SHELL OIL CO.
FORMATION & HYDROCARBON LOGGING RECORD

46.15° Lat
124.41° Long

COMPANY SHELL OIL COMPANY
WELL [illegible] FIELD WILDCAT
COUNTY [illegible] AREA (OFF-SHORE) STATE OREGON
ELEV.
LOCATION [illegible] FNL & [illegible]1700' FEL OF BLK 50N-63W, OREGON MAP #1

LOGGING ENGINEERS [illegible] WILLIAMS, AL GRITSEFF
TYPE UNIT [illegible]-4

LEGEND

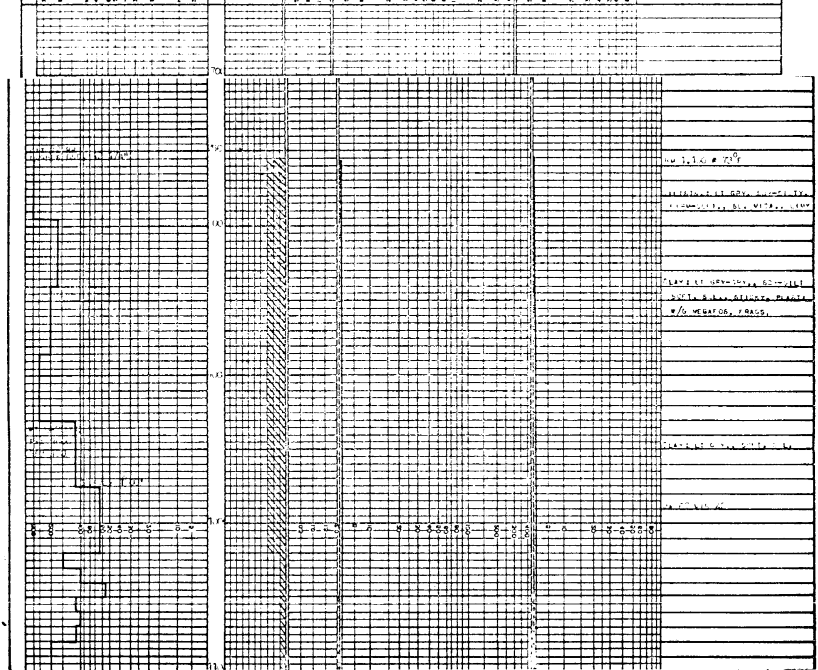
ABBREVIATIONS

NB	NEW BIT	W	WEIGHT OF MUD
NCB	NEW CORE BIT	CK	FILTER CAKE
CO	CIRCULATED OUT	V	VISCOSITY, API SECONDS
DST	DRILL STEM TEST	F	FILTRATE, API cc's
LAT	LOGGED AFTER TRIP	S	SALINITY, ppmCl
TG	TRIP GAS		RESISTIVITY, OHM-METER
CG	CONNECTION GAS	Rm	MUD
PR	POOR RETURNS	Rmc	MUD CAKE
NR	NO RETURNS	Rmf	MUD FILTRATE

LITHOLOGY

SHALE, CLAY	☐	LIMESTONE	⊞
SILTY SHALE	⊟	DOLOMITE	☒
SILTSTONE	⧄	GYPSUM or ANHYDRITE	⊡
SDY SILTST	⧄	SALT	⊠
SAND	⊡	COAL	■
CHERT	⊡	GRANITE	⊞
CONGLOMERATE	⊙	VOLCANICS	⊞
	☐		☐

BIT DATA	DRILLING RATE	DEPTH	LITH.	OIL AND GAS ANALYSIS			REMARKS
	FT/HR		100 —— 0 SAND % CURVE	OIL + + + TRACE 1-5 FAIR 5-10 SHOW 10-15 GOOD SHOW 15-20	MUD GAS DITCH TOT. —— DITCH PET. VAP. ·······	CUTTINGS GAS UNWASHED TOT —— UNWASHED PET. VAP. ····· SOLVENT CUT ⊤⊤⊤	DESCRIPTIONS TEST RESULTS MUD DATA SURVEYS



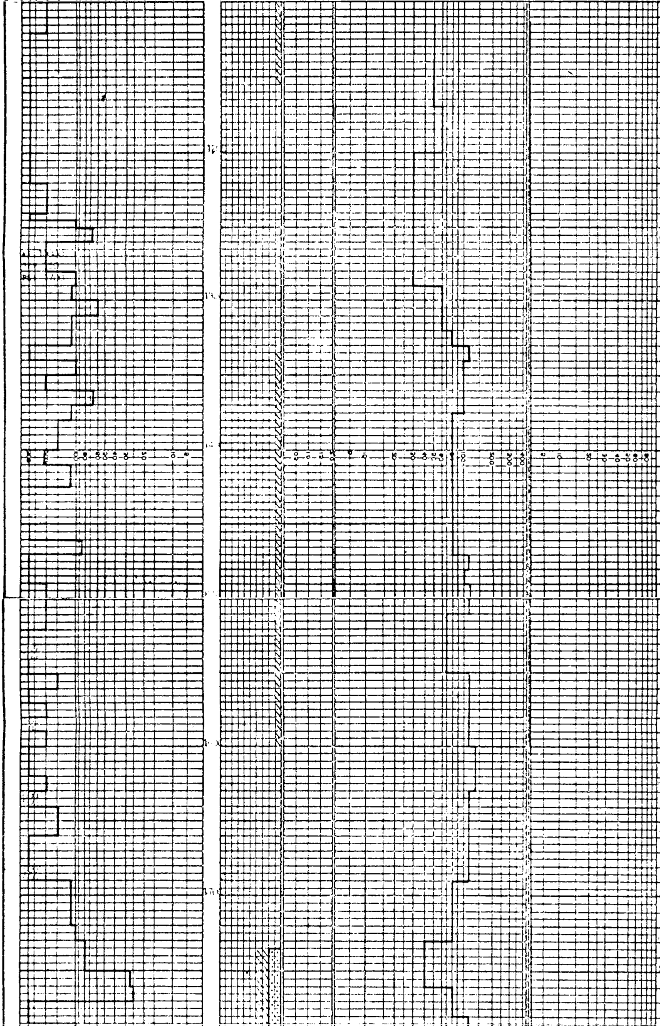
RM 1.10 @ 73°F

[illegible]: LT GRY, [illegible]-SILTY, FIRM-SOFT., SL. MICA., [illegible]

CLAY: LT GRY-GRY., SOFT-SILT, SOFT, S.L., STICKY, PLASTIC W/G MEGAFOS. FRAGS.

CLAY: LT G[illegible]Y., SOFT, S.L.

[illegible]



CLAY: GRY, SOFT, SOL.,
STICKY IN PT., SDY-SILTY.

AB NO. SHELL FRAGS.

TRC. CARB. MATTER

C.3. 140 UNITS

ABUND. SHELL FRAGS & COAL

ST., TRC. COAL

CLAY: GY-LT GRY., SOFT,
SOL., SL. BENT., SL. PLASTIC.

CLAY A/A BECOMING SILTIER.

CLAY: LT GRY-GRY, SOFT, SOL
SL. BENT., SDY-SILTY, LIMY

C.3. 340 UNITS

WT 72 VIS 45-47 W.L. 9.0
FC 1/32 PH 10.5 SD 1/4%

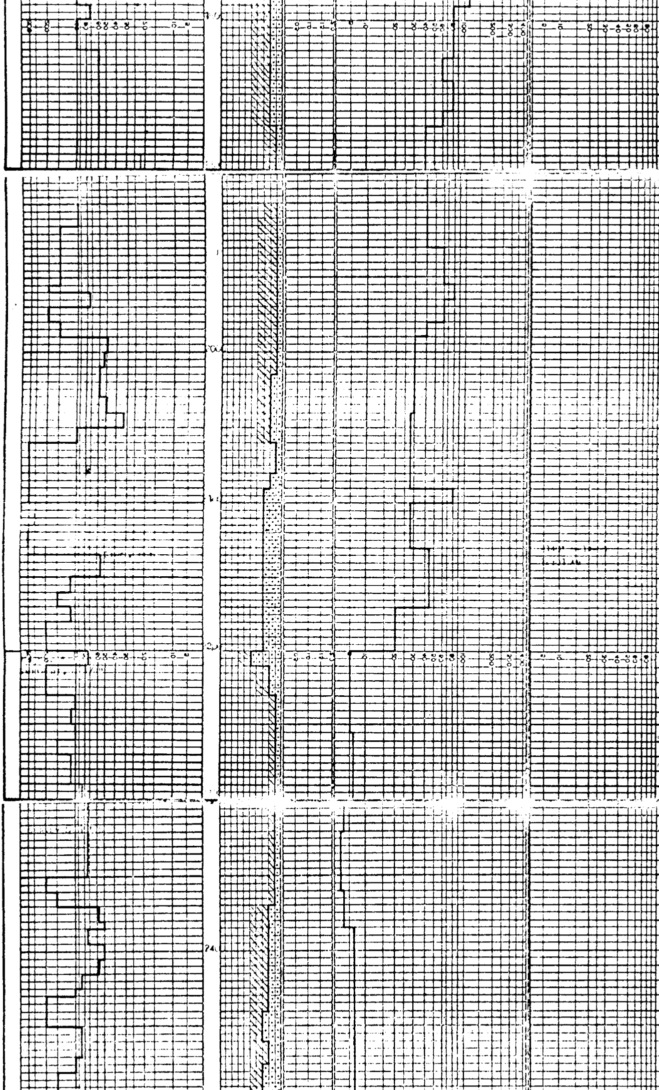
CLAY: LT GRY-GRY., SDY-SILTY
SOL., SOFT, SL. BENT., CARB

TR. TRC CARB. MATTER &
GLAUCONITIC MATERIAL.

RW 1.250 @ 74°F

SD.: CLR., V.FN-FN., ANG.,
LOOSE, GLAUCONITIC, QTZ.

TRC. SHELL FRAGS. & CARB.



MATERIAL.

TRC GLAUCONITIC MATTER &
CARBONACEOUS MATTER.

CLAY: GRY-LT GRY, SDY-SILTY
SOL., SOFT, STICKY, BENT.

SILTSTN.: GRY-LT GRY, SDY-
SILTY, FIRM, MICRO-MICA.

SD.: PRED. CLR w/[illegible]
[illegible]-FN, LOOSE QTZ w/STR.
TRC GRN-DK GRN GLAUCONITIC
GRAINS.

Rm 1.[illegible] @ [illegible]°F

ABUND. SHELL FRAGS.

V. SDY CLAYS, GRNISH GRY.

LITH CHANGE:
CLAY: LT GRY-GRY GRN, V.SDY
-SILTY, SOFT, SOL., STICKY

SD.: CLR-[illegible] GRY,
V.FN-FN., ANG., LOOSE QTZ.

C.G. 100 UNITS

Rm 1.400 @ 74°F

MUD TEMP. [illegible]°F

WT 75 VIS 49 WL [illegible] FC 1/32

PH 10.5

ABUND. SHELL FRAGS.

WT 90 VIS 50

RM 0.700 @ 34°F

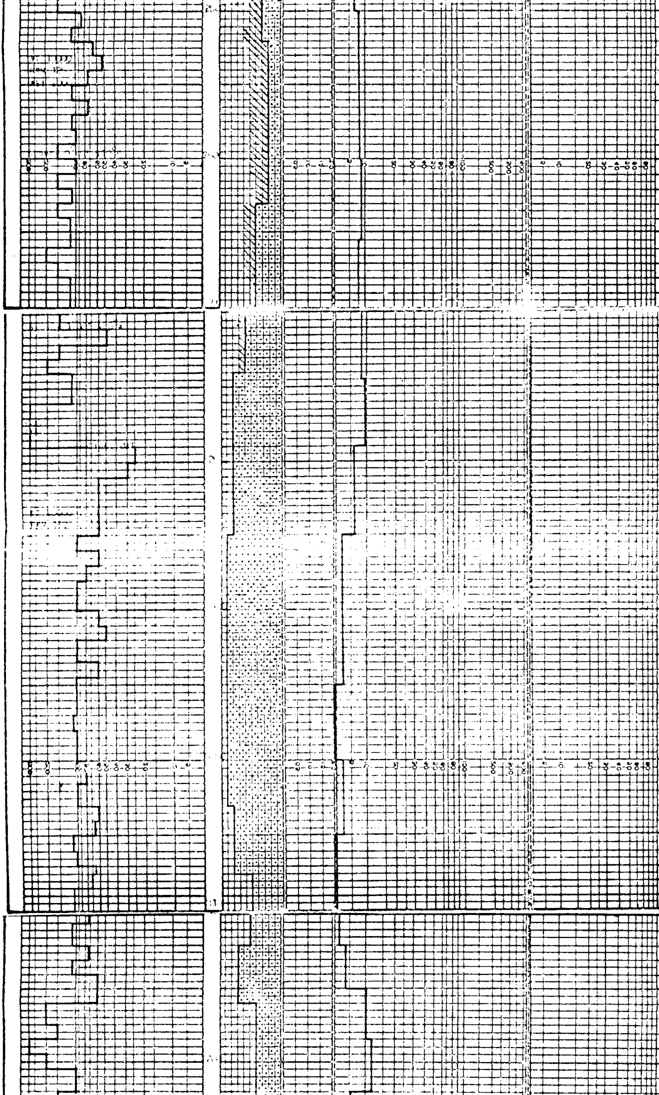
SD.: GRY, V.FN-FN., WELL
SORTED, CLAYEY, QTZ

CLAY: GRY-MED GRY, SDY-SILTY
SOFT, SOL w/TRC GLAUCONITE

CLAY: GRY-GRNISH GRY, V.FN-
FN., V.SDY-SILTY, SOFT-SOL.

SD.: CLR-GRNISH GRY, WELL
SORTED, V.CLAYEY QTZ,
LOOSE, ANG.

SILTSTN.: GRNISH GRY,
FIRM-[illegible], LIMY, MICRO-
MICA.



CLAYS: A/A., V. GRITTY

Rm 0.70 @ 80°F

MW 10 VIS 57 WL 7.5 FC 1/32
pH 10.5 SD [illegible]

NOTE: ABUND. SILT & V.FN SD
IN CLAY

TRC. MEGAFOS FRAGS

SD.: PRED. CLR W/S MULTI-
COL., V.FN-FN., ANG, WELL
SORTED, V.CLAYEY-SILTY QTZ.
LOOSE.

CLAY: GRY-GRNISH GRY, V.SDY,
SOL, SOFT.

SD.: CLR-SL, MULTI-COL, ANG,
WELL SORTED, LOOSE DIRTY
QTZ., SL. GLAUCONITIC.

Rm [illegible] @ [illegible]°F

SD.: LT GRY, V.FN-FN., SUB-
[illegible] BANG., [illegible] WELL
[illegible], [illegible] WELL SORTED,
[illegible] PATCHES, QTZ.

SD. A/A, SL. CLY.

MW [illegible] VIS [illegible] WL [illegible] FC 1/32
[illegible] pH 11

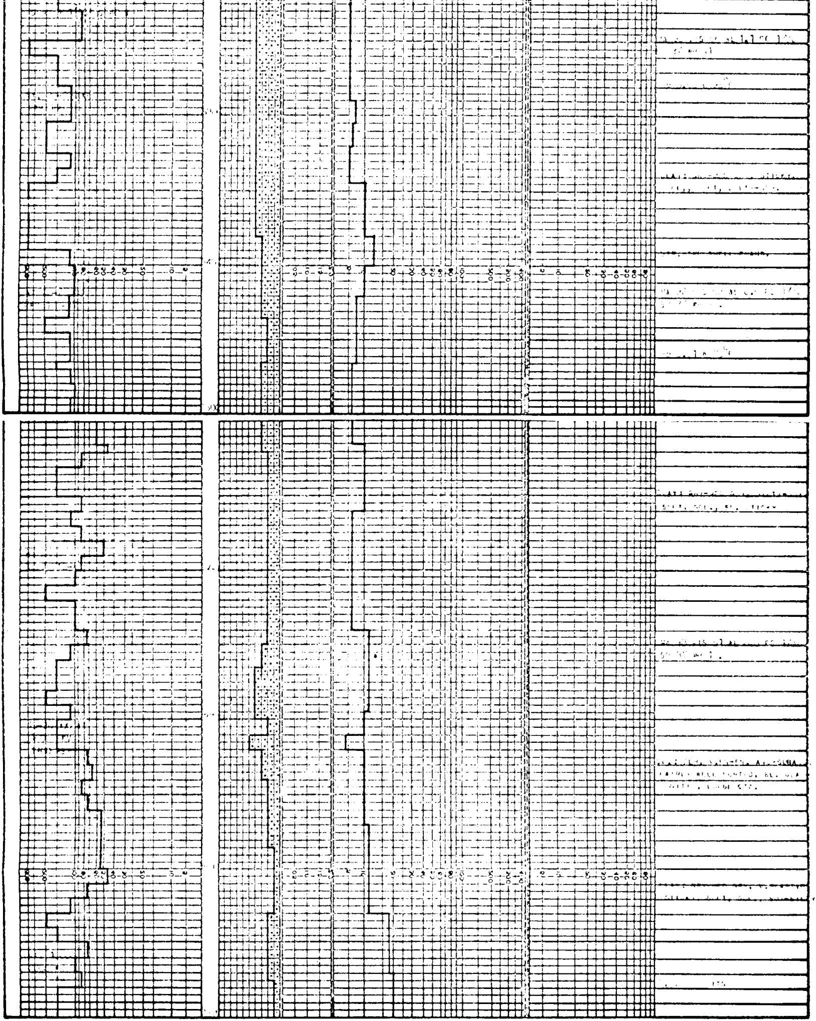
Rm [illegible] @ [illegible]°F

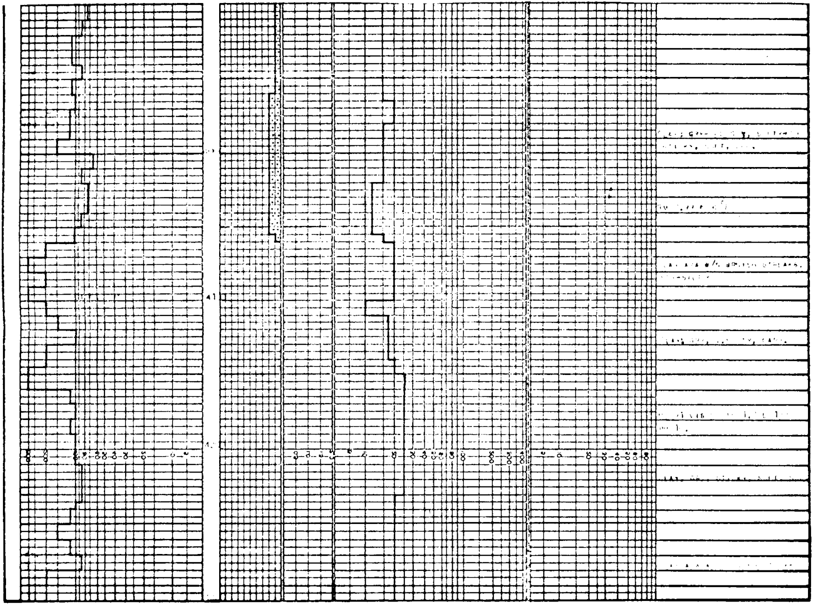
SD.: LT GRY, V.FN-FN, SUBROUND-
SUBANG., MOD. WELL SORTED,
RT, CEM., QTZ

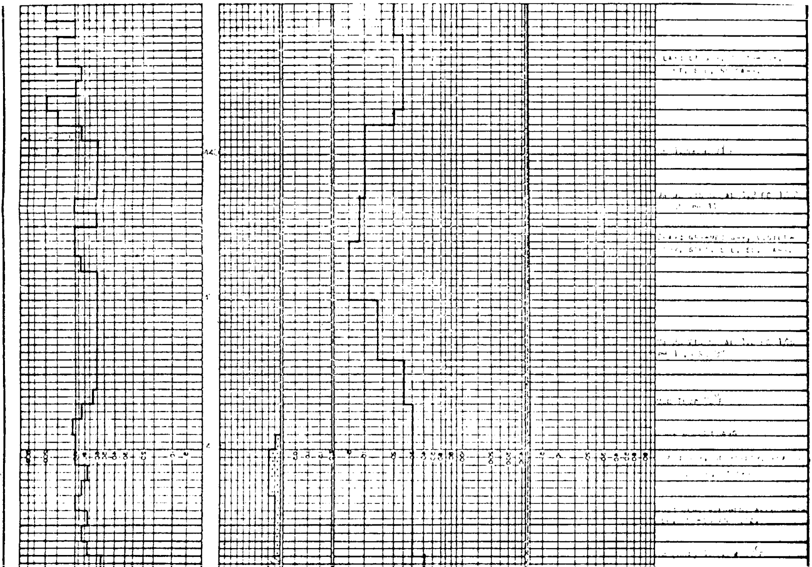
Rm [illegible] @ [illegible]°F.

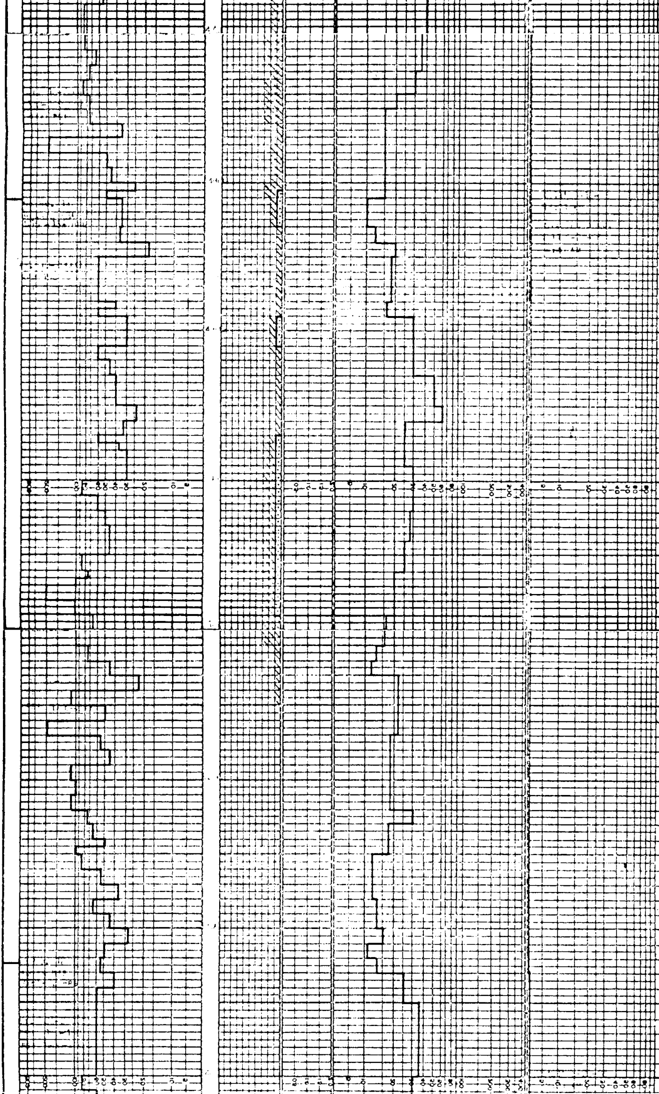
CLAY: GRY, STICKY, SOFT, S

SD.: [illegible], V.FN-FN, [illegible]-
BANG., [illegible] WELL [illegible],
[illegible] CEM., CLAYEY QTZ.







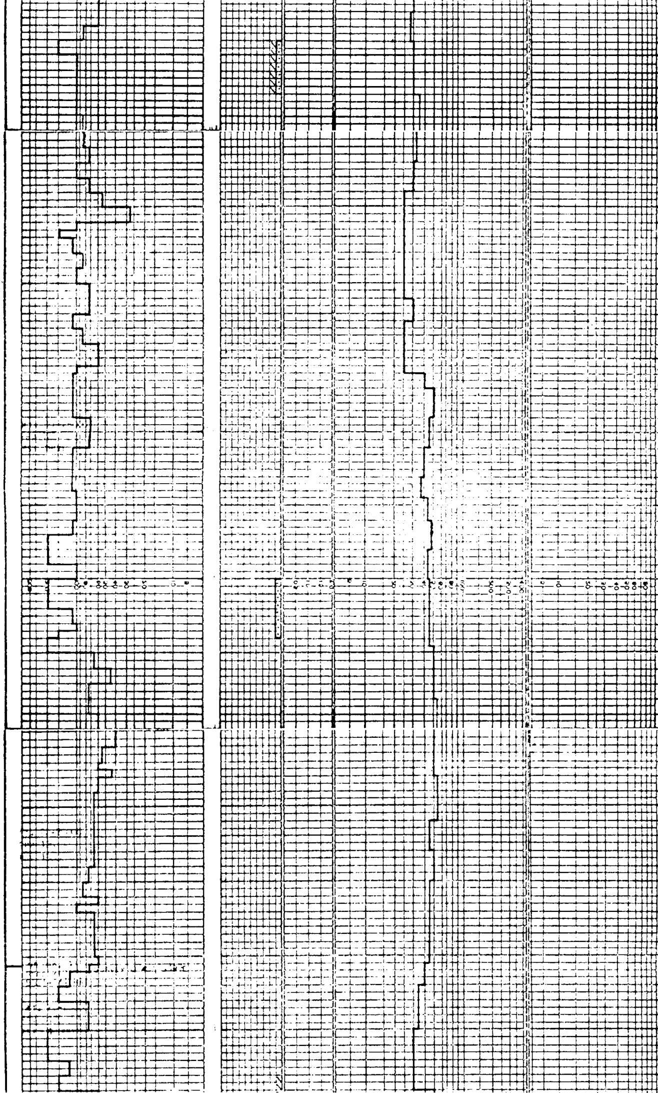


[illegible]

MICA.

[illegible]

CLAY; MED GRAY, [illegible]



[illegible] UNITS

[illegible] GRAY-LT GRY, SOFT,
STICKY, SPONGY, CARB[illegible]

[illegible]

NOTE: [illegible] FINE A [illegible]

[illegible]

[illegible], PLASTIC, STICKY

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

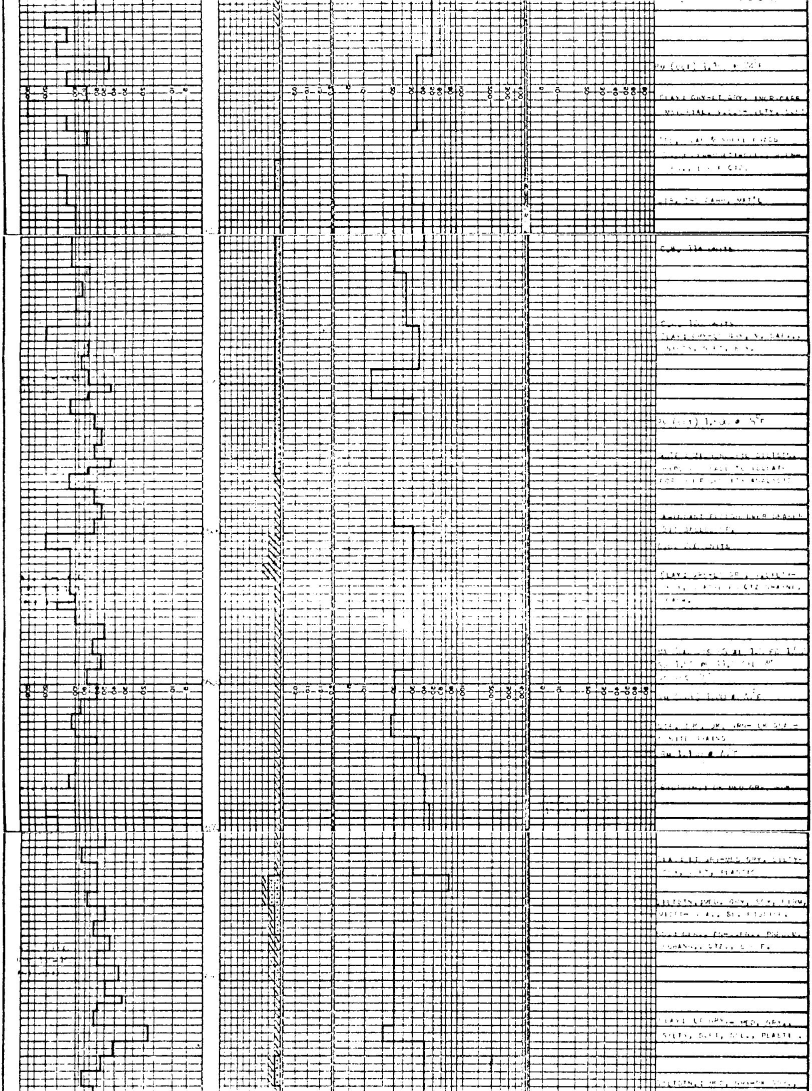
[illegible]

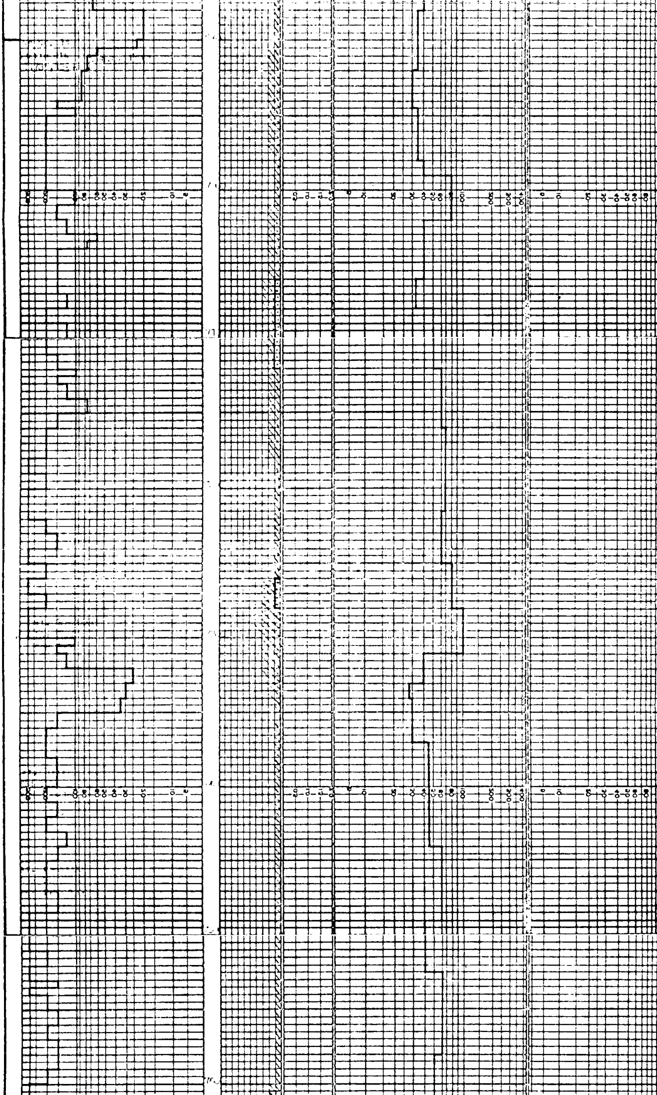
[illegible], PLASTIC

[illegible]

[illegible]

NOTE: [illegible] SECTIONS,
[illegible] TO [illegible] TO ISOLATE





[illegible] FIRM,

MW (CUT) 1.12 @ 74 F

[illegible]

T.G. 14 UNITS

SILTSTN.: MED. DK. GRY., [illegible]
MICROMICA., FIRM, LIMY,
[illegible]
[illegible]

CLAY: GRY-MED. DK. GRY., [illegible]
SILTY, SOFT, PLASTIC

[illegible]
C.G. 340 UNITS

STR. TR. TAN [illegible]
[illegible]

CLAY: GRY-MED. GRY., V. SILTY,
CARB., SOFT, STICKY, [illegible]
W/ SILTSTN. CHIPS

MW (CUT) 1.12 @ 74 F

C G 340 UNITS

T.G. TAN-CLAYS [illegible]
MATERIAL

MW (CUT) 1.1 @ 74 F

LITH CHANGE [illegible] GRY SILT

[illegible]
[illegible]

VA 74
VIS [illegible]

LITH CHANGE [illegible]
[illegible] GRY, FIRM, MICROMICA.

CLAY: GRY-LT GRY., [illegible]
MICA., SOFT, PLASTIC, LIMY,
CARB.

[illegible] TRC CLR, V.F.G. QTZ SD.

BIT BALLED UP

SILT, TR. [illegible] BROWNISH GRY., [illegible]
QTZ, LIMY, [illegible]

CLAY: GRY-MED. GRY., SOFT, [illegible]
[illegible], [illegible], [illegible]
[illegible] FT.

WIPE HOLE

CLAY: GRY-MED. GRY., SOFT,
SLI., STICKY, SDY- SILTY

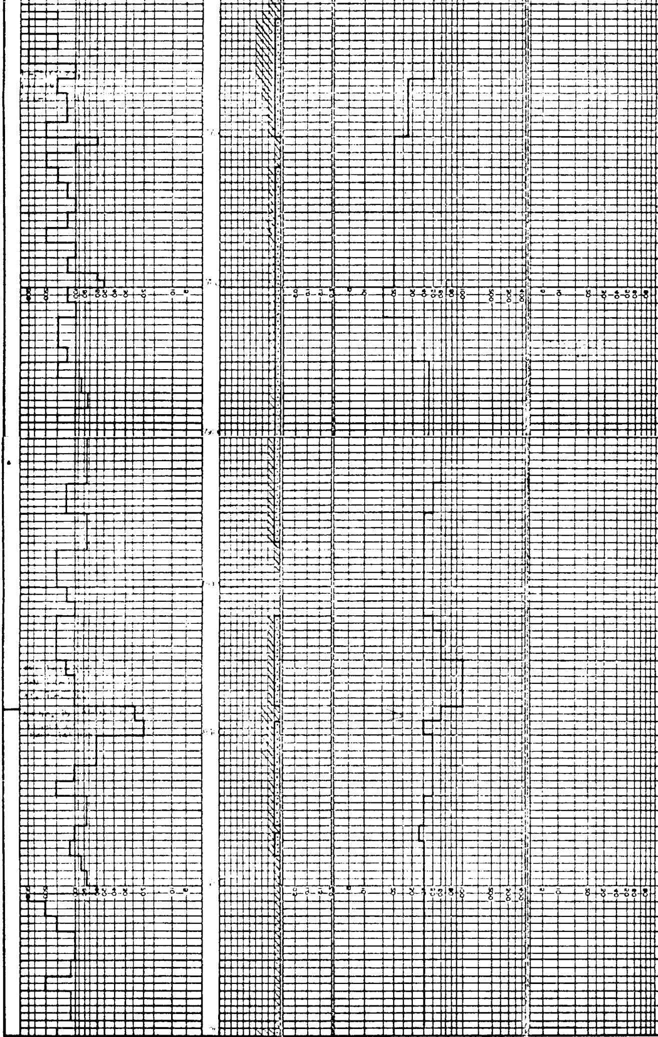
TRC. PYRITE, COAL, [illegible]
[illegible]

[illegible] TR. TAN-[illegible]

SILT TR. [illegible] BROWNISH GRY., SOFT,
GRY, FIRM, MICROMICA.,
LIMY, CARB.

TRC [illegible] V.F.
ANG. [illegible] QTZ.

CLAY: [illegible]



[illegible], TRC, PYRITE, COAL &
SCATTERED GLAUCONITE GRAINS

[illegible], TRC PYRITE, [illegible] &
[illegible]-MULTI-[illegible], V.FN. ANG.
QTZ GD.

BRNISH GRY SILT, TN., CLAYEY.

[illegible] VIS [illegible] 1, FC 2/
[illegible]

[illegible]

SILTST, [illegible] GRY, [illegible],
[illegible]

CLAY, LT GRY BRN, SILTY-[illegible],
[illegible], PLASTIC

[illegible]

SDY, [illegible], FN., WELL SORTED,
ANG.-SBRAN, LOOSE QTZ

[illegible] 1, [illegible]

CLAY, [illegible] GY BRN, [illegible]
[illegible], PLASTIC, STICKY, SAN

CLAY A/A [illegible]
[illegible]

[illegible]
[illegible]

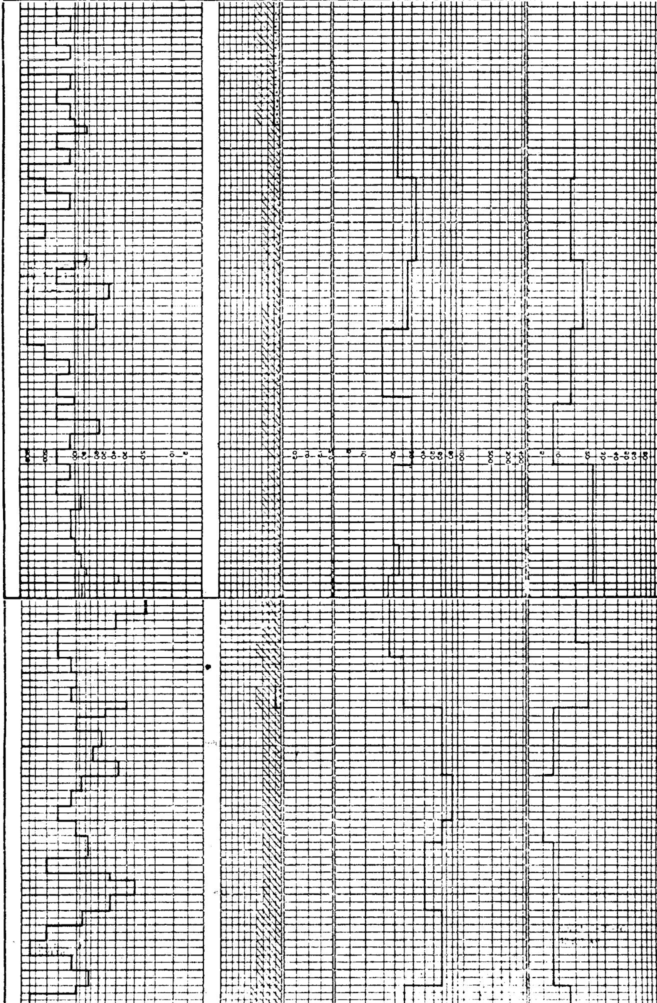
SCATTERED GLAUCONITE GRAINS

SILTST, LT GY BRN, SILTY-
SDY, 6 FT. MASSIVE

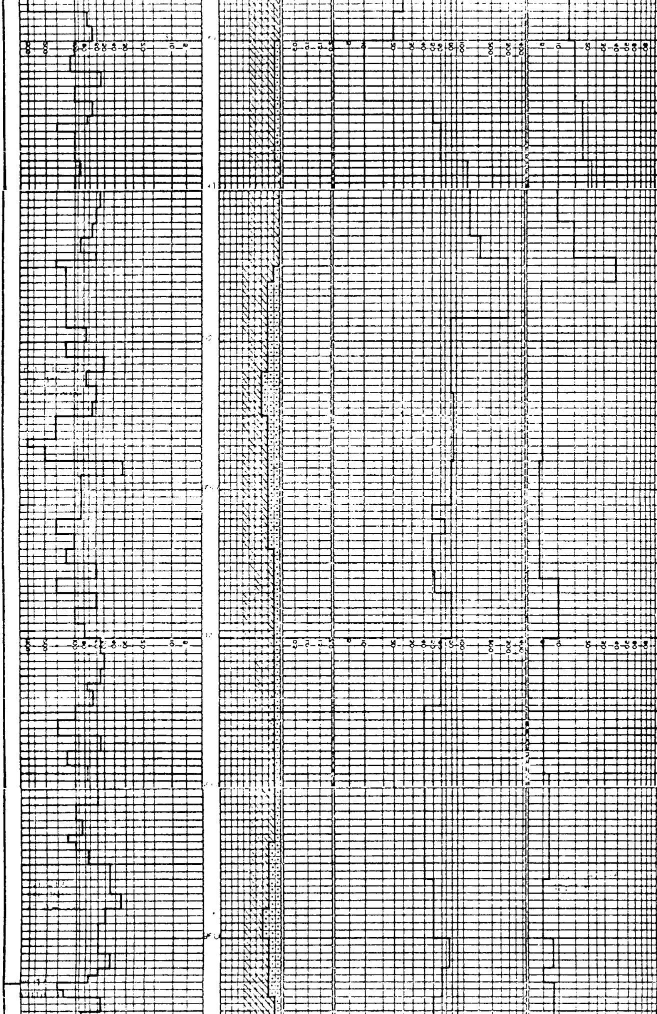
CLAY, LT GY BRN, SDY, SOFT

[illegible], SAND, VF, WELL SORTD,
WHT QTZ

[illegible]



SILTST, GY BRN-MED DK GY BRN,
GLAUCONITIC, V/SDY, [illegible]
MICAC, LIMY; [illegible] ETC.
[illegible] TAN [illegible]
[illegible] TAN
[illegible]
[illegible] TO [illegible] FORAM,
[illegible] 1.5 [illegible]
[illegible] AT 1.0 [illegible]
[illegible] SOLIDS 2 [illegible]
INC. [illegible] CHAGS AN[illegible]
V. HARD.
INCL. GYPSUM, CALCITE [illegible]
[illegible] & TAN TUFFACEOUS MAT'L
SILTSTONE: GRY, BRN-MED GRY BRN,
V. SDY., GLAUCONITIC, FIRM,
CLAY: GRY, [illegible]-SILTY,
[illegible]
SILTST AS DESCRIBED ABOVE &
CLAY, GY BRN, V/SDY-SILTY
[illegible]
[illegible]
[illegible] 11.5 [illegible] SOLIDS 2[illegible]
TR. COALY FRAGS, PYRITE AND
TUFF
[illegible], GRN., GLAUCONITIC,
[illegible] V/CLAYEY
[illegible], [illegible]-TAN, [illegible],
[illegible] GRY SILTSTONE [illegible],
[illegible], WELL SORTED, [illegible].
[illegible], PYRITE, COAL FRAGS
[illegible]
[illegible], SDY, CARB.
[illegible]
[illegible]
[illegible]
[illegible] & GRY DENSE
[illegible] BS., HARD.
[illegible] 1.2 [illegible]
[illegible] TO [illegible]
[illegible] GAS.
[illegible]
[illegible] SHELL FRAGS.
[illegible] SS. [illegible]
[illegible]
CLAY: [illegible] GRY, [illegible]
SOFT, STICKY, CARB.
SILTSTN.: GRY, BRN-GRY GRN.,
SDY, SOFT, GLAUCONITIC.
[illegible]
[illegible]



[illegible]

SAND: V/FN, WELL-SORTED [illegible]
AND GLAUCONITE PELLETS.

CLAY: GY-BRN, SILTY, SOFT,

SILTSTONE: GY-BRN, W/ LAYERS, [illegible]

[illegible]

SANDSTONE: GY-BRN, SILTY, [illegible]
[illegible] WELL-SORTED, FRIABLE

TRC, GYPSUM & CALCITE.

CLAY: GY-BRN, SANDY.

[illegible]

[illegible]

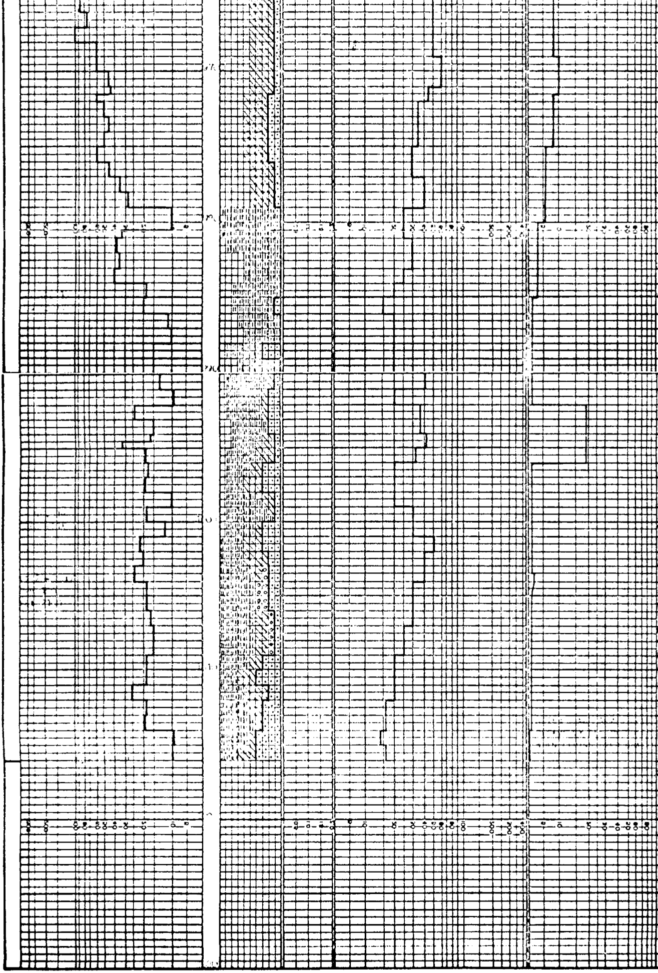
SHALE: ALTERED, BRN, SOFT,
HYDRATED.

SILTSTONE: BRN-GY-TAN, GLAUCONITIC, [illegible] GLAUCONITE SAND

CLAYSTONE: GY-BRN, SILTY,

SAND: V/FN, WELL-SORTED [illegible]
QUARTZ GRAINS.

[illegible] 1.500 @ 77 F



[illegible], GRY BR., SILTY,
SOFT.

[illegible]-SHALY, SILTY,
MICAC., SOFT, CRUMBLY.

SILTSTONE, [illegible], GRN-LT GRY
[illegible], CLAYEY, [illegible]
[illegible], FOSSILS W/ [illegible]

LITH CHANGE
[illegible]
[illegible]

[illegible]
[illegible]

[illegible] S/A[illegible]
[illegible]

[illegible] VIS [illegible] 1.1 [illegible] 2/3
[illegible] 11.5 [illegible]

MUD [illegible]
[illegible]
[illegible] Y [illegible] LY
SCATTERED [illegible]
[illegible]
[illegible], MIC[illegible], [illegible]
[illegible] SL, MOT[illegible]

[illegible]
[illegible]

[illegible]
[illegible] ST,
[illegible] W/ [illegible]
[illegible] SS
[illegible]
[illegible] N, [illegible]
[illegible]
[illegible]
[illegible]
[illegible] W/3
[illegible]
[illegible]