SIMON PETROLEUM TECHNOLOGY

WELL: 9/4-1

Print: 2378F	**Units:** M [✓ F]	**Top**	**Bottom**	**Scale**	**TD**
Length: 26 FT	**Initials:** JC	300	9720	1:500	9720

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

COMPLETION - ϕ
725.3
F
(630')

AMERICAN OVERSEAS PETROLEUM LIMITED

COMPOSITE WELL LOG - NORWAY 9/4-1

ID/OLJE
00474 *27.6.68
SAKSB:
ARKIV:

FIELD OR AREA :
STATE OR PROVINCE : NORTH SEA
CONCESSION : BLOCK 9/4
COUNTRY : NORWAY

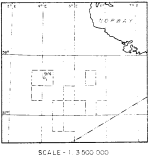
LOCATION - COORDINATES
LATITUDE : 57° 55' 02" N
LONGITUDE : 04° 01' 13" E
GRID OR OTHER LOCATION : NEAR SEISMIC S.P. 2462 ½ LINE 5735

ELEVATION (K.B. TO SEAFLOOR) 317
REFERENCE DATUM (KB) : 95' ABV. M.S.L.
PERMANENT DATUM : M.S.L.

TOTAL DEPTH : 9 720'
PLUG BACK DEPTH : JUNKED AND ABANDONED

DATE SPUDDED : 31 MARCH 1968
DATE TOTAL DEPTH REACHED : 9 MAY 1968
DATE COMPLETED : 19 MAY 1968

LOCATION MAP



SCALE - 1: 3 500 000

COMPLETION STATUS : JUNKED AND ABANDONED w/ FISH IN HOLE

GEOLOGIST	INTERVAL LOGGED
J. BRUNS	1 400' - 5 400' 9 600' - 9 720
J. CLARKE	317' - 1 400' 5 400' - 9 600'

MUD LOG BY : EXP LOGGING ROBT
INTERVAL 317' TO 9 720'

CORE No	CORE INTERVAL	RECOVERY
	SIDEWALL CORE DETAILS ON LOG 7205' - 7 922'	

TEST No	TEST INTERVAL	RESULT
	NO TESTS	
	TEST DETAILS AT FOOT OF LOG	

WIRELINE SURVEYS	INTERVAL

LITHOLOGIC SYMBOLS

- ▨ SD, SS + SLT, SLTST cglc, cdlc
- ▤ CLAY + CLAYSTONE calc, carb
- ▤ SHALE + CLAYSTONE : sdy or slty, sc.iferous
- ▦ LIMESTONE arg or shaly, dolc
- ▦ DOLOMITE . oolc, calc, sdy or slty
- ▦ MARL calc MARL - dolc
- ▨ ANHY + GYP dolomitic
- ▨ SALT : anhydritic
- ▤ LIGNITE + COAL
- □□□ PYRITE
- △ △ CHERT
- ∨ ∨ MICA
- V V GLAUC.
- f f SMALL FORAM
- F F LARGE FORAM
- M M MACRO FOSSILS

DRLG CONTRACTOR : ZAPATA
RIG : ENDEAVOUR
RIG SPECS : CONT EMSCO 20 - R

HOLE SIZE	INTERVAL
48"	317' - 380'
26"	380' - 1 230'
17 ½"	1 230' - 3 629'
12 ¼"	3 629' - 9 720'

MUD TYPE	INTERVAL
SEA WATER GEL	317' - 3 629'
SPERSENE XP-20	3 629 - 9 720'

CASING	SHOE	TYPE + CEMENT
36"	475'	DRIVEN
20"	1 097'	94 LB. H 40 S.T.C. w/ 2 000 SX
13 ⅜"	3 584"	61 LB + 68 LB J - 55 S.T.C. w/ 1900 SX IN 2 STAGES.

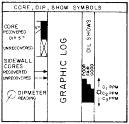
PLUG No	CEMENT	INTERVAL + PURPOSE
1	150 SX.	7 370' - 7 660' ABANDOMENT
2	200 SX	3 393' - 3 773' ABANDONMENT.
3	250 SX.	360' - 450' ABANDONMENT

PERFORATIONS	DETAIL

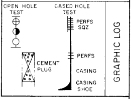
IES - 1	1093' - 3.628'
IES - 2	3.583' - 7.937'
BHC SONIC - 1	1093' - 3.300'
BHC SONIC - 2	3.583' - 7.935'
G.R. - 1	300' - 3.300'
G.R - 2	3.200' - 7.935'
C.D.M. - 1	1093' - 3.275'
F.D.C. - 1	3.583' - 7.935'

NONE

CORE, DIP, SHOW SYMBOLS



TEST AND ENGINEERING SYMBOLS



DRAWN BY: J.BRUNS and J.CLARKE   TRACED BY: H.JANDA   DATE: JUNE 12, 1968

GAMMA RAY

API UNITS
(SEE SCALE CHANGE AT 1,097')

DEPTH SCALE 1:500

CONDUCTIVITY

MILLIMHOS — m ^{2}/m = $\frac{1000}{\text{OHMS - m}^2/\text{m}}$

6 FF 40 INDUCTION

1,000	0
2,000	1,000
3,000	2,000

S. P.

MILLIVOLTS
− 4 +

(S.P. FROM 3.600' TO 7.935')

GRAPHIC LOG

RESISTIVITY

— ohms m ^{2}/m

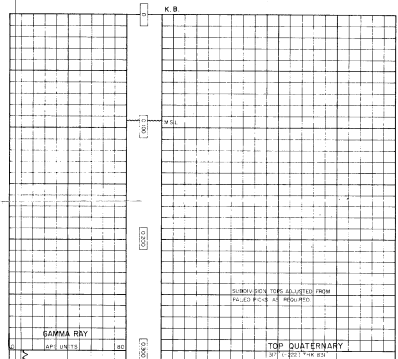
A - 16" - M
SHORT NORMAL

0 ... 2
0 ... 10
0 .... INDUCTION 10

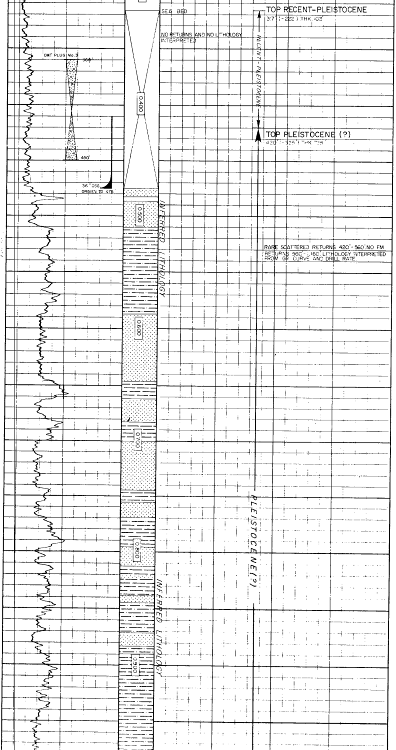
STRATIGRAPHIC UNIT
GEOLOGIC AGE
HYDROCARBON SHOWS

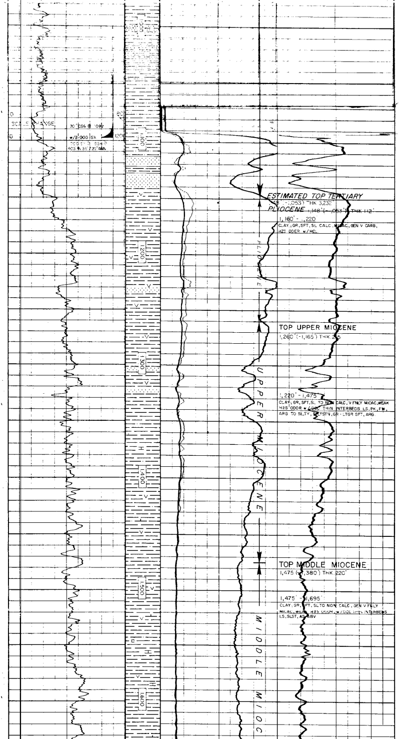
LITHOLOGIC DESCRIPTION

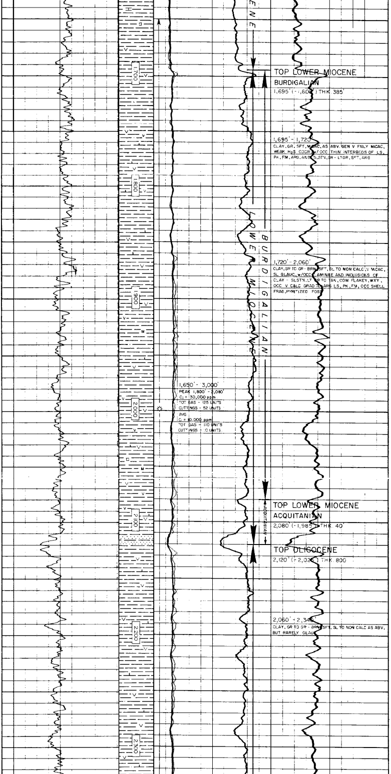
0

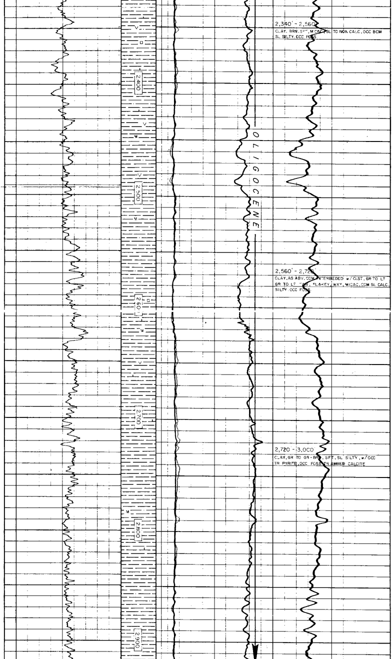


SUBDIVISION TOPS ADJUSTED FROM PALEO PICKS AS REQUIRED.





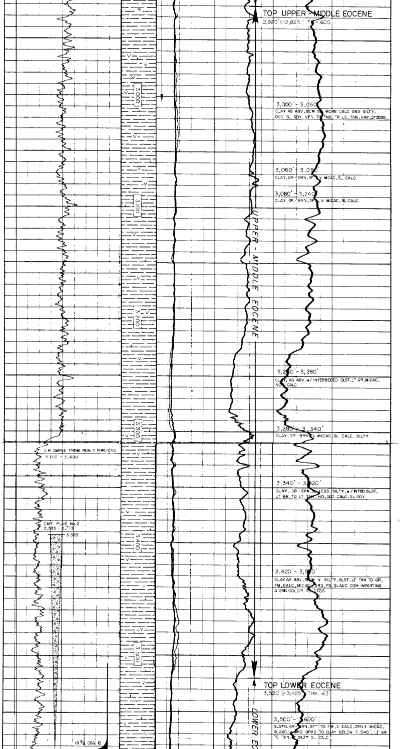




2,340' - 2,560'
CLAY, BRN, SFT, MICAC, SL TO NON CALC, OCC BCM SL SILTY, OCC FOSS.

2,560' - 2,720'
CLAY, AS ABV, COM INTERBEDED w/ CLST, GR TO LT GR TO LT TAN, FLAKEY, WXY, MICAC, COM SL CALC, SILTY, OCC FOSS.

2,720' - 3,000'
CLAY, GR TO GR-BRN, SFT, SL SILTY, w/ OCC TR PYRITE, OCC FOSS, TR AMBER CALCITE



TOP UPPER - MIDDLE EOCENE
2,920'(-2,825') THK.600

3,000' - 3,060'
CLAY AS ABV, BCM SL MORE CALC AND SILTY, OCC SL SDY, VFN TO FNG, TR LS, TAN, ARG, QTZOSE.

3,060' - 3,080'
CLAY, GR - BRN, SFT, V MICAC, SL CALC

3,080' - 3,240'
CLAY, GR - BRN, SFT, V MICAC, SL CALC.

3,240' - 3,280'
CLAY, AS ABV, w/INTERBEDED CLST, LT GR, MICAC, NON CALC

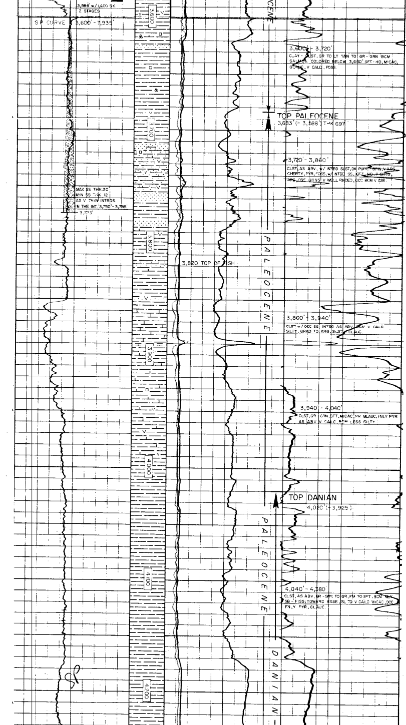
3,280' - 3,340'
CLAY, GR - BRN, V MICAC, SL CALC, SILTY.

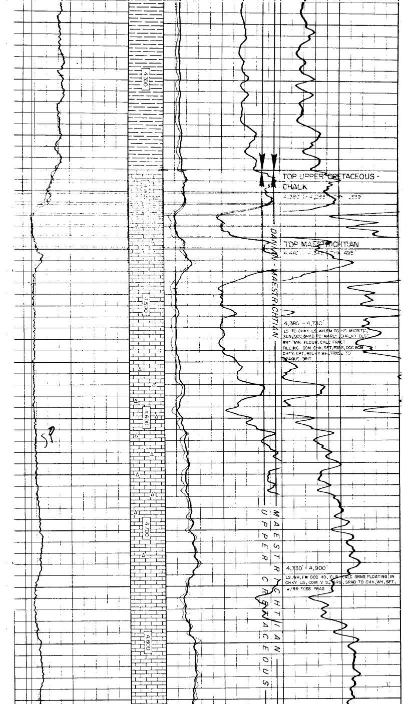
3,340' - 3,420'
CLAY, GR - BRN, SL LESS, SILTY, w/INTBD SLST, LT GR TO LT TAN, HD, OCC CALC, SL SDY.

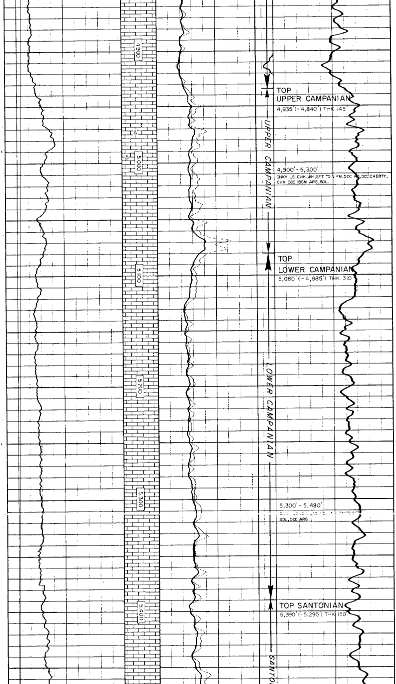
3,420' - 3,500'
CLAY AS ABV, BCM V SILTY, SLST, LT TAN TO GR, FM, CALC, MICAC, ARS, FN GLAUC COM IMPARTING A GRN COLOR TO CTGS

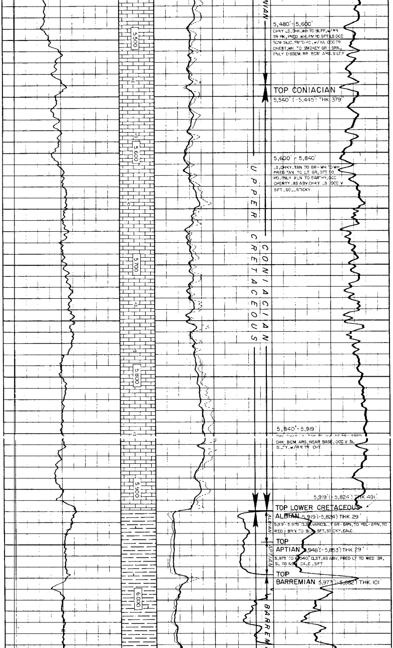
TOP LOWER EOCENE
3,520 (-3,425) THK. 63

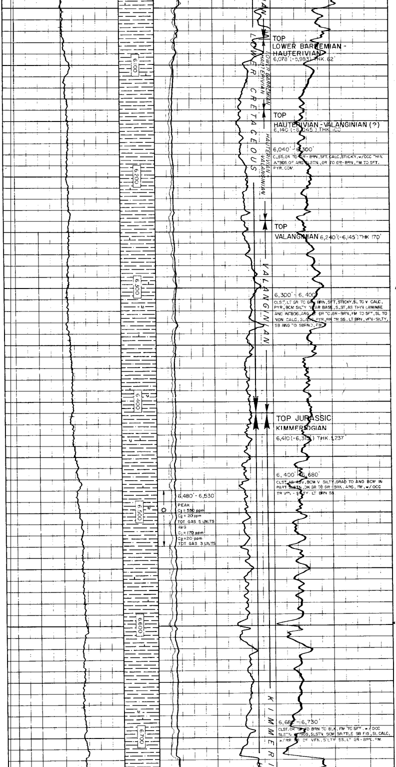
3,500' - 3,600'
SLSTN, GR - BRN, SFT TO FM, V CALC, CRSLY MICAC, GLAUC, V ARS GRAD TO CLAY BELOW 3,540', LT GR TO TAN, V SILTY SL CALC









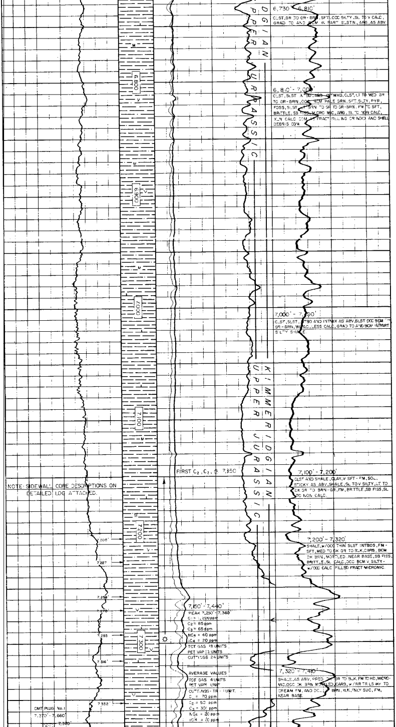


6,040' - 6,300'
CLST, GR TO GR - BRN, SFT, CALC, STICKY, w/OCC THIN INTBDS OF ARG SLSTN., GR TO GR - BRN, FM TO SFT. PYR. COM.

6,300' - 6,400'
CLST, LT GR TO GR - BRN, SFT, STICKY, SL TO V CALC, PYR, BCM SILTY NEAR BASE, SLST, AS THIN LAMINAE AND INTBDS, ARG, LT GR TO GR - BRN, FM TO SFT, SL TO NON CALC, GLAUC, PYR, RR TR SS, LT BRN, VFN - SILTY, SB ANG TO SBRND, FM.

6,400' - 6,680'
CLST, AS ABV, BCM V SILTY, GRAD TO AND BCM IN PART SLSTN, DK GR TO GR - BRN, ARG, FM, w/OCC TR VFN - SILTY LT BRN SS.

6,680' - 6,730'
CLST, DK GR TO BRN TO BLK, FM TO SFT, w/OCC SLSTN INTBDS, SLSTN, BCM BRITTLE SB FIS, SL CALC, w/RR TR OF VFN, SILTY SS, LT GR - BRN, FM.



6,730' - 6,810'
CLST, GR TO GR-BRN, SFT, OCC SILTY, SL TO V CALC, GRAD TO AND BCM IN PART SLSTN, ARG, AS ABV.

6,810' - 7,000'
CLST, SLST, INTBD AND INTMXD, CLST, LT TO MED GR TO GR-BRN, OCC BCM PALE GRN, SFT, SILTY, PYR, FOSS, SLST, LT BRN TO GR TO GR-BRN, FM TO SFT, BRITTLE, SB FISS, MICRO MIC, ARG, SL TO NON CALC, XLN CALC COM AS FRACT FILLING CRINOID AND SHELL DEBRIS COM

7,000' - 7,100'
CLST, SLST, INTBD AND INTMIX AS ABV, SLST OCC BCM GR-GRN, MIPAC, LESS CALC, GRAD TO AND BCM IN PART SILTY SHALE.

NOTE: SIDEWALL CORE DESCRIPTIONS ON DETAILED LOG ATTACHED.

7,100' - 7,200'
CLST AND SHALE, CLAY, V SFT - FM, SOL, STICKY AS ABV, SHALE, SL TO V SILTY, LT TO DK GR TO BRN-GR, FM, BRITTLE, SB FISS, SL TO NON CALC.

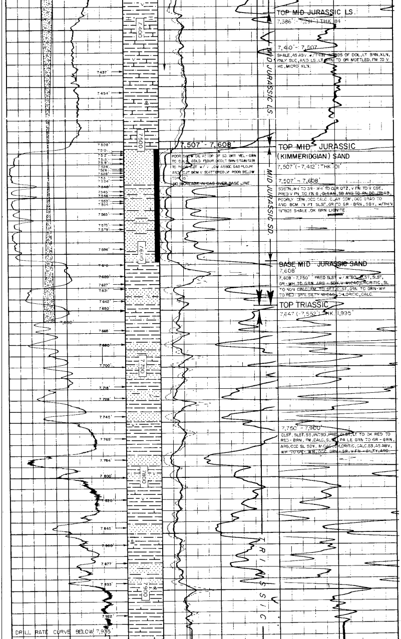
7,200' - 7,320'
SHALE, w/OCC THIN SLST INTBDS, FM - SFT, MED TO DK GR TO BLK, CARB, BCM DK BRN, MOTTLED, NEAR BASE, SB FISS, BRITTLE, SL CALC, OCC BCM V SILTY - w/OCC CALC FILLED FRACT MICROMIC.

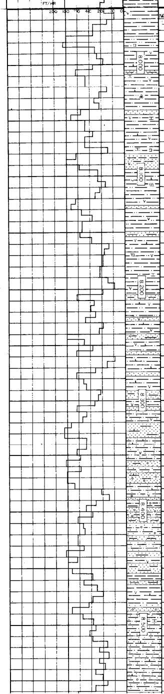
7,150' - 7,440'
PEAK 7,250' - 7,360'
C_1 = 1,200 ppm
C_2 = 85 ppm
C_3 = 65 ppm
NC_4 = 40 ppm
IC_4 = 20 ppm
TOT GAS 19 UNITS
PET VAP 13 UNITS
CUTTINGS 24 UNITS

AVERAGE VALUES
TOT GAS 4 UNITS
PET VAP 1 UNIT
CUTTINGS - TR - 1 UNIT.
C_1 = 70 ppm
C_2 = 50 ppm
C_3 = 30 ppm
NC_4 = 20 ppm
IC_4 = 10 ppm

7,320' - 7,410'
SHALE, AS ABV, PRED DK GR TO BLK, FM TO HD, MICROMIC, OCC DK BRN MOTTLED, CARB, w/RR TR LS WH TO CREAM FM, AND DOL, LT BRN, XLN, FNLY SUC, FM, NEAR BASE

CMT PLUG No. 1
7,370' - 7,660'





NO LOGS BELOW 7,938' DUE TO UNRECOVERED FISH IN THE HOLE
LITHOLOGIES FROM CUTTINGS DESCRIPTIONS

7,900' - 8,080'

CLST, WH TO LT GRN TO RED BRN, SFT, ANHY, CHLORITIC CALC, OCC V SLTY GRAD TO SS, CLR TO WH, V FN - FN, LSE.

8,080' - 8,090'

SS, WH TO CLR, V FN - FN, SBRND, FRM TO LSE, SL CALC, MIC, CHLORITIC w/INTBDS SLST, V ARG

8,090' - 8,200'

CLST, SLST w/SS INTBDS CLST, RED BRN TO WH TO PALE GRN, SFT, SOL, MIC, SILTY, CALC, PYR; SLST, RED BRN, FRM, MIC, SDY, SS, WH TO CLR, LSE AS ABV.

8,200' - 8,290'

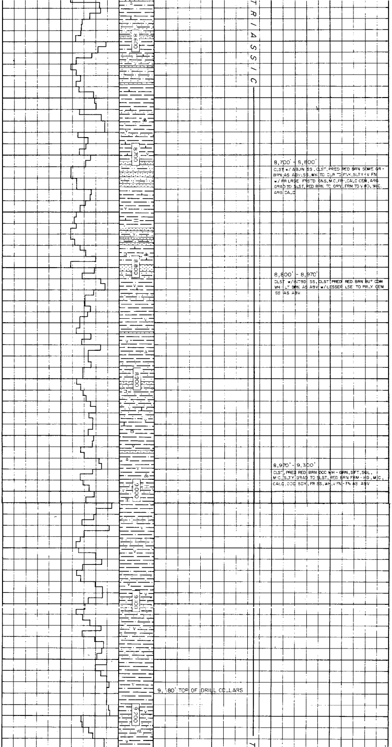
CLST w/INTBDS SS, CLST, PRED RED BRN OCC WH TO LT GRN, w/ ABUN LSE SS AS ABV

8,290' - 8,480'

PRED SS w/INTBD CLST, SS, WH TO CLR TO OCC PNK, V FN - FN BUT OCC V CRS TO CONGL, GEN LSE BUT COMP TO FAIR CEM, SL CALC, SBANG TO WELL RND; CLST, WH TO LT GRN TO RED BRN AS ABV.

8,480' - 8,700'

CLST w/INTBD SS, CLST, PRED RED BRN, SFT - FRM, SLTY, SL CALC, MIC, w/SS INTBDS AS ABV.



8,700' - 8,800'

CLST w/ ABUN SS, CLST, PRED RED BRN SOME GR-BRN AS ABV; SS, WH TO CLR TO PNK, SLTY + V FN w/ RR LRGE FRSTD GNS, M.C, FRI, CALC CEM, ARG GRAD TO SLST, RED BRN TO GRN, FRM TO V HD, MIC, ARG, CALC

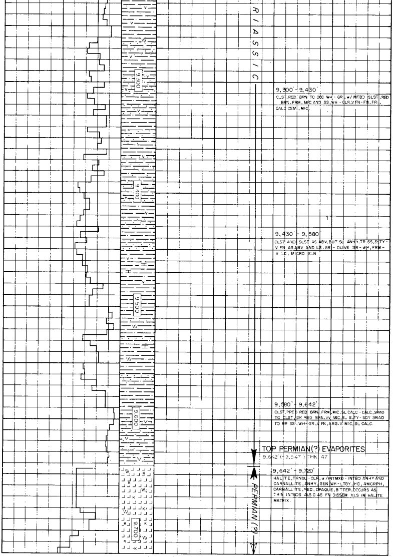
8,800' - 8,970'

CLST w/INTBD SS, CLST, PRED RED BRN BUT COM WH - LT BRN AS ABV w/LESSER LSE TO PRLY CEM SS AS ABV.

8,970' - 9,300'

CLST, PRED RED BRN OCC WH - GRN, SFT, SOL, MIC, SLTY GRAD TO SLST, RED BRN FRM - HD, MIC, CALC, OCC SDY, FR SS, WH, V FN - FN AS ABV

9,180' TOP OF DRILL COLLARS



9,300' - 9,430'
CLST, RED BRN TO OCC WH - GR, w/INTBD SLST, RED BRN, FRM, MIC AND SS, WH - CLR, V FN - FN, FRI, CALC CEM, MIC.

9,430 - 9,580
CLST AND SLST AS ABV, BUT SL ANHY, TR SS, SLTY - V FN AS ABV AND LS, GR - OLIVE GR - WH, FRM - V LD, MICRO XLN

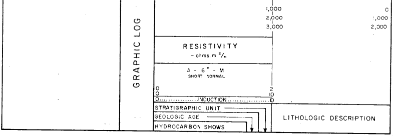
9,580' - 9,642'
CLST, PRED RED BRN, FRM, MIC, SL CALC - CALC, GRAD TO CLST, DK RED BRN, VV MIC, SL SLTY - SDY GRAD TO RR SS, WH - GR, V FN, ARG, V MIC, SL CALC.

TOP PERMIAN(?) EVAPORITES
9,642' (-9,547') THK 47

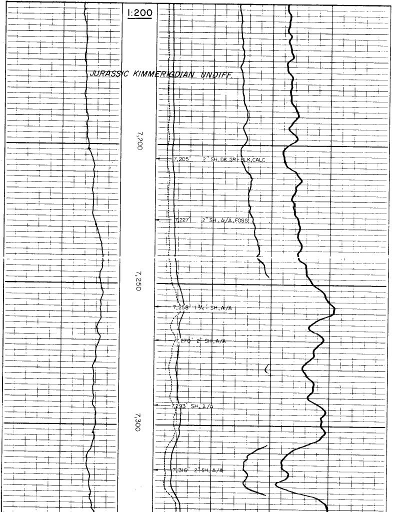
9,642' - 9,720'
HALITE, TRNSL - CLR, w/INTMXD - INTBD ANHY AND CARNALLITE, ANHY, GEN WH - LTGY, HD, AMCRPH, CARNALLITE, RED, OPAQUE, BITTER, OCCURS AS THIN INTBDS ALSO AS FN DISSEM XLS IN HALITE MATRIX.

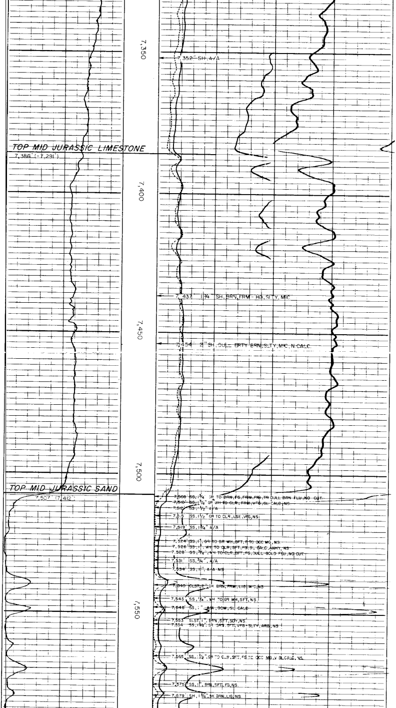
9,720' TOTAL DEPTH
JUNKED AND ABANDONED.
5-19-1968

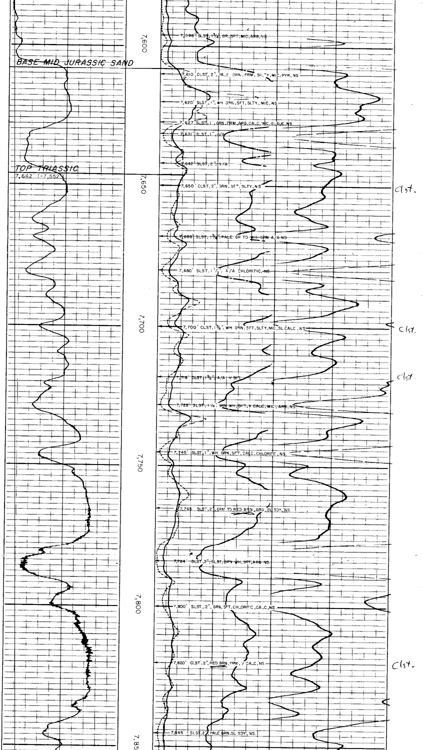
S.P. MILLIVOLTS - 4 +	DEPTH SCALE	CONDUCTIVITY MILLIMHOS — m ^{2}/m = $\frac{1000}{\text{OHMS - m}^2\text{/m}}$
		6 FF 40 INDUCTION

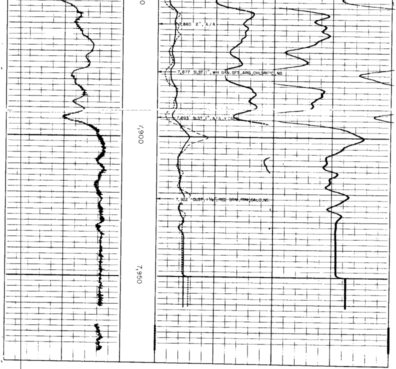


SIDEWALL CORE DESCRIPTIONS









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