SHELL OIL CO.

FORMATION & HYDROCARBON LOGGING RECORD

COMPANY [illegible]
WELL [illegible] FIELD [illegible]
COUNTY P-072 1ET STATE [illegible]
ELEV. [illegible]
LOCATION 5927 [illegible]

LOGGING ENGINEERS [illegible]
TYPE UNIT [illegible]

LEGEND

ABBREVIATIONS

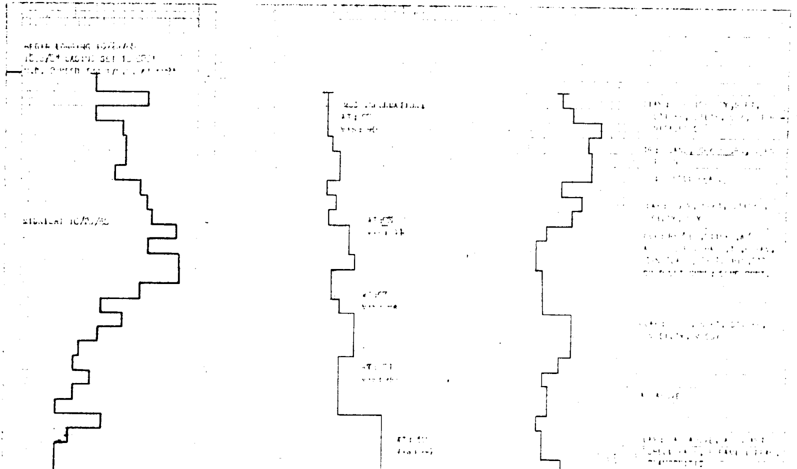
NB	NEW BIT
NCB	NEW CORE BIT
CO	CIRCULATED OUT
DST	DRILL STEM TEST
LAT	LOGGED AFTER TRIP
TG	TRIP GAS
CG	CONNECTION GAS
PR	POOR RETURNS
NR	NO RETURNS

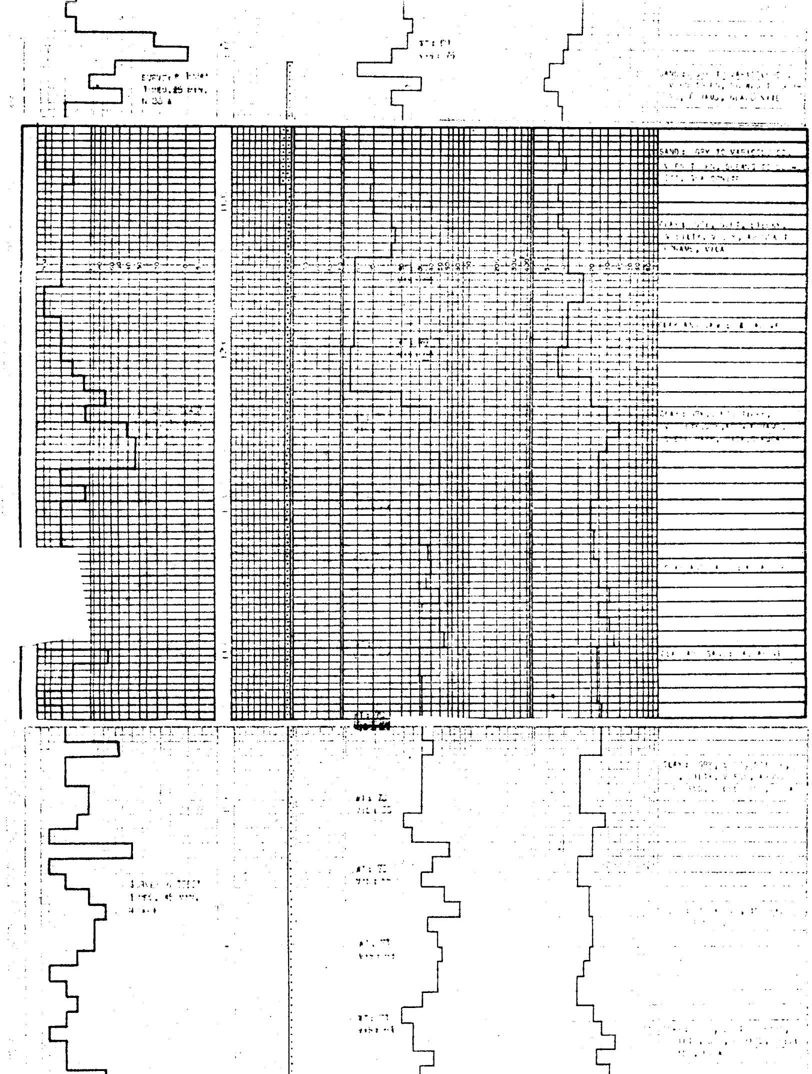
W	WEIGHT OF MUD
CK	FILTER CAKE
V	VISCOSITY, API SECONDS
F	FILTRATE, API cc's
S	SALINITY, ppmCl
	RESISTIVITY, OHM-METER
Rm	MUD
Rmc	MUD CAKE
Rmf	MUD FILTRATE

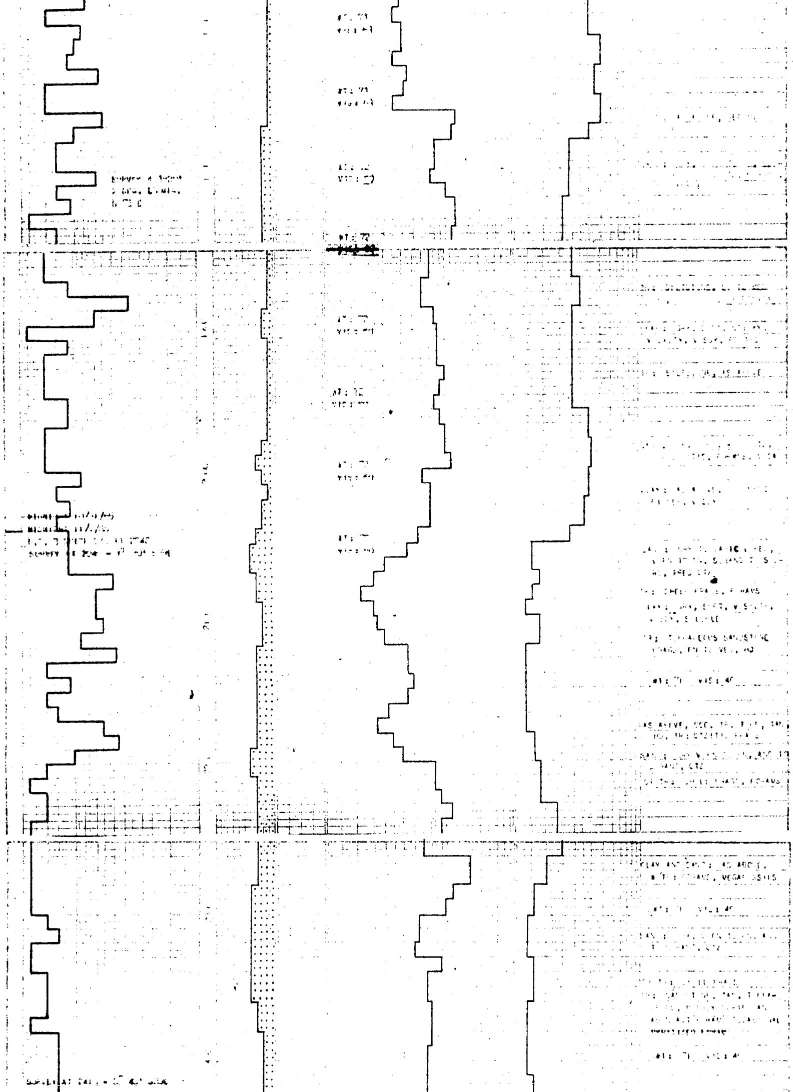
LITHOLOGY

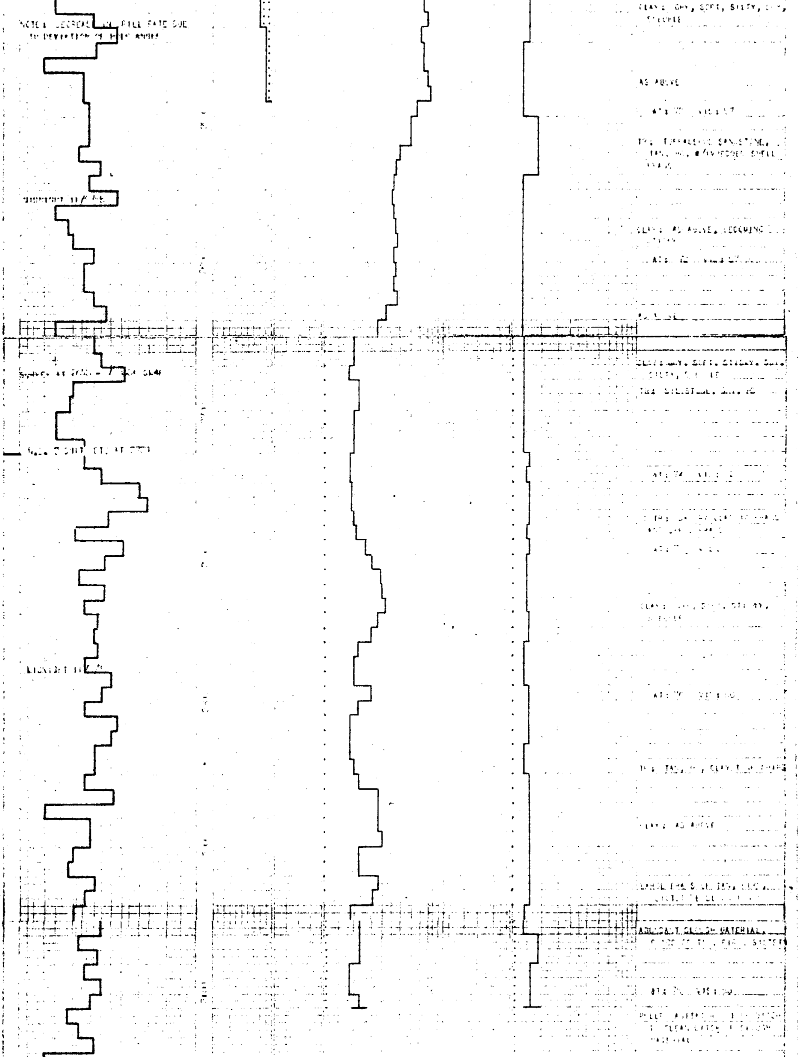
SHALE, CLAY	☐	LIMESTONE	☐
SILTY SHALE	☐	DOLOMITE	☐
SILTSTONE	☐	GYPSUM or ANHYDRITE	☐
SDY SILTST	☐	SALT	☒
SAND	☐	COAL	■
CHERT	☐	GRANITE	☐
CONGLOMERATE	☐	VOLCANICS	☐
	☐		☐

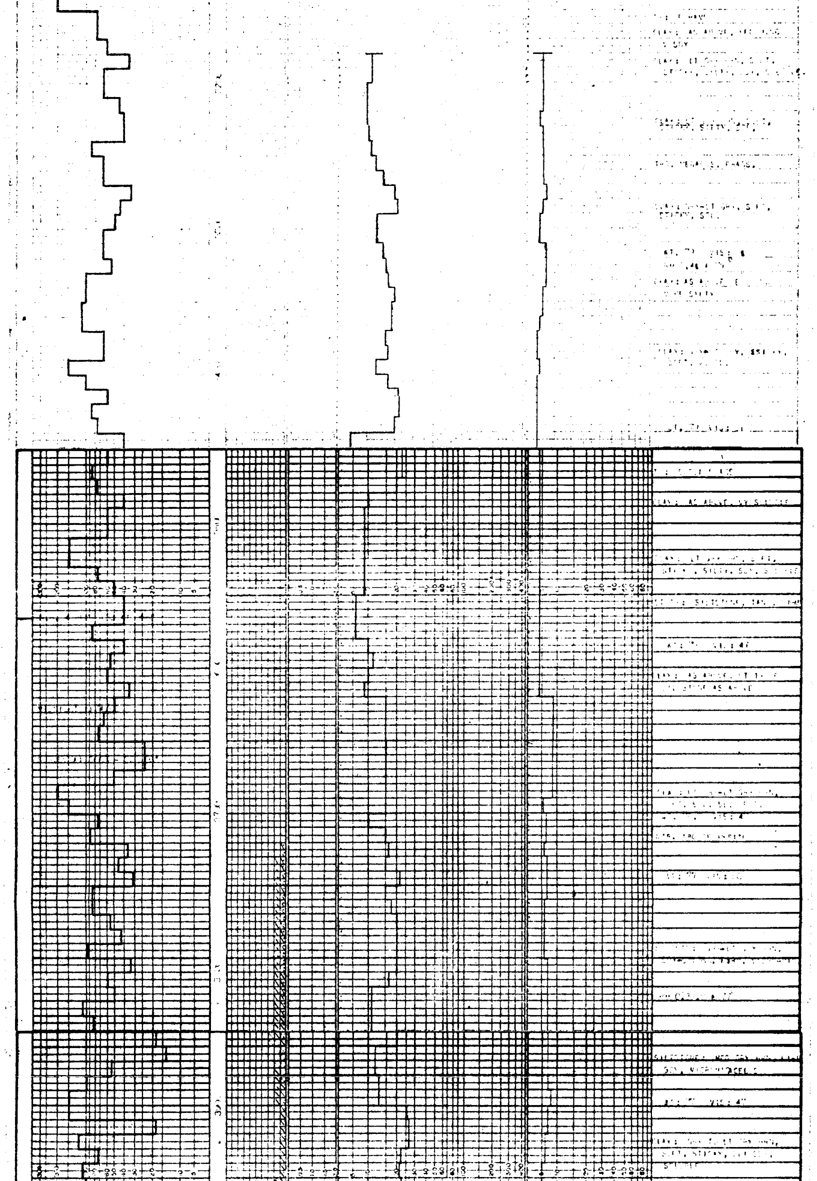
BIT DATA	DRILLING RATE	DEPTH	LITH.	OIL AND GAS ANALYSIS			REMARKS
	FT/HR		100——0 SAND % CURVE	OIL + + + TRACE 1-5 FAIR 5-10 SHOW 10-15 GOOD SHOW 15-20	MUD GAS DITCH TOT. ——— DITCH PET. VAP. ········	CUTTINGS GAS UNWASHED TOT. — · — UNWASHED PET. VAP. · · · SOLVENT CUT + + +	DESCRIPTIONS TEST RESULTS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

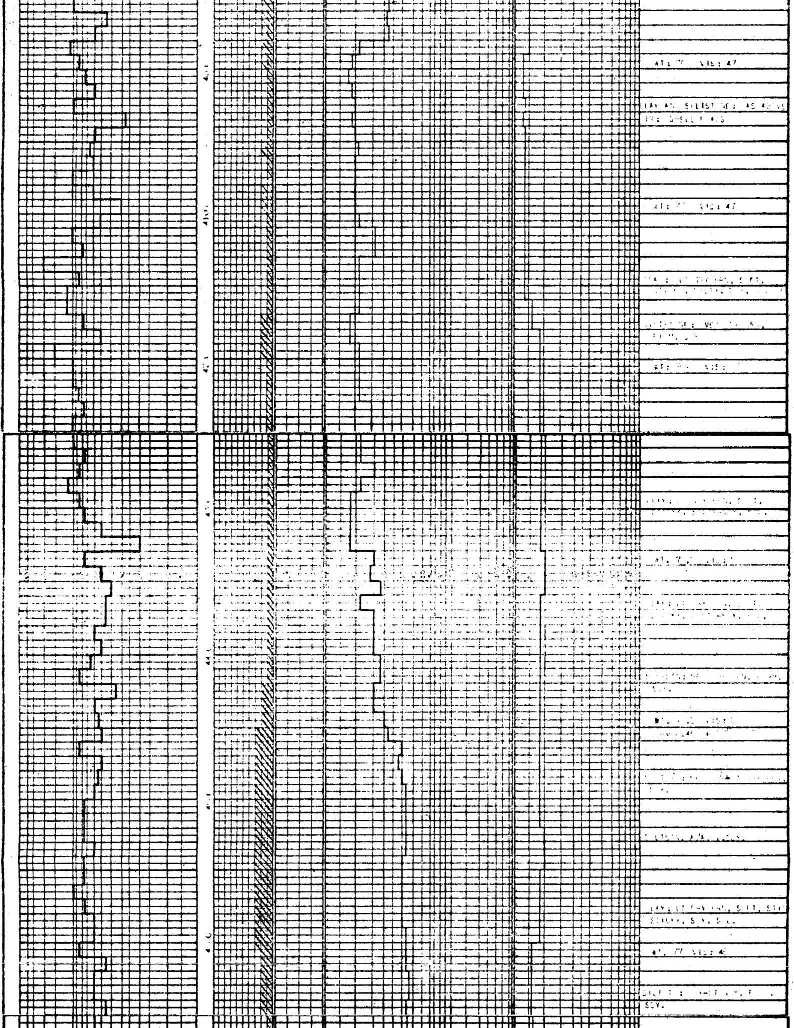


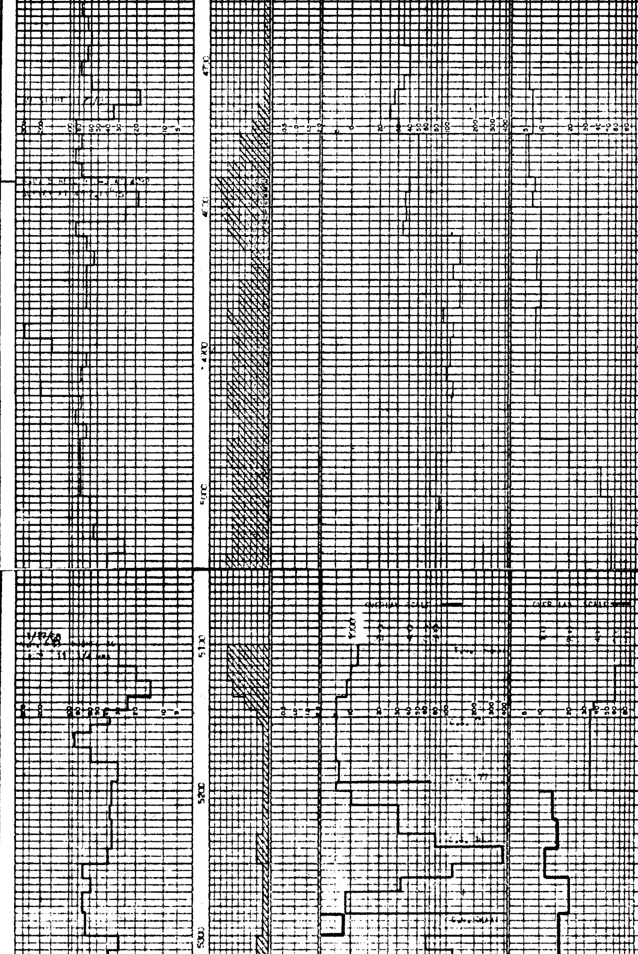












SILTSTN: GRY-LT GRY, FIRM,
SL. SDY, SL. CALC.

CLAY: LT GRY, SL. BENT.,
SOFT, STICKY
SILTSTN: GRY-LT GRY-BRN,
FIRM, LMY, MICRO-MICA
[illegible], TRC TUFFACEOUS MATERIAL

WT. 77 VIS: 50
W.L. 2.5 F.C. 2/32
SAL 240 G/G NACL

STN TRC TUFFACEOUS MATERIAL
AND PYRITE

GRY-LT GRY, SL. BENT. CLY,
SOFT, SOL., STICKY,

STN. TRC TUFFACEOUS SS &
PYRITIZED SS.

AS ABOVE

WT. 74 VIS 49

STN. TRC PYRITE & [illegible]
TUFFACEOUS MATERIAL
TRC [illegible] PYRITE &
SILTSTN.

HOLE SLOUGHING IN, CIRCULA-
TING AND BUILDING MUD WT.

WT: 74 VIS: 123

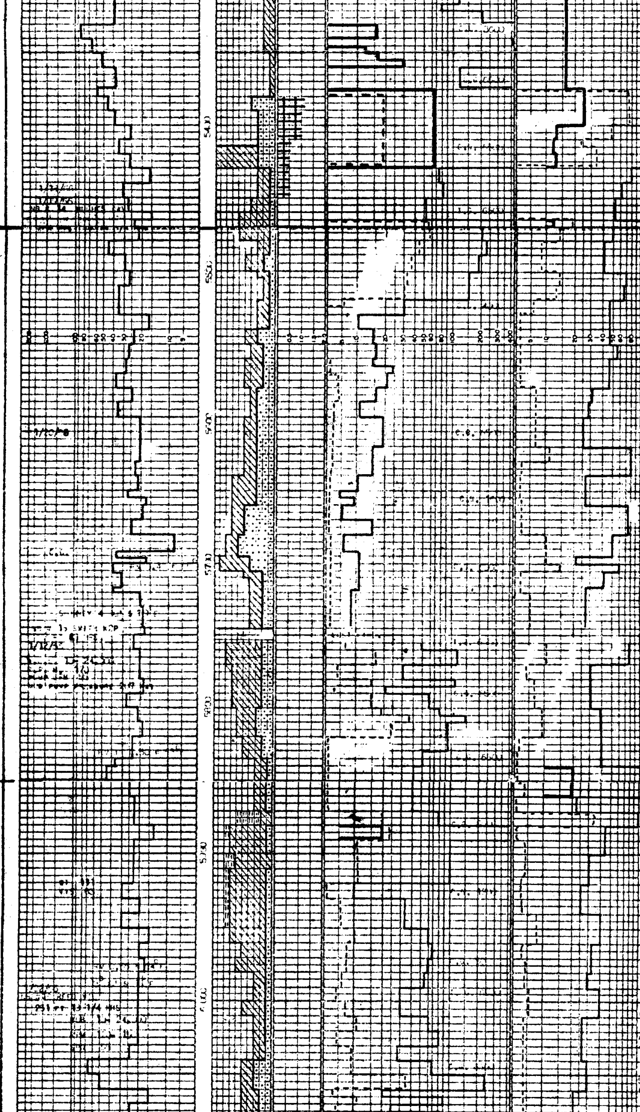
SILTSTONE: GRY BRN TO MED
BRN, MOD FIRM TO FIRM,
SDY, MICROMICA IN PART

CLAY: GRY, SILTY, SOFT, SOL
SILST: GRY BRN, BRN GRY, SL
SDY, VERY GLAUCONITIC, ABUND
OF FORAMS, WELL CEMENTED, T-
LIMESTONE [illegible]

CLAY: GRY, SL. SILTY, MOD
STICKY, SOFT

CLAY, LT GRY, SILTY, MOD
PLASTIC, VERY SOFT

TRACE SHELL FRAGMENTS



SILTST: GRY, GRY BRN, SDY

SL GLAUCONITIC, W/S BUFF

SDY SILTST

SD, GRN, GLAUCONITE GRAINS

V COARSE, SUB RND, PROBABLY

CONDENSATE, GRN WHITE TO WHITE

[illegible] FLUOR.

SS : GRY GRN- GRN, POORLY SO

RTED, CHLORITIC, GLAUC. TRACE

TUFFACEOUS SS

CLAY, GRY, STICKY, BENTONITE

SOFT, SOLUBLE, ABUND CALO

[illegible]

[illegible], SDY

NOTE: STR. TRC GASSY SMELL

[illegible]

SS, [illegible] ANG

POORLY SORTED SS

CLAY, GRY, SDY, BENT., SOFT,

STICKY, SOL.

SS., GRY GRN-BRN, F-MED.,

ANG, POORLY SORTED, QTZ

CLAY, DK BRN, MOD PLASTIC,

STICKY, SILTY.

SILTSTN, DK BRN, SDY, DENSE

HD.

SS, LT GRY, V/F, V. WELL CEM

V.F-FN, WELL RDD QTZ

SS, LT [illegible] GRY,

GRN [illegible] GRY, CALC, V. POORLY

SORTED, DENSE, [illegible]

SILICATED, SL. CHLORITIC.

SILTSTN, [illegible] V. SDY,

[illegible], FIRM, [illegible]

SS, [illegible]

[illegible] SORTED W/QTZ. [illegible]

[illegible]

[illegible] TE: DITCH GAS OFF-SCALE

[illegible] AT. [illegible] TO 82.

SS: [illegible], CALC, TUFFACEOUS

[illegible] BRN [illegible]

FIRM TO SOFT ---CLAY LT GRY

FAIRLY STICKY SLUE VICH PYRT

SS: [illegible], ANG-SUBANG

[illegible], QTZ, CALC.

CEMENTATION. STR. TRC.

~~TUFFACEOUS SS & SILTSTN.~~

CLAY: GRY-GRY WHT, BENTONITI

SILTSTN: MED DK GRY BRN-GRY

FIRM, LIMY

ABUND TUFFACEOUS SEDIMENT Y

VOLCANICS. TUFF: WHT-[illegible]

[illegible], HD-SOFT W/S SL [illegible]

[illegible]

SS [illegible] GLAUCONITE & [illegible]

[illegible] TR. COAL FRAGS

SILTSTN: [illegible]

[illegible]

[illegible] W/[illegible]

[illegible] TUFFACEOUS SILTSTN

CLAY: GRY WHT, SOFT, BENT.,

STICKY.

TUFFACEOUS SILST, PREDOMINATE

BROWNS, DRK, PURPLISH, GRN

ABUNDANCE CALCITES, GLAUCONITE

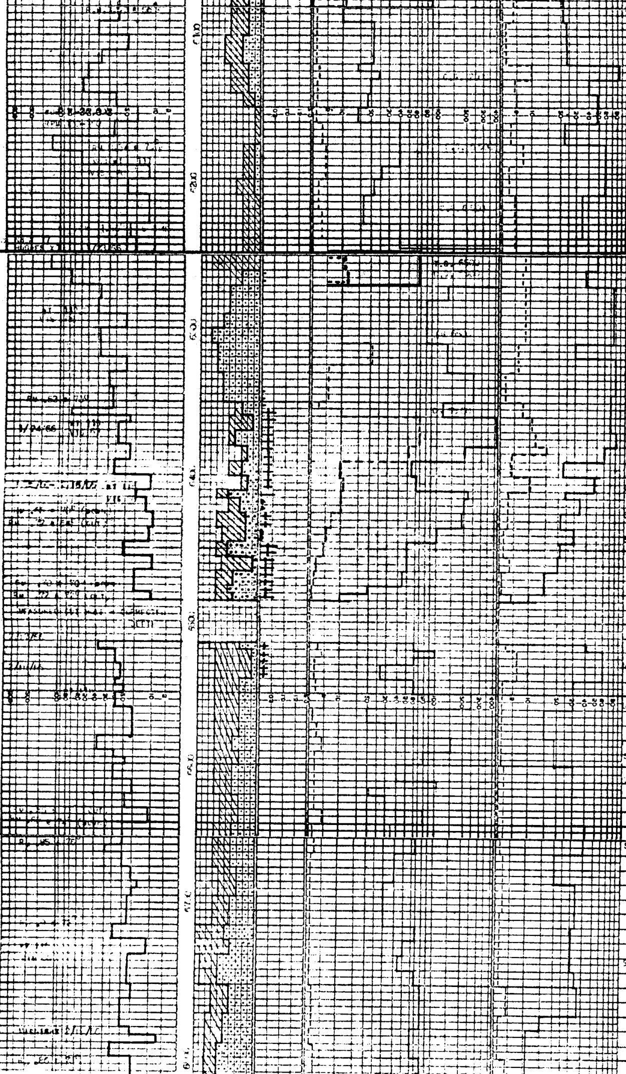
[illegible] FILLED WITH CALC [illegible]

CLAY, DRK BRN, SILTY, SL PL-

ASTIC

SS: BRN GRY, CALC, FINE, VERY

WELL CEMENTED, SILTY, HARD



SILST: DRK BRN, GREY, [illegible]
ASHY, CARBONIFEROUS.
CLAY, GREY-OLIVE, STICKY

SDST: LT GRY, QTZITIC, ABUND CALC
ITE, COMMON PYRITE & GLAUCONIT
SILST: DRK BRN GRY, [illegible]
ASHY, TUFFACEOUS, CARBONACE
CLAY, GRY OLIVE STICKY

CLAY, GRY OLIVE, STICKY

SILST: DRK GRYBRN, W/ LAVENDER
[illegible]
TO FRIABLE.
SAND: LT GRY, CALC, [illegible]
W/ [illegible] DRK BRN MATERIAL, [illegible]
[illegible]
SILST: TUFFACEOUS GRY GRY
BRN, FIRM-FRIABLE, ASHY [illegible]

SILST IS PROBABLY SLOUGH.
CLAY: LT GRY WHITE, VERY S
[illegible]
ASH
SAND, CLEAR & MILKY QTZ, F
[illegible] WITH SOME SS
[illegible]
CLAY, GRY WHITE, V/[illegible]

SAND, CLEAR & MILKY QTZ, V/
FINE TO FINE AND LOOSE GRAIN
[illegible]
OIL SHOWS PROB CONTAMINATION
DULL YELO BRN, DRK BRN OIL
[illegible] IN BENTONITIC SS [illegible]
[illegible] DUE TO [illegible]
A FEW FRAG OF [illegible]
[illegible]
[illegible] FRESH BREAKS & [illegible]
[illegible]

CLAY: MED BRN GRAY, STICKY.

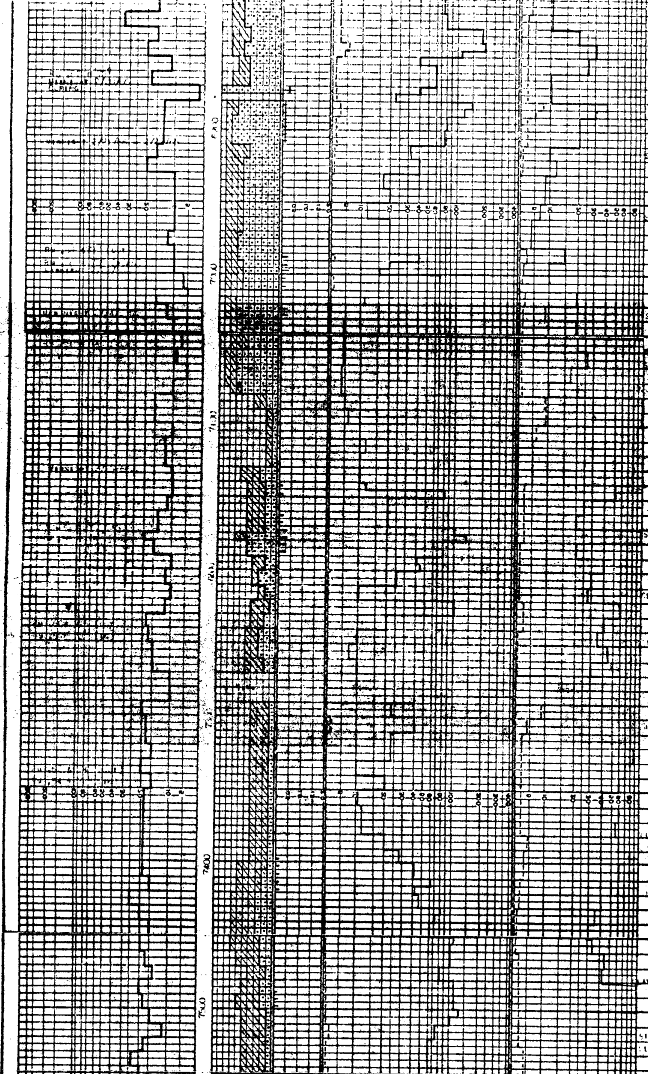
SILT: BRN W/ LAVENDER HUE,
FIRM, SOME DIRTY [illegible] BRN.
SAND: NOT WELL SORTED, FINE,
[illegible]
AND BLK MINERALS, ABUN CALC
FRAGS, SLM MOD SOFT.
FREE OIL: VIOLENTLY STIRRING
GIVES BLK [illegible], 50% SURFACE
[illegible]

SILTSTONE: MED REDDISH BRN.
SLI PURPLE CAST, FIRM.

[illegible] AND SLST: BRNISH GRAY,
V FN-MED, SILTY, POORLY SORT
[illegible] QTZ, CALC CEMENTED.
CLAY: MED TO DK GRY BRN, [illegible]
SILTSTONE: [illegible]
[illegible]
SAND AND SDST: MED BRNISH GR
V FN-MED, SILTY, POORLY SOR
SUBANG-SUBRD, QTZ, OCC SPE
GRAINS, CALC CEMENT.

SS & SLT, MED, GREY, VY F-CRS.
[illegible] SILTY, ANG-SUBRND,
POORLY SRTD, QTZ W/OCC.
[illegible]

SS & SLT, [illegible]
[illegible]
[illegible]



SD, GREY, VY F-VF B, VCH, SLTY, SBRND, PRED M, QTZ, LESS CLAY

CORE 1 [illegible] REC

SDST, VF B, GREY, F-VF D, [illegible] FRLY SRT D, [illegible] QTZ W/ [illegible] FRAGS, FELDSPAR, BASALT [illegible] [illegible] CUT, [illegible] WHITE CUT FLUOR

SAND AND SDST: GRY TO [illegible] FN TO [illegible] CRS, SBANG TO SBRND, [illegible] QTZ, [illegible] CALC [illegible] [illegible]

SILTSTONE: DK [illegible] GRY, [illegible] DK REDDISH BRN, SDY, V FIRM.

CORE 2 [illegible]

[illegible] SRTD, SILTY, [illegible]

SILTSTONE: DK REDDISH BRN, [illegible] BRN, V FIRM, MED BRN TO TAN, CLAYEY, OCC GLAUCONITIC,

SANDSTONE: GRY, FN TO VFB, [illegible] CALC AND SIL [illegible]

CLAY: MED GRY, GRY BRN, SDY, STICKY, BENTONITIC.

CLAY: DK [illegible] GRY, SOFT, SILTY, OCC [illegible]

SILTSTONE: DK REDDISH BRN, [illegible] HARD.

SAND AND SDST: GRY, FN-[illegible] [illegible] CALCITE CEMENTED, [illegible] LT GRY CLAY.

CLAY: DK [illegible] GRY, SLI CALC, SOFT, STICKY.

CLAY: LT GRY, BENTONITIC, [illegible] SANDY.

CLAYSTONE TO DK GRY W/ [illegible] [illegible] SILTY.

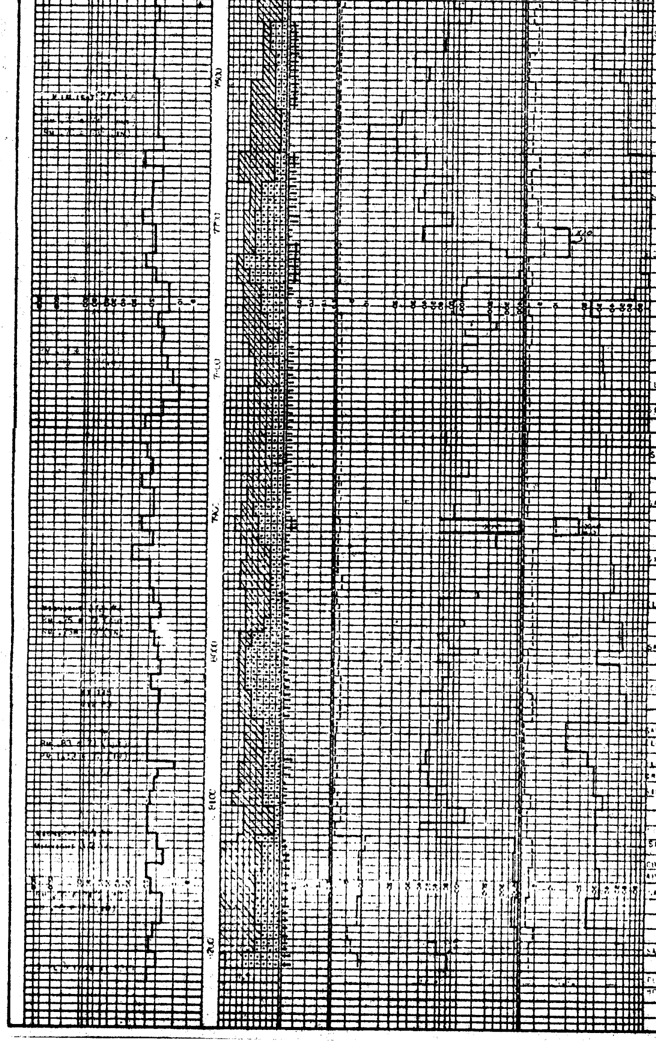
CLAY: DK GRY [illegible] SILT.

SILTSTONE: DK [illegible]

[illegible]

CLAY: DK GRY [illegible] STICKY.

SILTSTONE: DK BRN, SDY, CLAYEY CLAY AS ABOVE.



SAND: LT GRY, V FN-[illegible], OCC
MED, ANG-SUBANG, CLAYEY,
QTZ, BK GRNS, LT STAIN
[illegible]
[illegible]

SILTSTONE: DK BRN, SDY, MICR-
MICA, MOD FIRM, [illegible]

SAND: GRY, FN-MED, SUBANG
MED SORT, KAOLINITIC, QTZ,
CLAY: LT TO MED GRY, KAOLINI-

SAND AND SANDSTONE: GRY, [illegible]
TO MED, POOR SORT, KAOLIN-
TR BLEEDING YG CF UPON
CRUSHING.

CLAY: DK GRY BRN, BENTONITIC,
VERY STICKY.
SILTSTONE: DK GRY BRN, MICRO-
MICACEOUS, VY FIRM.

SILTSTONE: DK GRY BRN, SDY,
VY FIRM.
CLAY: LT GRY [illegible], SIL-[illegible],
SOFT, STICKY.
SAND: GRY, V FN - MED, PREDOM
FN GR, ANG - [illegible], QTZ.

SILTSTONE: MED TO DK GRY, SDY,
FIRM.

CLAY: DK GRY BRN, STICKY, [illegible].

SAND: LT GRY, V FN-MED, SUB-
ANG, POOR-MOD SORT, PART
CALC CEMENTED, KAOLINITIC, QTZ
CLAY: LT GRY, KAOLINITIC, SDY.

SAND: AS ABOVE.
CLAY: AS ABOVE.

BLEEDING YG CF FROM GS UPON
CRUSHING.
SILTSTONE: DK GRY BRN, SDY,
MICROMICACEOUS, FIRM.

SILTSTONE: DK GRY BRN, SDY,
[illegible]
CONDITION MUD FOR HIGH GAS
APPROX. [illegible] HOURS AT 8[illegible]
SANDSTONE: GRY, [illegible], POOR
TO MOD SORTED, PART CALC
CEMENTED, QTZ, [illegible]

SAND: LT GRY, V FN-MED, SUBRD
MOD SORT, KAOLINITIC, QTZ.
PULLED 5 STANDS BEFORE
BOTTOMS UP AT 8[illegible]