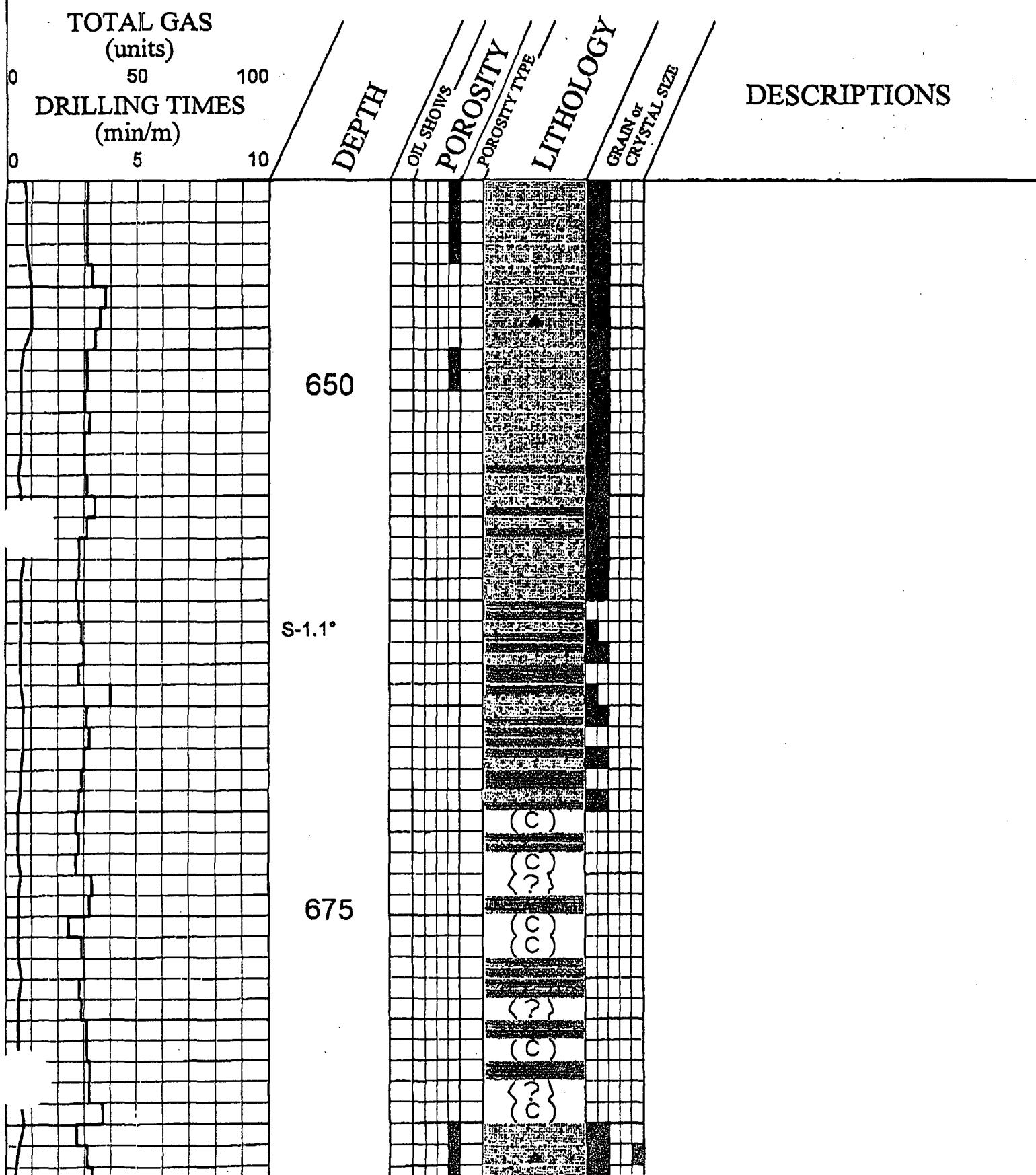


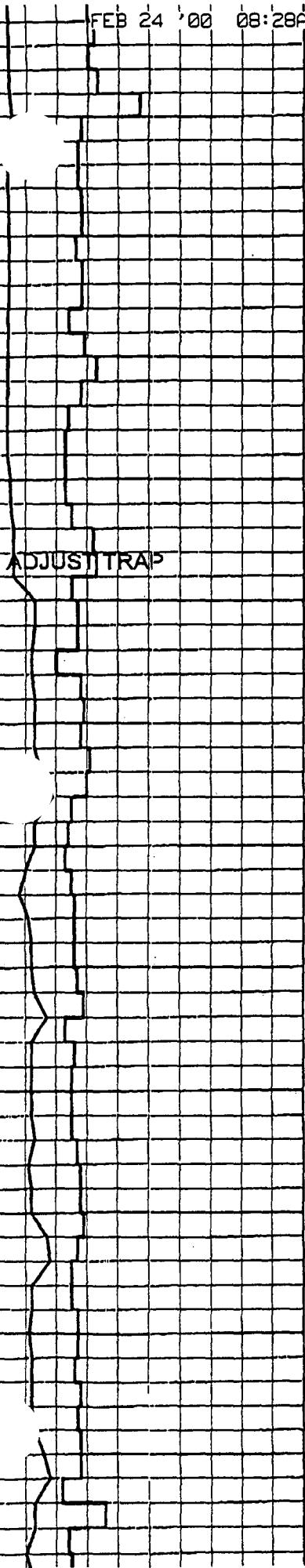
## CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



FEB 24 '00 08:28AM AEC

P.3/8

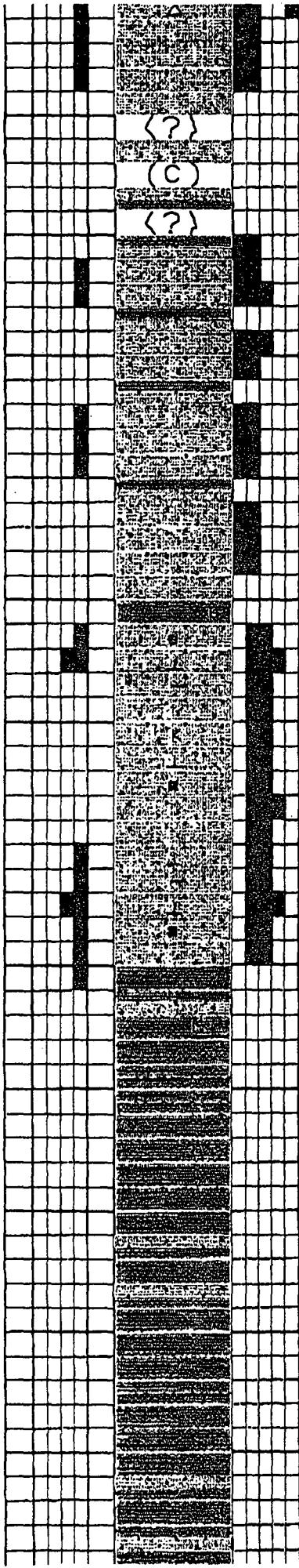


700

S-1.1°

725

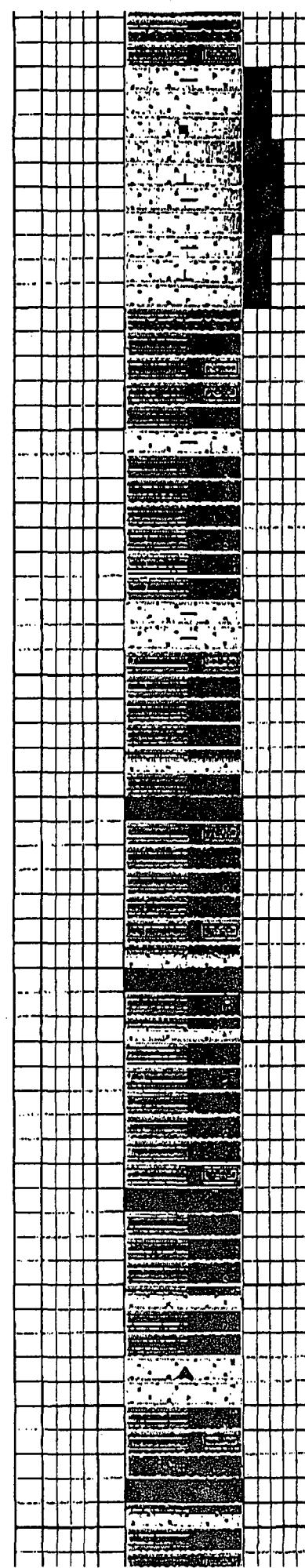
750



775

S-5°

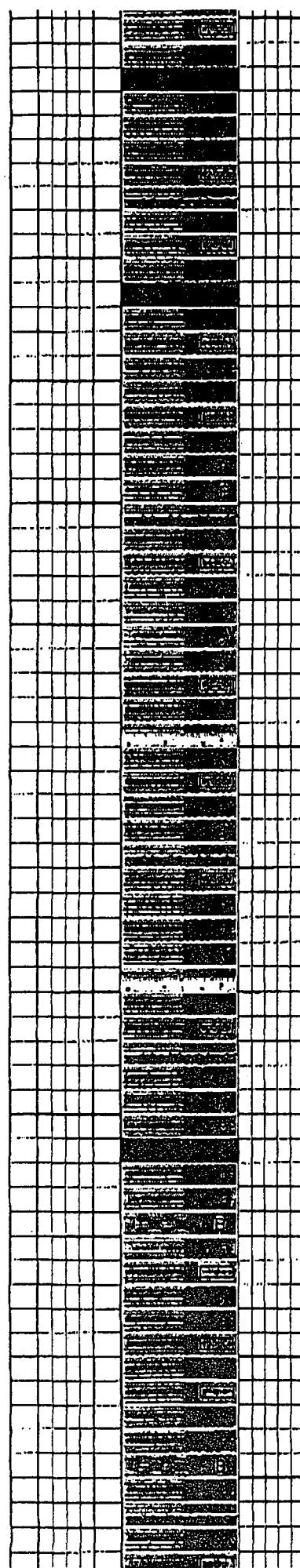
800



850

S-1.3°

875



Slide

Rotate

900

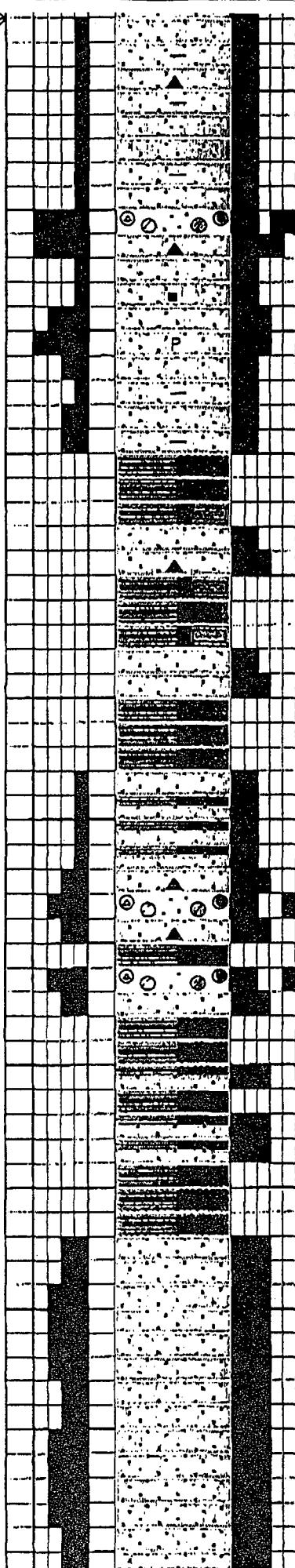
S-4°

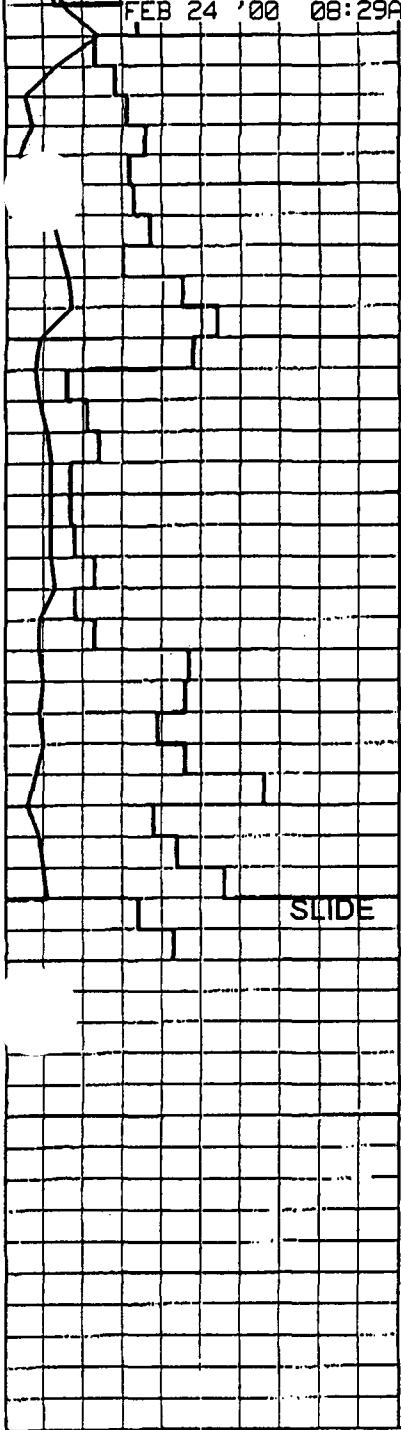
925

950

00/02/24  
MOB 13-15000  
RPM 40  
DENS 1015  
VIS C 29

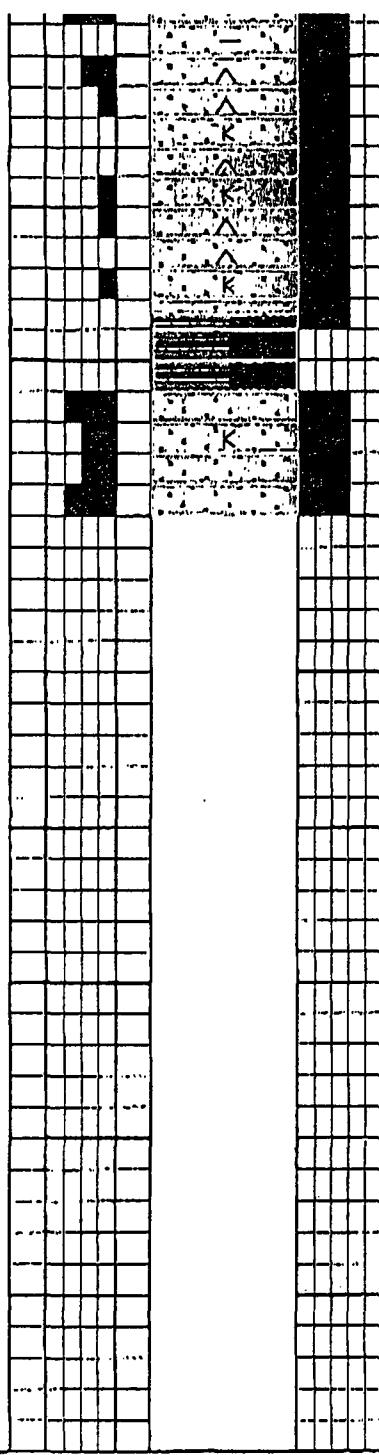
Lost circulation  
Poor Samples

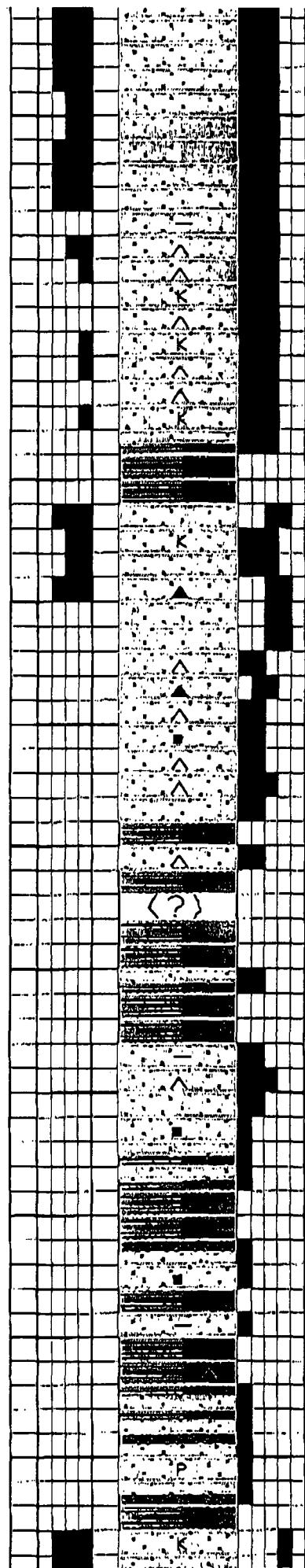
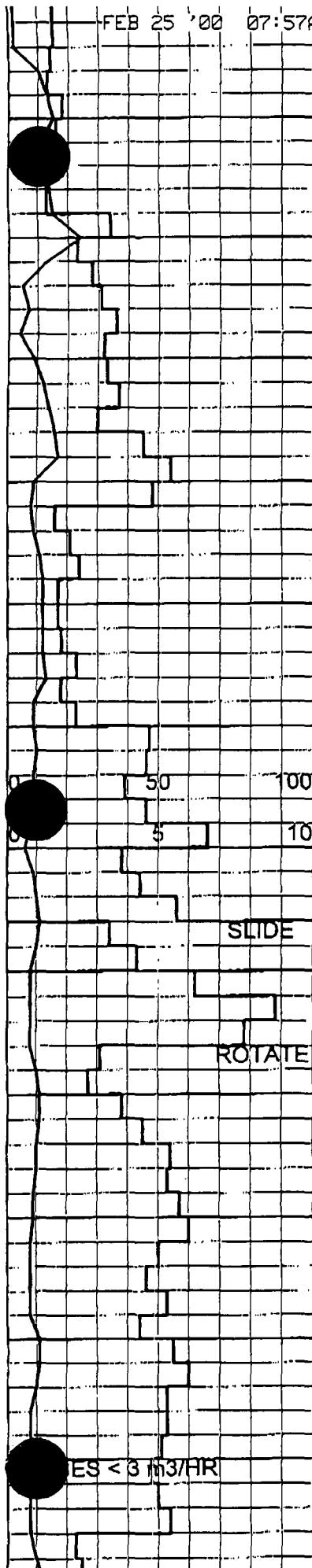




975

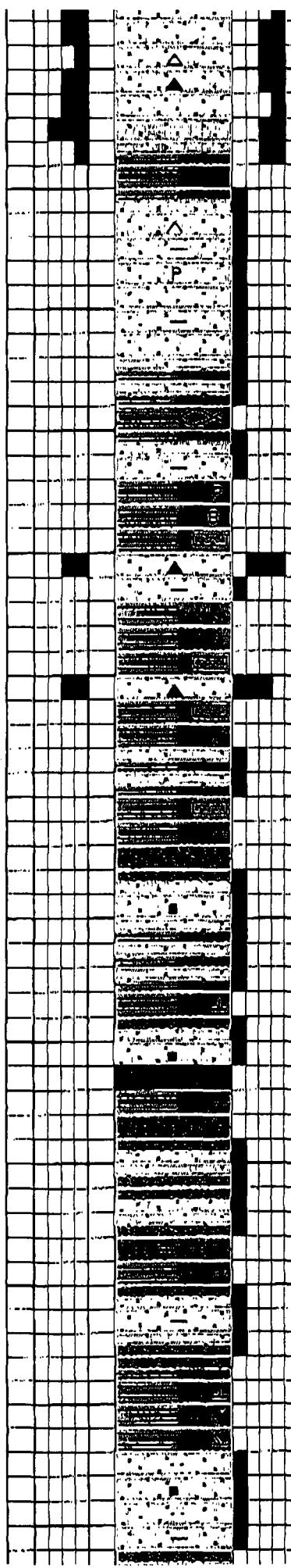
1000





NO LOSSES

1025



S-0.0°

1050

1075

1075

S-.6°  
1100

LOSSES 1 m<sup>3</sup>/HR

1125

S-8°

S-1.5°  
179.8°

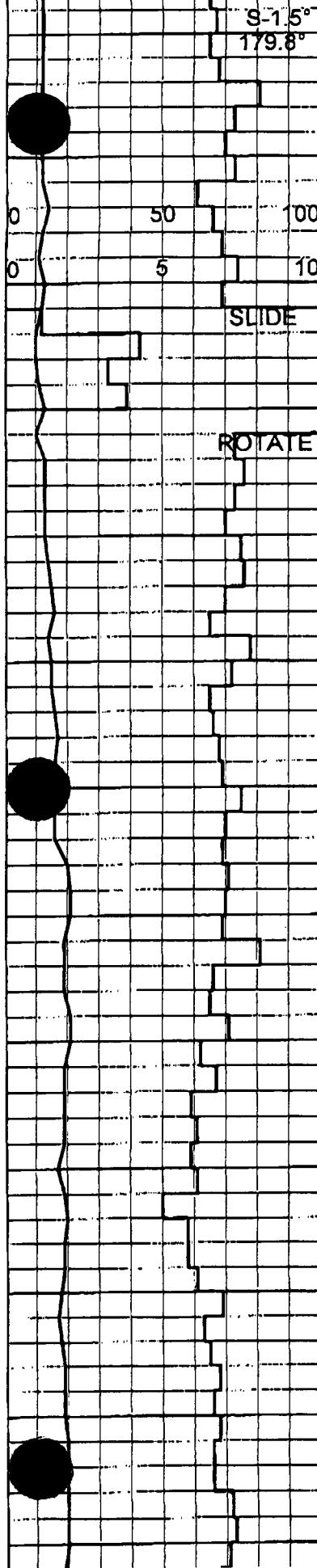
1175

0 50 100  
0 5 10

SLIDE

ROTATE

1200

SLATER R.  
(1206.0) ➤S-1.1°  
146.7°S-.8°  
146.0°  
1225S-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 AEC

S-2.0°  
140.0°

1250  
145.3°

SLIDE

ROTATE

S-2.0°  
151.2°

SLIDE

ROTATE

S-1.9°  
1474°

00/02/26

TRB#2

F10

FOB 15-16000

RPM 0-40

DENS 1020

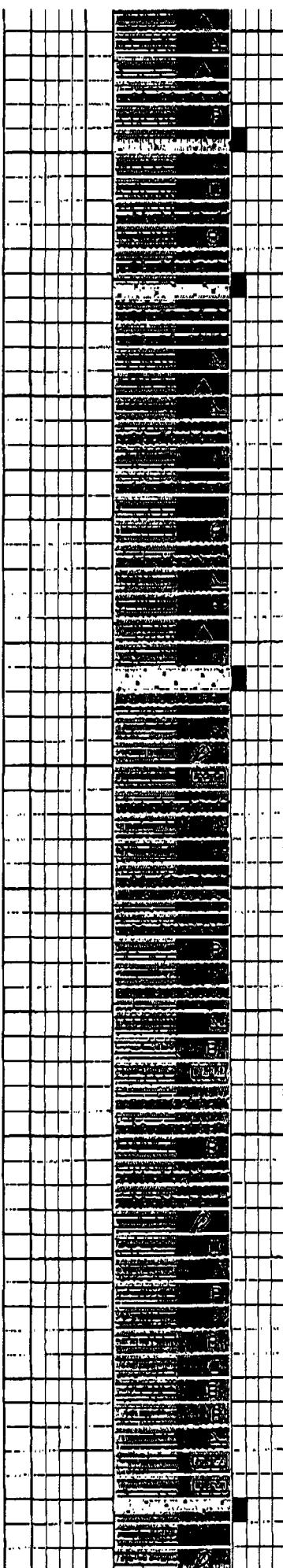
VISC 29

0 50 100  
0 5 10

SLIDE

ROTATE

S-2.0°  
160.8°  
1300



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 foraminifera at base of section.

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

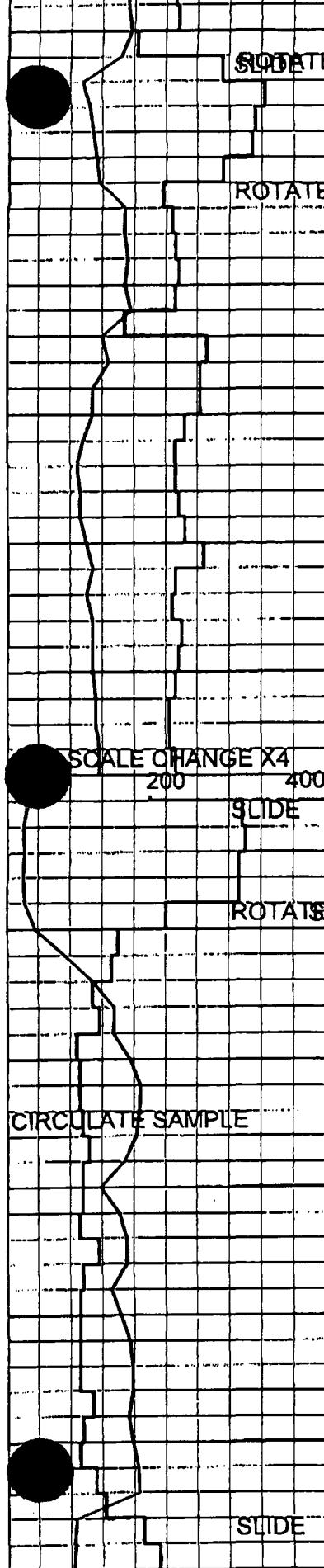
SHALE - dark grey to grey tan trace white to grey green, platy to blocky, fissile to subfissile, trace waxy, arenaceous, carbonaceous in part with plant fossils, bentonitic, trace sideritic, micromicaceous; SILTSTONE - grey white, siliceous with minor sideritic & trace calcareous cement, well cemented, 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 plastic and greyish bentonitic areas~~; 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;

MAR 01 '00 08:02AM AEC.  
S-1.3°  
185.4°

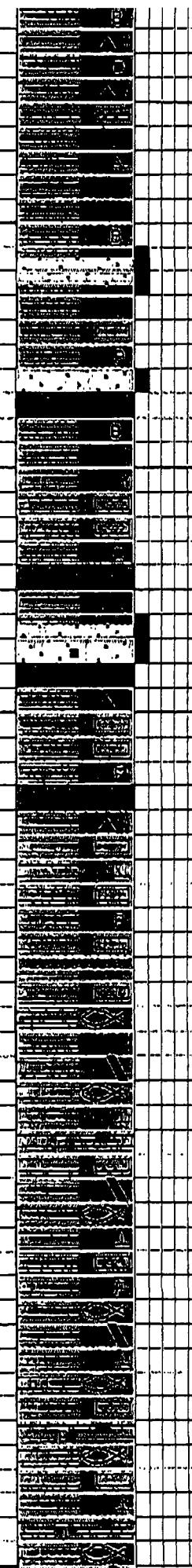
P. 17/24

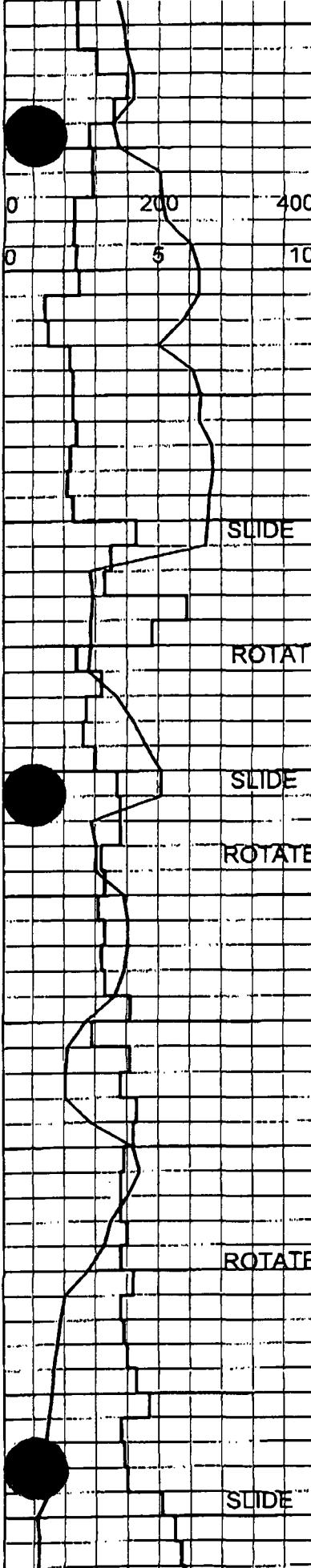


1325

S-1.5°  
186.8°

1350



S-1.7°  
102.4°

1400

S-1.3°  
115.1°

1425

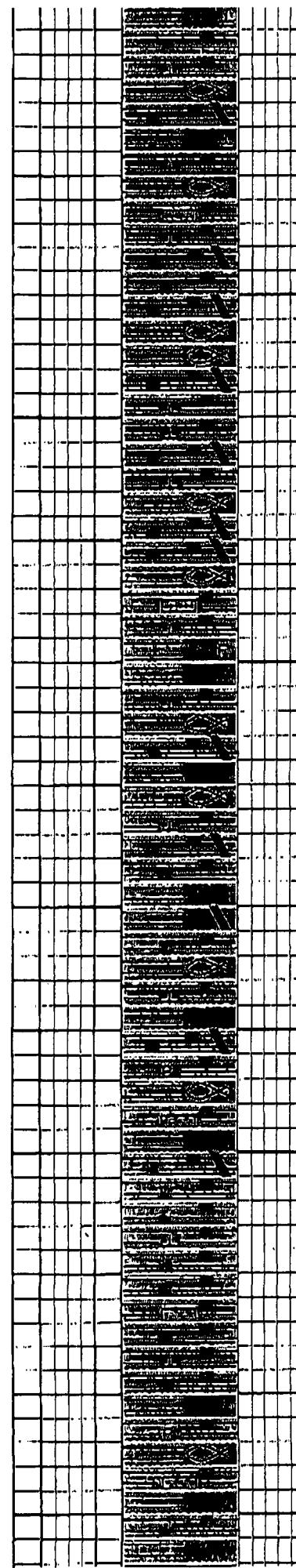
SLIDE

ROTATE

SLIDE

ROTATE

SLIDE

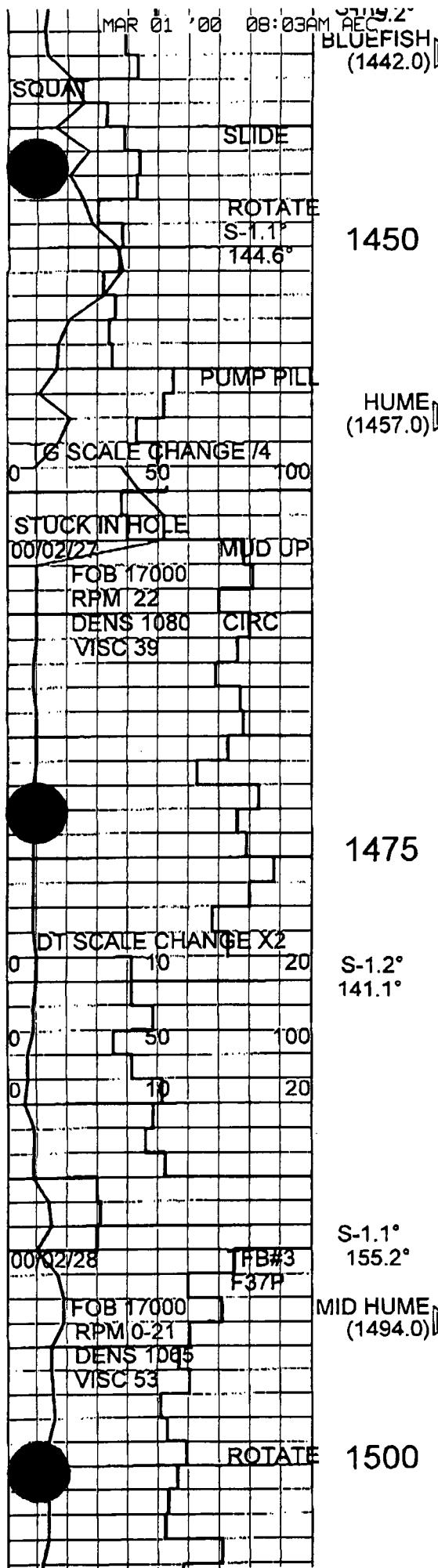


SHALE - dark grey to black, platy, fissile, bituminous in part, calcareous in part, scattered fine fractures with calcite infilling, scattered fish scales & chitinous fish remains.

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 foraminifera.

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.



1450

HUME (1457.0) ▶

1475

S-1.2°  
141.1°S-1.1°  
155.2°

MID HUME (1494.0) ▶

1500

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

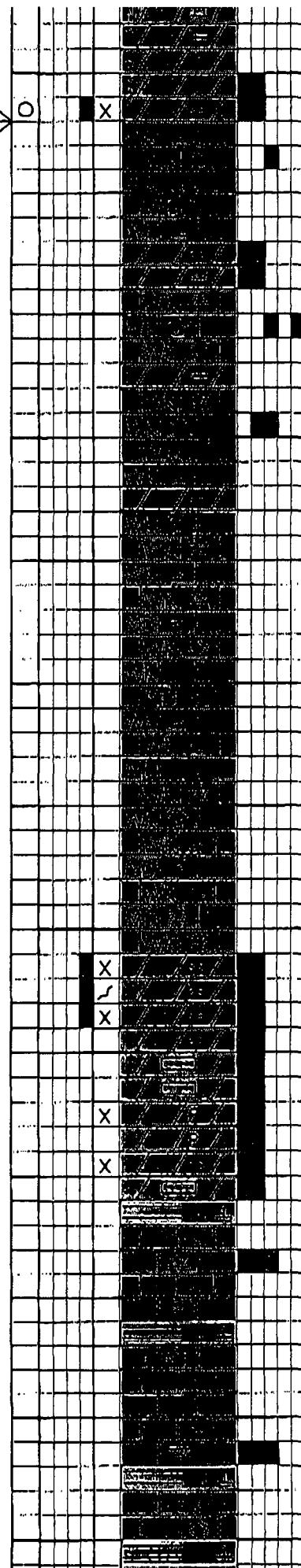
SLIDE

S-1.7°  
82.0°

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;

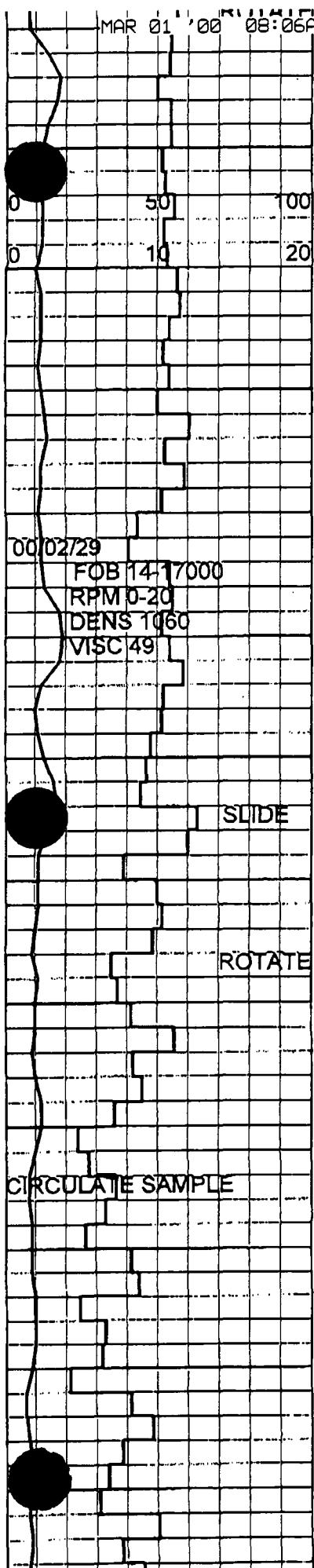
DOLOSTONE - medium brown to grey brown, micro to very fine crystalline minor very fine to fine crystalline, calcareous in part, trace disseminated pyrite, arenaceous, argillaceous in part, tight, no visible shows.

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.



LIMESTONE - light grey to dark grey brown, P. 21/24, calcilutite to fine calcarenite, biacipid 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:

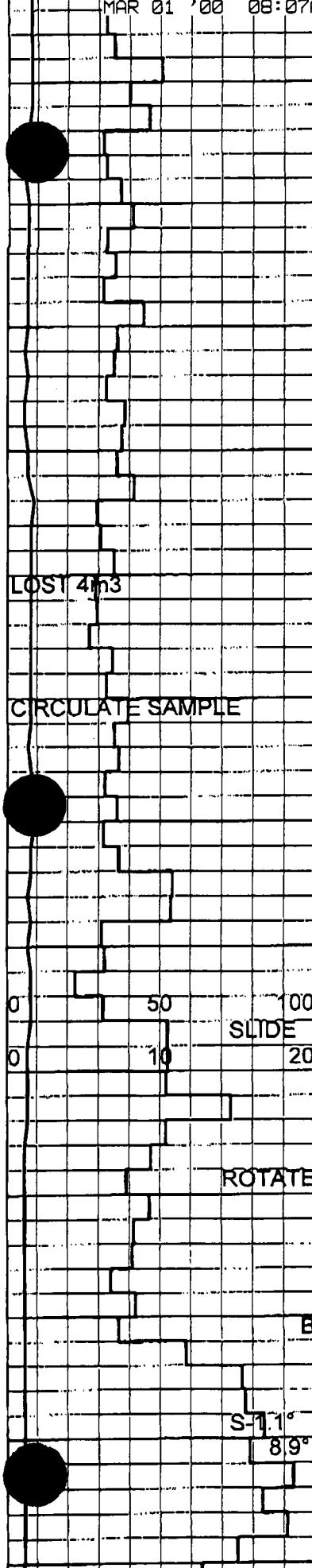
DOLOSTONE - med i um brown to light tan, aphano to microcrystalline, fossil ghosts (Amphipora) , trace arenaceous, scattered molds with white euhedral to subhedral dolomite infilling, tight to fair moldic porosity (6-7%) , no s hows ;

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 s hows .

MAR 01 '00 08:07AM AEC°  
S-1.0°  
68.7°

P. 22/24



1650

S-1.5°  
94.5°

1675

0 50 100  
0 10 20

BEAR ROCK  
(1696.0)

1700

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

DOLOSTONE - light tan to brown to buff white, aphano to microcrystalline rare very fine crystalline interbeds of dololutite, 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?

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

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

Dolostone with Siltstone & Shale interbeds & stringers:  
DOLOSTONE - light tan to buff white, aphano 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.

00703/01

FOB 17-18000

RPM 0-20

DENS 1070

VISC 52

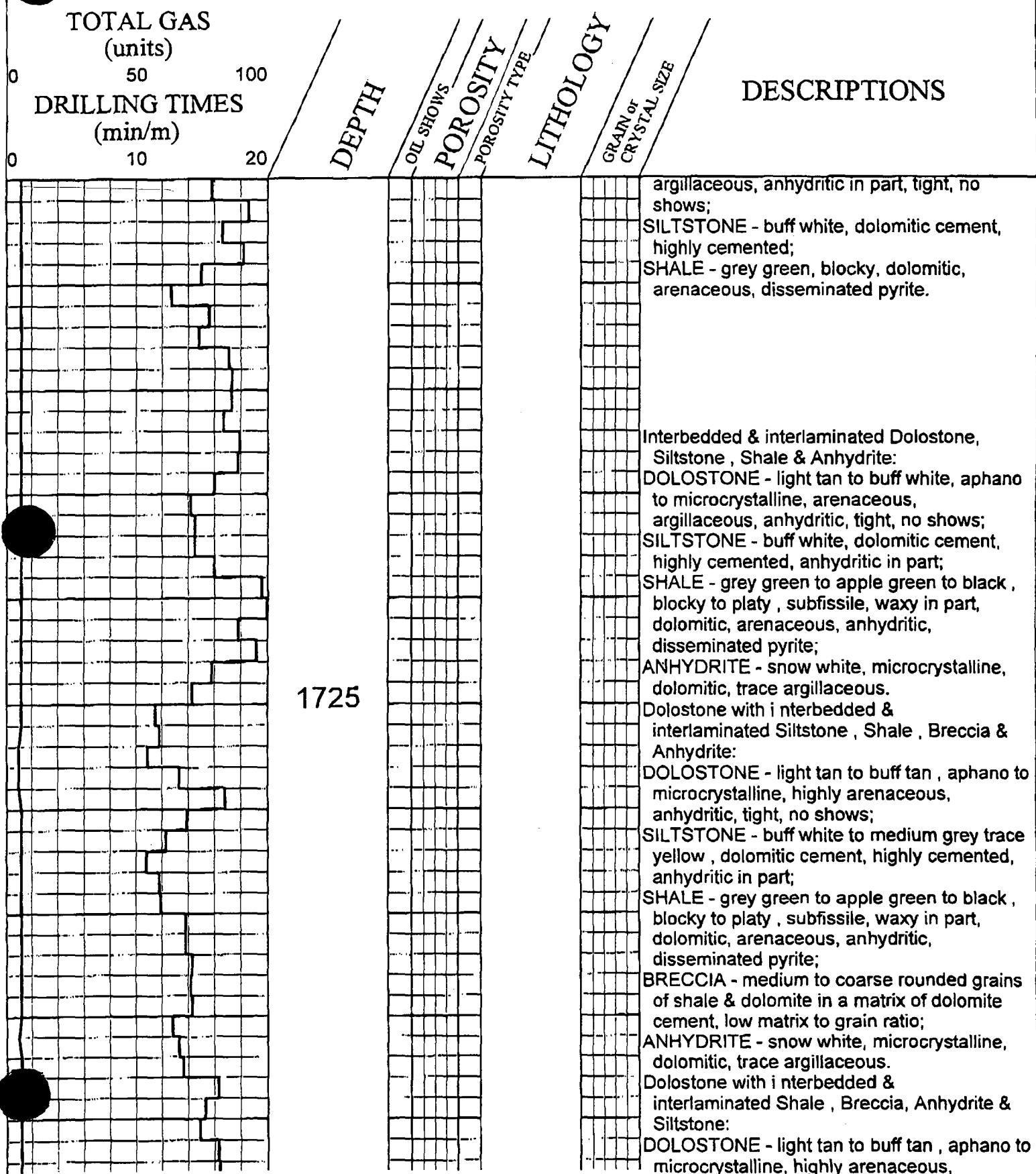
1725

1750

Interbedded & interlaminated Dolostone, Siltstone Shale & Anhydrite:  
DOLOSTONE - light tan to buff white to medium to dark grey, aphano to microcrystalline, arenaceous, argillaceous, anhydritic, tight, no s hows;  
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.

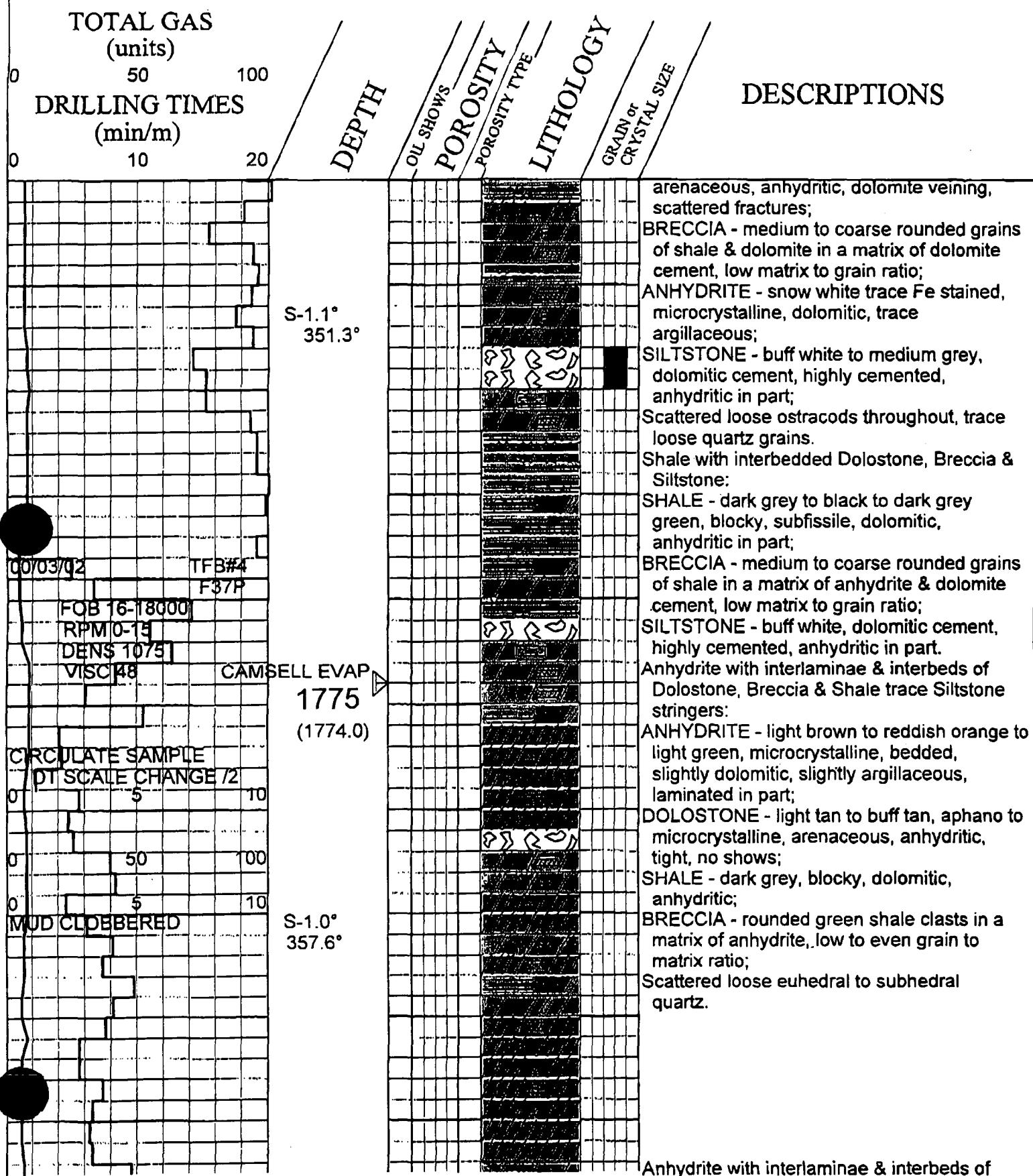
## CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



## CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



MAR 03 '00 08:40AM AEC

DENS 1070  
VIS C 78  
pH 11.0  
WL 20+  
53000 PPM Cl-

S-1.1°  
343.6°

1825

S-1.0°  
354.8°

1850

S-1.1°  
8.2°

dolomitic, arenaceous, laminated; 10/12 art;  
DOLOSTONE - light brown to buff tan, aphano 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, aphano 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, aphano 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 AEC

0 50 100

0 5 10

00/03/03

FOB 17-18000

RPM 15

DENS 1080

VISC 73

1875

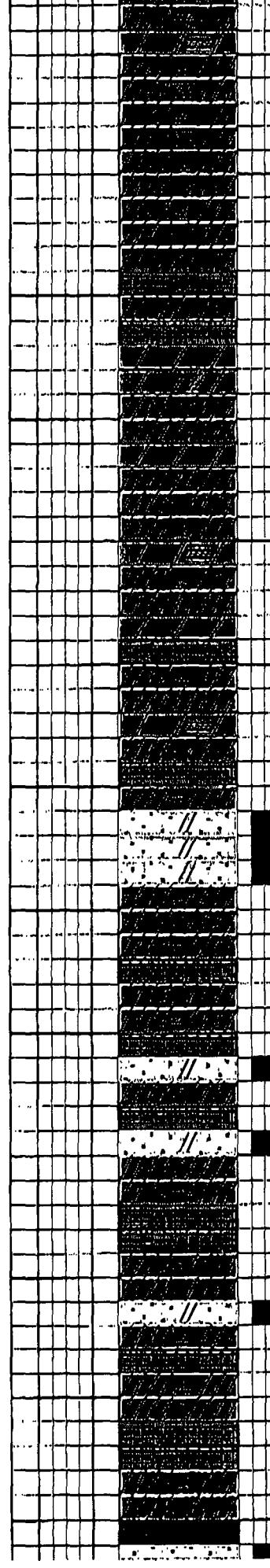
S-7°  
18.0°

1900

S-4°  
13.1°

1925

S-2°  
347.8°



SHALE - black to light green, P. 11/12b fissile, 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, aphano 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;

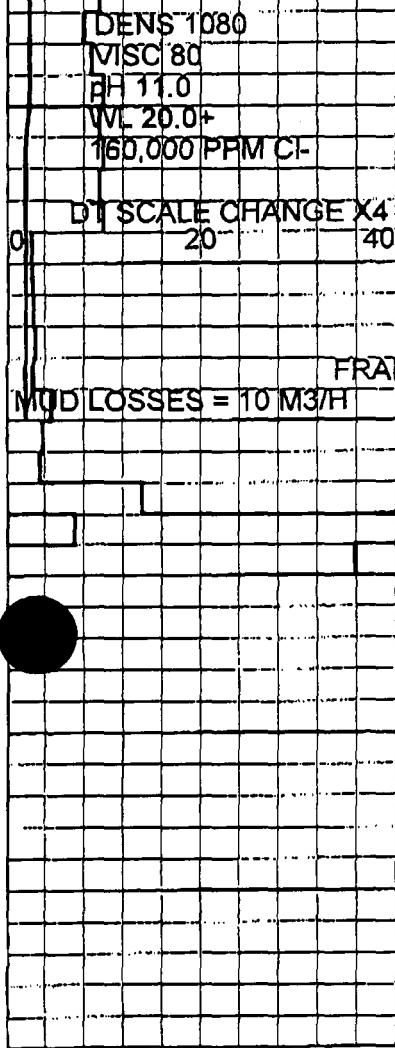
SANDSTONE - clear quartz, fine to coarse euhedral crystals, loose, good porosity, no shows;

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



1950

1975

SANDSTONE - clear quartz, 1P. 12/12 areal euhedral 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;

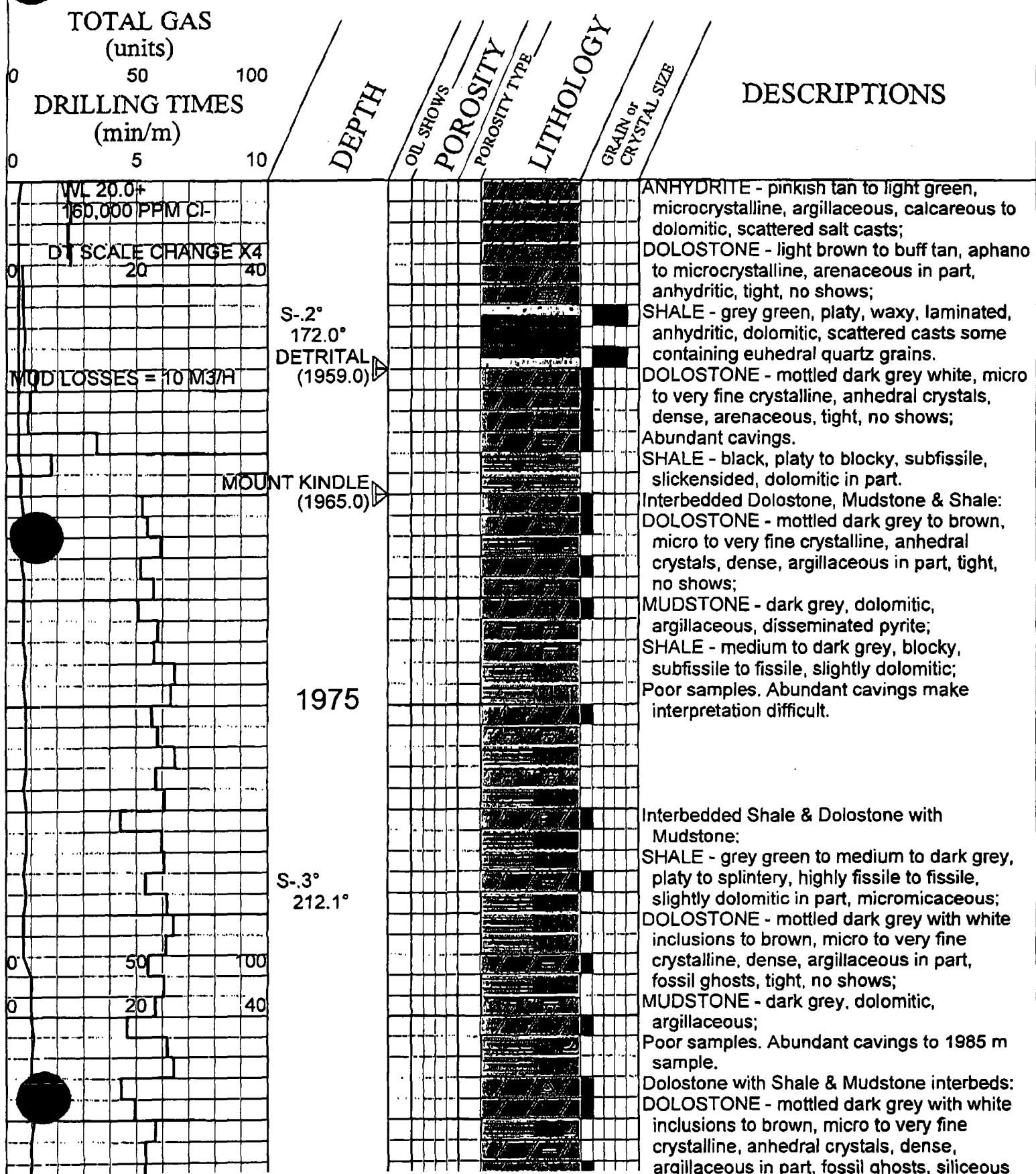
DOLOSTONE - light brown to buff tan, aphanitic to microcrystalline, arenaceous in part, anhydritic, tight, no shows;

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

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

## CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



MAR 06 '00 08:03AM AEC

platy, slightly fissile to fissile, <sup>shallow</sup> dolomitic in part, micromicaceous, MUDSTONE - mottled dark grey, dolomitic, argillaceous.

00/03/04  
FOB 18000  
RPM 14  
DENS 1165  
VISC 46  
230,000 PPM CI

S-9°  
155.9°

2025

TOTAL DEPTH  
(2030.0)

2050

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.