





Note:secondary mrls  
expressed in direct  
percentages, e.g. 1=  
1%, -=tr, += greater  
than 10%.

Note:kickoff @ 2050'  
w/Dyna Drill, drlg  
ahead w/mud.

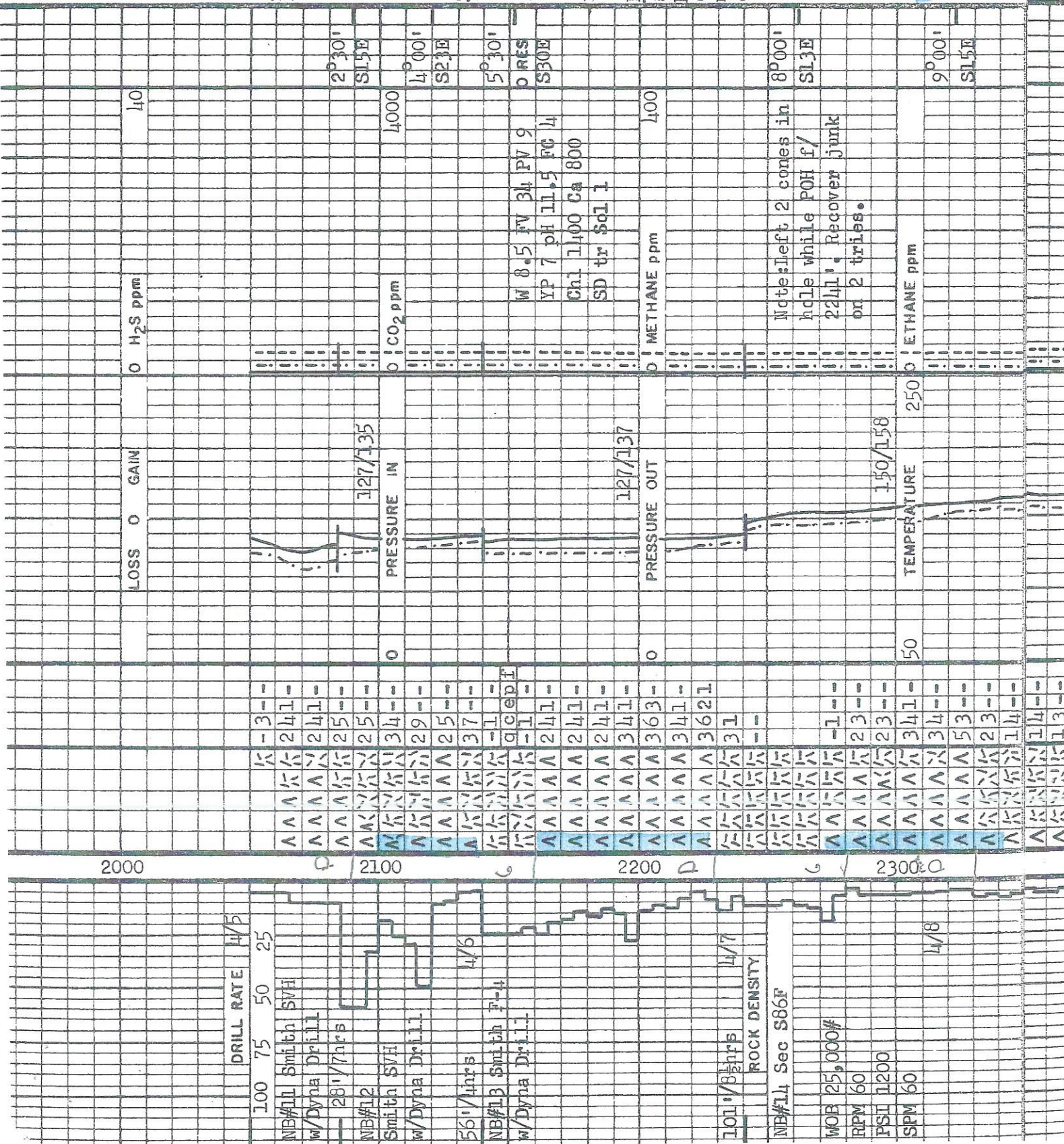
Granite:lt gry,wht,mnr  
pnk,mod hd-v hd,med-  
crs gr,abdt ctclstc  
tex,pred plag,qtz,mnr  
k-spar,tr-mnr slt altd  
biot,40% clay @ 2120',  
mnr silic & calc vng,  
tr epid grs,tr pyr.

Granite:v lt from 2140'  
to 2160',wht w/sl orn  
tint inc w/depth,med  
gr,hd,pred qtz & feld,  
tr orn min pos garnet  
or sphene,tr chlor,tr  
mag,r spec hem,r pyr.

Diorite:blu-blk,dk gry,  
grn,hd-v hd,fn-med gr,  
pred plag & biot,com  
chlor altn,com calc vng  
mnr silic vng,tr-loc  
com epid,tr pyr.

Granite:lt gry,wht,mnr  
pnk,fn-med gr,ctclstc  
& mod frac,pred fzy &  
frac plag,rndd qtz,tr-  
mnr frac biot com altd  
to chl & hem,loc com  
wht cly slicks,tr yel/  
pnk frac fill,in fault  
cntct w/Diorite:micro-  
med gr,v rxln,ctclstc,  
slt fol,epid grns.

Granite/Felsite? :lt.





microxln, no-tr biot,  
com-abdt wht cly slicks  
tr silic vng.

Granodiorite: dk gry-  
blk, grn, hd-v hd, fn-med  
gr, pred plag & biot,  
loc v abdt biot pos  
xeno, com chlortzd biot  
mmr qtz, com calc vng,  
tr silic vng, tr epid.

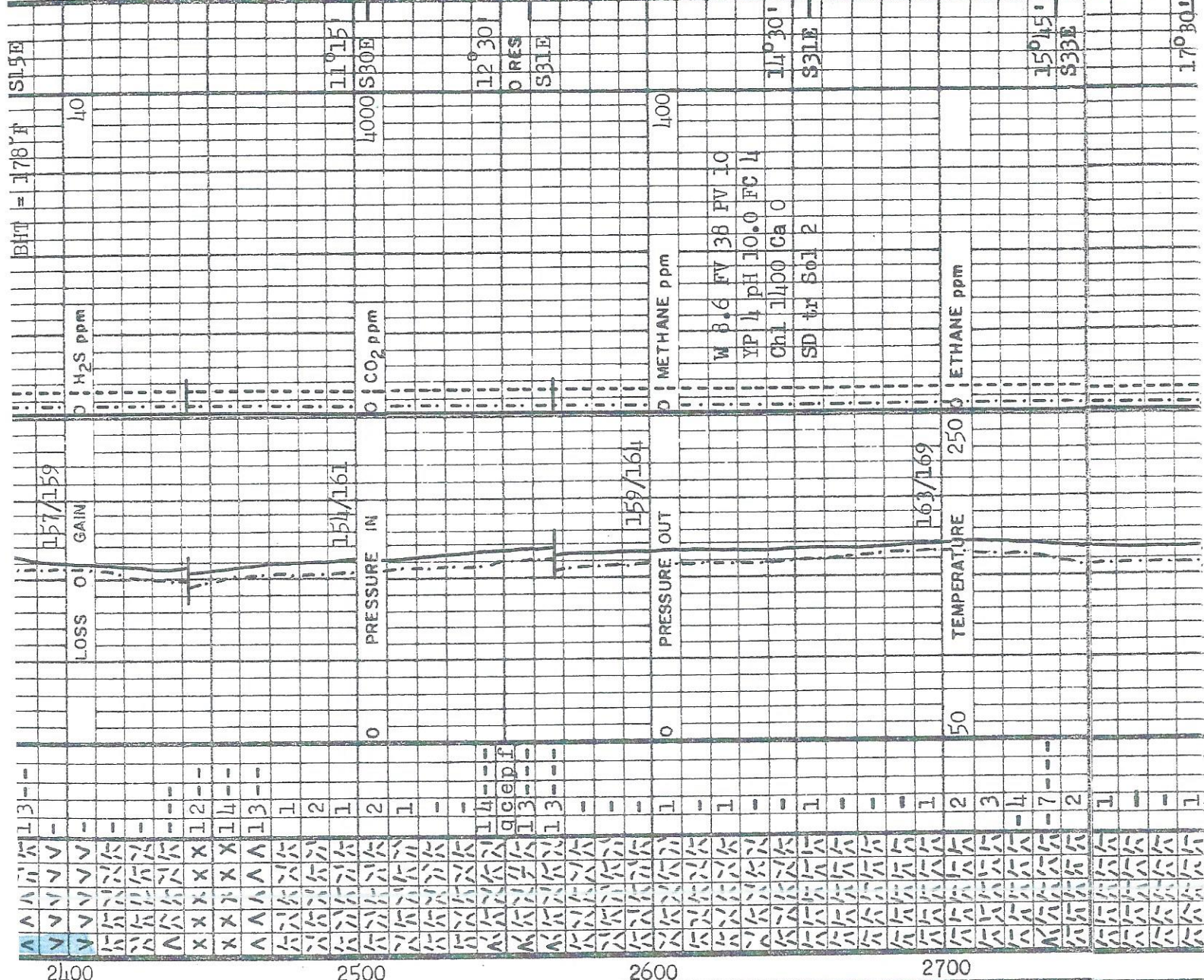
Granite: pred wht, loc  
mmr pnk, hd-v hd, pred  
suc-v fn gr, loc fn gr,  
pred k-spar & qtz, tr-  
mmr biot loc chlortzd,  
tr-mmnr sft wht alt  
feld, tr calc vng, tr-  
loc mmr mag, r hem.

Granite: wht, hd-v hd,  
loc brittle, v fn-fn gr,  
pred k-spar & qtz, mmr  
biot & loc chlortzd  
biot, mmr sft wht alt  
feld, tr calc vng, tr  
mag, r hem.

Granite: lt gry, pnk, wht,  
hd-v hd, med-crs gr, pred  
frac & fzyz plag, k-spar  
& wht cly w/abundnt qtz  
grns, r biot & magnt, loc  
slt fol, tr-mmnr calc vng  
r hem.

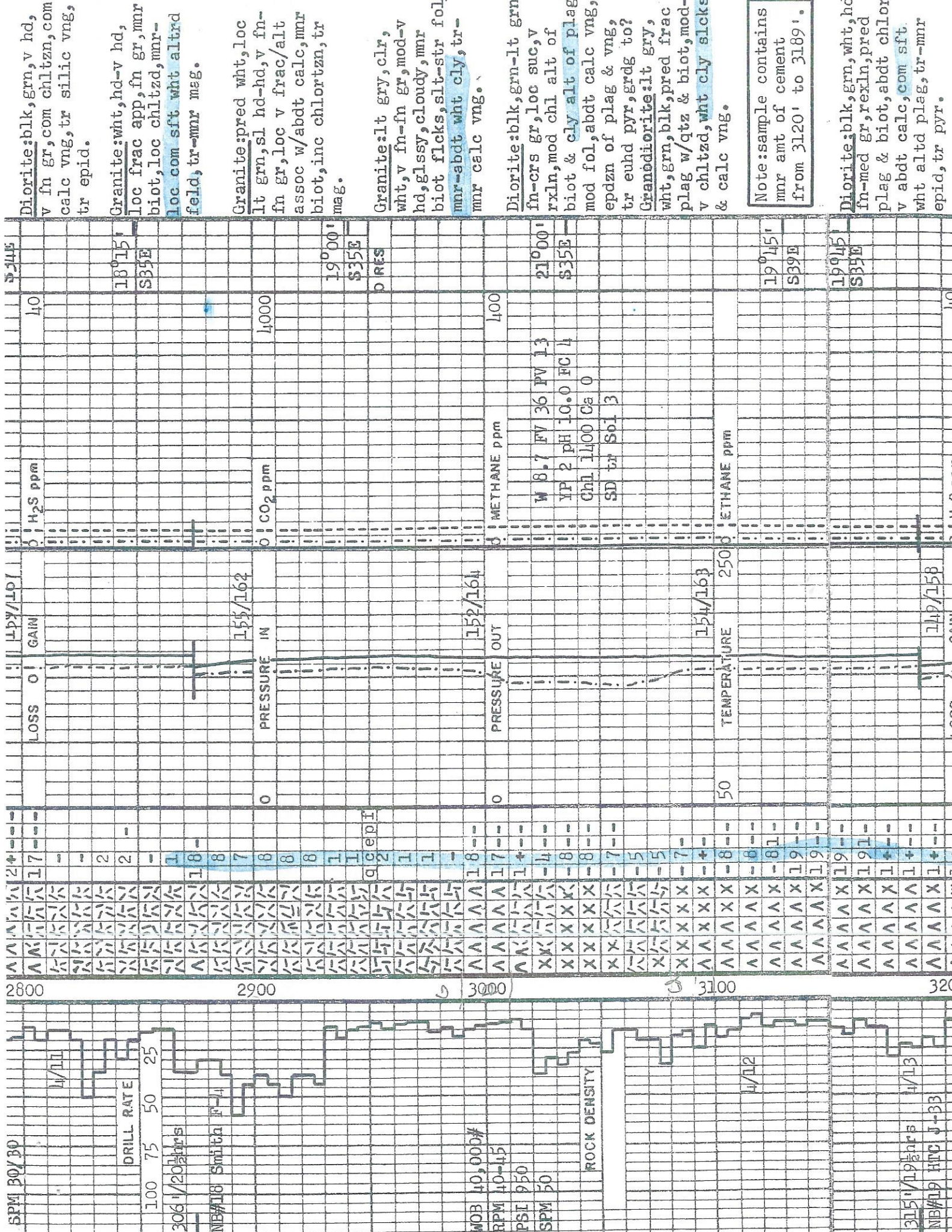
Granite: lt gry, wht, hd-  
v hd, pred plag & qtz  
w/mmnr-abdt biot, crs gr,  
v frac, slt chltzn, tr  
magnt, w/Diorite: blu-  
blk, sl alt, suc tex.

Granite: lt gry, wht, mmr  
pnk, v hd, fn-med gr,  
mmr biot, sl chltzn,  
v frac & fzyz w/mod



INB#17	PMILTON F-4	W/Dyna Drill	65"/65hrs	DRILL RATE 4/9	NB#16 Sec S86F	126"/15hrs	4/10	NB#17 Sec S86F	WOB 32,000#	RPM 60	PSI 1200	SPM 30/30	ROCK DENSITY	WOB 36,000#	RPM 45	SPM 1200
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Diorite: blk, grn, v hd, v fn gr, com chltzn, com calc vng, tr silic vng, tr epid.

Granite: wht, hd-v hd, loc frac app, fn gr, mntr biot, loc chltzd, mntr-loc com sft wht altd feld, tr-mnr mag.

Granite: pred wht, loc lt grn, sl hd-hd, v fn-fn gr, loc v frac/alt assoc w/abdt calc, mntr biot, inc chlortzn, tr mag.

Granite: lt gry, clr, wht, v fn-fn gr, mod-v hd, glssy, cloudy, mntr biot flcks, slt-str fol, mntr-abdt wht cly, tr-mnr calc vng.

Diorite: blk, grn-lt grn fn-crs gr, loc suc, v rxln, mod chl alt of biot & cly alt of plag mod fol, abdt calc vng, epdzn of plag & vng, tr euhd pyr, grdg to? Granodiorite: lt gry, wht, grn, blk, pred frac plag w/qtz & biot, mod-v chltzd, wht cly slcks & calc vng.

Note: sample contains mntr amt of cement from 3120' to 3189'.

Diorite: blk, grn, wht, hd, fn-med gr, rexln, pred plag & biot, abdt chlor, v abdt calc, com sft wht altd plag, tr-mnr epid, tr pyr.



Granodiorite med-lt  
grv. wht. mny lt. grn. f-



shr zones & v abdt wnt  
cly,grn cly,mnr calc,  
trpyr.

Granite:wht,lt gry,  
grdg to abdt pnk,r sl  
chltzd biot.

Granodiorite:gnly a/a  
loc suc tex,v frac,sl  
rxln,mnr chl,tr cly,  
shr cntc w/Diorite:v  
str fol,sl-str altd.

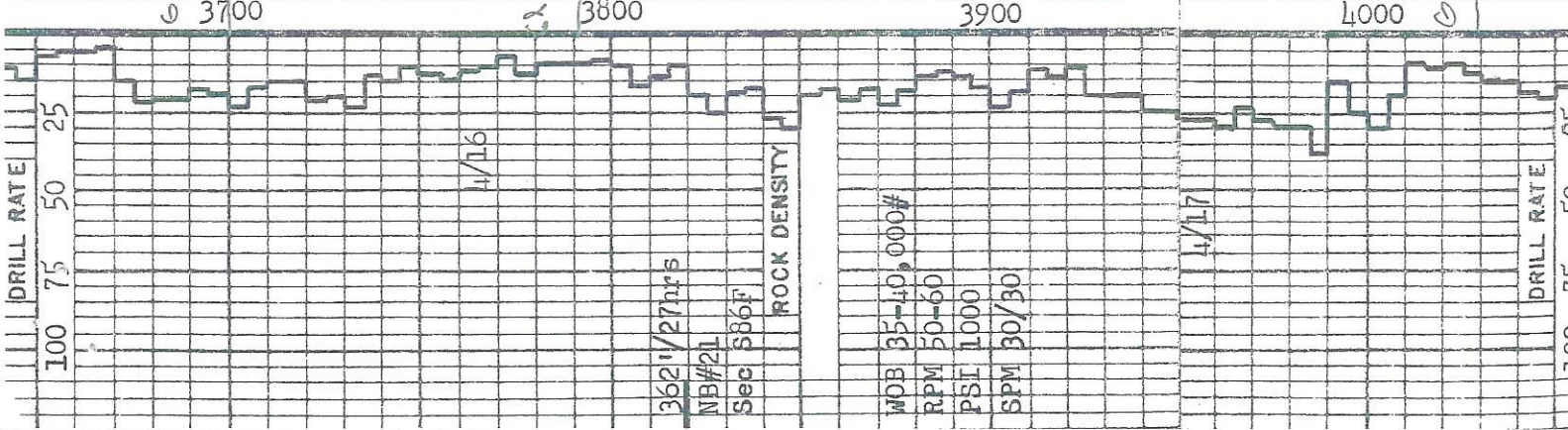
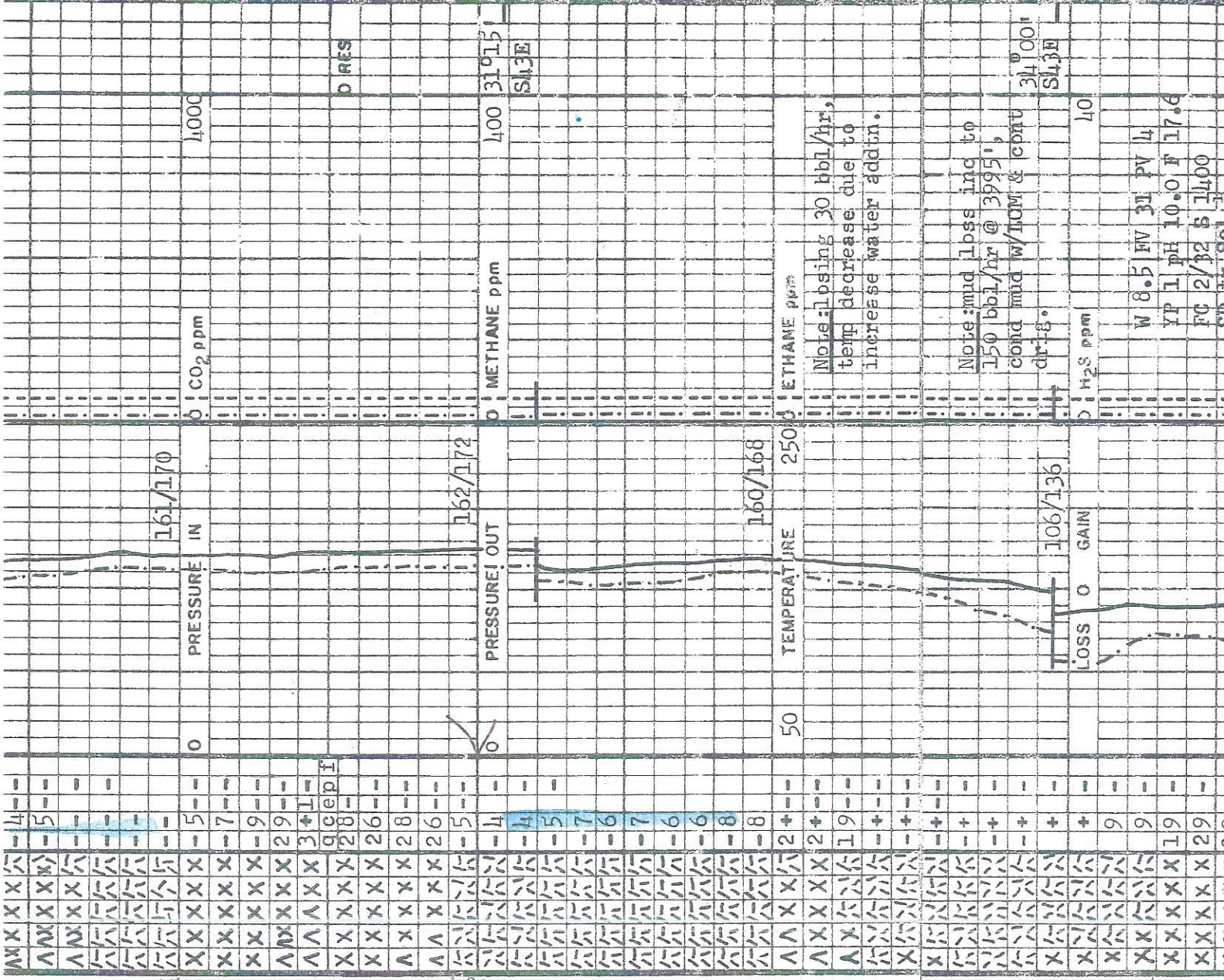
Granite:pred wht-lt  
gry,loc mnr pnk,hd-v  
hd,fn-med gr,pred qtz  
& k-spar,mnr-com biot  
& chlortzd biot,mnr-  
com sft wht clay altn,  
mnr-com calc, tr pyr,  
tr mag.

Granite:wht,lt gry,pnk  
loc mnr lt grn,frm-v  
hd,fn-crs gr,mod-v frac  
com-abdt wht cly,mnr-  
com calc vng,tr silic  
vng,tr pyr,tr hem vng,  
r-tr magnetite.

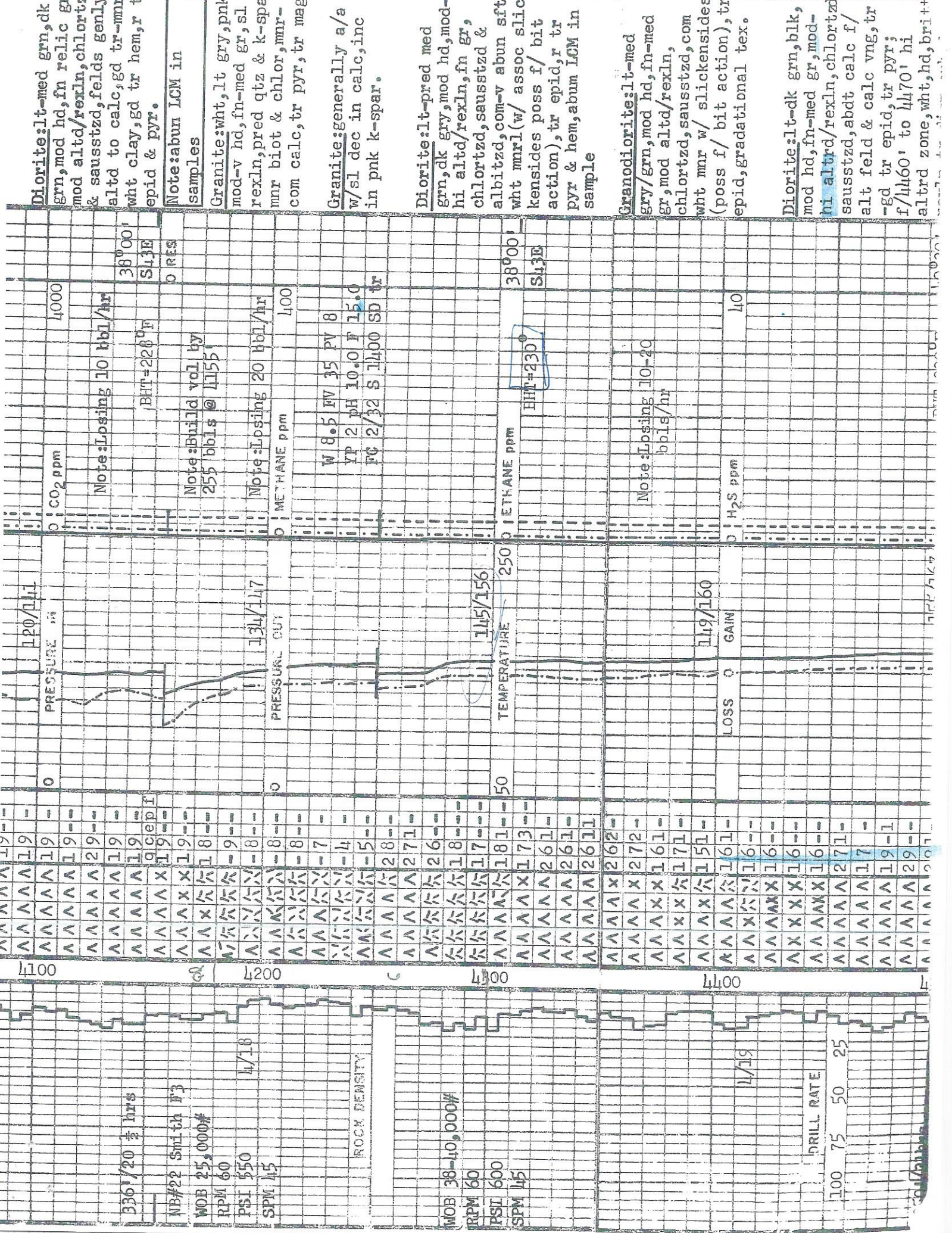
Diorite:grn,blu-blk,fn  
-med gr,frm-v hd,pred  
v chltzd & mod fol.

Granite:wht-lt gry,mod  
hd,fn-med gr,brittle &  
frac,pred qtz & feld,  
tr-mnr biot loc chlor,  
v abdt calc & calc  
frac fill,tr pyr,tr mag

Granodiorite:lt-med  
grn,mod hd-hc,pred fn  
gr,mnr med gr,mod-hi







Diorite:lt-med grn,dk grn,mod hd,fn relic gr, mod altd/rexln,chloztzd & sausstzd,felds genly altd to calc,gd tr-mm r wht clay,gd tr hem,r tr epid & pyr.

Note:abun LCM in samples

Granite:wht,lt gry,pnk, mod-v hd,fn-med gr,sl rexln,pred qtz & k-spar mmr biot & chlor,mmr-com calc,tr pyr,tr mag.

Granite:generally a/a w/sl dec in calc,inc in pnk k-spar.

Diorite:lt-med grn,dk gry,mod hd,mod-hi altd/rexln,fn gr, chlortzd,sausstzd & albitzd,com-v abun sft wht mmrl(w/ assoc slickensides poss f/ bit action),tr epid,r tr pyr & hem,abun LCM in sample

Granodiorite:lt-med gry/grn,mod hd,fn-med gr,mod altd/rexln, chlortzd,sausstzd,com wht mmr w/ slickensides (poss f/ bit action),tr epid,gradational tex.

Diorite:lt-dk grn,blk, mod hd,fn-med gr,mod-hi altd/rexln,chloztzd sausstzd,abdt calc f/ alt feld & calc vng,tr -gd tr epid,tr pyr; f/4460' to 4470' hi altd zone,wht,hd,bri++

Note:Losing 10 bbl/hr

BHT=228°F

Note:Build vol by 255 bbls @ 1155'

Note:Losing 20 bbl/hr

W 8.5 FV 35 PV 8  
YP 2 PH 10.0 F 15.0  
FC 2/32 S 1400 SD tr

BHT=230°F

Note:Losing 10-20 bbls/hr

120/141

PRESSURE, psi

134/147

PRESSURE, psi

115/156

TEMPERATURE

149/160

LOSS, GAIN

4100

4200

4300

4400

336' / 20 1/2 hrs

NB#22 Smith F3

WOB 25,000#

RPM 60

PSI 550

SPM 45

4/18

ROCK DENSITY

WOB 38-40,000#

RPM 60

PSI 600

SPM 45

4/19

DRILL RATE

100 75 50 25

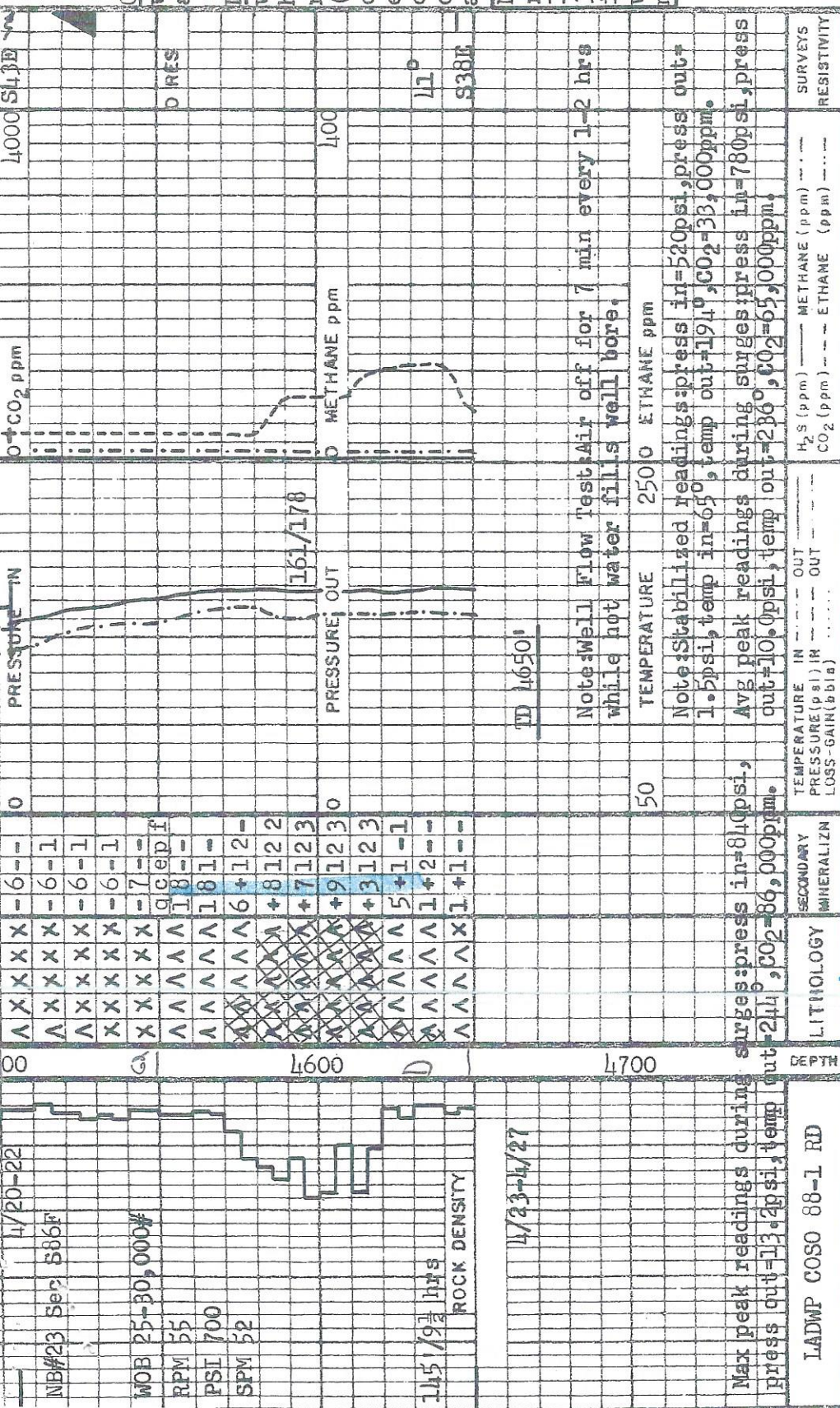


Note: ran logs at 4505', cont drlg 83/4" hole w/mud.

Granodiorite: genly a/a w/ cont mod hydrotherm alteration.

Diorite: (mineralized), wht, lt grn, sft-mod hd, hi altrd/rexln, loc vis relic tex, abun sec qtz (chalcedony), mnr-abun calc, com zeolite, mnr-euhed solitary pyr, mnr-com sec fields, tr epid, com clove brn mml (poss axinite), tr euhed qtz.

Note: Drill to 4650', ran 7" perf liner f/ 1765'-4531', pick up 3 1/2" DP, wash liner, stage in, flow well for 70 hrs w/ 2400 cfm air, well making 200 bbls/hr.



4/23-4/27

LADWP COSO 88-1 RD