cut

SS, pred wh-cl, vf-m gr, rd-sb ang, m-mw srt, w cmt, calc, tt vis por, pale yel flor, no cut

SS, ~~lt gy~~-lt tan-cl, pred vf gr, rd-sb rd, mw-w srt, mw cmt, calc, tt vis por, pale yel flor, no cut

SLTST, lt brn-lt brn gy, blky, sl arg in pt, calc, tr carb mat

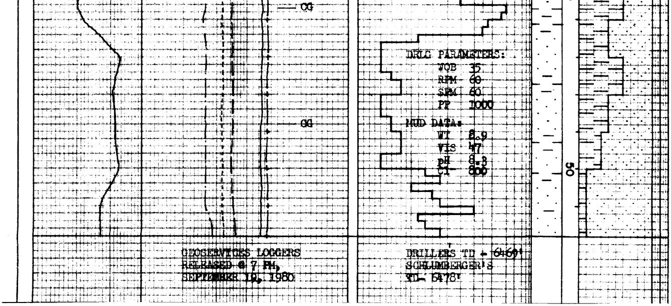
SS, A/A with pale yel flor, no cut

SH, A/A but v slty

SS, wh-lt gy-cl, cln, abnt lse grs, rd-sb ang, pred f-m gr, w srt, p cmt, g vis por, pale yel flor, no cut

SLTST, A/A, grdg to vf gr ss

SS, lt tan-lt gy-cl, abnt lse grs pred f-m gr, pred vf gr, rd-sb ang, w-mw srt, w cmt in pt, p-fr vis por, pale yel flor, no cut



DRLG PARAMETERS:
WOB 35
RPM 60
SPM 60
PP 1000

MUD DATA:
WT 8.9
VIS 47
pH 8.8
Cl 800

GEOSERVICES LOGGERS
RELEASED @ 7 PM,
SEPTEMBER 19, 1980

DRILLERS TD - 6469'
SCHLUMBERGER'S
TD- 6478'

SS, lt tan-lt gy-cl, pred vf-f gr, sme m-c grs, rd-sb ang, m-mw srt, w-mw cmt, p-fr vis por, pale yel flor, no cut

SH, dk gy-dk gy brn-blk, blky-sb blky, m hd-m sft, pred ethy, arg, slty, carb, pred n-calc

SS, A/A with pale yel flor, tr cut

SS, wh-cl, pred f-m gr, rd-sb rd, w-mw srt, calc cmt, tt vis por, occ pale yel flor, no cut - DS @ 6468' - 1 3/4°