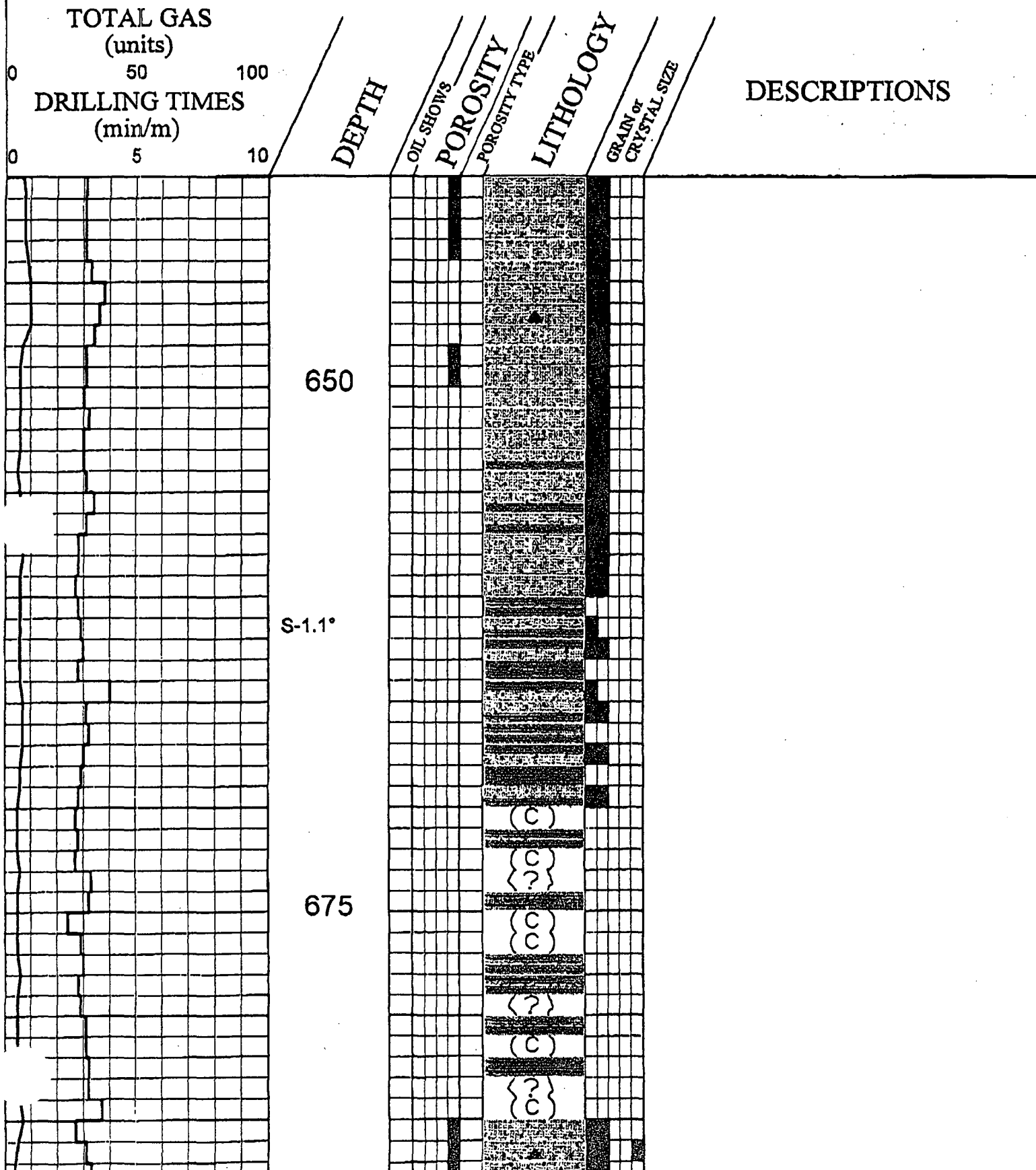


CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



700

S-1.1°

725

750

ADJUST TRAP

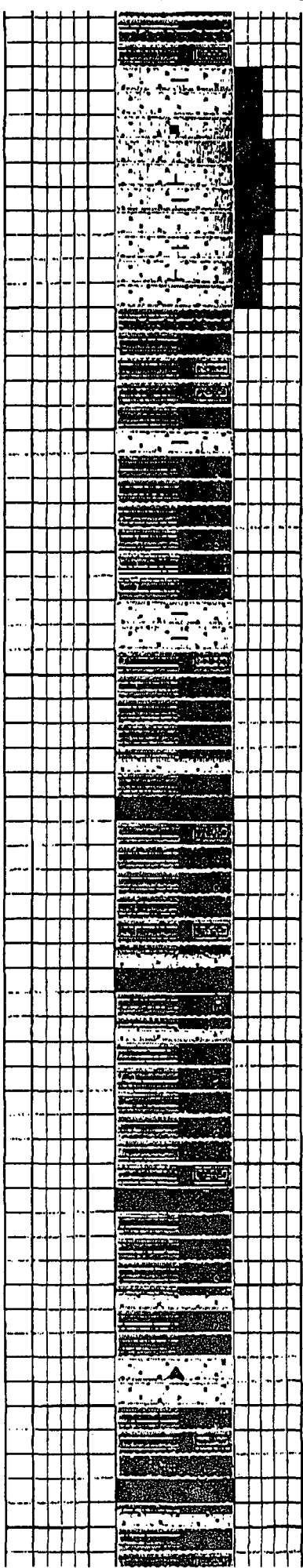
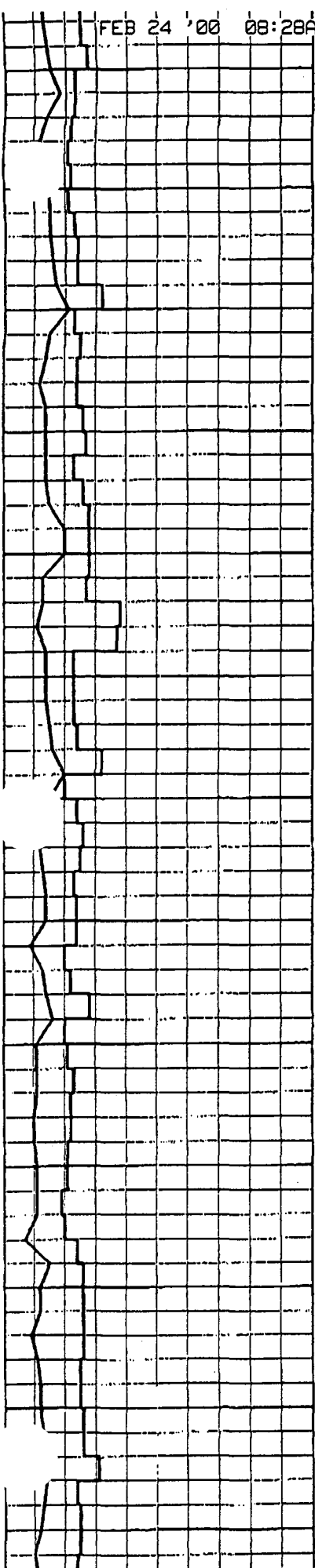
{?}

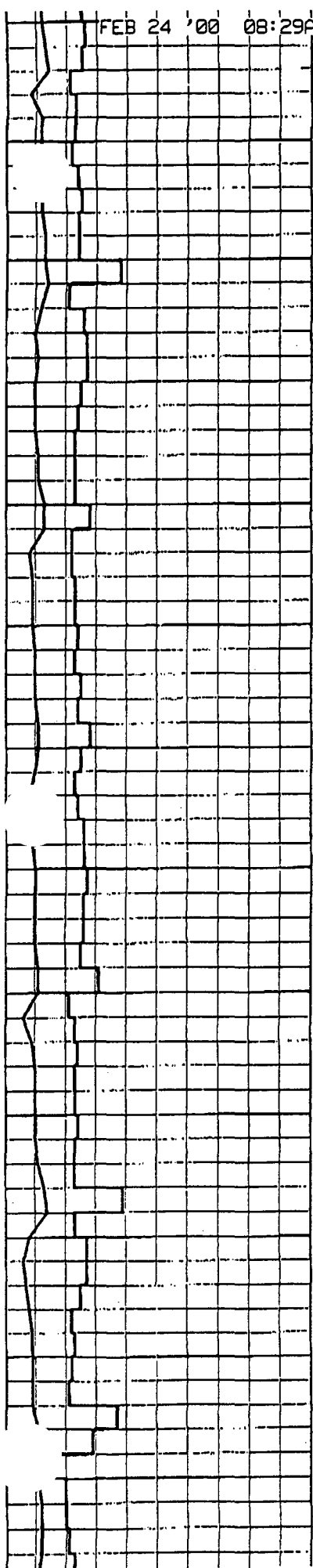
(C)

{?}

775
S-.5°

800

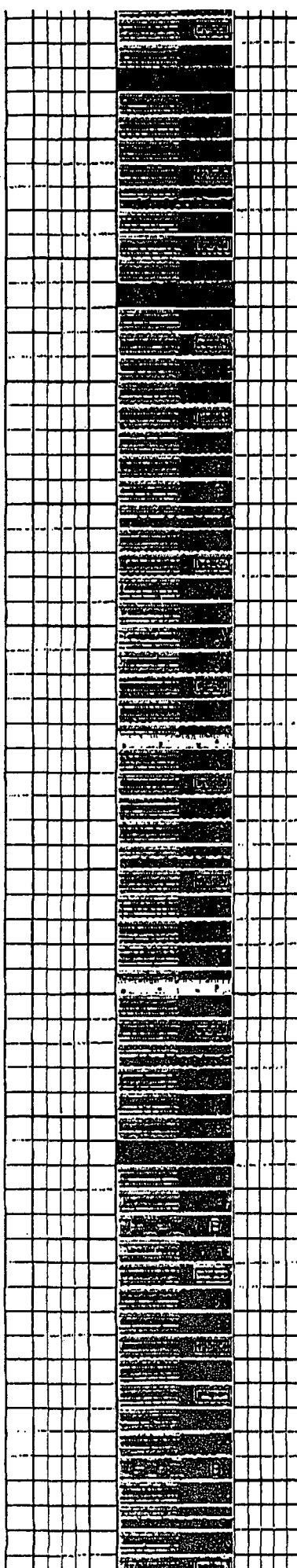




850

S-1.3°

875



Slide

Rotate

900

S-4°

925

00/02/24

FOB 13-15000

RPM 40

DENS 1015

VISC 29

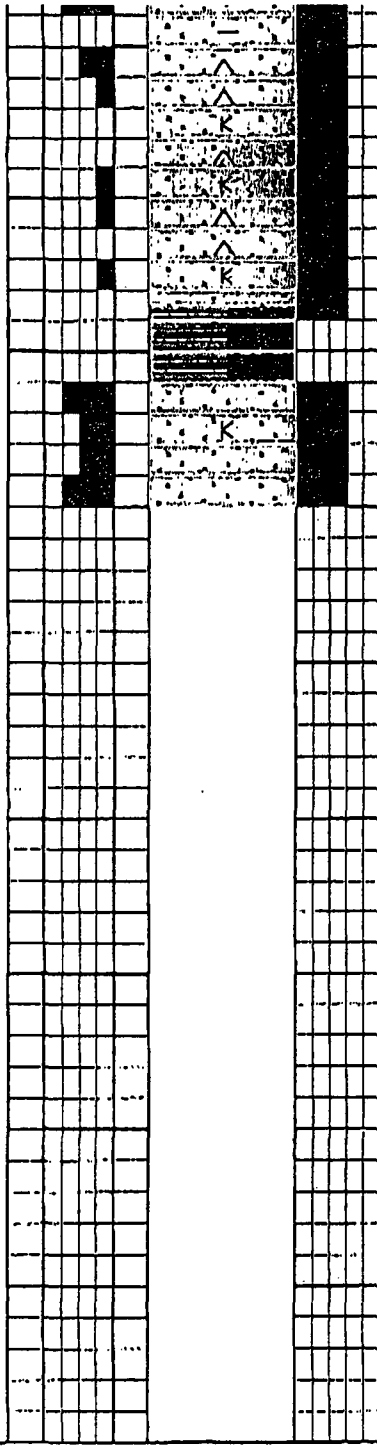
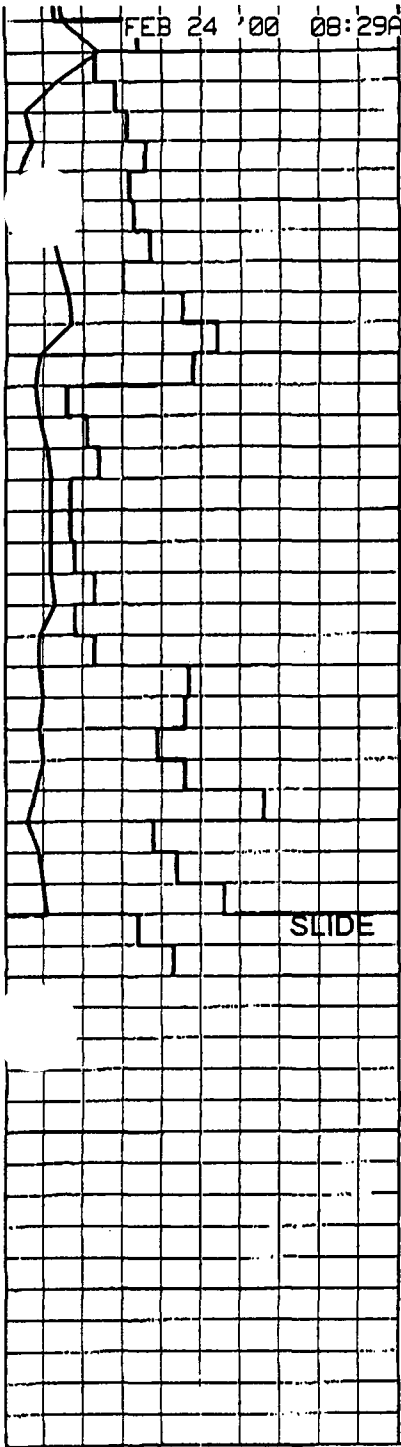
Lost circulation
Poor Samples

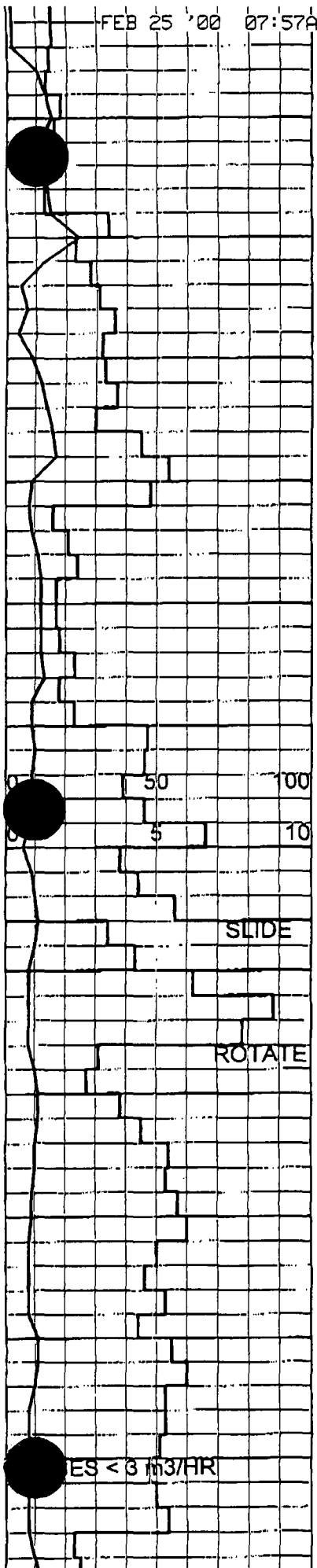
950

975

SLIDE

1000



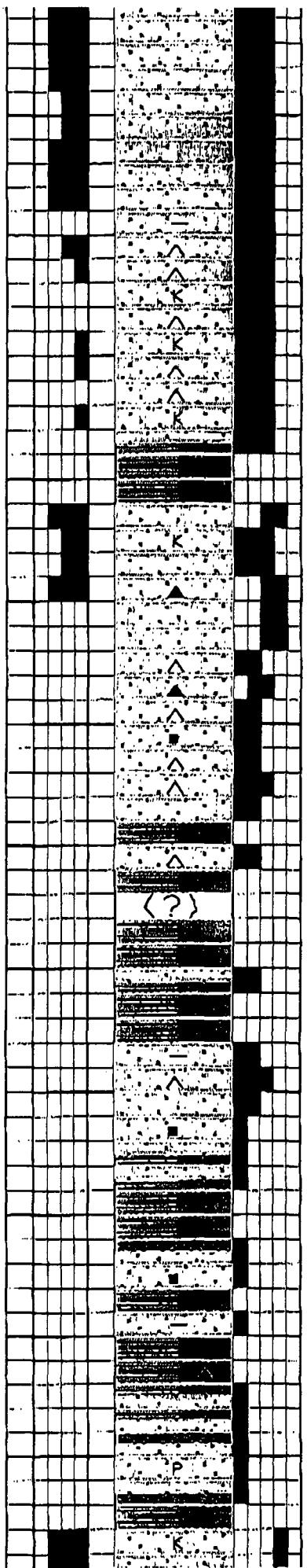


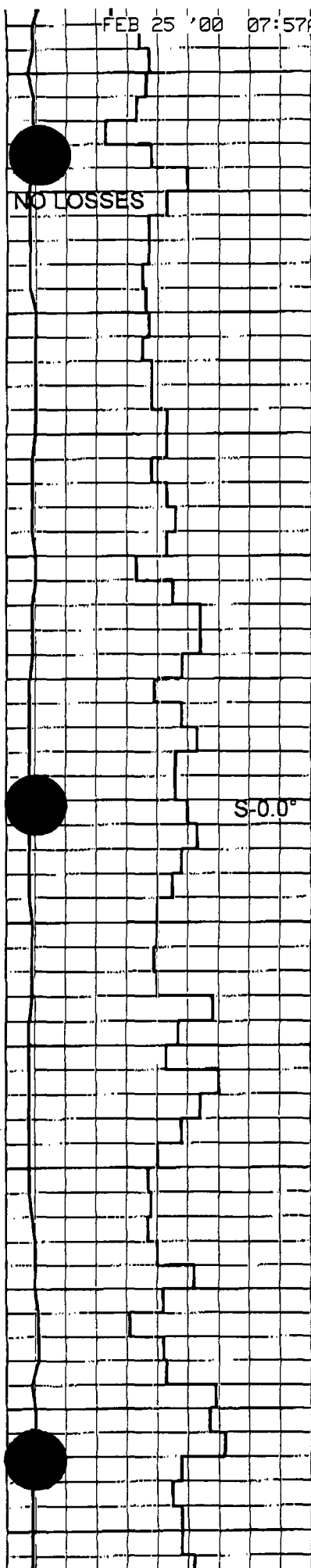
S-1.2°

975

1000

S-.4°

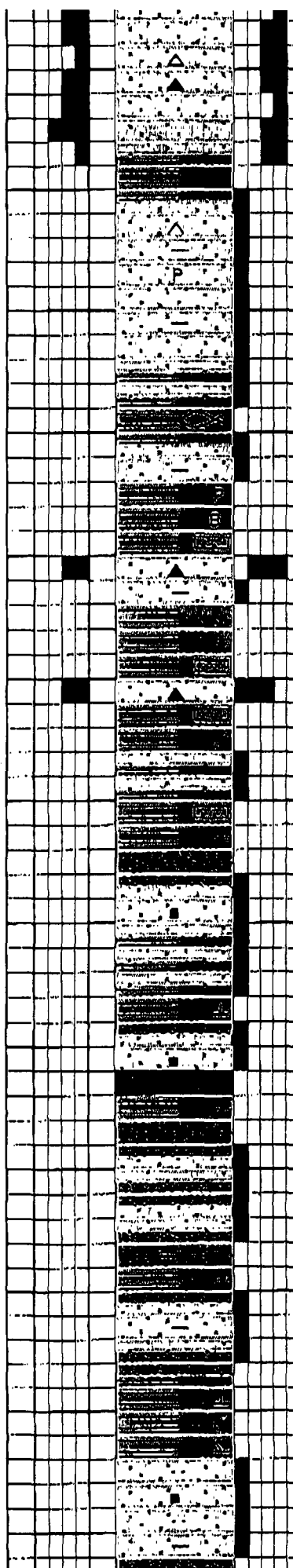


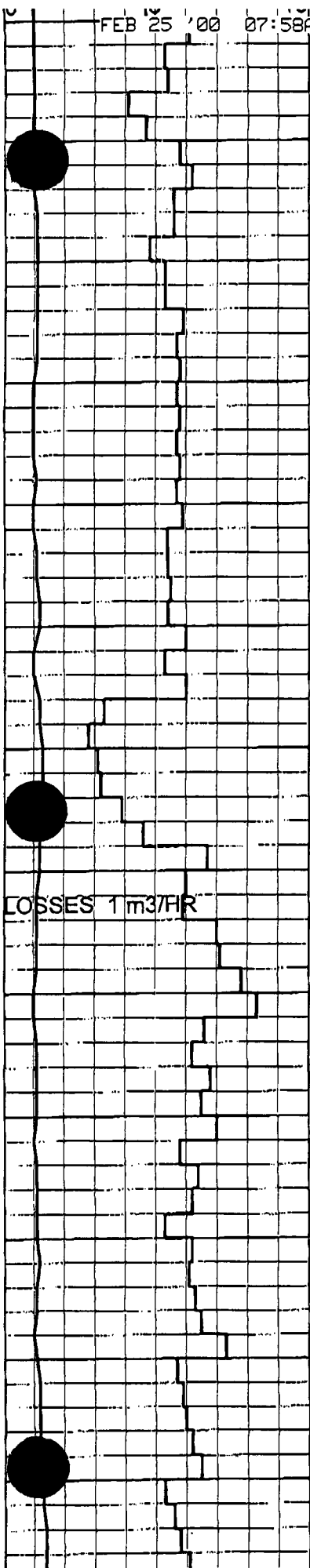


1025

1050

1075

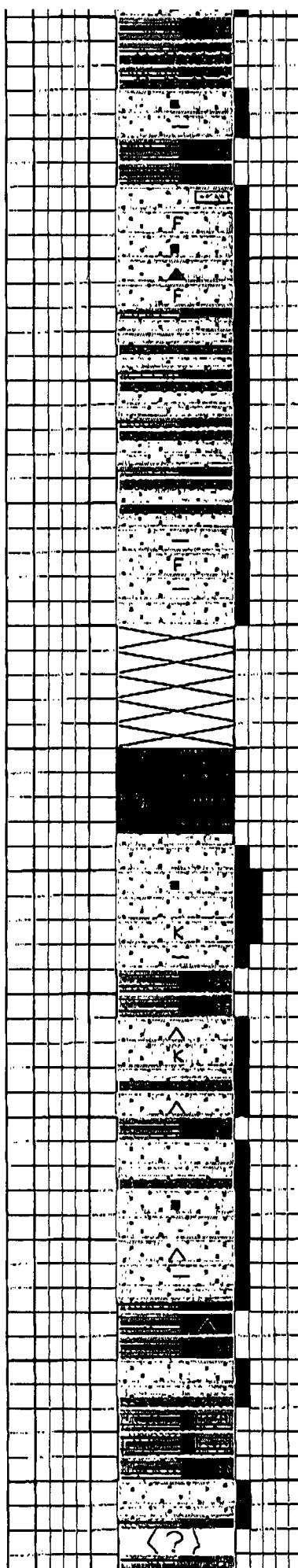




S-.6°
1100

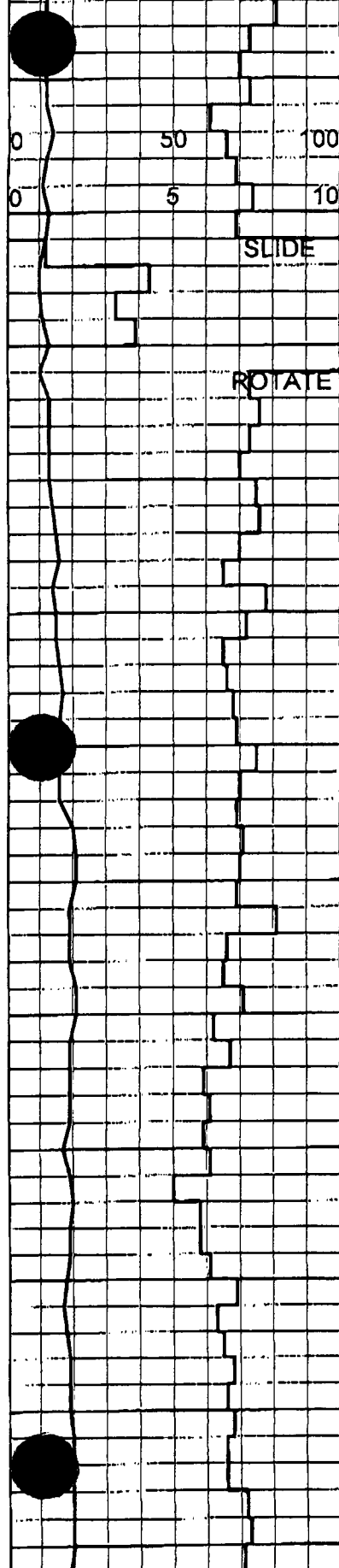
1125

S-.8°



S-1.5°
179.8°

1175



SLIDE

ROTATE

1200

SLATER R.
(1206.0)S-1.1°
146.7°S-.8°
146.0°

1225

S-1.6°
142.0°

Shale with Sandstone & Siltstone interbeds & stringers:

SHALE - medium to dark grey to grey tan, blocky, subfissile, arenaceous to highly arenaceous, carbonaceous with scattered plant fossils, trace bentonitic;

SANDSTONE - grey white to light tan, quartz trace lithics, silt to very fine grained occasionally fine grained, well sorted, subangular to round, clay & siliceous cement, kaolinitic, trace carbonaceous flakes, well cemented, tight, no shows;

SILTSTONE - light grey to grey white, clay with siliceous cement, well cemented, carbonaceous flakes, sandy.

Shale with Siltstone & Sandstone stringers:

SHALE - dark grey to grey tan, platy, fissile, sideritic in part, arenaceous in part, carbonaceous with scattered plant fossils, trace bentonitic, micromicaceous;

Scattered coal fragments & black chert nodules.

Shale with minor Siltstone & Sandstone interbeds & stringers:

SHALE - dark grey to grey tan, platy to blocky, fissile to subfissile, sideritic in part, arenaceous to highly arenaceous, carbonaceous in part with trace plant fossils, pyritic, micromicaceous;

SILTSTONE - light to medium grey, siliceous cement trace sideritic, well cemented, carbonaceous flakes, argillaceous in part, sandy;

SANDSTONE - grey tan, quartz trace lithics, very fine to fine grained downsection silt to very fine grained, well sorted, subangular to round, clay cement, kaolinitic,

MAR 01 '00 08:01AM REC

S-2.0°
140.0°

1250

S-2.2°
145.3°

SLIDE

ROTATE

S-2.0°
151.2°

SLIDE

ROTATE

S-1.9°
147.4°

00/02/26

TFB#2

F10

1275

FCB 15-16000
RAM 0-40
DENS 1020
VISC 29S-1.9°
145.3°S-1.9°
160.8°

SLIDE

S-2.0°
160.8°
1300

ROTATE

SLIDE

trace pyritized fossil fragments P. 16/24

Shale with stringers of Sandstone and Siltstone:

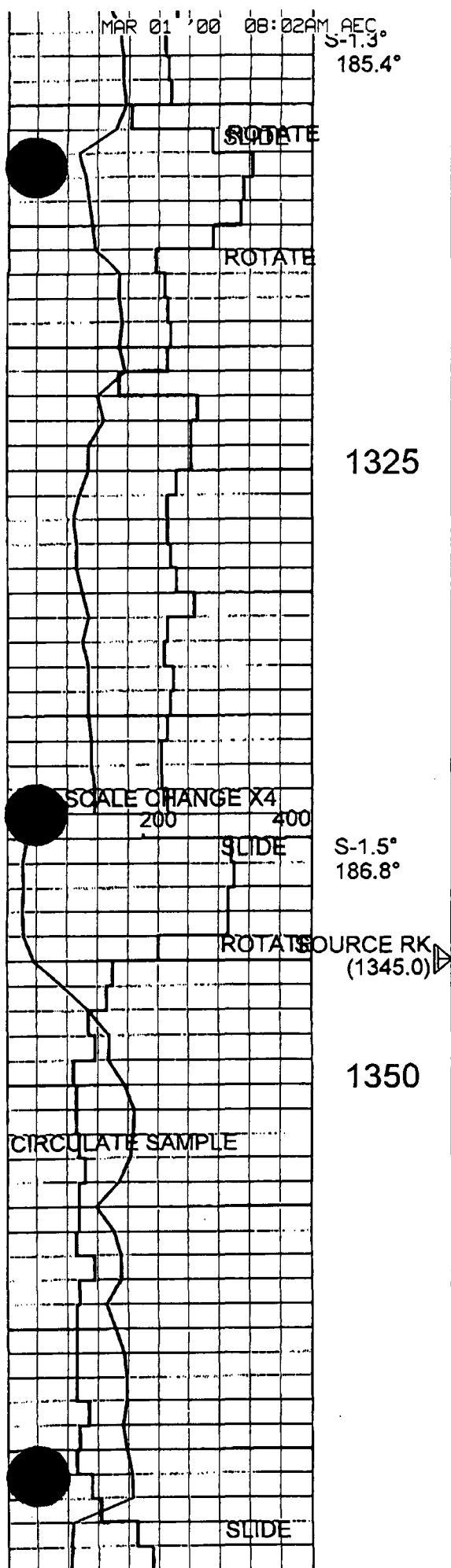
SHALE - dark grey to grey tan trace white to grey green, platy to blocky, fissile to subfissile, trace waxy, sideritic in part, arenaceous, carbonaceous in part, bentonitic in part, micromicaceous; Scattered black & grey chert nodules, rare loose foramifera at base of section.

Shale with Siltstone stringers & minor interbeds & lenses of Sandstone:

SHALE - dark grey to grey tan trace white to grey green, platy to blocky, fissile to subfissile, trace waxy, arenaceous, carbonaceous in part with plant fossils, bentonitic, trace sideritic, micromicaceous; SILTSTONE - grey white, siliceous with minor sideritic & trace calcareous cement, well cemented, argillaceous in part; SANDSTONE - grey tan, quartz trace lithics, silt to very fine grained, well sorted, subangular to round, clay cement, micaceous, disseminated pyrite, well cemented, tight, no shows.

Shale with minor laminae & lenses of Sandstone:

SHALE - dark grey to grey tan trace white to grey green, platy minor blocky, mostly fissile, trace waxy, arenaceous in part, carbonaceous in part with plant fossils, scattered bentonitic patches, trace scattered black and grey chert nodules; SANDSTONE - grey tan, quartz trace lithics, silt to very fine grained, well sorted, subangular to round, siliceous with clay cement, well cemented to highly friable, tight trace good porosity, no shows;



Shale with interbeds & lenses of Sandstone & Siderite interbeds minor Siltstone lenses:

SHALE - dark grey to grey tan slight trace white, blocky to platy, subfissile in part, trace waxy, arenaceous in part, carbonaceous, trace sideritic, pyritic in part, micromicaceous;

SANDSTONE - grey tan, quartz trace lithics, silt to very fine grained, well sorted, subangular to round, siliceous with clay cement, well cemented, tight, no shows;

SIDERITE - chocolate brown, argillaceous, bedded;

Scattered loose forams at base of section.

Shale with Siltstone lenses:

SHALE - dark grey to grey tan, blocky to platy, subfissile in part, arenaceous in part, trace sideritic, pyritic in part, micromicaceous.

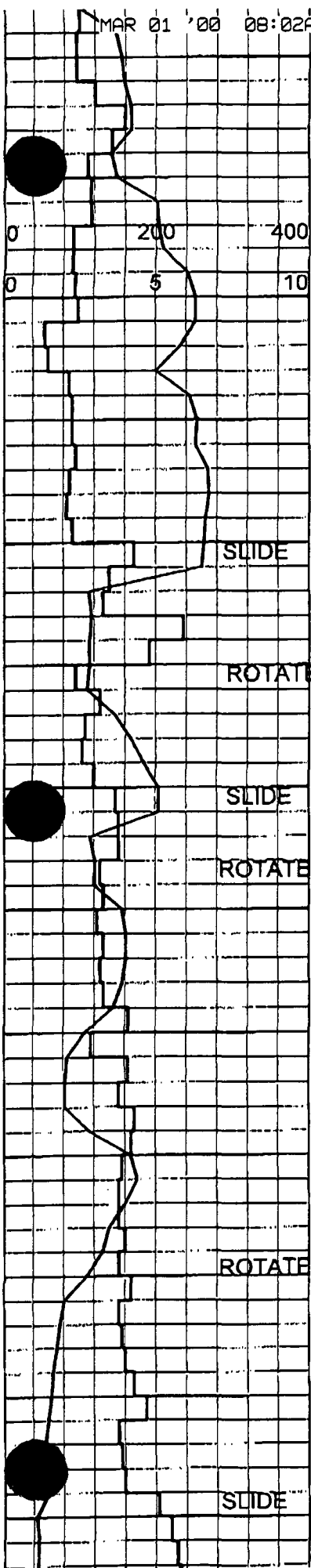
Shale with minor Sandstone lenses:

SHALE - medium to dark grey trace white speckled, platy, fissile to subfissile, bituminous in part, calcareous in part, scattered fish scales and black to amber chitinous fish remains;

Trace Foraminifera.

Shale with minor Siltstone lenses:

SHALE - medium to dark grey to black, trace white speckled, platy, fissile to subfissile,



S-1.7°
102.4°

SLIDE

ROTATE

1400

SLIDE

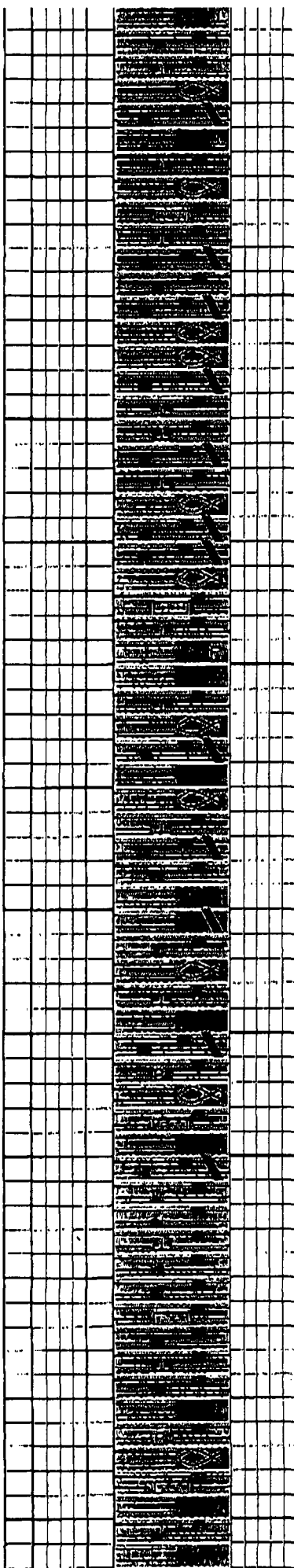
ROTATE

S-1.3°
115.1°

ROTATE

1425

SLIDE

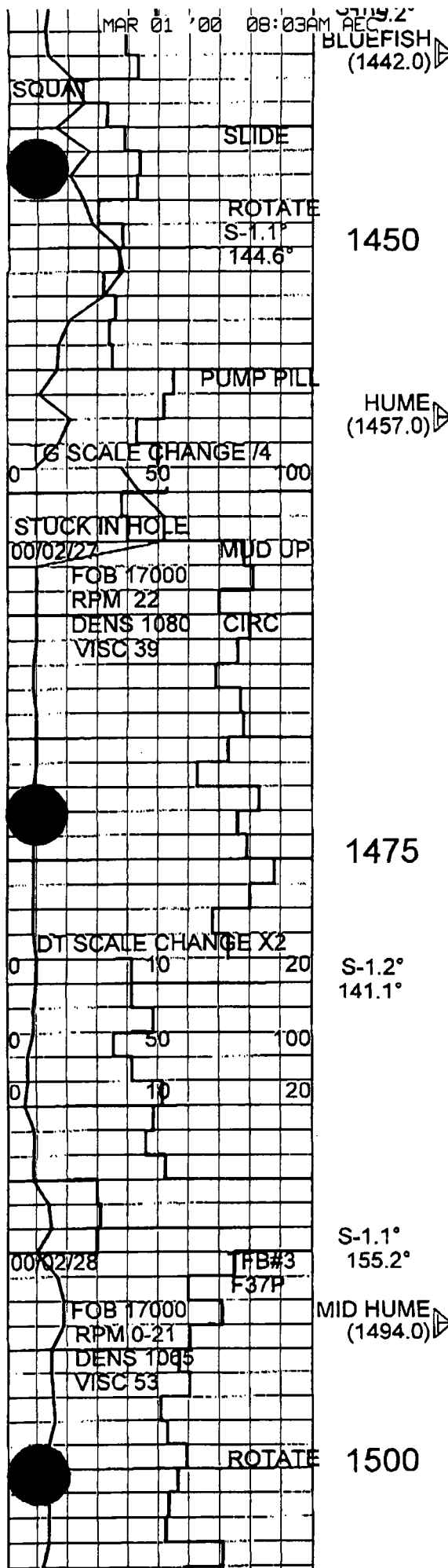


SHALE - dark grey to black, platy, fissile, bituminous in part, calcareous in part, scattered fine fractures with calcite infilling, scattered fish scales & chitinous fish remains.

Shale with minor Siltstone lenses:
SHALE - dark grey to black to dark grey brown, platy, fissile to subfissile, bituminous in part, calcareous in part, trace amber chitinous fish remains, scattered fine fractures with calcite infilling; Trace foramifera.

Shale with minor Sandstone lenses:
SHALE - dark grey to black, platy, fissile to subfissile, bituminous in part, calcareous in part, scattered fish scales and trace black chitinous fish remains, scattered fine fractures with calcite infilling.

Shale with minor Sandstone lenses:
SHALE - dark grey to black, blocky to platy, subfissile to fissile, calcareous in part, trace fish scales, disseminated pyrite, scattered fine fractures with calcite infilling; Scattered Foramifera at base of section.



Shale with stringers of Sandstone:
 SHALE - black to dark grey brown, platy to blocky, fissile to subfissile, waxy in part, calcareous in part, disseminated pyrite & scattered nodules, scattered slickensides;
 SANDSTONE - white to tan, fine to medium grained, quartz & dolomite breccia, well sorted, subangular to subround, loose, fair to good porosity, no shows;
 Rare scattered snow white Dolomite fragments, trace gilsonite fragments.

DOLOSTONE - light tan to snow white to mottled grey white, fine to medium crystalline minor coarse crystalline, subhedral to anhedral crystals, trace molds with white dolostone infilling, trace arenaceous, trace siliceous, trace bitumen waxes along crystal faces, poor intercrystalline porosity (3-5%), minor interbeds fair intercrystalline porosity (6-8%), trace moldic porosity, no visible shows;

Note - Abundant shale cavings decreasing downsection. Rock is highly ground up over this interval with a large percent <.5 mm which makes porosity estimates difficult.

DOLOSTONE - snow white to light tan to laminated grey brown, very fine to fine with medium crystalline rare coarse crystalline, anhedral with scattered subhedral crystals, trace arenaceous, scattered pyrite nodules, trace anhydrite, rare bitumen waxes along crystal faces, tight to poor intercrystalline porosity (3-5%), trace moldic porosity, ? shows, very faint cut after 3 min.

DOLOSTONE - dark grey brown to buff white, very fine to fine with scattered medium crystalline rare coarse crystalline, subhedral to anhedral crystals, slightly calcareous, trace disseminated pyrite, trace arenaceous, rare trace bitumen waxes along crystal faces, subhedral crystals appear to line molds in the dark dolostone, tight with poor to fair moldic porosity (5-8%), ? shows, very faint cut after 3 min.

DOLOSTONE - light tan to grey tan to mottled grey white, micro to very fine with scattered fine crystalline, anhedral with rare subhedral crystals, calcareous in part, trace disseminated pyrite, arenaceous, trace argillaceous downsection, trace bitumen waxes, trace yellow sulphur residue, scattered infilled fractures bidirectional, mostly tight with poor intercrystalline porosity (3-4%), scattered mineral fluorescence, trace very faint cut

S-1.1°
138.3°
L. HUME
(1512.0)

1525

SLIDE

S-1.1°
106.6°

ROTATE

S-1.8°
94.6°
1550

S-1.7°
82.0°

SLIDE

ROTATE

S-1.3°
63.7°

SLIDE

Limestone with interbeds & stringers of Dolostone:

LIMESTONE - buff white, calcilutite with minor fine to medium calcarenite, brachiopod biomicrite, wackestone, argillaceous, dolomitic in part, tight, no shows;

DOLOSTONE - medium brown to grey brown, micro to very fine crystalline minor very fine to fine crystalline, calcareous in part, trace disseminated pyrite, arenaceous, argillaceous in part, tight, no visible shows.

Limestone with stringers of Dolostone increasing downsection:

LIMESTONE - light grey brown to buff white, calcilutite with minor very fine to medium calcarenite, brachiopod biomicrite to biomicrite, wackestone to mudstone, argillaceous, dolomitic in part, tight, no shows.

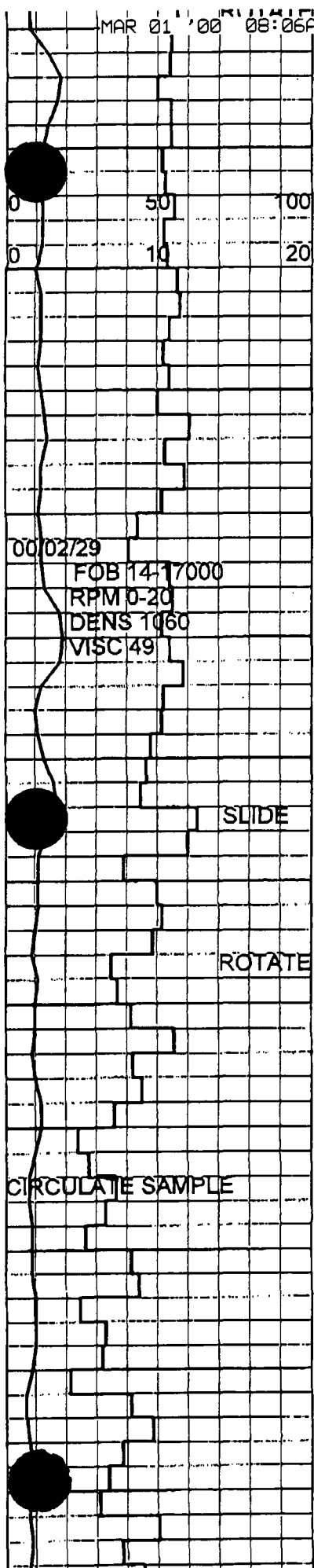
Dolostone with Siltstone stringers:

DOLOSTONE - light tan to mottled white tan to dark grey, very fine to fine crystalline, subhedral crystals, arenaceous to highly arenaceous, scattered fossil ghosts, crinoids, poor intercrystalline porosity (3-5%), no immediate shows, trace cut after 5 min.

Limestone with interbeds of Shale and stringers of Dolostone:

LIMESTONE - light grey brown to buff white, calcilutite with minor very fine to medium calcarenite, biomicrite with brachiopod biomicrite, mudstone to wackestone, argillaceous, trace arenaceous, dolomitic in part, disseminated pyrite, tight, no shows, trace cut after 5 min.;

SHALE - medium to dark grey, blocky, subfissile, calcareous to highly calcareous, disseminated pyrite.



S-1.2°
45.5°

1600

S-1.4°
54.6°

ARNICA
(1609.0)

1625

LIMESTONE - light grey to dark grey brown, calcilutite to fine calcarenite, diacniped amphipora intrapelmicrite, wackestone, argillaceous to highly argillaceous, abundant calcite filled fractures at base of section, tight, no shows, trace cut after 5 min.

Interbedded Dolostone & Limestone with minor Shale:
DOLOSTONE - snow white with interbedded dark grey to dark brown, fine to occasionally coarse crystalline with interbeds of micro to very fine crystalline, subhedral to euhedral crystals, dark grey is highly arenaceous, laminated possibly bulbous stroms, tight to poor moldic porosity (4-6%), no shows;
LIMESTONE - medium brown, calcilutite, biomicrite, wackestone, dolomitic, argillaceous, tight, no shows;
Basal reefal facies within Landry.

DOLOSTONE - light to grey tan, micro to aphano crystalline, trace fossil ghosts (Amphipora), rare scattered fractures with white dolomitic infilling, tight, trace fine web bitumen waxes, no visible shows.

Dolostone with minor Breccia interbeds:
DOLOSTONE - medium brown to light tan, aphano to microcrystalline, fossil ghosts (Amphipora), trace arenaceous, scattered molds with white euhedral to subhedral dolomite infilling, tight to fair moldic porosity (6-7%), no shows;
BRECCIA - medium brown, coarse to very coarse angular dolostone fragments with clear euhedral dolomite cement, good intergranular porosity (10-12%), no shows.

DOLOSTONE - light tan to brown to grey tan, aphano to microcrystalline, trace fossil ghosts (Amphipora), trace arenaceous, disseminated pyrite, trace argillaceous at base of section, trace scattered hairline fractures, tight, trace bitumen waxes, no shows.

MAR 01 '00 08:07AM AEC.
S-1.0°
68.7°

P. 22/24

1650

DOLOSTONE - light grey tan to light tan, aphanite to microcrystalline, trace fossil ghosts (Amphipora & tabular stromatoporoid), very slight trace arenaceous, disseminated pyrite, trace stylolites, tight, no s hows.

LOST 4m3

DOLOSTONE - light tan to brown to buff white, aphanite to microcrystalline rare very fine crystalline interbeds of dololite, trace scattered micromolds, trace loose coarse white subhedral crystals, tight, no s hows ;
Lost 4 m3 to fracture at 1670 m - lagged to 1664-1665 m 1670 m sample contains loose crystals, possibly an open fracture in this interval?

CIRCULATE SAMPLE

S-1.5°
94.5°

1675

DOLOSTONE - light tan to buff white, aphanite to microcrystalline with dololite, dololite increases downsection, trace fossil ghosts (Amphipora), tight, trace sulphurous, no s hows.

0 50 100
0 10 20
SLIDE

ROTATE

Dolostone with Shale partings:
DOLOSTONE - buff white, dololite, arenaceous in part, disseminated pyrite, tight, no s hows.

BEAR ROCK
(1696.0)

Dolostone with Siltstone & Shale interbeds & stringers:
DOLOSTONE - light tan to buff white, aphanite to microcrystalline, arenaceous, argillaceous, anhydritic in part, tight, no s hows ;
SILTSTONE - buff white, dolomitic cement, highly cemented;
SHALE - grey green, blocky, dolomitic, arenaceous, disseminated pyrite.

S-1.1°
8.9°

1700

00/03/01

FOB 17-18000

RPM 0-20

DENS 1070

VISC 52

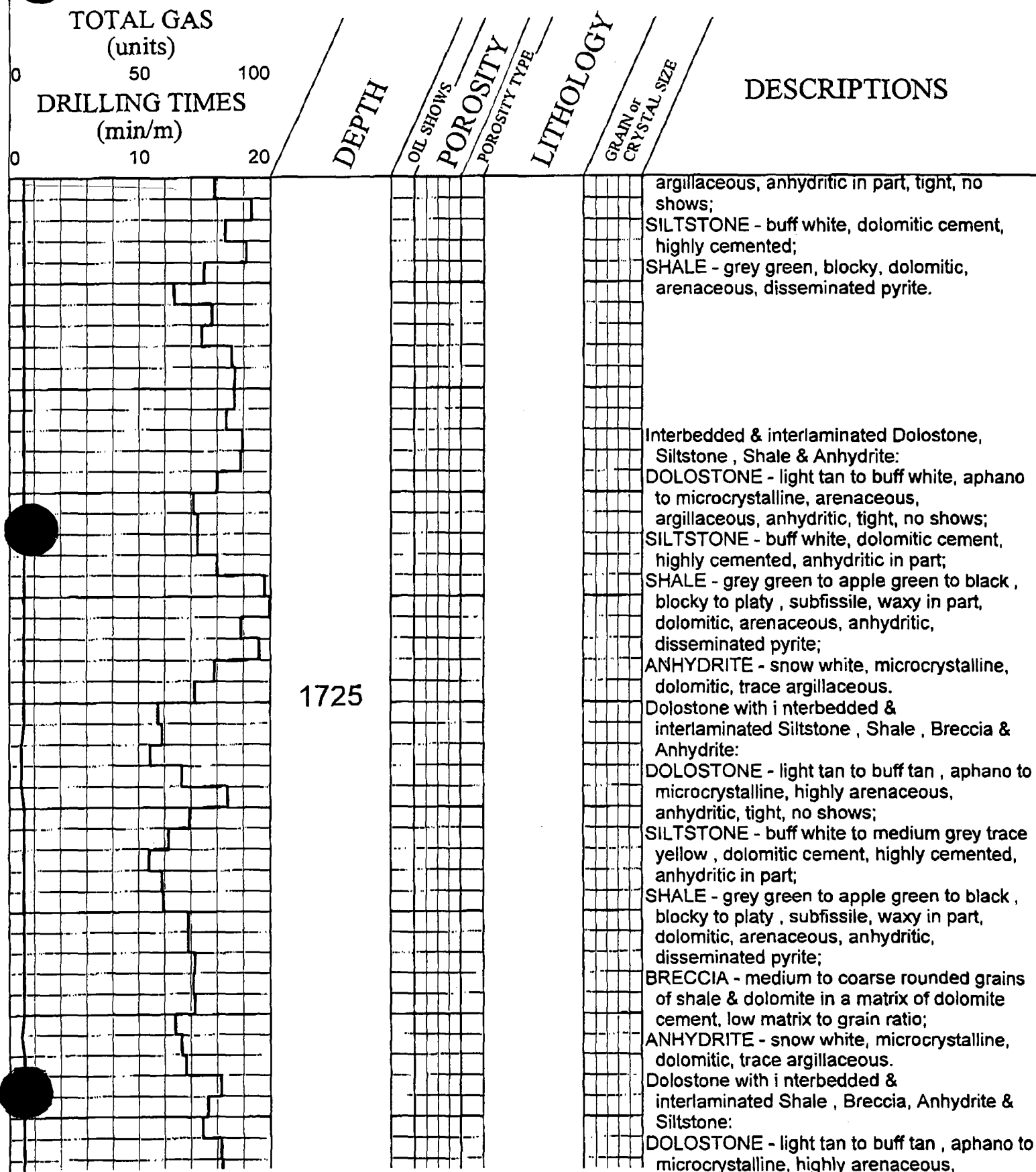
1725

1750

Interbedded & interlaminated Dolostone,
Siltstone Shale & Anhydrite:
DOLOSTONE - light tan to buff white to
medium to dark grey, aphanitic to
microcrystalline, arenaceous, argillaceous,
anhydritic, tight, no shows ;
SILTSTONE - buff white, dolomitic cement,
highly cemented, anhydritic in part;
SHALE - grey green to apple green, blocky,
dolomitic, arenaceous, anhydritic,
disseminated pyrite;
ANHYDRITE - snow white, microcrystalline,
dolomitic, trace argillaceous.

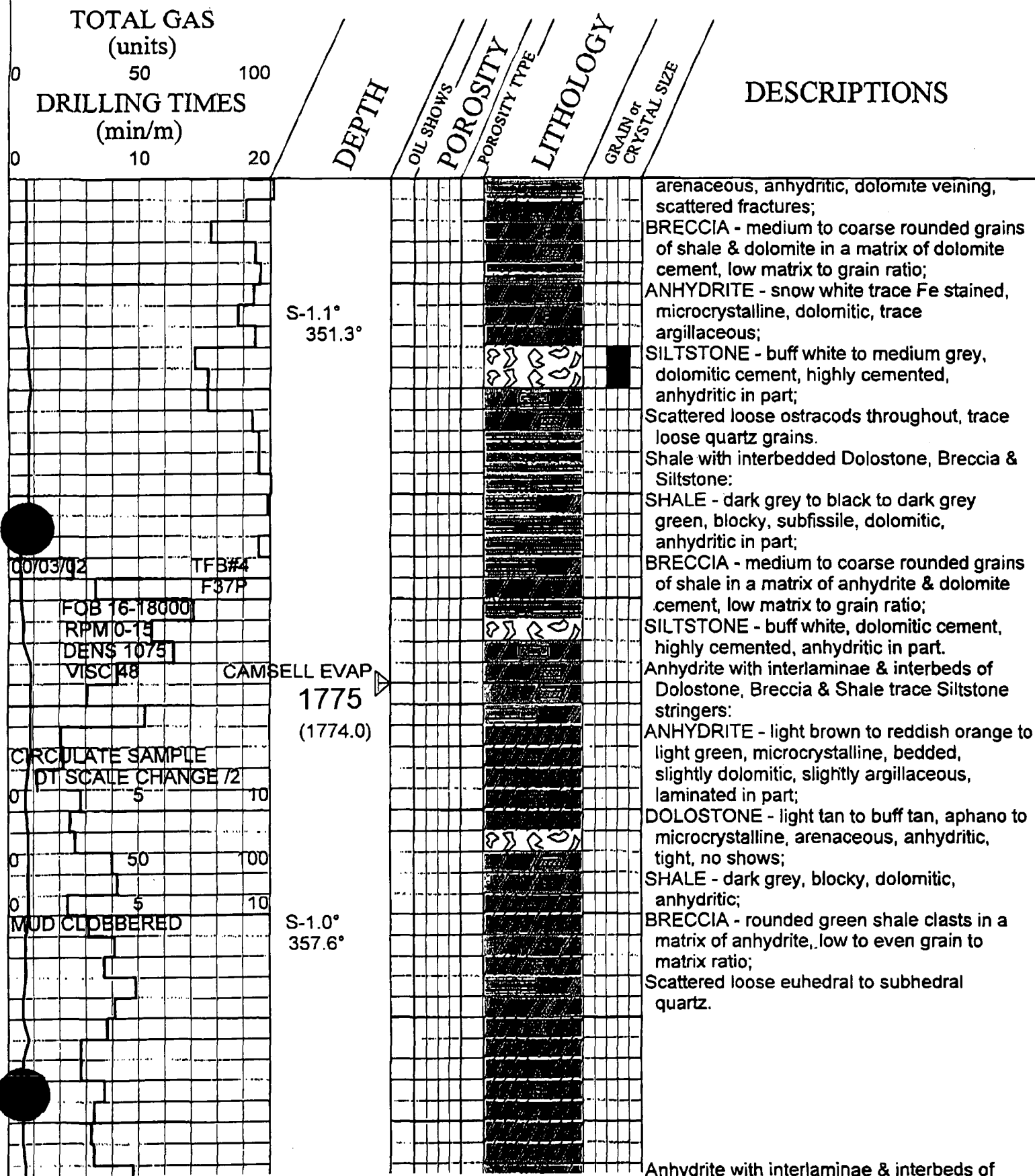
CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



S-1.1°
343.6°

1825

S-1.0°
354.8°

1850

S-1.1°
8.2°

DENS 1070

VISC 78

pH 11.0

WL 20+

53000 PPM Cl-

dolomitic, arenaceous, laminP. 10/12art;
DOLOSTONE - light brown to buff tan, aphanitic to microcrystalline, arenaceous, anhydritic, tight, no shows;
SHALE - dark grey to black, blocky, dolomitic, anhydritic, trace slickensided, waxy.

Anhydrite with interlaminae & interbeds of Dolostone & Shale trace Sandstone laminae & Salt casts:

ANHYDRITE - buff white to reddish purple to light green, microcrystalline, bedded, dolomitic, arenaceous, laminated in part, colours increase downsection, casts (salt??) noted in 1825 sample;

DOLOSTONE - light brown to buff tan, aphanitic to microcrystalline, arenaceous, anhydritic, tight, no shows;

SHALE - dark grey to black, blocky, dolomitic, anhydritic, trace slickensided, waxy; Scattered loose euhedral to subhedral quartz. Note - Salt symbol does not indicate bed of salt but only where concentration of same is from salt casts.

Anhydrite with interlaminae & interbeds of Dolostone & Shale trace Sandstone laminae & Salt casts:

ANHYDRITE - buff white to greeny cream, microcrystalline, bedded, dolomitic, arenaceous, highly laminated in part, scattered casts;

DOLOSTONE - as above;

SHALE - purple to green to black, platy, subfissile, dolomitic, anhydritic, trace slickensided, waxy.

Anhydrite with interlaminae & interbeds of Dolostone trace Sandstone laminae & Salt casts:

ANHYDRITE - buff white to buff tan to mottled reddish purple to light green, microcrystalline, bedded, dolomitic, arenaceous, laminated in part, casts (salt??) noted in 1855 m sample;

DOLOSTONE - light brown to buff tan, aphanitic to microcrystalline interbeds of fine crystalline, subhedral crystals, arenaceous in part, anhydritic, tight, no shows; Scattered quartz grains.

Anhydrite with interlaminae & interbeds of Dolostone & Shale:

ANHYDRITE - buff white tan to reddish to light green, microcrystalline, bedded, dolomitic, arenaceous, laminated in part, casts (salt??) noted in 1870 m sample;

MAR 03 '00 08:40AM REC

1875

S-.7°
18.0°

0 50 100
0 5 10

00/03/03

FOB 17-18000
RPM 15
DENS 1080
VISC 73

1900

S-.4°
13.1°

1925

S-.2°
347.8°

SHALE - black to light green, P. 11/12bfissile, dolomitic, anhydritic, waxy; Scattered quartz grains.

Anhydrite with interlaminae & interbeds of Dolostone & Shale:

ANHYDRITE - buff white tan to reddish to light green, microcrystalline, bedded, dolomitic, arenaceous, laminated in part, casts (salt??);

DOLOSTONE - light brown to buff tan, aphanite to microcrystalline scattered very fine crystalline, arenaceous in part, anhydritic, tight, no shows;

Abundant scattered euhedral to subhedral coarse quartz crystals;

1885 to 1895 m samples contain black Shale cavings. Sample quality decreasing, interpretation difficult.

Interlaminated Anhydrite & Sandstone with Salt:

ANHYDRITE - pinkish tan to light green, microcrystalline, argillaceous, calcareous to dolomitic, scattered salt casts;

SANDSTONE - clear quartz, fine to coarse euhedral crystals, loose, good porosity, no shows;

Salt is shown as interbeds but occurs as casts in anhydrite, ROP used to position same;

Abundant cavings. Sample quality poor to fair.

Interlaminated Anhydrite, Sandstone & Shale with Salt:

MAR 03 '00 08:41AM AEC

DENS 1080

MISC 80

PH 11.0

WL 20.0+

160,000 PPM Cl-

DT SCALE CHANGE X4
20 40

MUD LOSSES = 10 M3/H
FRANKLIN MTN (1959.0)

1950

1975

SANDSTONE - clear quartz, 1P. 12/12arse
euهدral crystals, loose, good porosity, no
shows;

SHALE - grey green, platy, waxy, laminated,
anhydritic, dolomitic;

Salt is shown as interbeds but occurs as
casts in anhydrite, ROP used to position
same;

Abundant cavings. Sample quality poor to
fair.

Interbedded & interlaminated Anhydrite,
Dolostone & Shale with Sandstone
stringers & Salt Casts:

ANHYDRITE - pinkish tan to light green,
microcrystalline, argillaceous, calcareous to
dolomitic, scattered salt casts;

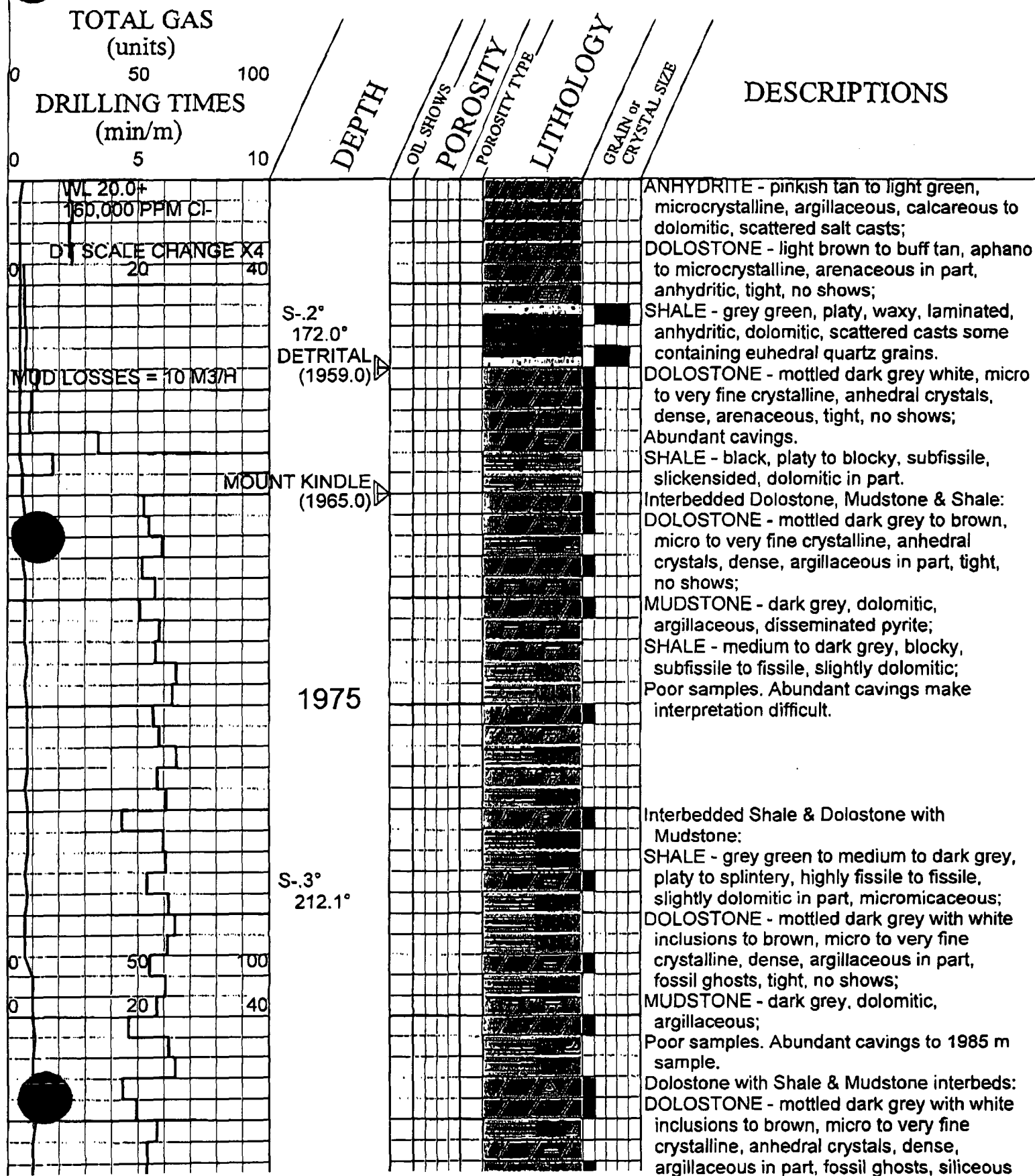
DOLOSTONE - light brown to buff tan, aphano
to microcrystalline, arenaceous in part,
anhydritic, tight, no shows;

SHALE - grey green, platy, waxy, laminated,
anhydritic, dolomitic, scattered casts some
containing euهدral quartz grains.

DOLOSTONE - mottled dark grey white, micro
to very fine crystalline, anهدral crystals,
dense, arenaceous, tight, no shows.

CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



MAR 05 '00 08:03AM AEC

00/03/04

FOB 18000

RPM 14

DENS 1165

VISC 46

230,000 PPM CI-

S-.9°
155.9°

X

2025

0900 HRS

00/03/04

TOTAL DEPTH
(2030.0)

2050

platy, highly fissile to fissile, slightly
dolomitic in part, micromicaceous,
MUDSTONE - mottled dark grey, dolomitic,
argillaceous.

DOLOSTONE - mottled dark grey brown to
grey white, micro with fine to medium
crystalline, anhedral to subhedral, argillaceous
in part, fossil ghosts, tight to poor
intercrystalline porosity (3-5%), no shows.
Shale with minor Dolostone & Mudstone
interbeds:
SHALE - grey green to medium to dark grey
to black, platy to splintery, fissile, slightly
dolomitic in part, micromicaceous;
DOLOSTONE - mottled dark grey,
microcrystalline, dense, argillaceous in
part, tight, no shows;
MUDSTONE - mottled dark grey, dolomitic,
argillaceous.