compu-max

71 Martinview Road, N.E.
CALGARY, Alberta
T3J 2W2 (403) 280-5857

COMPOSITE WELL HISTORY
DRILLING TIME
LITHOLOGY LOG

N.E.B. COPY

COMPANY: AEC (West)
WELL: AEC (West) RENAISSANCE CARCAJOU O-74
FIELD: EXPLORATORY
PROVINCE: NWT
LOCATION: LSD SEC TWP RGE W MERIDIAN

COORDINATES: 7271461.56 535309.10 E
ELEVATIONS: GD 107.0 m LOG MEASURED FROM KB
KB 111.3 m 4.3 m ABOVE GROUND
WELL TYPE: EXPLORATORY TOTAL DEPTH:
SPUD DATE: 2000-03-05 T.D. DATE:
LICENCE No.: 1888 AFE No.: 5000045

CONTRACTOR: AKITA #14
MUD TYPE: GEL CHEM
MUD UP @: 472 METERS
SAMPLES: 5 & 2.5 METER SAMPLES
AEC/REN: 125 to T.D. METERS
GOV'T: 125 to T.D. METERS
DSTs: NONE

CORES:

OPEN HOLE LOGS: SCHLUMBERGER
CNL-LDT-DLL:
BHCS-GR

SUPERVISION
GEOLOGICAL: Glen MacIntosh
DRILLING: STEVE HOLYOAKE

CASING DEPTH
SURFACE: 125.0 m
INTERMEDIATE: 487.0 m
MAIN: m

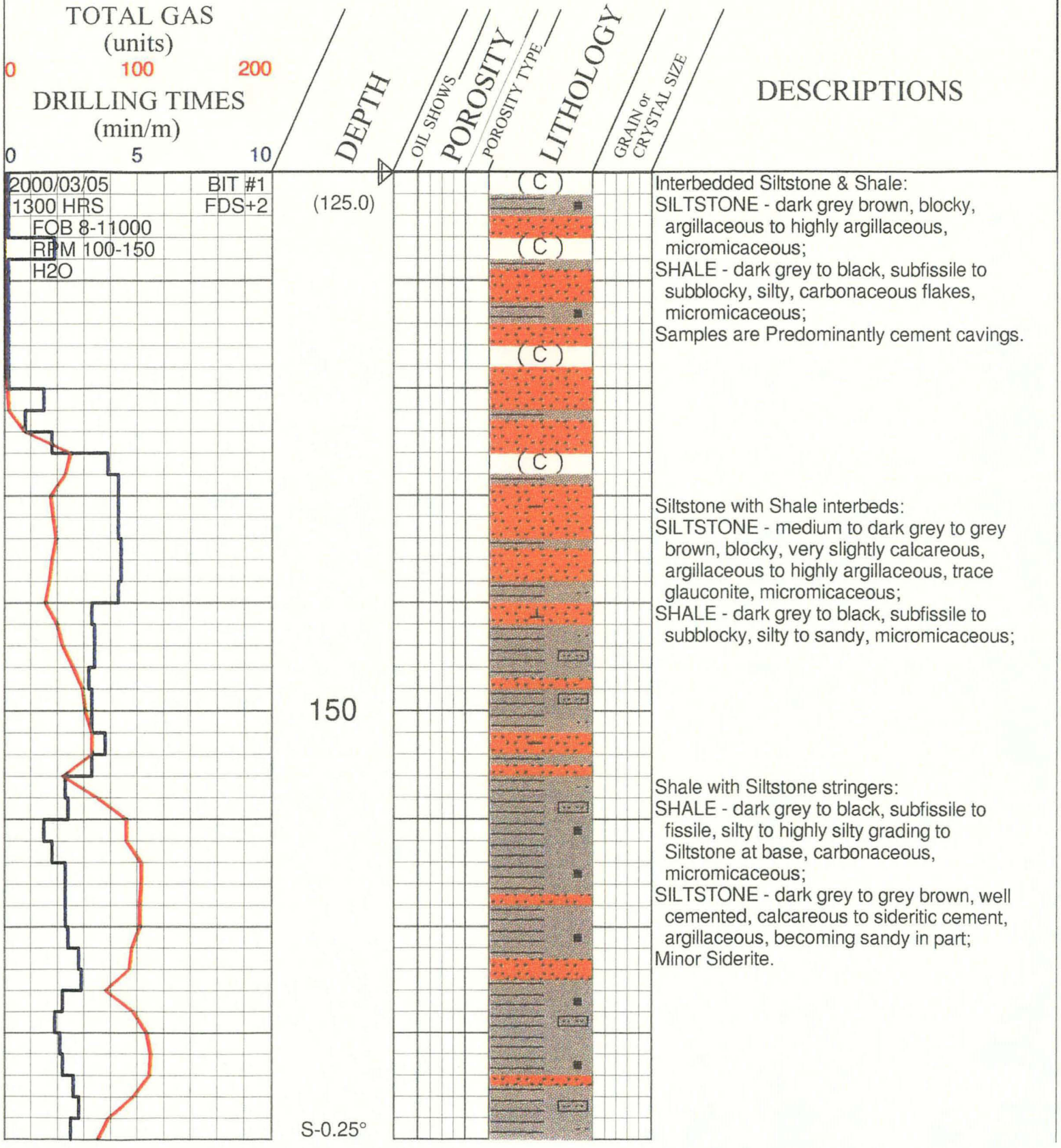
CASING SIZE
SURFACE: 244.5 mm
INTERMEDIATE: 177.8 mm
MAIN: mm

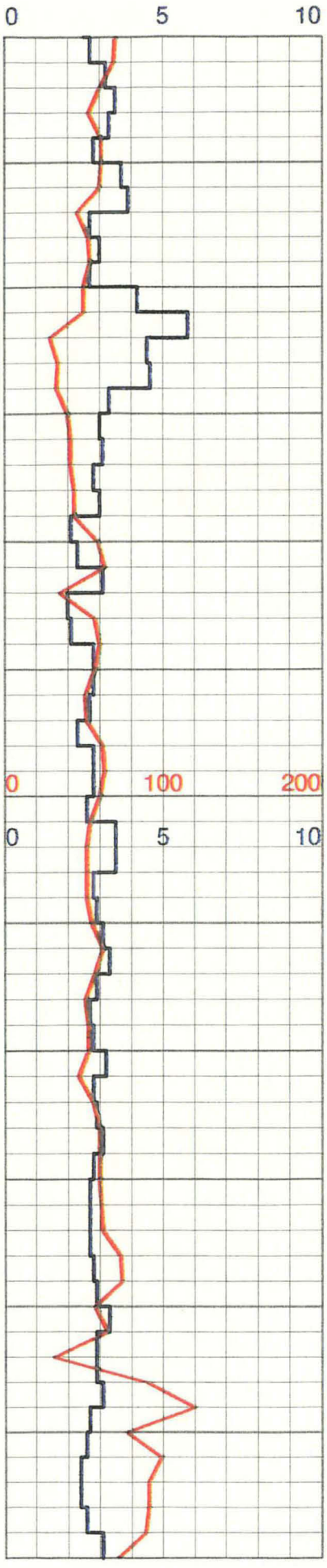
HOLE SIZE
SURFACE: 311 mm
INTERMEDIATE: 222 mm
MAIN: 156 mm

REMARKS: SURFACE HOLE DRILLED IN ADVANCE WITH LAYNE CHRISTENSEN. SAMPLE QUALITY FAIR TO GOOD

CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240

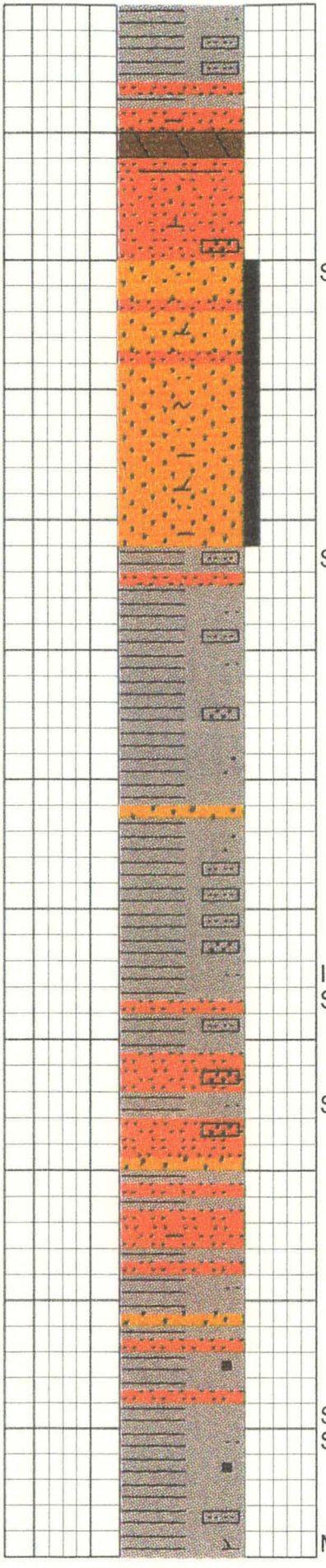




175

200

225

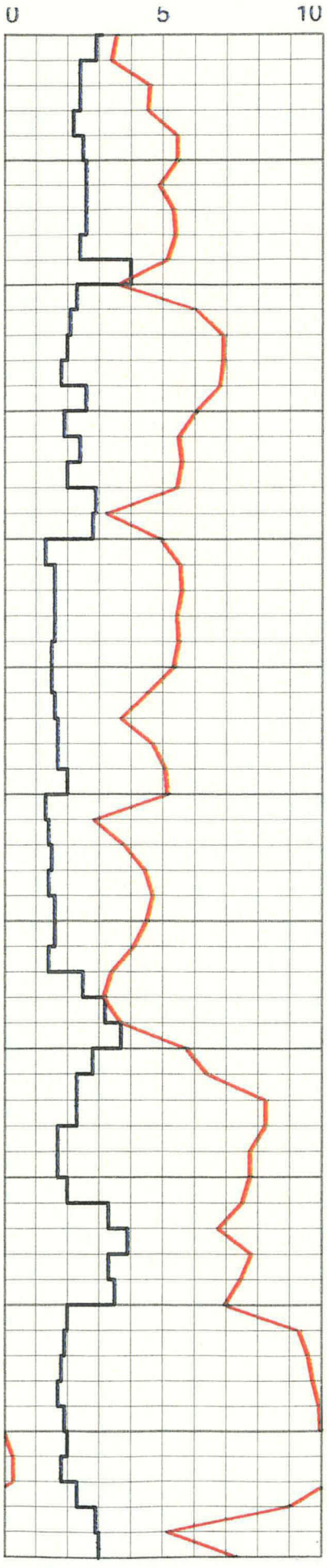


SANDSTONE - light to medium grey to grey brown, quartz, silt to very fine grained, subround to subangular, well sorted, well cemented, dolomitic cement, slightly carbonaceous, argillaceous, trace glauconite, tight, no shows.

SHALE - dark grey, rare green, fissile to subfissile, silty to sandy, micromicaceous.

Interbedded Siltstone & Shale:
SHALE - dark grey to black, fissile to subfissile, silty grading to argillaceous Siltstone in part, sandy, micromicaceous, trace carbonaceous;
SILTSTONE - dark grey to grey brown, blocky, argillaceous, sandy grading to Sandstone, trace glauconite, micromicaceous.

Shale with Siltstone stringers:
SHALE - dark grey to black, fissile to subfissile, silty grading to argillaceous Siltstone in part, micromicaceous, trace carbonaceous, minor disseminated pyrite;
Minor Siderite stringers.



250

275

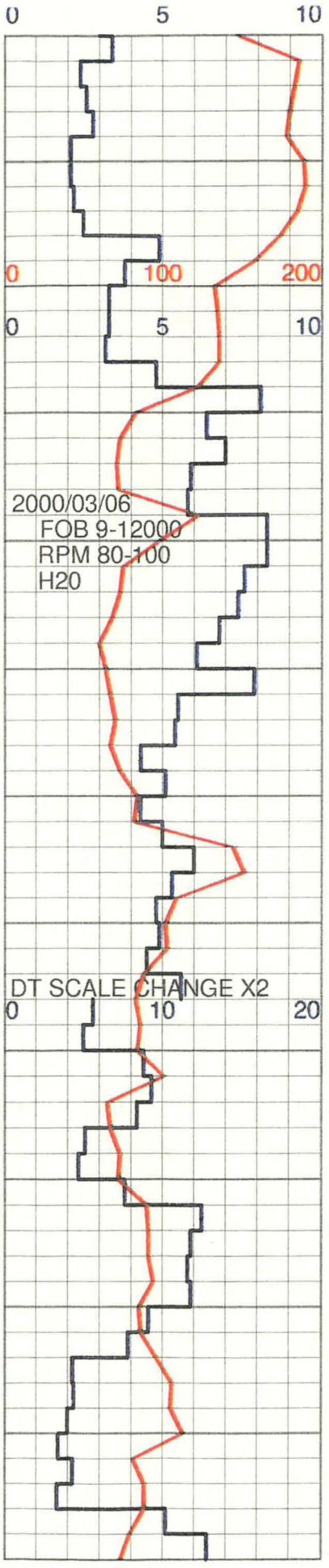
S-1.0°

SHALE - dark grey to black, fissile to subfissile, platy to blocky, silty part, micromicaceous, carbonaceous in part, firm;
SIDERITE - medium to dark brown, blocky, argillaceous, calcareous, hard.

SHALE - dark grey to grey brown, subfissile to blocky, silty, micromicaceous, trace pyrite, trace carbonaceous;
Trace Siderite stringers.

Interbedded Siltstone & Shale:
SILTSTONE - dark grey to grey brown, argillaceous, calcareous in part, sandy grading to very fine Sandstone in part, rare glauconite, micromicaceous, pyritic;
SHALE - dark grey to black , subfissile, blocky, silty, carbonaceous, micromicaceous, common disseminated pyrite;

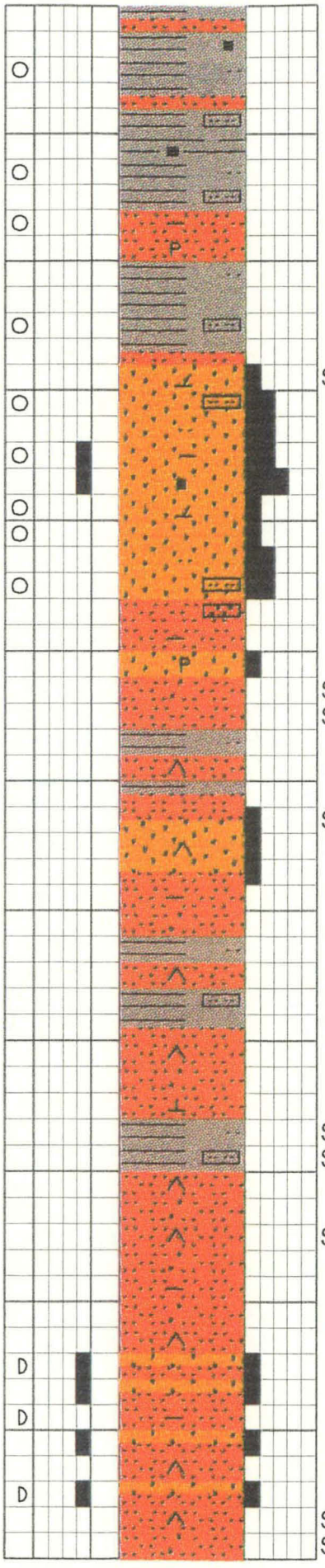
SHALE - dark grey to black , fissile to subfissile, silty grading to argillaceous Siltstone in part, carbonaceous, micromicaceous, minor disseminated pyrite, weak white cut, ? show.



300

325

350

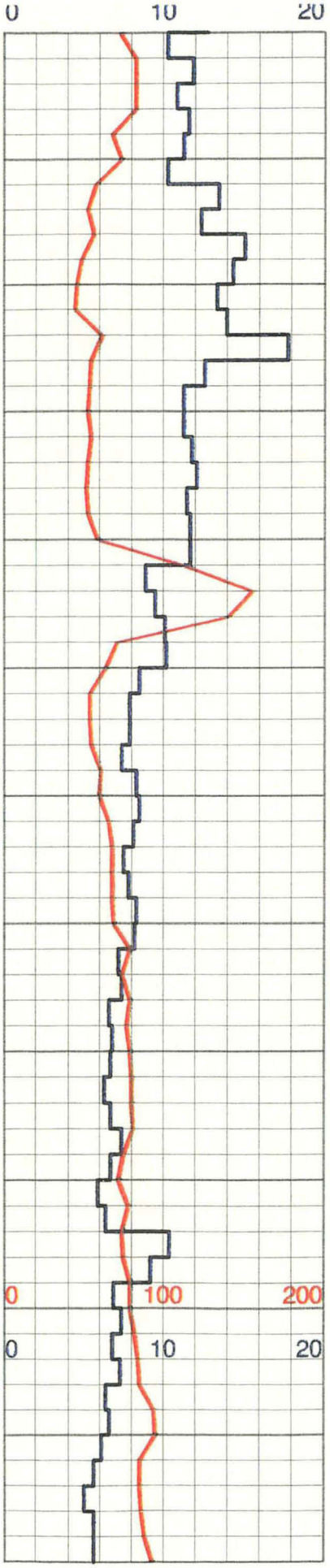


SANDSTONE - light grey to off white, quartz, very fine to fine, rare medium grains, angular to subangular, moderately to well sorted, moderate to poorly cemented, dolomitic cement, silty, trace carbonaceous flakes, tight to trace poor porosity, slow weak white cut, ? show.

Siltstone with Shale interbeds & laminae:
SILTSTONE - grey to grey brown, siliceous, sandy grading to very fine Sandstone in part, argillaceous, slightly calcareous near base, trace carbonaceous flakes;
SHALE - dark grey, fissile, silty, micromicaceous, trace carbonaceous.

Shale with Siltstone stringers:
SHALE - dark grey, fissile to subfissile, platy in part, silty to highly silty, minor carbonaceous material, micromicaceous;
SILTSTONE - grey to grey brown, siliceous, sandy grading to very fine Sandstone, argillaceous, tight to poor porosity (3%), no florescence, fast white cut.

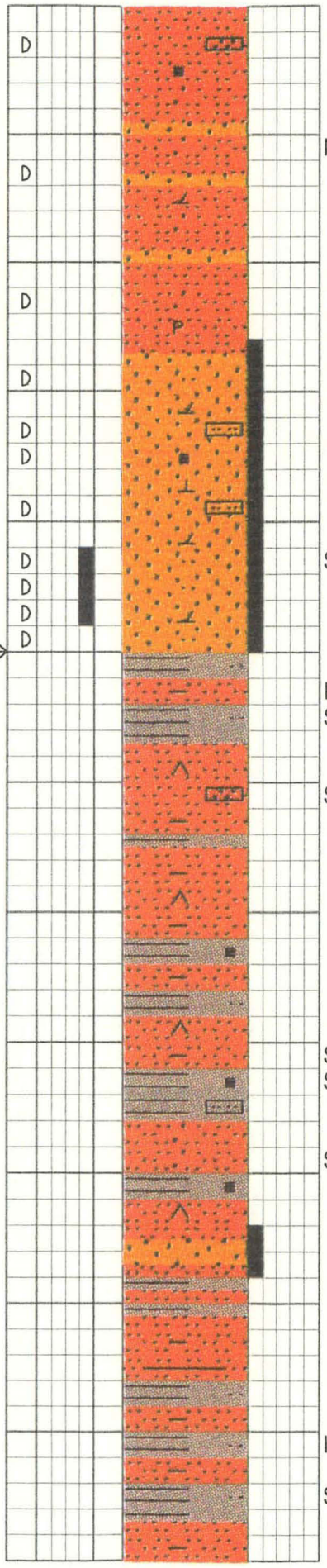
Siltstone grading to Sandstone:
SILTSTONE - light to medium brown, quartz,



S-1.0°

IMPERIAL
375
(375.0)

400

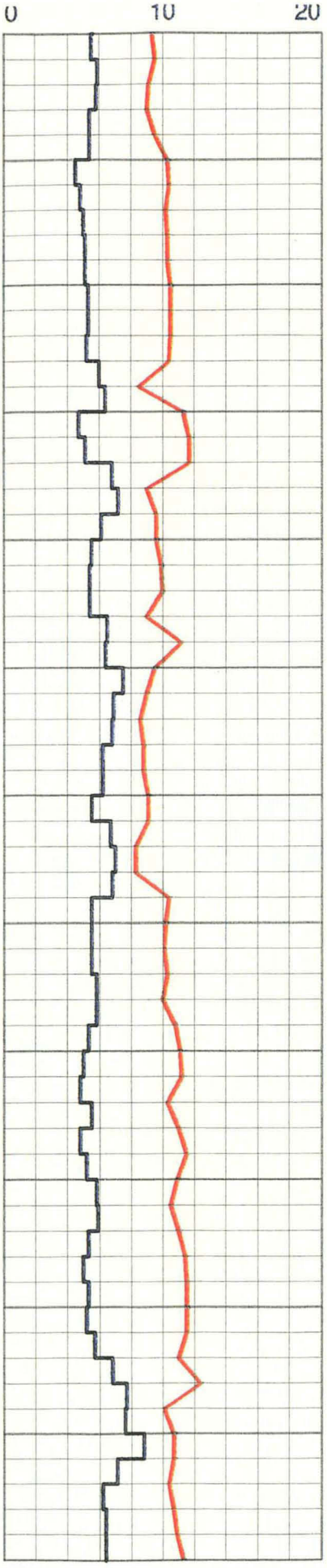


minor carbonaceous flakes, moderately to well cemented, silica cement, slightly dolomitic, sandy grading to Sandstone in part, minor pyrite, no florescence, fast white cut;
Minor Shale laminae.

SANDSTONE - tan to light grey brown, quartz, very fine grained, well sorted, subangular, moderately cemented, dolomitic cement, silty, tight to poor porosity (3%), no florescence fast white cut.
Interbedded Siltstone & Shale:
SILTSTONE - grey to grey brown, siliceous, sandy in part, argillaceous to highly argillaceous;
SHALE - dark grey, fissile to subfissile, silty grading to Siltstone, micromicaceous, trace carbonaceous.

Siltstone with Shale interbeds:
SILTSTONE - grey to grey brown, siliceous, sandy grading to very fine Sandstone in part, argillaceous to highly argillaceous;
SHALE - dark grey, fissile to subfissile, silty grading to Siltstone, micromicaceous, trace carbonaceous.

Interbedded & interlaminated Siltstone & Shale:
SILTSTONE - grey to grey brown, siliceous, sandy in part, argillaceous to highly argillaceous grading to Shale;



425

450

S-1.5°

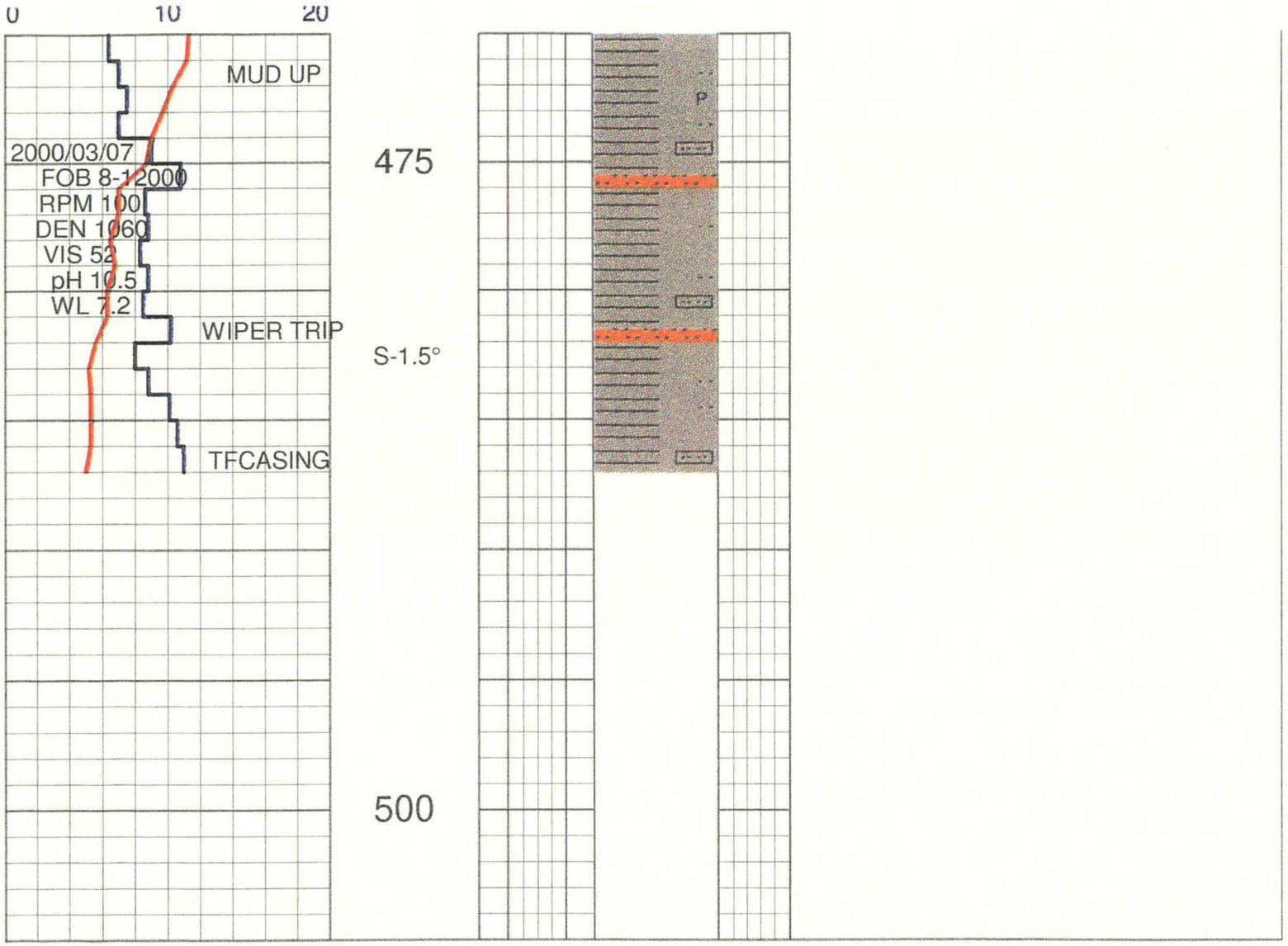
SHALE - dark grey, fissile to subfissile, silty grading to Siltstone, micromicaceous, trace carbonaceous.

Siltstone with Shale interbeds:
SILTSTONE - light brown, well cemented, siliceous, argillaceous;
SHALE - dark grey to black, fissile, platy, firm.

SHALE - medium to dark grey, fissile to subfissile, platy, firm, silty grading to argillaceous Siltstone in part, trace disseminated pyrite, micromicaceous.

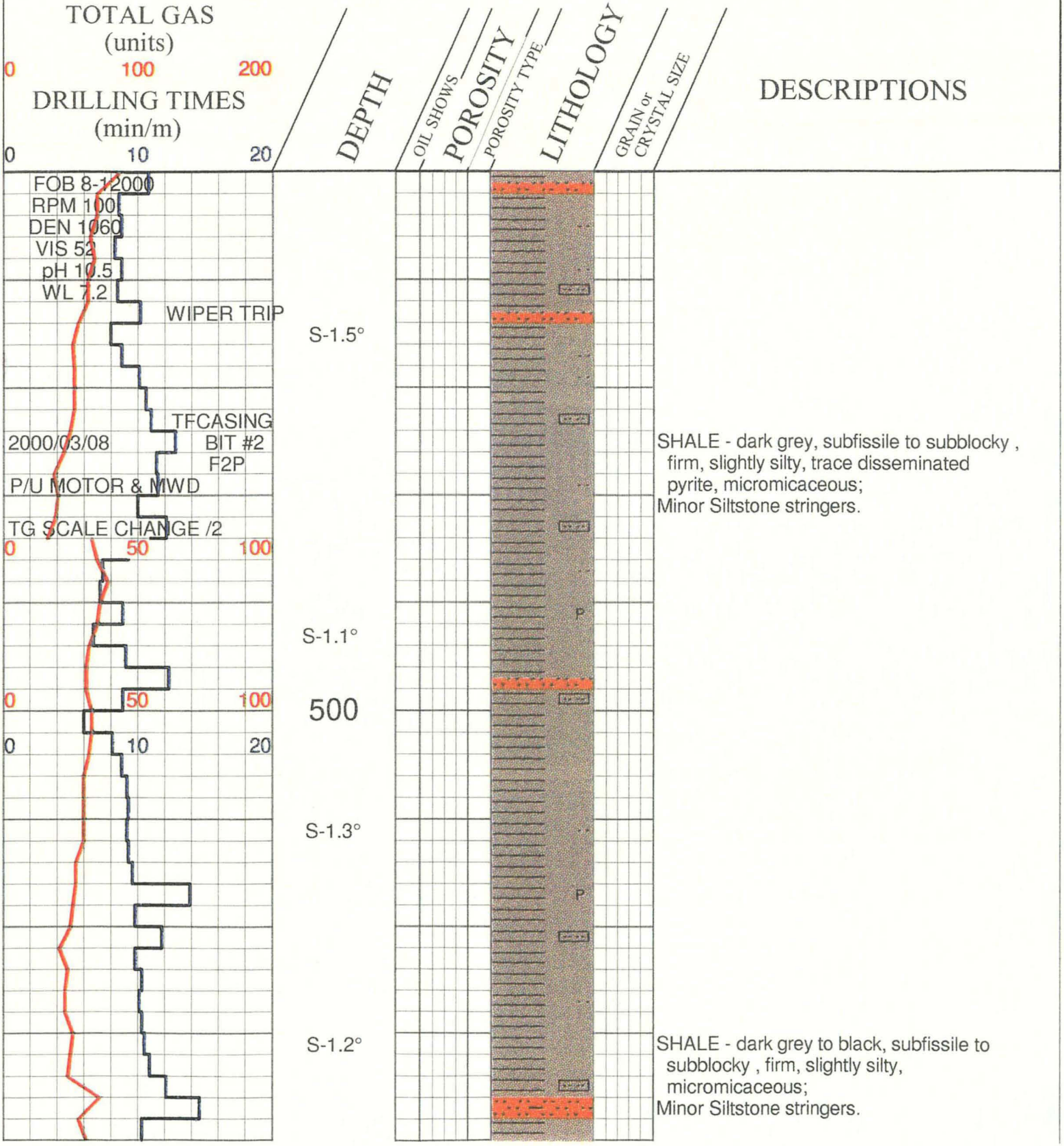
SHALE - medium to dark grey, fissile to subfissile, platy to splintery, firm, silty to grading to argillaceous Siltstone, trace disseminated pyrite, micromicaceous.

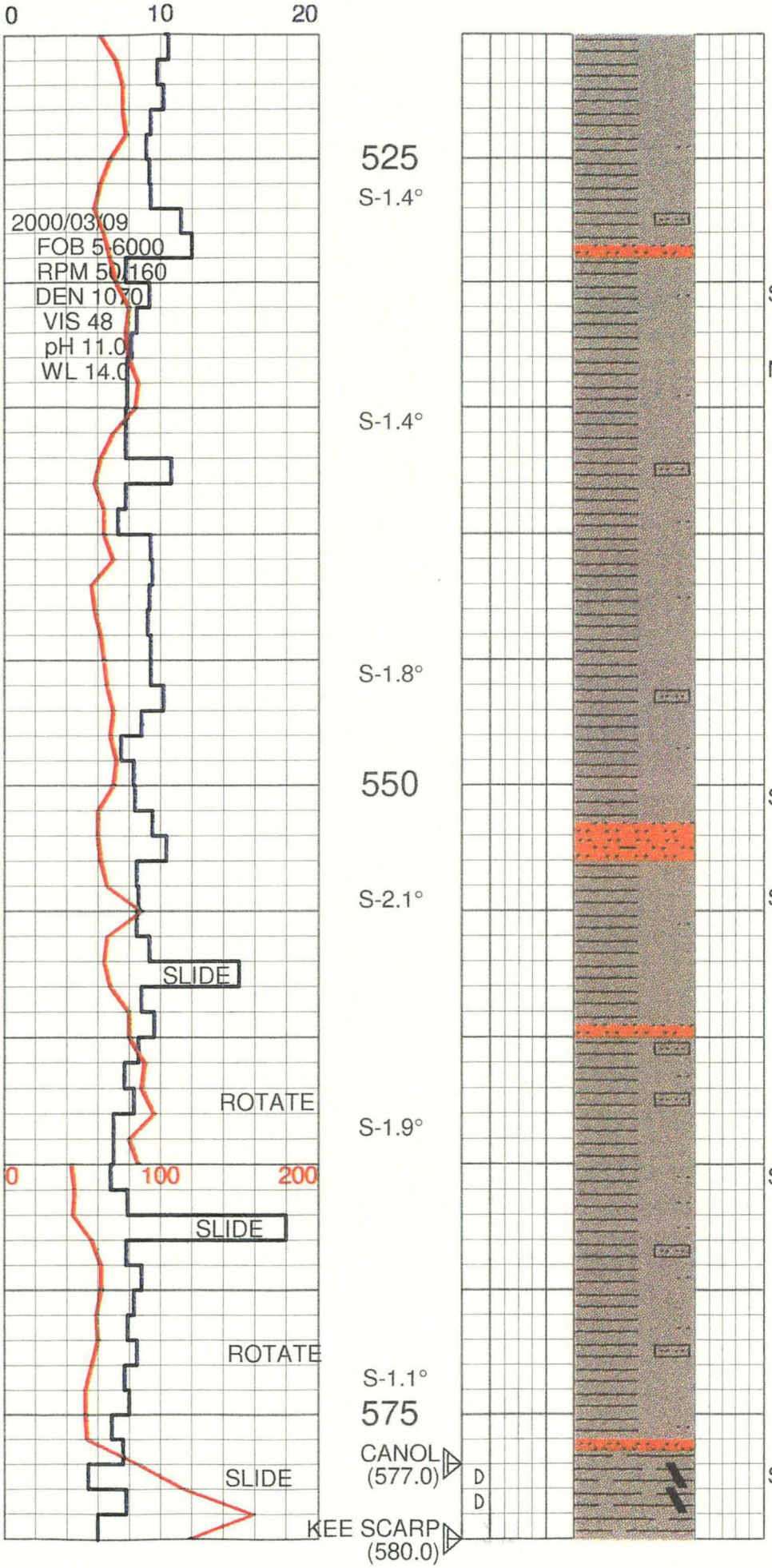
SHALE - dark grey, fissile subfissile, firm, silty to highly silty, minor disseminated pyrite, micromicaceous;
Minor Siltstone stringers.


0
10
20
MUD UP
2000/03/07
FOB 8-12000
RPM 100
DEN 1060
VIS 52
pH 10.5
WL 7.2
WIPER TRIP
TFCASING
475
S-1.5°
500
P

CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



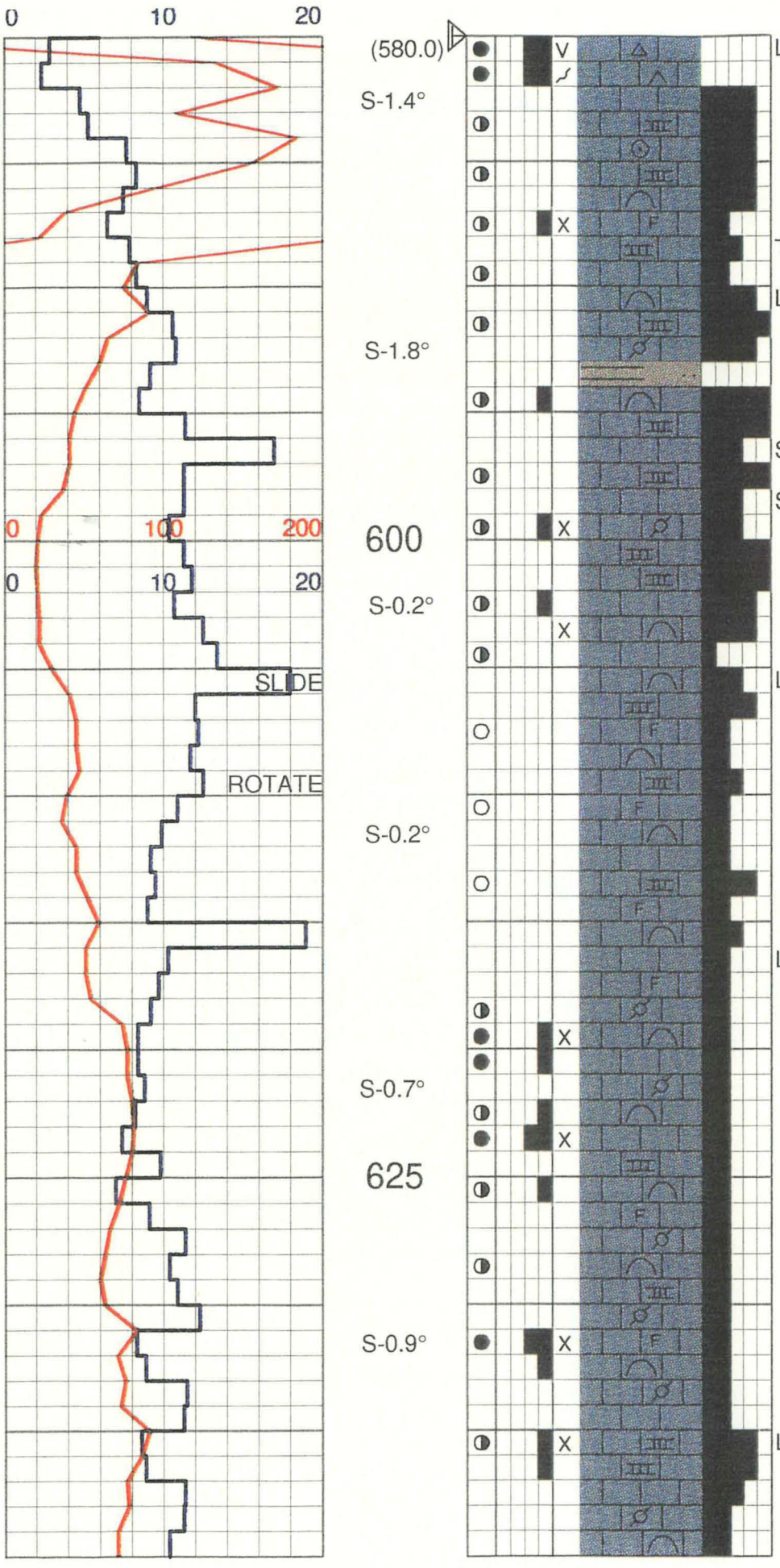


SHALE - dark grey to dark grey brown, subfissile to subblocky , firm, slightly silty, micromicaceous;
Minor Siltstone & Siderite stringers.

SHALE - medium to dark grey, subfissile to subblocky, firm, silty grading to Siltstone in part, slightly pyritic in part, micromicaceous;
SILTSTONE - medium to dark grey brown, blocky, well cemented, siliceous, argillaceous, slightly sandy, trace carbonaceous.

SHALE - medium to dark grey, subfissile to subblocky, firm, silty grading to Siltstone in part, slightly pyritic in part, micromicaceous;

SHALE - black to dark grey, fissile to subfissile, blocky, carbonaceous, disseminated pyrite, bituminous.



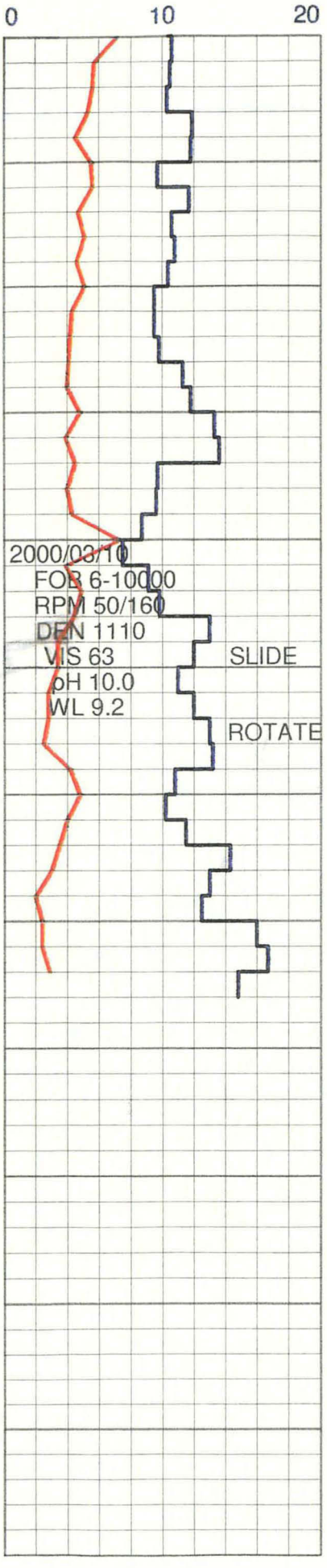
LIMESTONE - off white to tan to medium brown, fine to coarse calcirudite, stromatoporoid biomicrite, rudstone, micrite to crinoid biopelmicrite matrix, siliceous to cherty near top, fair moldic or vuggy porosity, tight to poor intercrystalline porosity, spotty florescence, fast white streaming cut;
Trace euhedral calcite & quartz crystals (pore lining?).

LIMESTONE - off white to tan to medium brown, coarse calcirudite, stromatoporoid biomicrite, rudstone, micrite to biopelmicrite matrix, tight to minor poor porosity (<3%), spotty florescence, fast white streaming cut, trace pyrobitumen;
Samples contain predominantly frags of large scale stroms (white to tan);
Shale interbed.

LIMESTONE - light to medium brown, fine to medium calcirudite, stromatoporoid biomicrite, floatstone to rudstone, micrite to biomicrite matrix, fossil debris, tight to trace minor porosity (<3%), weak ? florescence, moderate to slow white cut.

LIMESTONE - as above, calcarenite to calcirudite, biopelmicrite, fossil debris, poor to fair chalky porosity (3-8%), spotty to even staining, bright yellow florescence, moderate to fast white cut.

LIMESTONE - off white to tan to medium brown, fine calcarenite to calcirudite, stromatoporoid biopelmicrite , floatstone to rudstone, fossil debris, tight to minor poor to fair (3-6%) porosity, spotty florescence,



S-0.8°

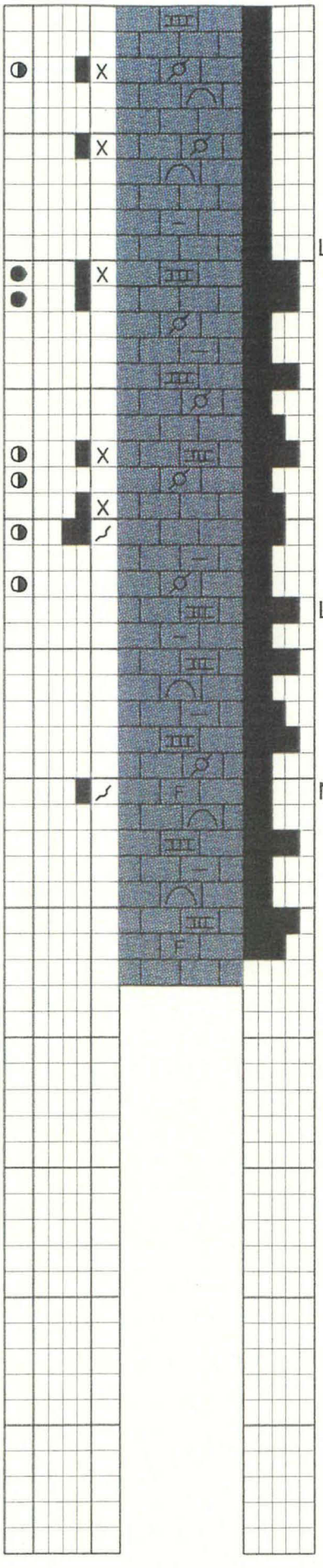
650

S-1.0°

S-1.0°

675

700



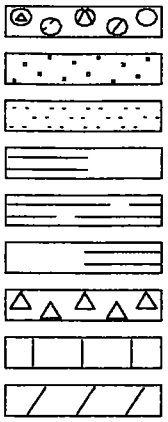
slow white streaming cut to no shows.

LIMESTONE - off white to tan to medium brown, fine calcarenite to calcirudite, stromatoporoid biopelmicrite to biopelsparite, floatstone to rudstone, fossil debris, slightly agillaceous, tight to minor poor intercrystalline (3%) porosity, trace fair moldic porosity (6%), even to spotty florescence, moderate to fast white streaming cut.

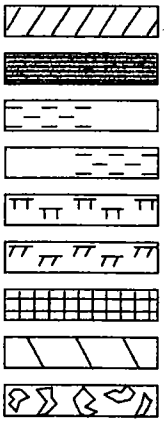
LIMESTONE - off white tan to dark brown grey, calcirudite, stromatoporoid biopelmicrite, floatstone to rudstone, pellets & coral & fossil debris, argillaceous to highly argillaceous, tight to trace poor moldic porosity, minor pyrobitumen, no shows;
Minor Shale laminae.

top Dhi 720.5m

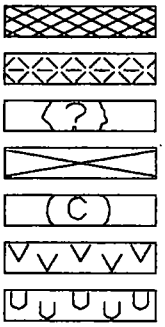
ROCK TYPE



CONGLOMERATE
SANDSTONE
SILTSTONE
SHALE, grey
SHALE, black
SHALE, coloured
CHERT
LIMESTONE
DOLOMITE

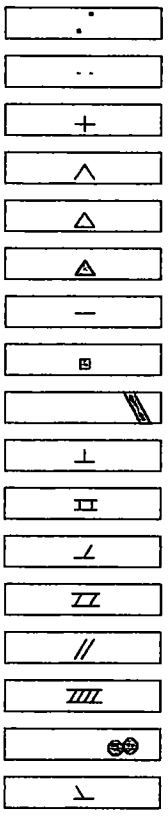


ANHYDRITE
COAL
CLAYSTONE, grey
CLAYSTONE, col
MARLSTONE, calc
MARLSTONE, dol
SALT
SIDERITE, LIMONITE
BRECCIA

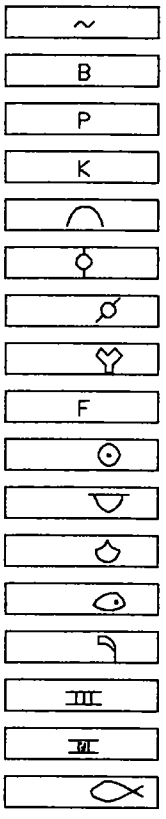


IGNEOUS, basic
IGNEOUS, acidic
CANNOT INTERPRET
NO SAMPLE
CEMENT
TUFF
ULTRABASIC

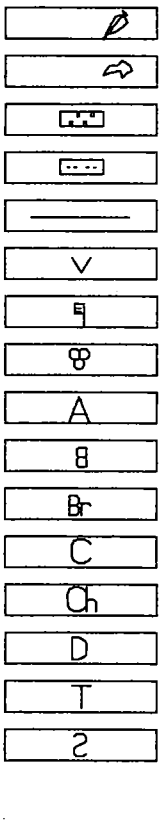
ACCESSORIES



SANDY
SILTY
FELDSPAR
SILICEOUS
CHERTY, light
CHERTY, dark
ARGILLACEOUS
CARBONACEOUS
BITUMENOUS
CALCAREOUS
LIMESTONE strg
DOLOMITIC
DOLOMITE strg
ANHYDRITIC
ANHYDRITE strg
PHOSPHATE pel
FERRUGINOUS



GLAUCONITIC
BENTONITIC
PYRITIC
KAOLINITIC
BIOCLASTIC
OOLITES
PELLETS
INTRACLASTS
FOSSILS
CRINOID
PELECYPOD
BRACHIOPOD
OSTRACOD
CORAL
STROMATOPOROID
AMPHIPORA
FISH REMAINS



PLANT REMAINS
BRECCIA frag
SANDSTONE strg
SILTSTONE strg
SHALE lam
TUFFACEOUS
Heavy, dark Minerals
FORAMINIFERA/Rad
ANTIGORITE
BRUCITE
BRONZITE
CHROMITE
CHRYSOTILE
DUNITE
TALC
SERPENTINE

OIL SHOWS

- EVEN STAINING, FLUORESCES
- SPOTTY STAIN, FLUORESCES
- QUESTIONABLE, NO FLUORESCENCE,
- DEAD, ASPHALTIC

POROSITY TYPES

- X INTERCRYSTALLINE, INTERGRANULAR
- INTEROOLITIC, INTEPELLETOID,
- V VUGGY,
- P PINPOINT,
- MOLDIC
- ORGANIC
- F FRACTURE
- e EARTHY
- FENESTRAL

DUNHAM CLASSES

- PK PACKSTONE
- WK WACKESTONE
- MD MUDSTONE
- BD BOUNDSTONE
- GR GRAINSTONE