

compu-max

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

COMPOSITE WELL HISTORY
DRILLING TIME
LITHOLOGY LOG

COMPANY: AEC OIL & GAS LTD

N.E.B. COPY

WELL: AEC (WEST) RENAISSANCE CARCAJOU D-07

FIELD: EXPLORATORY

PROVINCE: NWT

LOCATION: LSD SEC TWP RGE W MERIDIAN

COORDINATES:

ELEVATIONS: GD 83.2 m
KB 87.5 m

LOG MEASURED FROM KB
4.3 m ABOVE GROUND

WELL TYPE: EXPLORATORY

TOTAL DEPTH:

SPUD DATE: 2000-03-14

T.D. DATE:

LICENCE No.: 1890

AFE No.: 5000047

CONTRACTOR: AKITA #14

CORES: NONE

MUD TYPE: GEL CHEM

MUD UP @:

SAMPLES: 5 & 2.5 METER INTERVALS

AEC/REN: 172m TO T.D.m

OPEN HOLE LOGS: SCHLUMBERGER

GOVT: 172m TO T.D.m

DSTs:

SUPERVISION

GEOLOGICAL: Glen MacIntosh

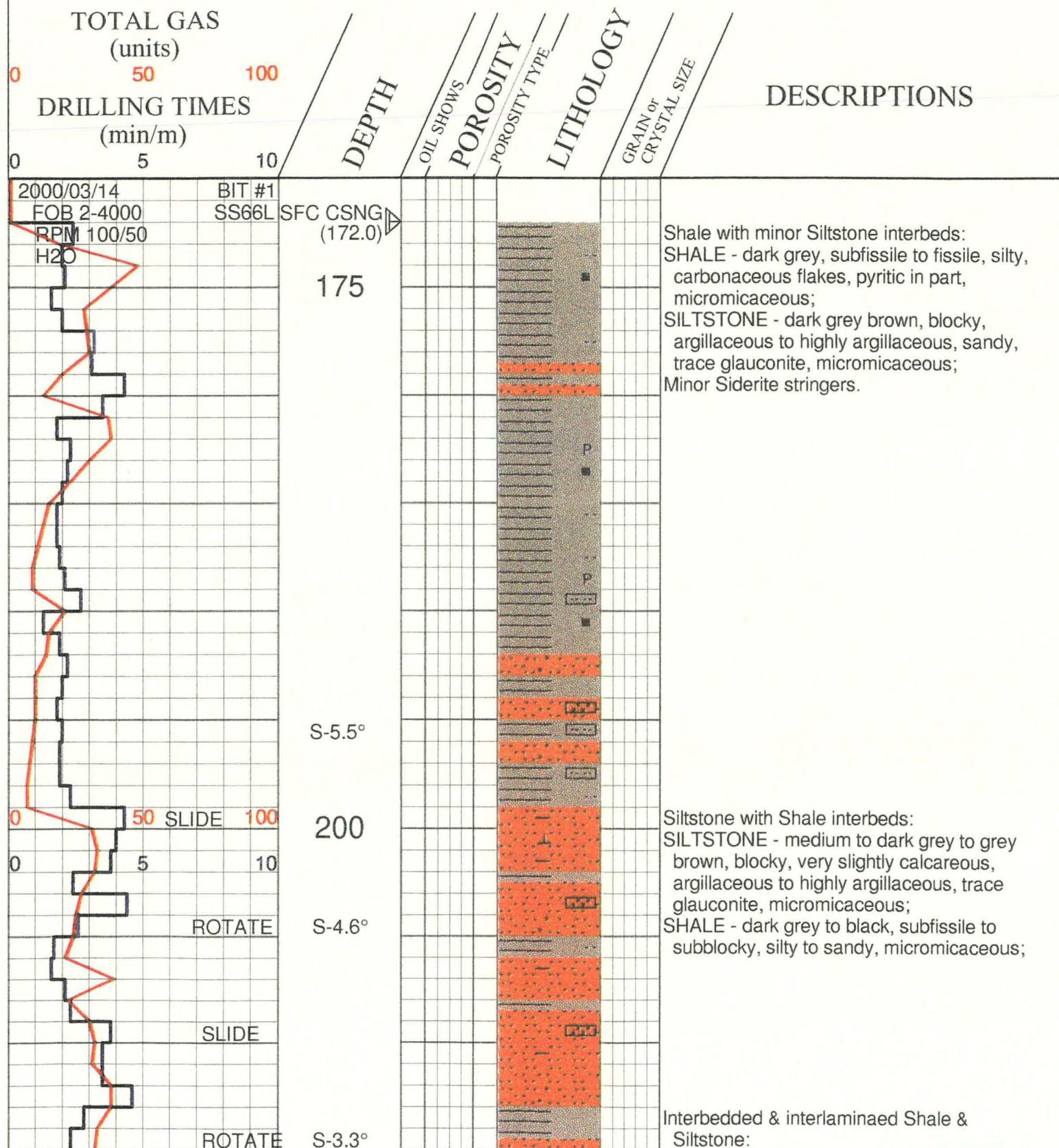
DRILLING: LYN SANDQUIST

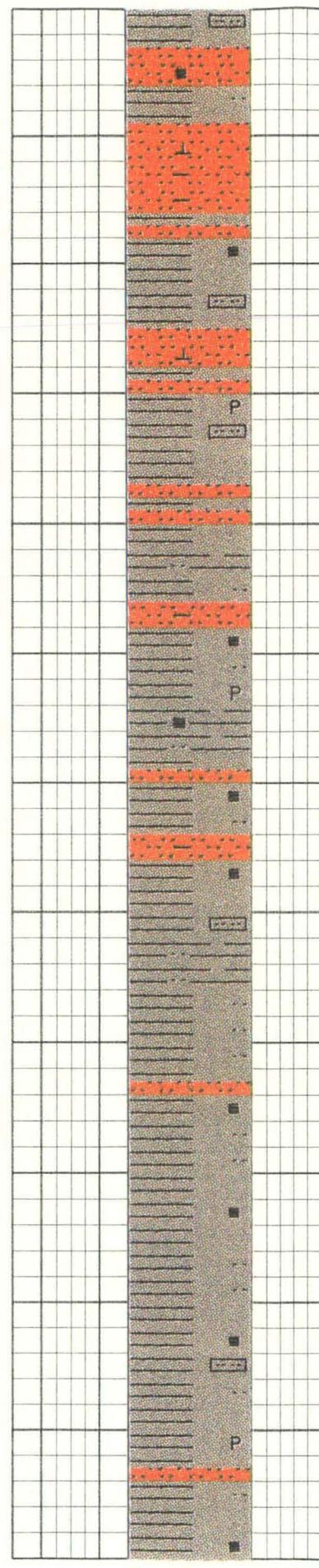
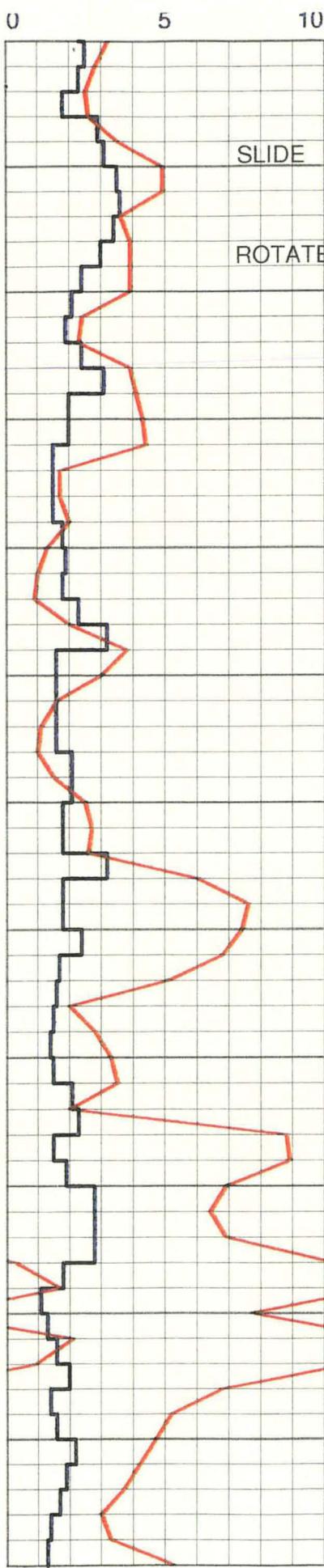
CASING DEPTH
SURFACE: 172 m
INTERMEDIATE: m
MAIN: m

CASING SIZE
SURFACE: 244.5 mm
INTERMEDIATE: 177.8 mm
MAIN: 114 mm

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

REMARKS:

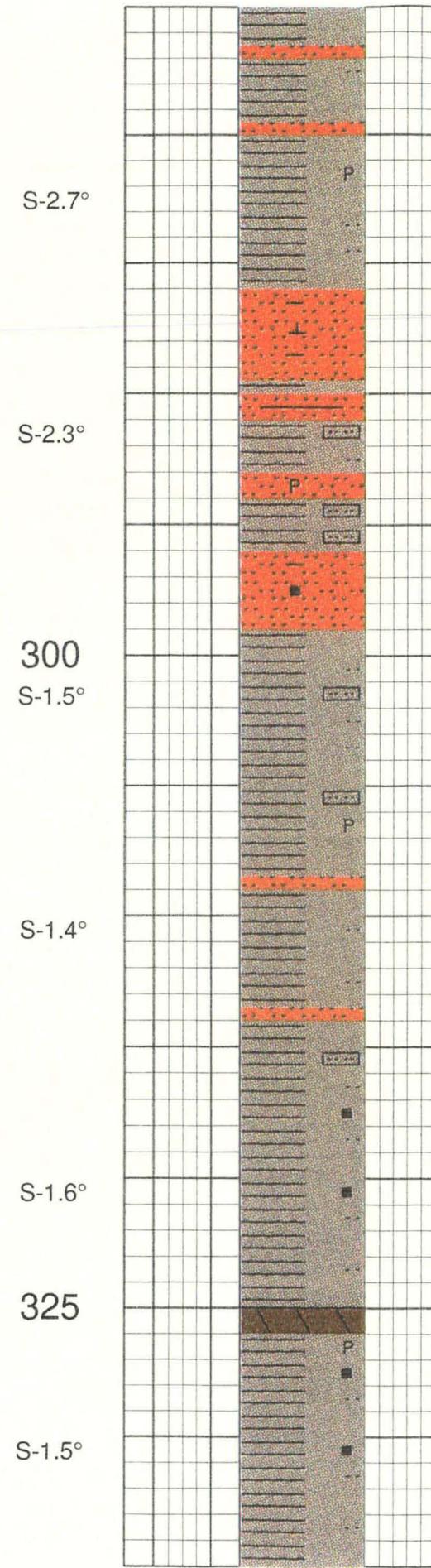
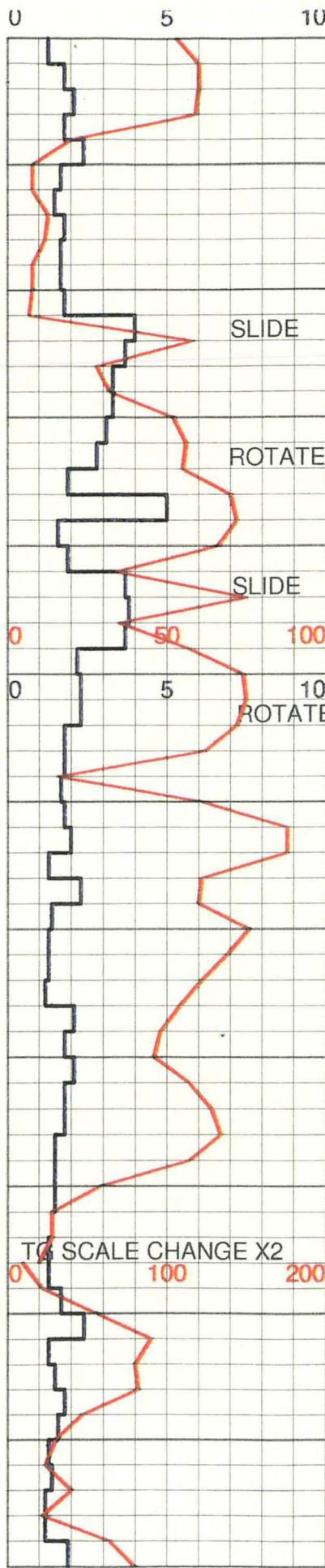


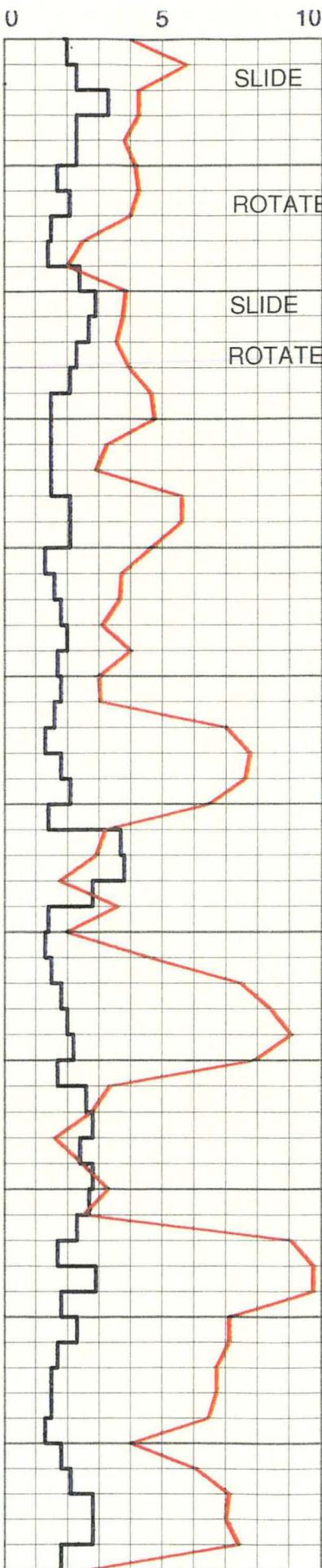


SHALE - dark grey, subfissile to fissile, silty to highly silty grading to Siltstone, carbonaceous, micromicaceous, pyritic in part;
 SILTSTONE - dark grey to grey brown, well cemented, calcareous to sideritic cement, argillaceous to highly argillaceous grading to Shale, becoming sandy in part;

Shale with Siltstone interbeds:
 SHALE - dark grey to black, fissile to subfissile, platy, silty, carbonaceous, minor disseminated pyrite;
 SILTSTONE - dark grey to grey brown, well cemented, calcareous, carbonaceous, argillaceous to highly argillaceous, sandy in part;

Shale with minor Siltstone interbeds:
 SHALE - dark grey, fissile to subfissile, silty to highly silty grading to Siltstone in part, trace carbonaceous, micromicaceous, disseminated pyrite;





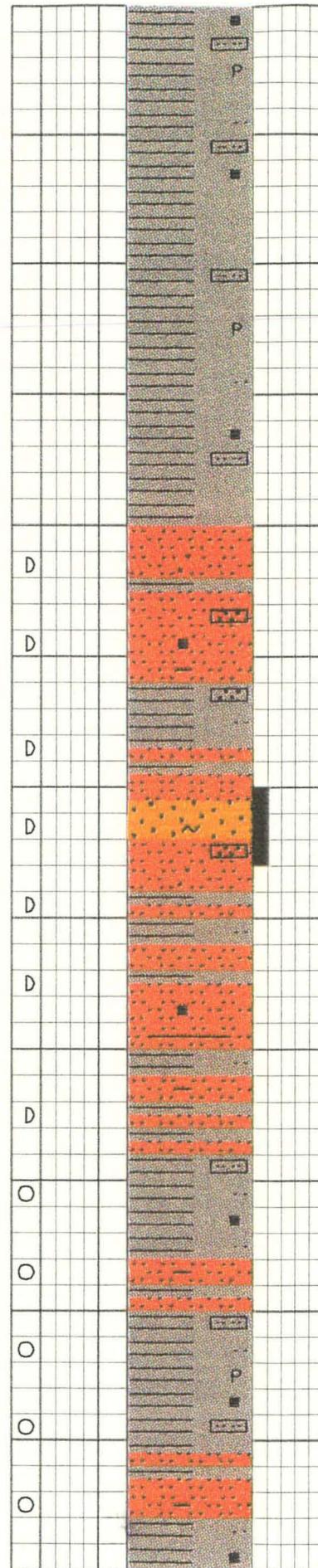
S-1.1°

350

S-1.1°

375

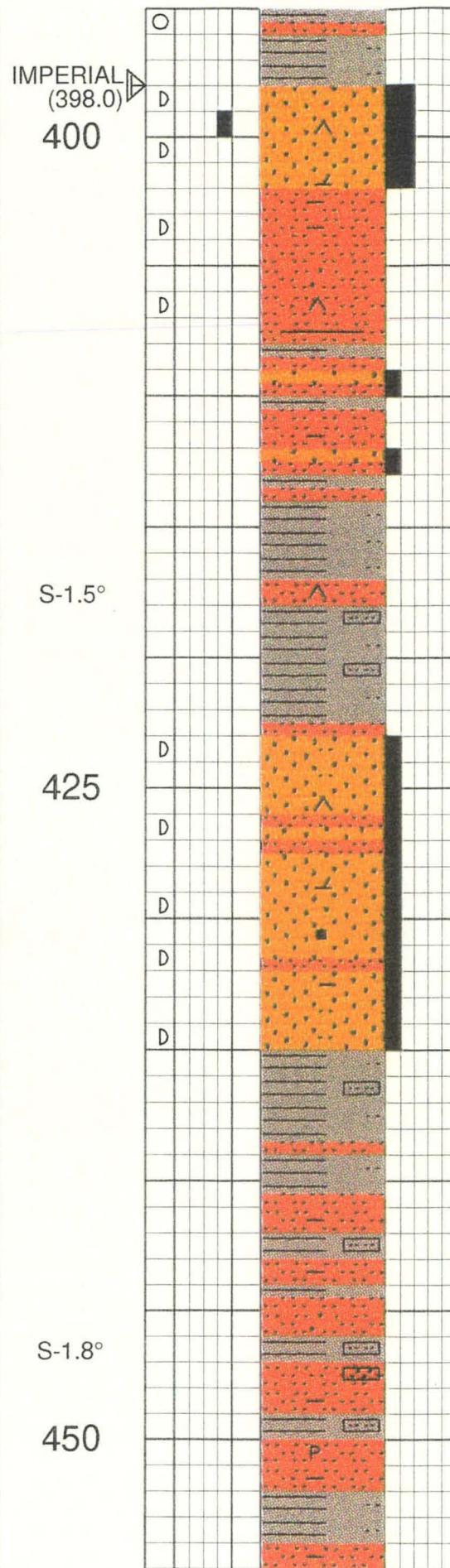
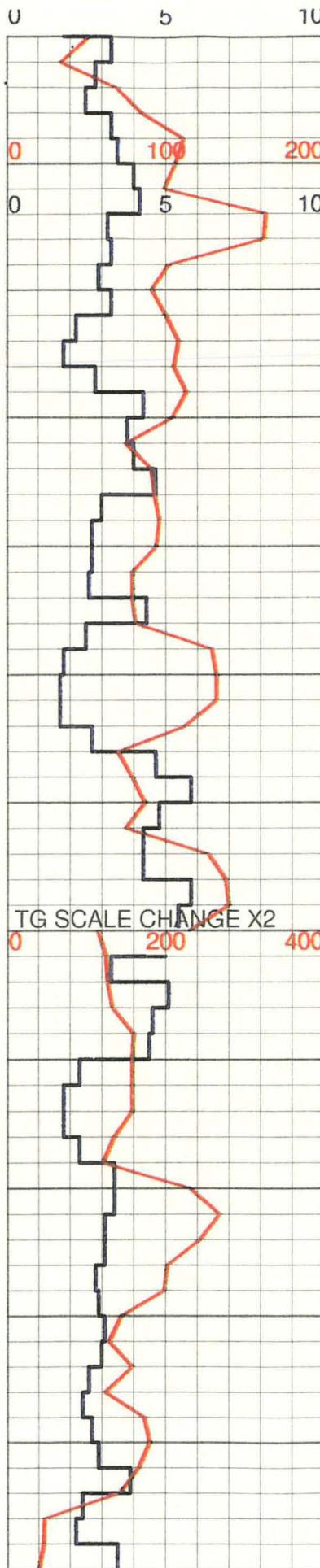
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subfissile, platy to splintery in part, carbonaceous, silty to sandy, trace glauconite, micromicaceous, disseminated pyrite; Minor Siderite interbeds.

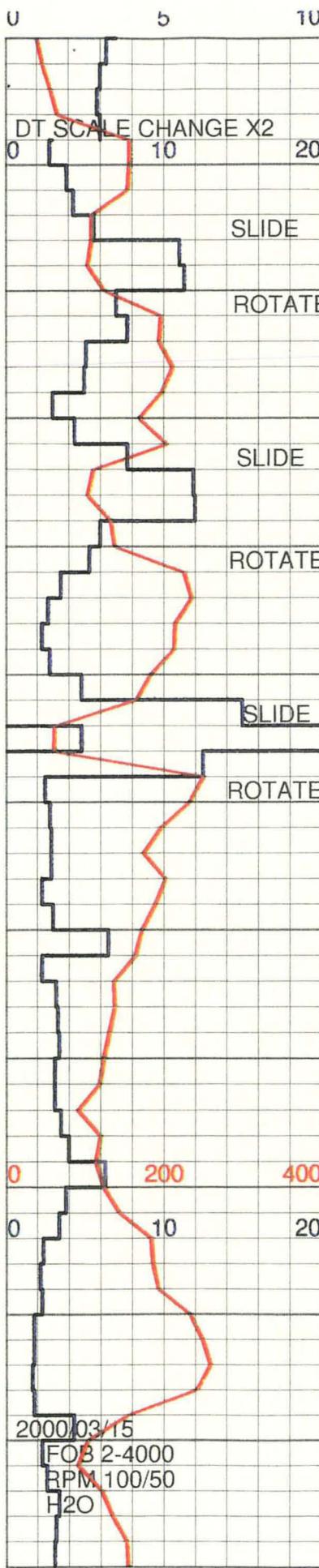
Interbedded Siltstone & Shale:
 SILTSTONE - medium to dark brown to grey brown, well cemented, argillaceous, slightly calcareous in part, sandy grading to very fine Sandstone in part, trace glauconitic, trace carbonaceous, micromicaceous, disseminated pyrite, tight, fast white cut;
 SHALE - dark grey, fissile to subfissile, platy, carbonaceous, silty to sandy, micromicaceous.

Shale with Siltstone interbeds & laminae:
 SHALE - dark grey to brown grey, fissile to subfissile, silty grading to Siltstone, carbonaceous, micromicaceous, disseminated pyrite;
 SILTSTONE - dark grey brown, well cemented, argillaceous, calcareous in part, slightly sandy, micromicaceous, ? cut.



SANDSTONE - It grey to off white, vf to f grained, angular to subangular, well sorted, mod to well cemented, dol & sil cement, trace poor porosity to tight, fast white cut. Siltstone with Shale interbeds:

SILTSTONE with Shale interbeds.
SILTSTONE - grey to grey brown, siliceous, slightly calcareous in part, sandy grading to very fine Sandstone in part, argillaceous, ? to no shows SHALE - dark grey, fissile to subfissile, silty grading to Siltstone, micromicaceous, trace carbonaceous.

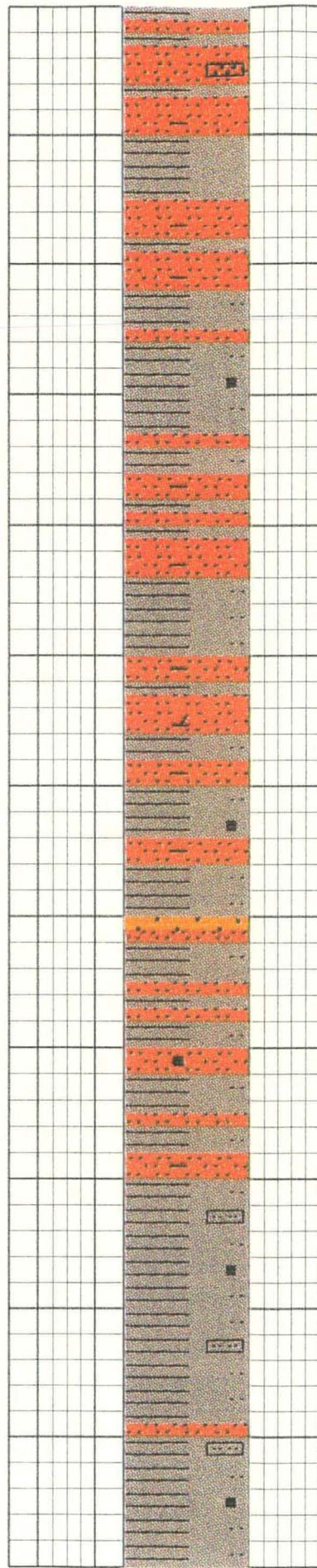


S-2.0°

S-1.7°

475
S-1.4°

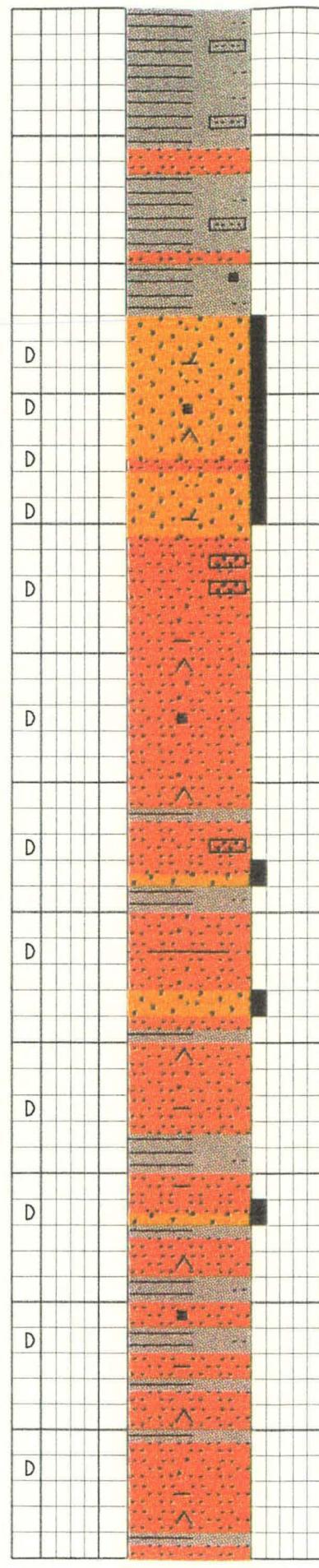
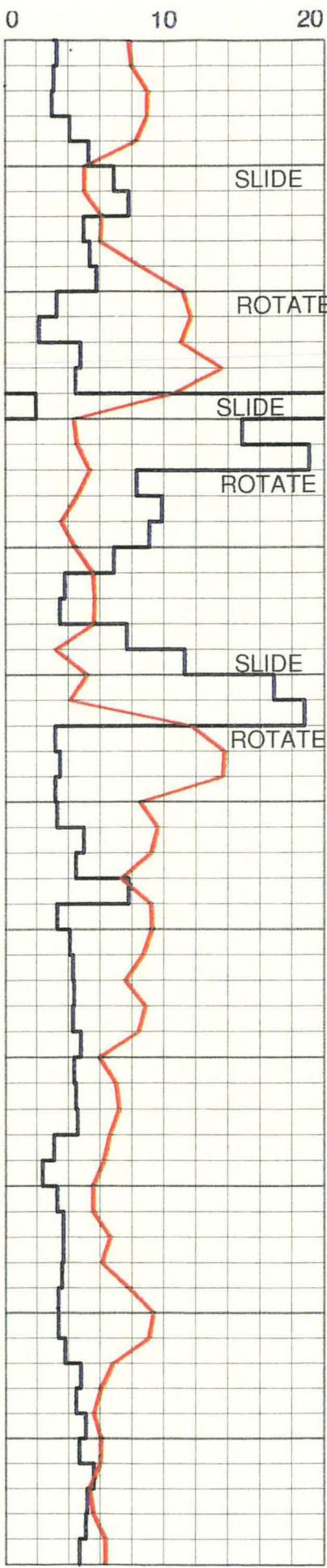
500
S-2.2°



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

Interbedded & interlaminated Shale & Siltstone:
 SHALE - dark grey, fissile to subfissile, blocky, silty, micromicaceous, trace carbonaceous;
 SILTSTONE - grey to grey brown, siliceous, very slightly dolomitic, sandy grading to very fine Sandstone in part, trace carbonaceous, argillaceous.

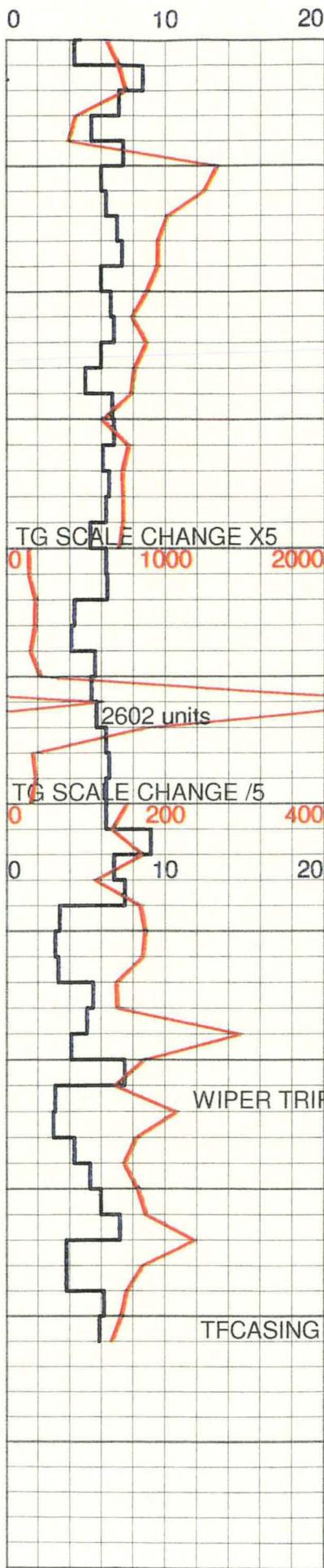
Shale with Siltstone stringers:
 SHALE - dark grey, fissile, silty grading to Siltstone in part, micromicaceous, trace carbonaceous.



SANDSTONE - light grey, silt to very fine Sandstone, subangular, well sorted, well cemented, dolomitic cement, siliceous, trace carbonaceous, tight to trace porosity, fast white cut.

SILTSTONE - light to medium brownish grey, moderately to well cemented, silica cement, sandy grading to Sandstone in part, argillaceous, slightly carbonaceous, tight, fast white cut.

Interbedded Siltstone, Sandstone & Shale:
 SILTSTONE - light to medium brownish grey, moderately to well cemented, silica cement, sandy grading to Sandstone in part, argillaceous, slightly carbonaceous, tight, fast white cut;
 SANDSTONE - light to medium grey, very fine grained, subangular, well sorted, moderately cemented, silica cement, silty to highly silty, argillaceous, trace carbonaceous, tight to rare poor porosity, no fluorescence, fast white cut;
 SHALE - dark grey, subfissile to subblocky, silty to highly silty, micromicaceous.

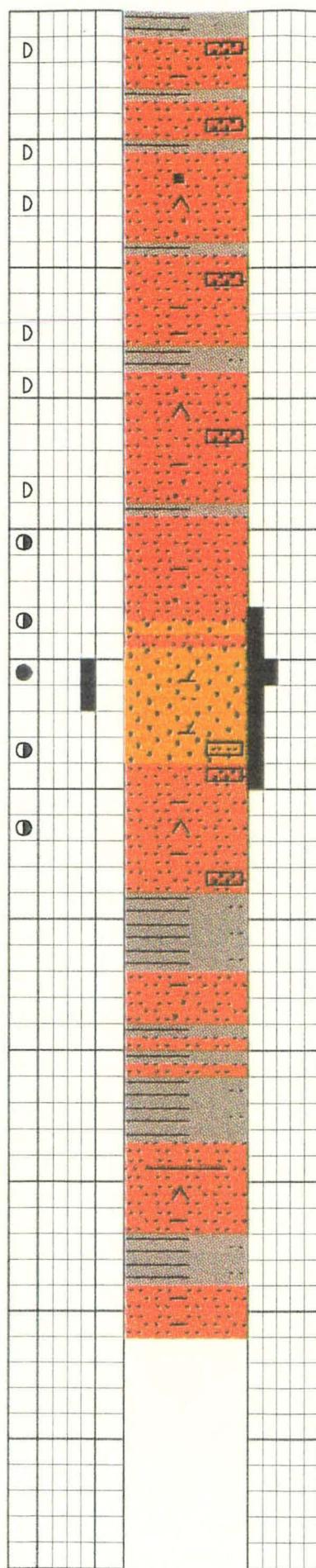


S-1.1°

600

S-1.1°

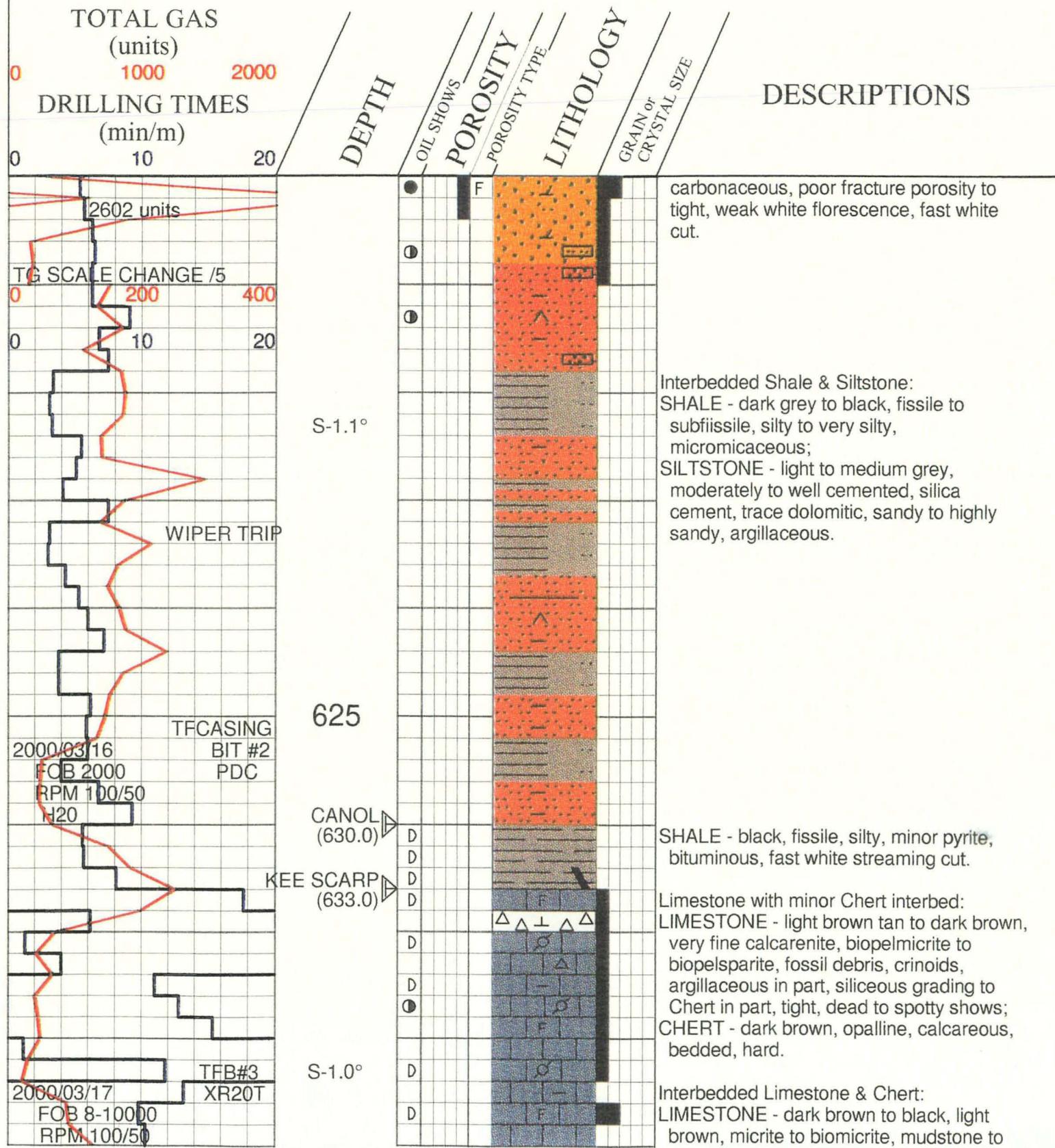
625

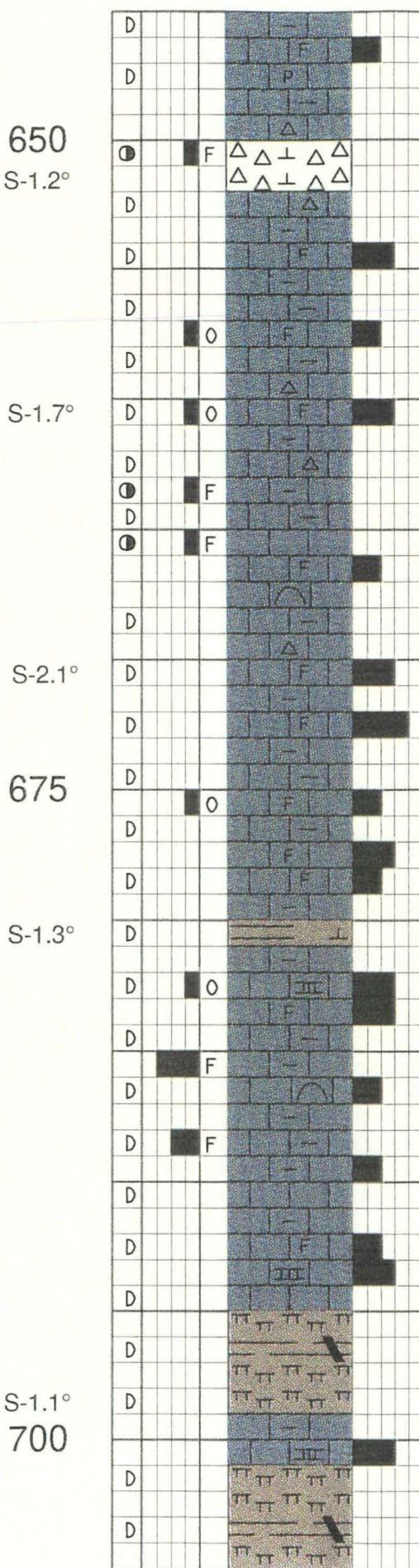
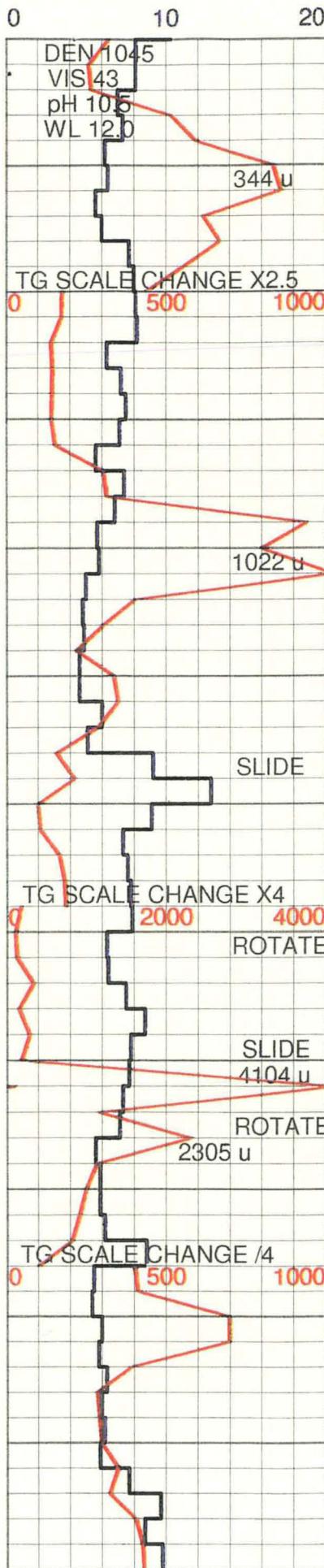


Siltstone with minor Shale interbeds:
SILTSTONE - light to medium brownish grey, moderately to well cemented, silica cement, sandy grading to Sandstone in part, argillaceous, slightly carbonaceous, tight, fast white cut;
SHALE - dark grey, subfissile to subblocky, silty to highly silty, micromicaceous.

Siltstone grading to Sandstone:
SILTSTONE - light to medium grey, moderately to well cemented, silica cement, trace dolomitic, sandy to highly sandy, argillaceous, moderate to fast white cut;
SANDSTONE - light grey, very fine to trace fine grained, subangular, well sorted, moderately to well cemented, dolomitic cement, argillaceous, slightly carbonaceous, poor fracture porosity to tight, weak white fluorescence, fast white cut.

Interbedded Shale & Siltstone:
SHALE - dark grey to black, fissile to subfissile, silty to very silty, micromicaceous;
SILTSTONE - light to medium grey, moderately to well cemented, silica cement, trace dolomitic, sandy to highly sandy, argillaceous;

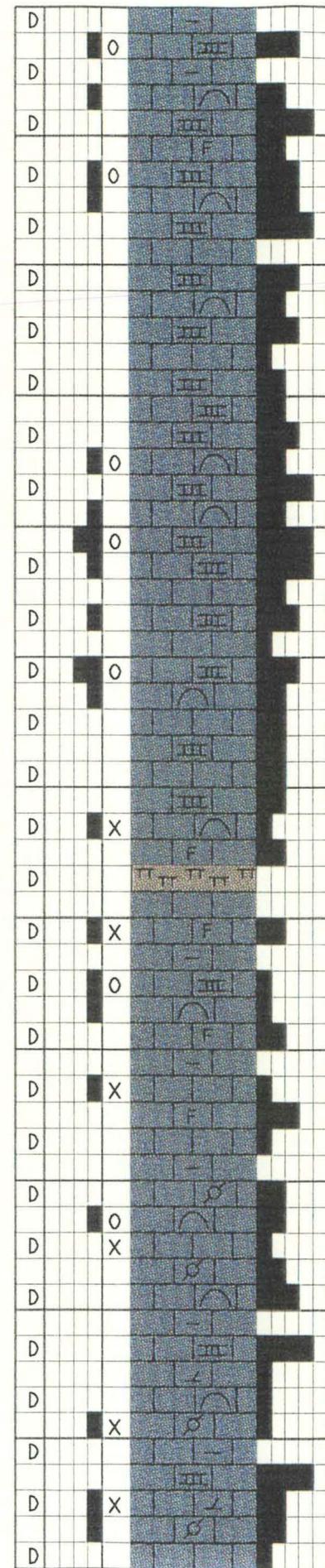
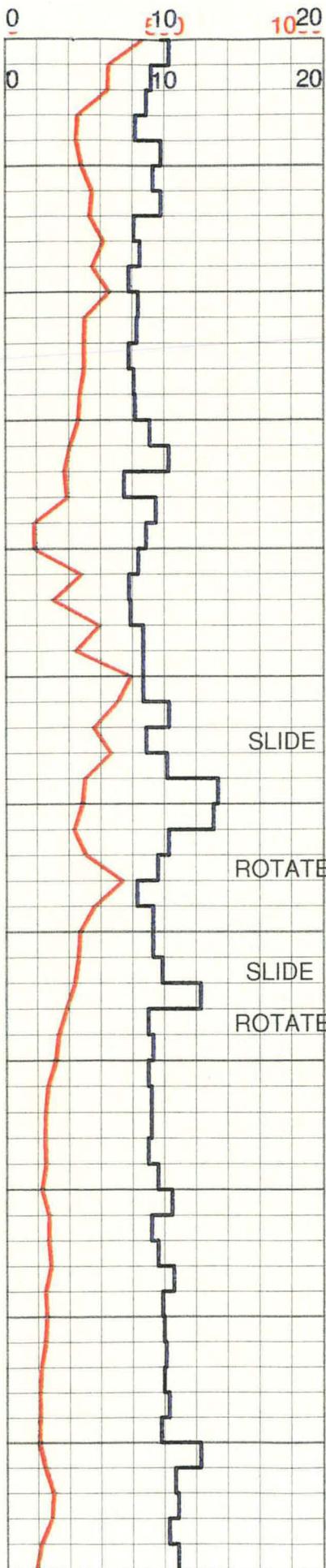




wackestone, argillaceous, resinous in part, dense, siliceous grading to Chert in part, trace pyrite, tight to trace fracture porosity, trace pyrobitumen, fast white cut;
CHERT - dark brown to black, opalline in part, calcareous, bedded, hard, fractured with euhedral calcite on rare faces, minor pyrobitumen on calcite crystals.
LIMESTONE - dark brown to black, light brown (allochems?), micrite to biomicrite, mudstone to wackestone to rudstone?, argillaceous to highly argillaceous, dense, minor pyrobitumen, bituminous, tight to minor fracture porosity, trace poor (3%) chalky porosity, spotty fluorescence on fracture faces, fast white cut;
Fine to medium euhedral calcite crystals on occasional chips.

LIMESTONE - dark brown to black, light brown (allochems?), micrite to biomicrite, mudstone to wackestone to rudstone?, argillaceous to highly argillaceous grading to Shale in part, dense, minor pyrobitumen, bituminous, tight to fair to good fracture porosity, trace poor (3%) chalky porosity, spotty fluorescence on fracture faces, fast white cut;
Common loose fine to very coarse euhedral calcite crystals.

Limestone grading to Marlstone to Shale:
LIMESTONE - dark brown to black, light brown (allochems?), micrite to biomicrite, mudstone to wackestone to rudstone?, argillaceous to highly argillaceous grading to Shale in part, dense, minor pyrobitumen, bituminous, tight to minor fracture porosity, spotty fluorescence on fracture faces, fast white cut;
MARLSTONE - black, highly argillaceous, highly calcareous, well indurated, bituminous;
SHALE - black to dark brown, fissile to subblocky, calcareous, bituminous, firm.



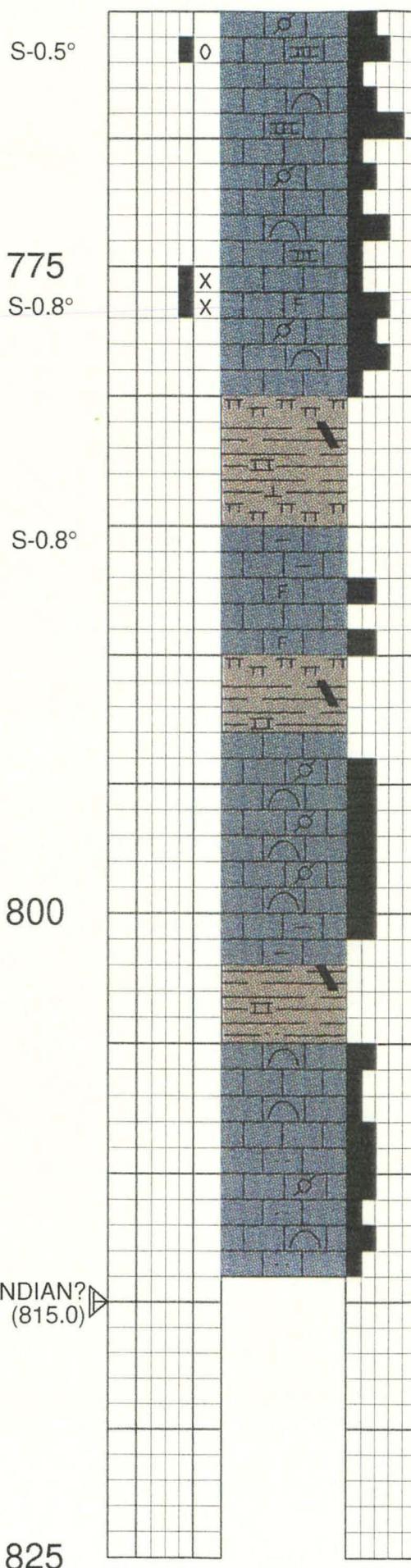
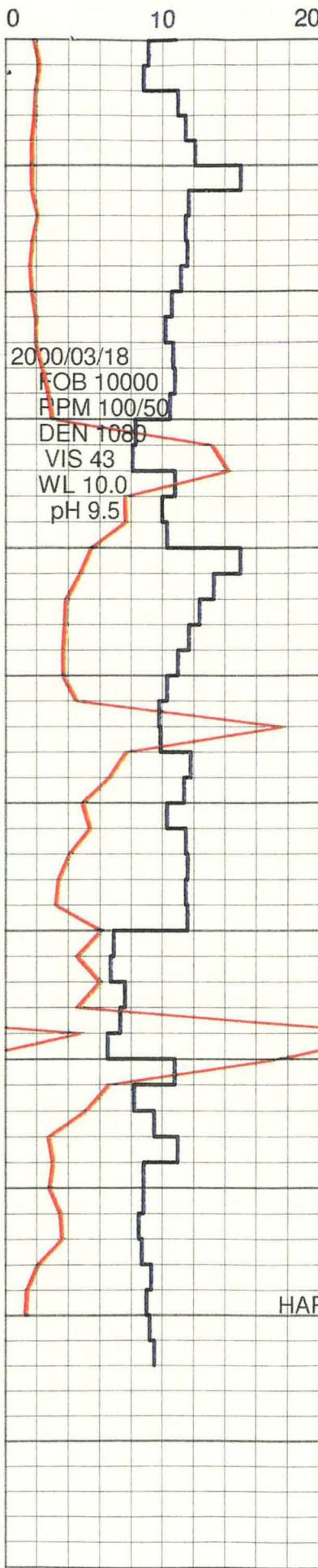
LIMESTONE - light to dark brown, micrite to biomicrite, wackestone to rudstone, stromatoporoids, fossil debris, argillaceous, bituminous, tight to poor (3%) chalky porosity, no florescence, fast white streaming cut.

LIMESTONE - light to dark grey brown, micrite to biomicrite, wackestone to rudstone, stromatoporoids, crinoids, fossil debris, argillaceous, bituminous, tight to poor to fair (3-6%) chalky porosity, no fluorescence, fast white streaming cut.

Limestone with minor Marlstone:
LIMESTONE - medium grey brown to dark brown, micrite to biomicrite, rudstone, stromatoporoids, fossil debris, argillaceous to highly argillaceous in part, bituminous, tight to minor poor 3% chalky porosity, poor to fast streaming white cut.

LIMESTONE - light to medium brown to dark brown, calcilutite to medium calcarenite, micrite to biopelmicrite, mudstone to wackestone to rudstone, stromatoporoids, fossil debris, slightly dolomitic, slightly argillaceous, slightly bituminous, tight to minor poor porosity, poor to fast streaming white cut.

LIMESTONE - light to medium brown to dark brown, calcilutite to medium calcarenite, micrite to biopelmicrite, mudstone to wackestone to rudstone, stromatoporoids, fossil debris, slightly dolomitic, slightly



argillaceous, slightly bituminous, tight to minor poor porosity, poor to fast streaming white cut.

ROCK TYPE

	CONGLOMERATE		ANHYDRITE		IGNEOUS, basic
	SANDSTONE		COAL		IGNEOUS, acidic
	SILTSTONE		CLAYSTONE, grey		CANNOT INTERPRET
	SHALE, grey		CLAYSTONE, col		NO SAMPLE
	SHALE, black		MARLSTONE, calc		CEMENT
	SHALE, coloured		MARLSTONE, dol		TUFF
	CHERT		SALT		ULTRABASIC
	LIMESTONE		SIDERITE, LIMONITE		
	DOLOMITE		BRECCIA		

ACCESSORIES

	SANDY		GLAUCONITIC		PLANT REMAINS
	SILTY		BENTONITIC		BRECCIA frag
	FELDSPAR		PYRITIC		SANDSTONE strg
	SILICEOUS		KAOLINITIC		SILTSTONE strg
	CHERTY, light		BIOCLASTIC		SHALE lam
	CHERTY, dark		OOLITES		TUFFACEOUS
	ARGILLACEOUS		PELLETS		Heavy, dark Minerals
	CARBONACEOUS		INTRACLASTS		FORAMINIFERA/Rad
	BITUMINOUS		FOSSILS		ANTIGORITE
	CALCAREOUS		CRINOID		BRUCITE
	LIMESTONE strg		PELECYPOD		BRONZITE
	DOLOMATIC		BRACHIOPOD		CHROMITE
	DOLOMITE strg		OSTRACOD		CHRYSOTILE
	ANHYDRITIC		CORAL		DUNITE
	ANHYDRITE strg		STROMATOPOROID		TALC
	PHOSPHATE pel		AMPHIPORA		SERPENTINE
	FERRUGINOUS		FISH REMAINS		

OIL SHOWS

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

POROSITY TYPES

- X INTERCRYSTALLINE, INTERGRANULAR
- ◊ INTEROLITIC, INTEPELLETOID,
- V VUGGY,
- P PINPOINT,
- ✓ MOLDIC
- ◊ ORGANIC
- F FRACTURE
- ⊖ EARTHY
- FENESTRAL

DUNHAM CLASSES

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