

**compu-max**

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CALGARY, Alberta  
T3J 2W2 (403) 280-5857

**COMPOSITE WELL HISTORY**  
**DRILLING TIME**  
**LITHOLOGY LOG**

COMPANY: AEC OIL &amp; GAS LTD

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

WELL TYPE: EXPLORATORY

SPUD DATE: 2000-03-14

LICENCE No.: 1890

LOG MEASURED FROM KB

4.3 m ABOVE GROUND

TOTAL DEPTH:

T.D. DATE:

AFE No.: 5000047

CONTRACTOR: AKITA #14

MUD TYPE: GEL CHEM

MUD UP @:

SAMPLES: 5 &amp; 2.5 METER INTERVALS

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

GOVT: 172m TO T.D.m

DSTs:

CORES: NONE

OPEN HOLE LOGS: SCHLUMBERGER

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

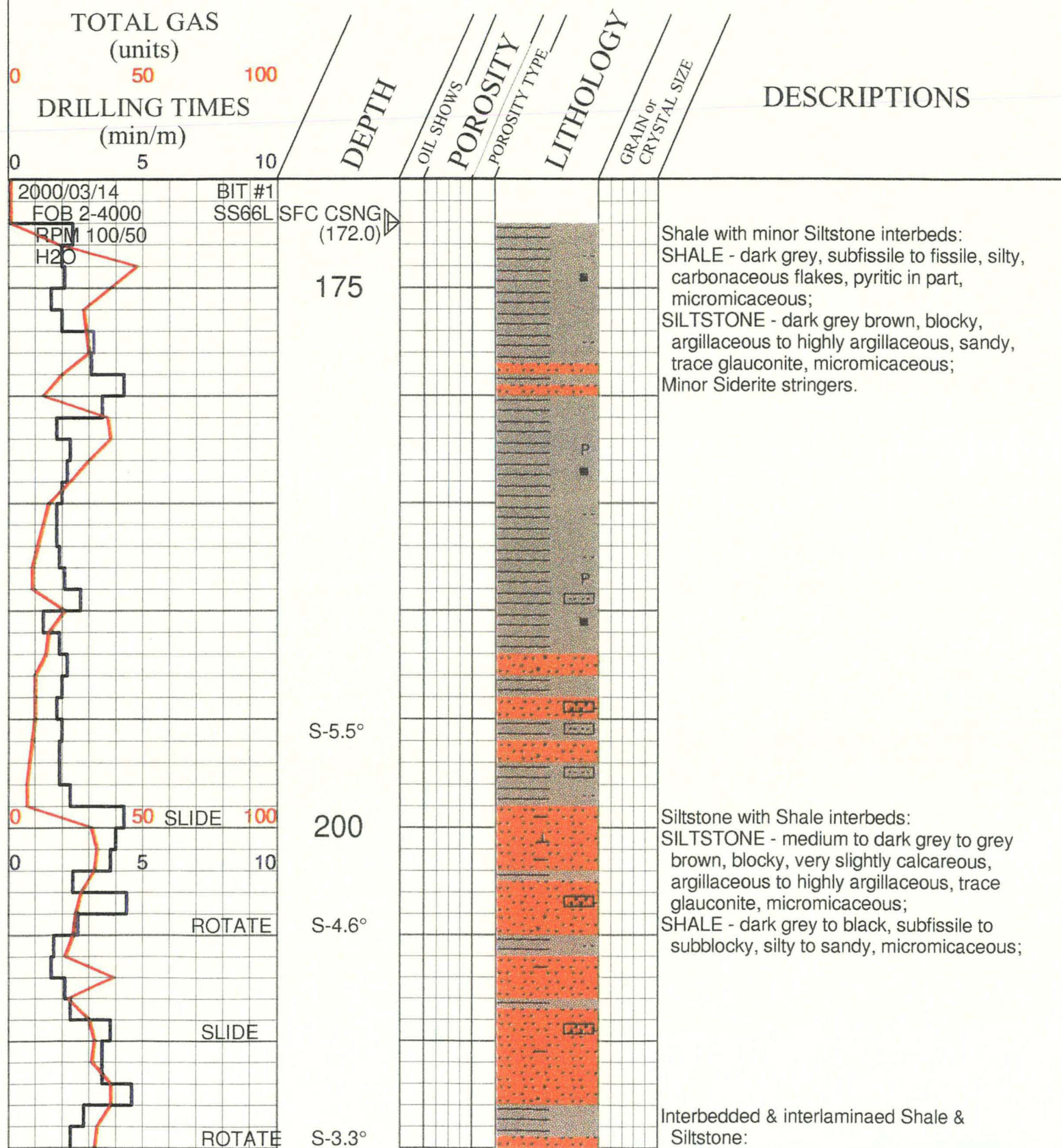
HOLE SIZE

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

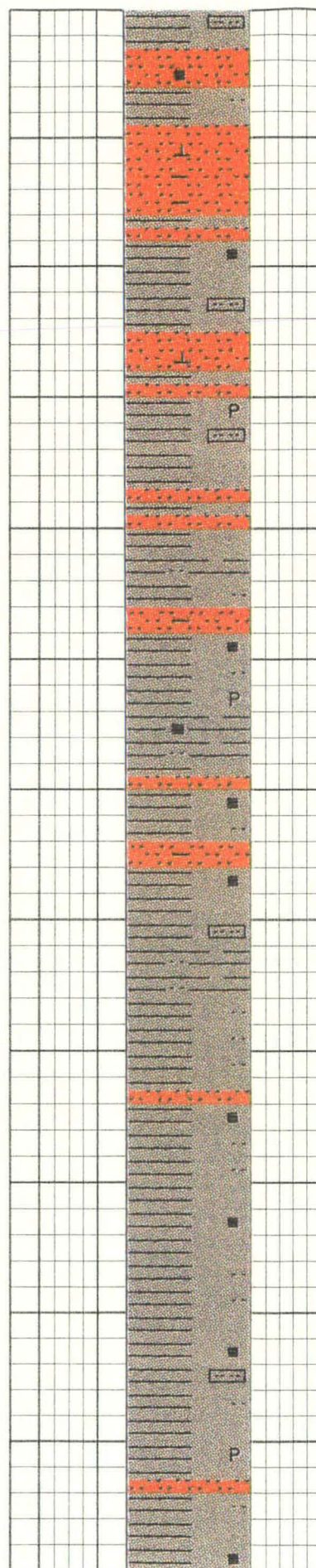
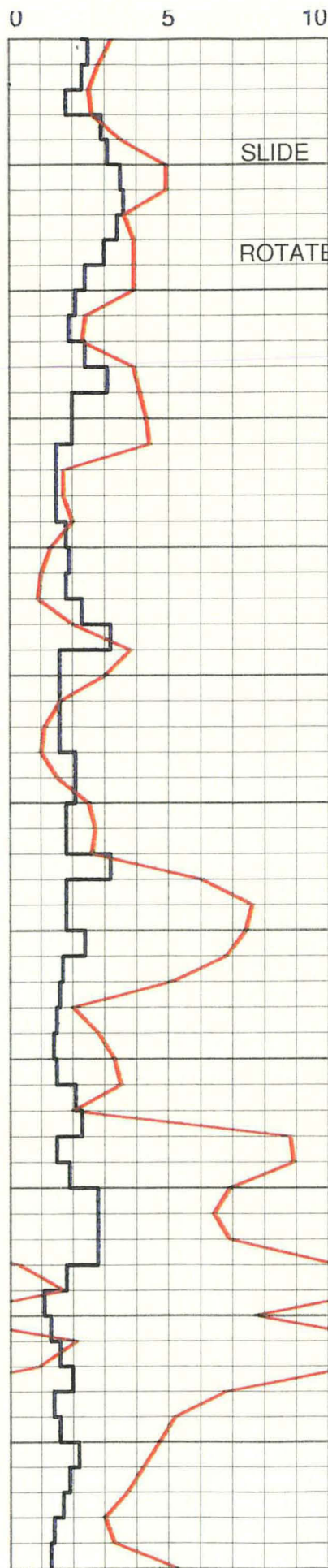
REMARKS:

## CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240







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;

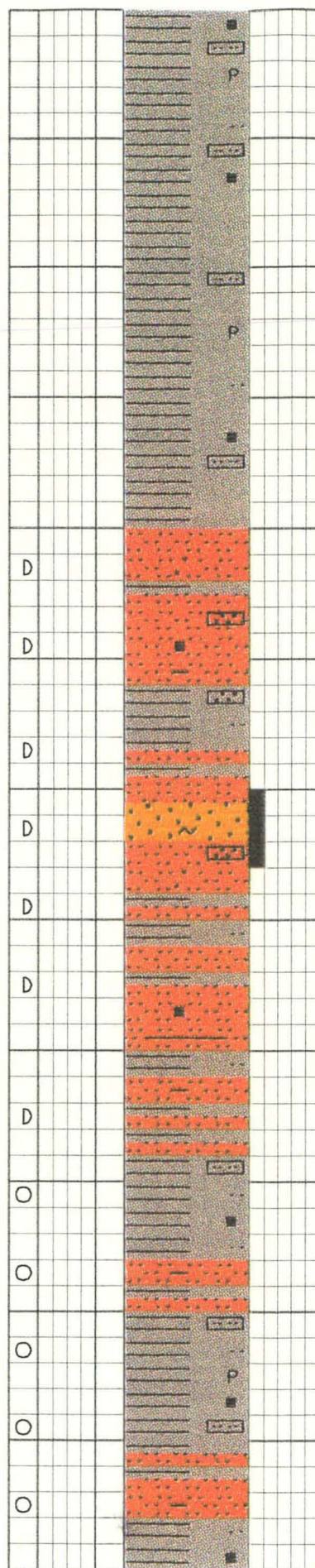
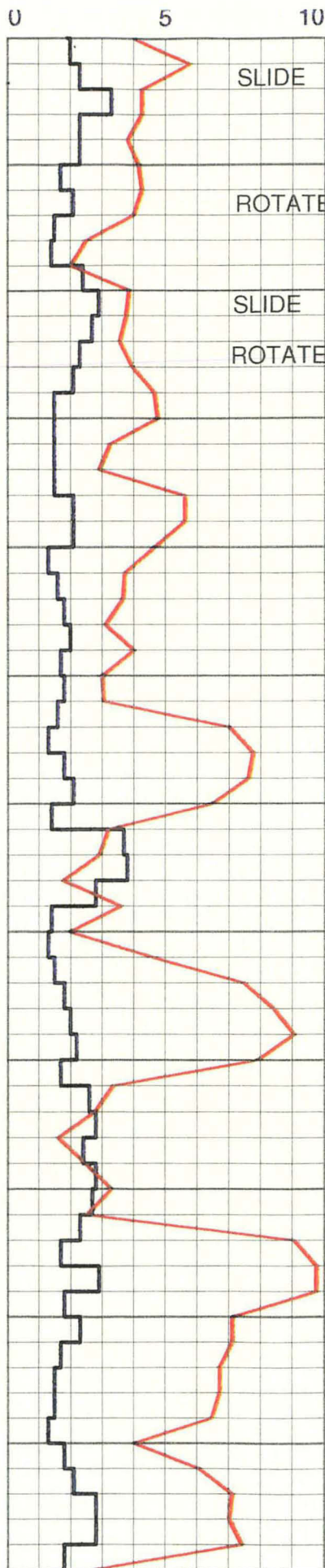
Shale with minor Siltstone interbeds:

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







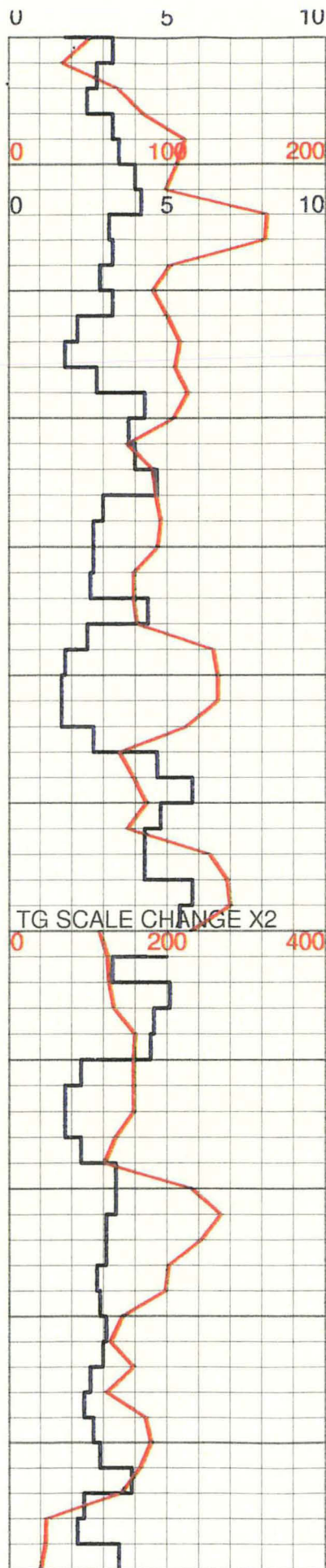


subfissile, platy to splintery in part, carbonaceous, silty to sandy, trace glauconite, micromicaceous, disseminated pyrite; Minor Siderite interbeds.

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.





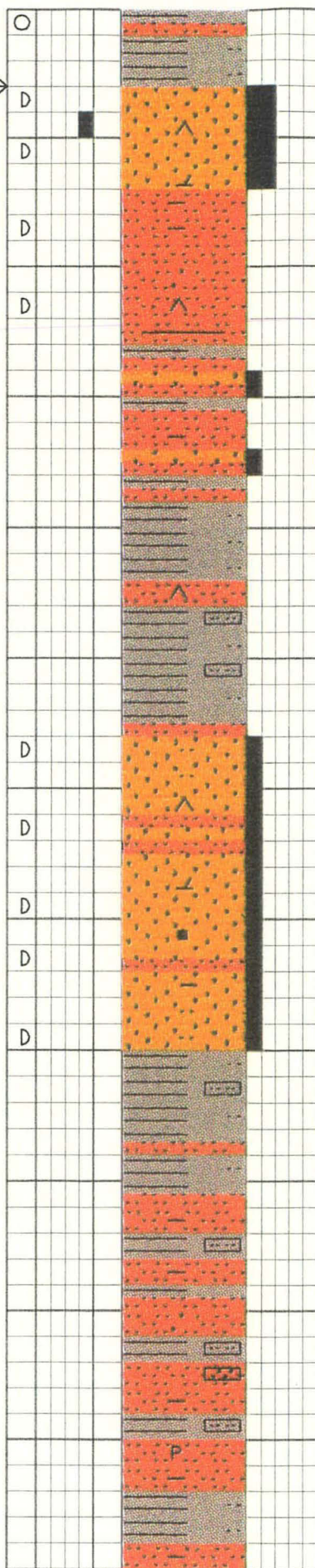
IMPERIAL  
(398.0) 400

S-1.5°

425

S-1.8°

450



SANDSTONE - lt 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 - 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.

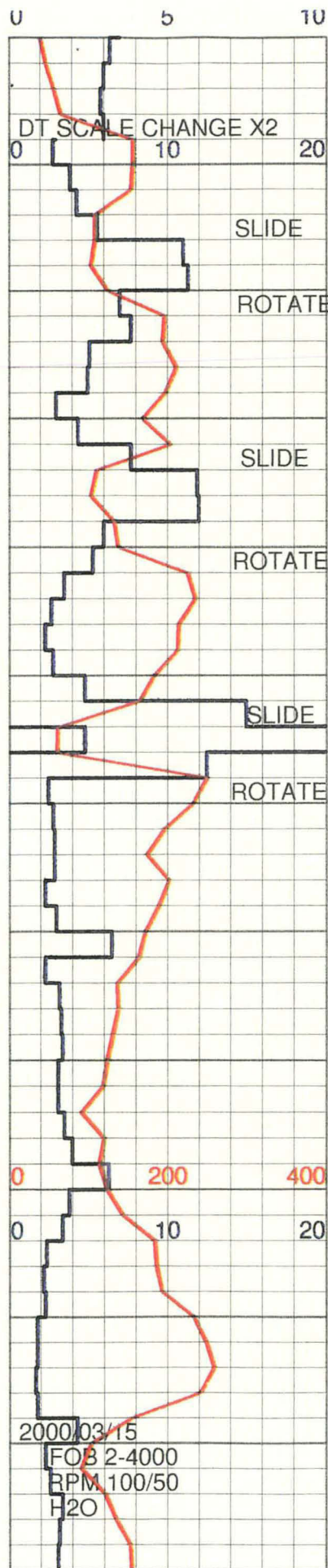
SANDSTONE - grey brown, very fine, subangular, well sorted, well cemented, silica cement, slightly dolomitic, silty, slightly carbonaceous, tight, fast white cut.

Interbedded Siltstone & Shale:

SILTSTONE - grey to grey brown, siliceous, sandy grading to very fine Sandstone in part, argillaceous;

SHALE - dark grey, fissile, silty, micromicaceous, trace carbonaceous.





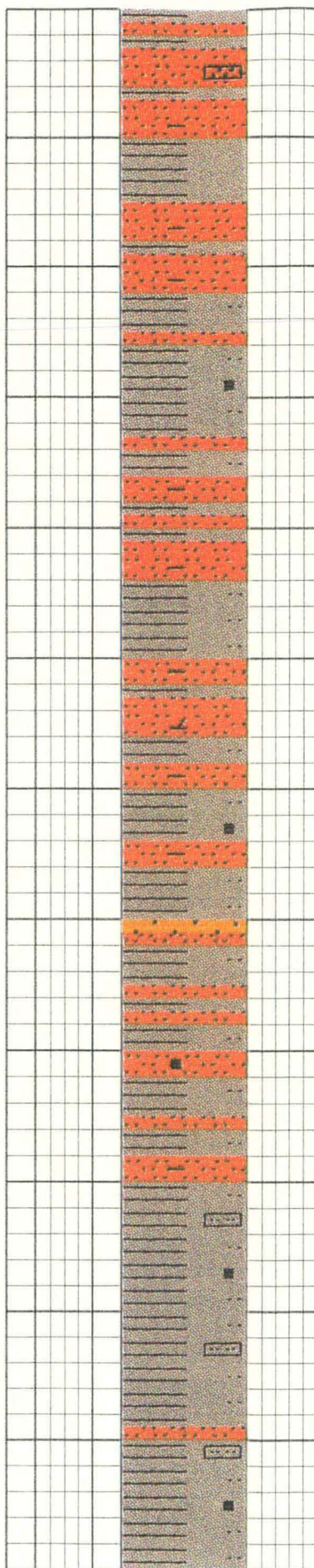
S-2.0°

S-1.7°

475  
S-1.4°

500

S-2.2°



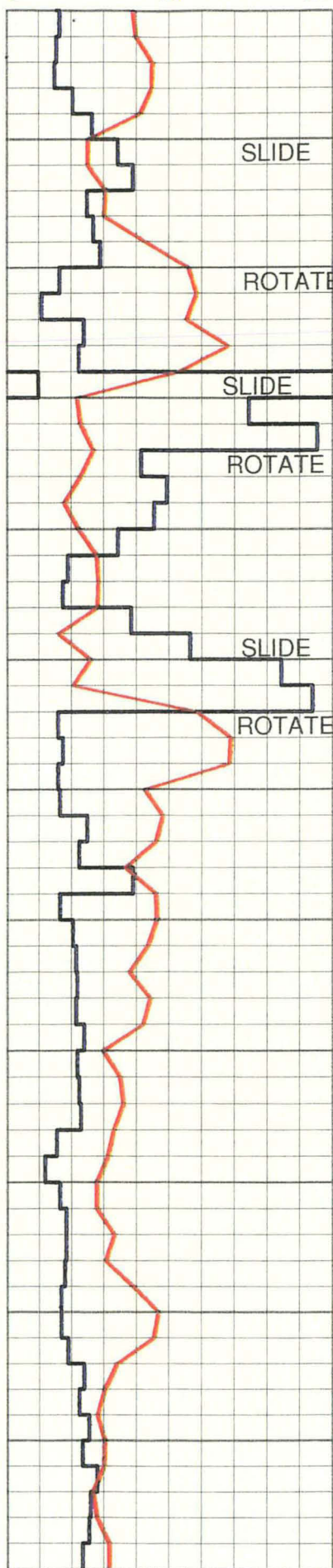
Shale with Siltstone interbeds:  
SHALE - dark grey, fissile to subfissile, blocky, silty, micromicaceous, trace carbonaceous;  
SILTSTONE - grey to grey brown, siliceous, sandy grading to very fine Sandstone in part, argillaceous.

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.



0 10 20



SLIDE

ROTATE

SLIDE

ROTATE

SLIDE

ROTATE

S-2.1°  
525

S-1.8°

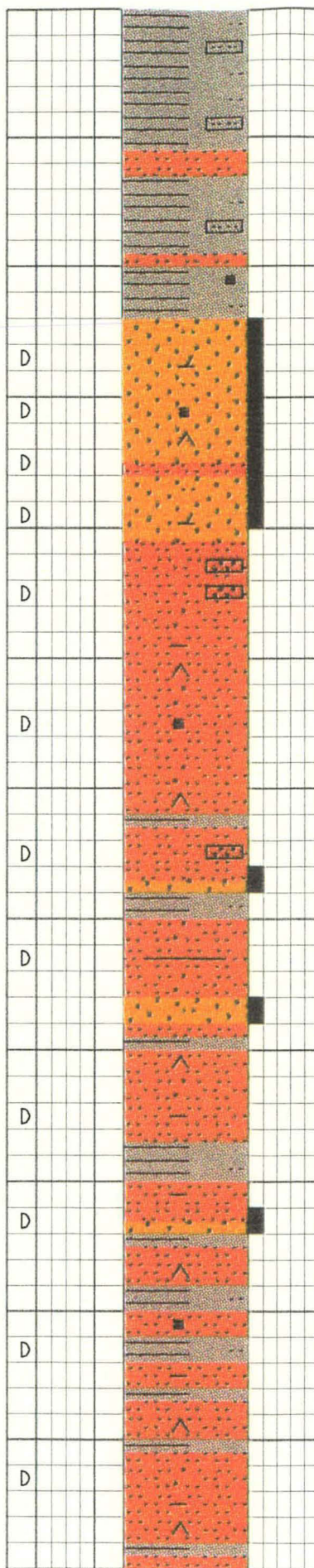
S-1.7°

550

S-1.4°

S-1.3°

575



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.

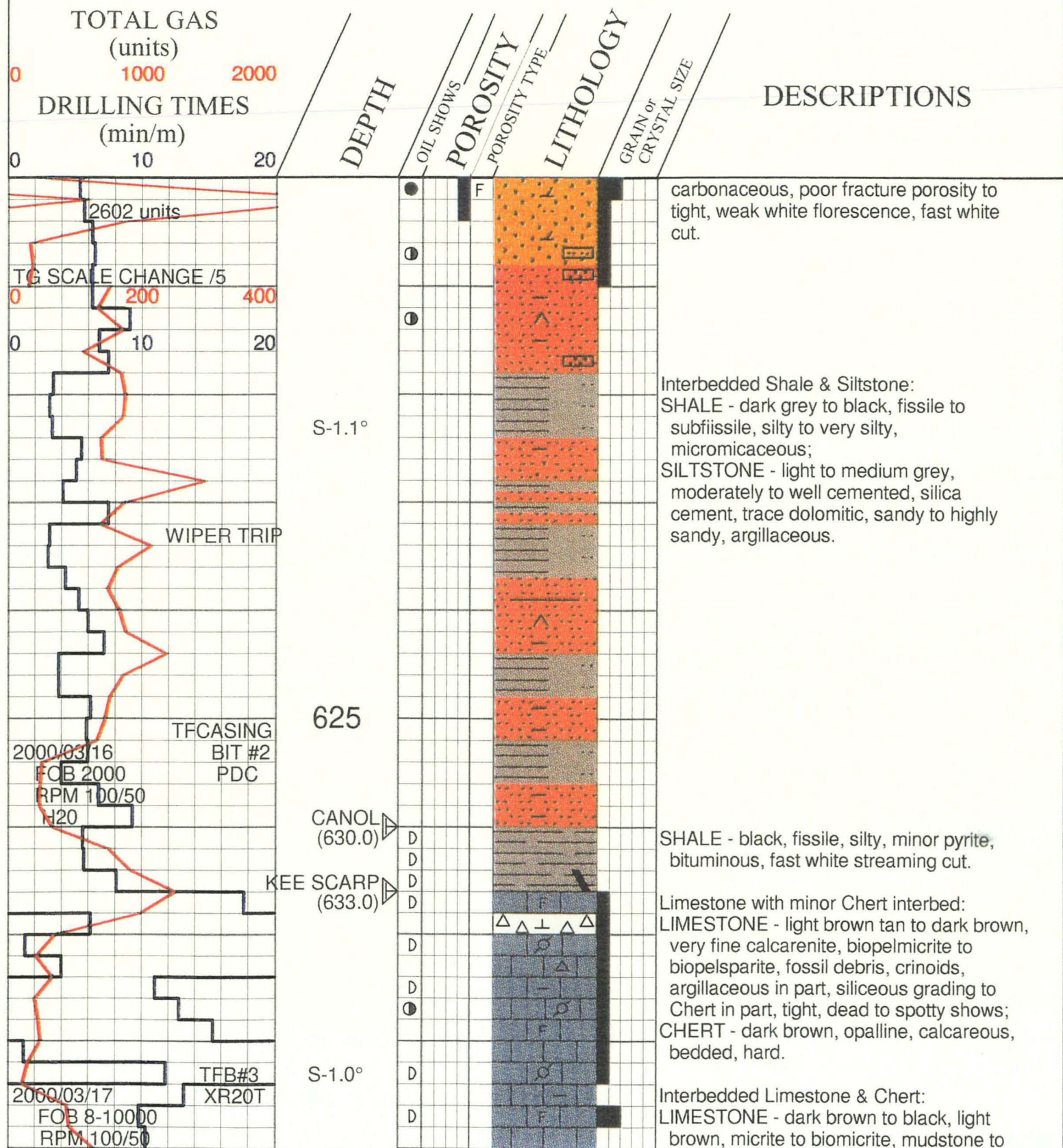
SILTSTONE - light to medium brownish grey, moderately to well cemented, silica cement, sandy grading to Sandstone in part, argillaceous, slightly carbonaceous, tight, fast white cut.

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 florescence, fast white cut;  
SHALE - dark grey, subfissile to subblocky, silty to highly silty, micromicaceous.



















0 10 20

2000/03/18  
 FOB 10000  
 RPM 100/50  
 DEN 1089  
 VIS 43  
 WL 10.0  
 pH 9.5

S-0.5°

775

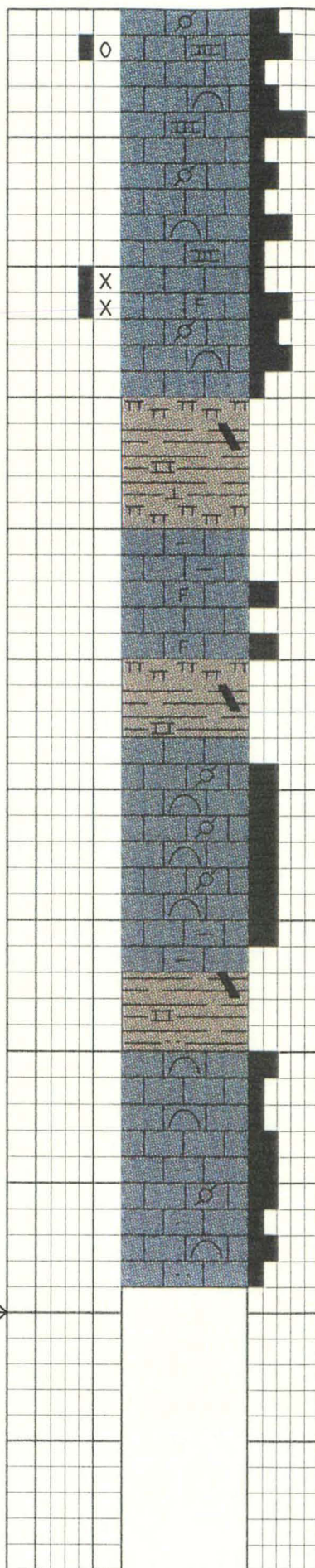
S-0.8°

S-0.8°

800

HARE INDIAN? (815.0)

825



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

Interbedded Shale & Limestone:  
 SHALE - dark grey to black, blocky to subfissile, highly calcareous to Marlstone, firm, bituminous;  
 LIMESTONE - medium to dark brown, calcilutite to fine calcarenite, micrite to biomicrite, mudstone to wackestone, minor fossil debris, slightly bituminous, tight, fast white cut.

Limestone with Shale interbeds:  
 LIMESTONE - light to medium brown, calcarenite, biopelmicrite, wackestone to packstone, fossil debris, slightly dolomitic, silty in part, slightly argillaceous, tight, white cut;  
 SHALE - dark grey to black, blocky, silty, highly calcareous, bituminous.



## 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
	BITUMENOUS		FOSSILS		ANTIGORITE
	CALCAREOUS		CRINOID		BRUCITE
	LIMESTONE strg		PELECYPOD		BRONZITE
	DOLOMITIC		BRACHIOPOD		CHROMITE
	DOLOMITE strg		OSTRACOD		CHRYSTILE
	ANHYDRITIC		CORAL		DUNITE
	ANHYDRITE strg		STROMATOPOROID		TALC
	PHOSPHATE pel		AMPHIPORA		SERPENTINE
	FERRUGINOUS		FISH REMAINS		

## OIL SHOWS

- EVEN STAINING, FLUORESCES
- ① SPOTTY STAIN, FLUORESCES
- QUESTIONABLE, NO FLUORESCENCE,
- D 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