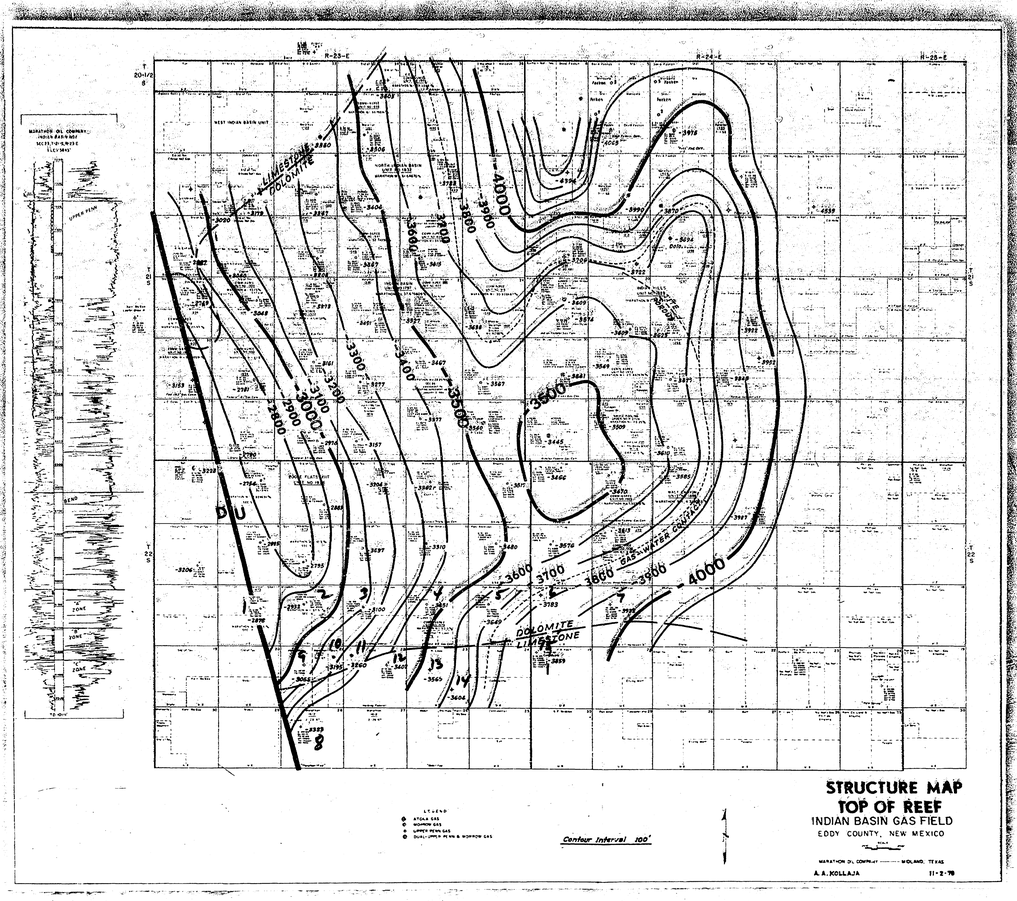
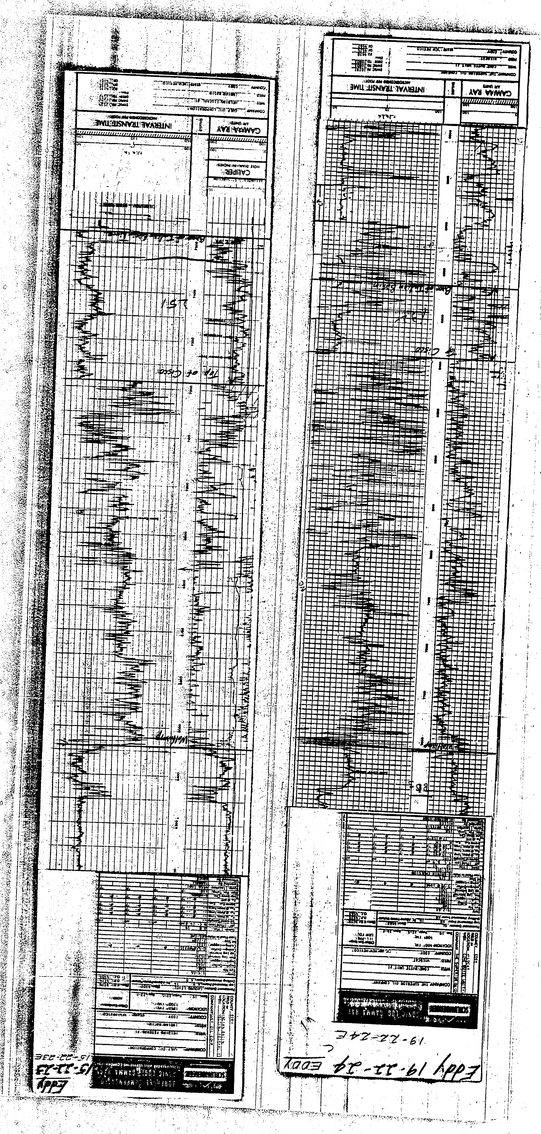
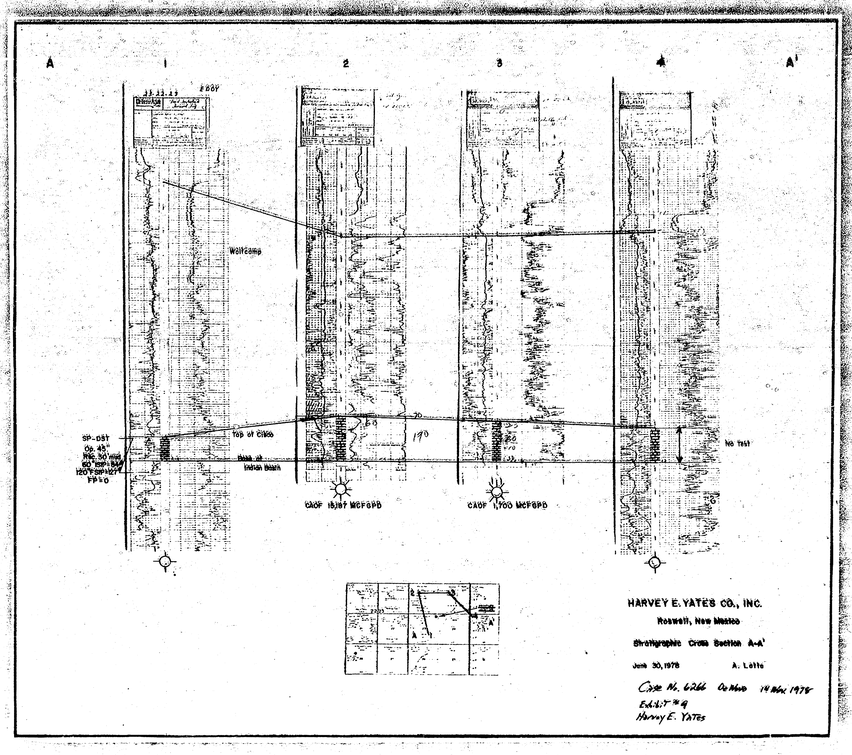
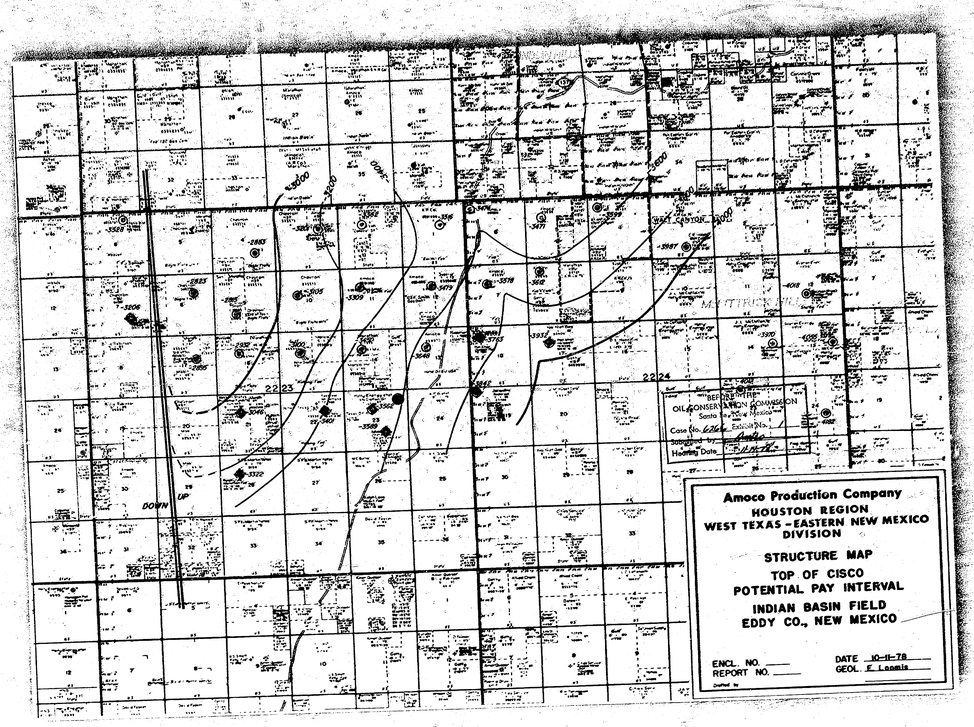
Case No
6266

Large Exhibits


R-23-E
R-24-E
T 20-1/2 S
T 21 S
T 22 S
LIMESTONE
DOLOMITE
4000
3900
3600
3500
3400
3300
3200
3100
3000
2900
2800
3700
3800
DU
WATER CONTACT
DOLOMITE
LIMESTONE
LEGEND
STRUCTURE MAP
TOP OF REEF
INDIAN BASIN GAS FIELD
EDDY COUNTY, NEW MEXICO
Contour Interval 100'
A. A. KOLLAJA
11-2-78


CHASE BAY
INTERVAL TRANSIT TIME
CHASE BAY
INTERVAL TRANSIT TIME
Eddy 19-22-24 EDDY
19-22-24E
Eddy 15-22-23
15-22-23E


A
1
2
3
4
A'
Wolfcamp
SP-GST
Gr API
Res
Sonic
Dens
Neut
FP's
Top of Cisco
Base of Upper Penn
CAOF 18,187 MCFGPD
CAOF 1,700 MCFGPD
No Test
HARVEY E. YATES CO., INC.
Roswell, New Mexico
Stratigraphic Cross Section A-A'
June 30, 1978
A. Lotts
Case No. 6266 Order No. R-5864 Dated 14 Nov. 1978
EXHIBIT #4
Harvey E. YATES

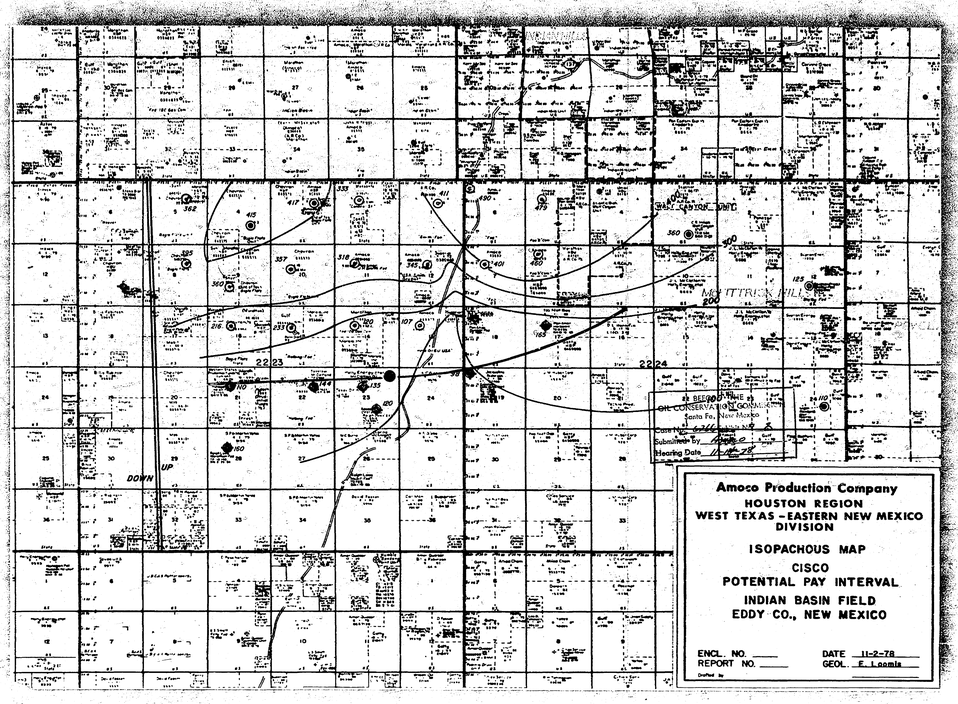


Amoco Production Company
HOUSTON REGION
WEST TEXAS - EASTERN NEW MEXICO
DIVISION

STRUCTURE MAP
TOP OF CISCO
POTENTIAL PAY INTERVAL
INDIAN BASIN FIELD
EDDY CO., NEW MEXICO

ENCL. NO. ____
REPORT NO. ____
DATE 10-11-78
GEOL. F. Loomis
Drafted by

V.R.C.F. MICROGRAPHICS



Amoco Production Company
HOUSTON REGION
WEST TEXAS – EASTERN NEW MEXICO DIVISION

ISOPACHOUS MAP
CISCO
POTENTIAL PAY INTERVAL
INDIAN BASIN FIELD
EDDY CO., NEW MEXICO

ENCL. NO. ____ DATE 11-2-78
REPORT NO. ____ GEOL. E. Loomis
Drafted by



A

1 2 3 4 5

DST 7326-7400', gas @ 550 MCFGPD, Rec 360' HOCM, SIP 2835-2720

DST 7405-7480', GTS 7" @ TSTM, Rec 100' GCM, SIP 2893-2713

DST 7484-7544', pkr failed, GTS 10" @ TSTM, ISIP 2867, FSIP failed

Perf 7332-7419', last flow 200 MCF

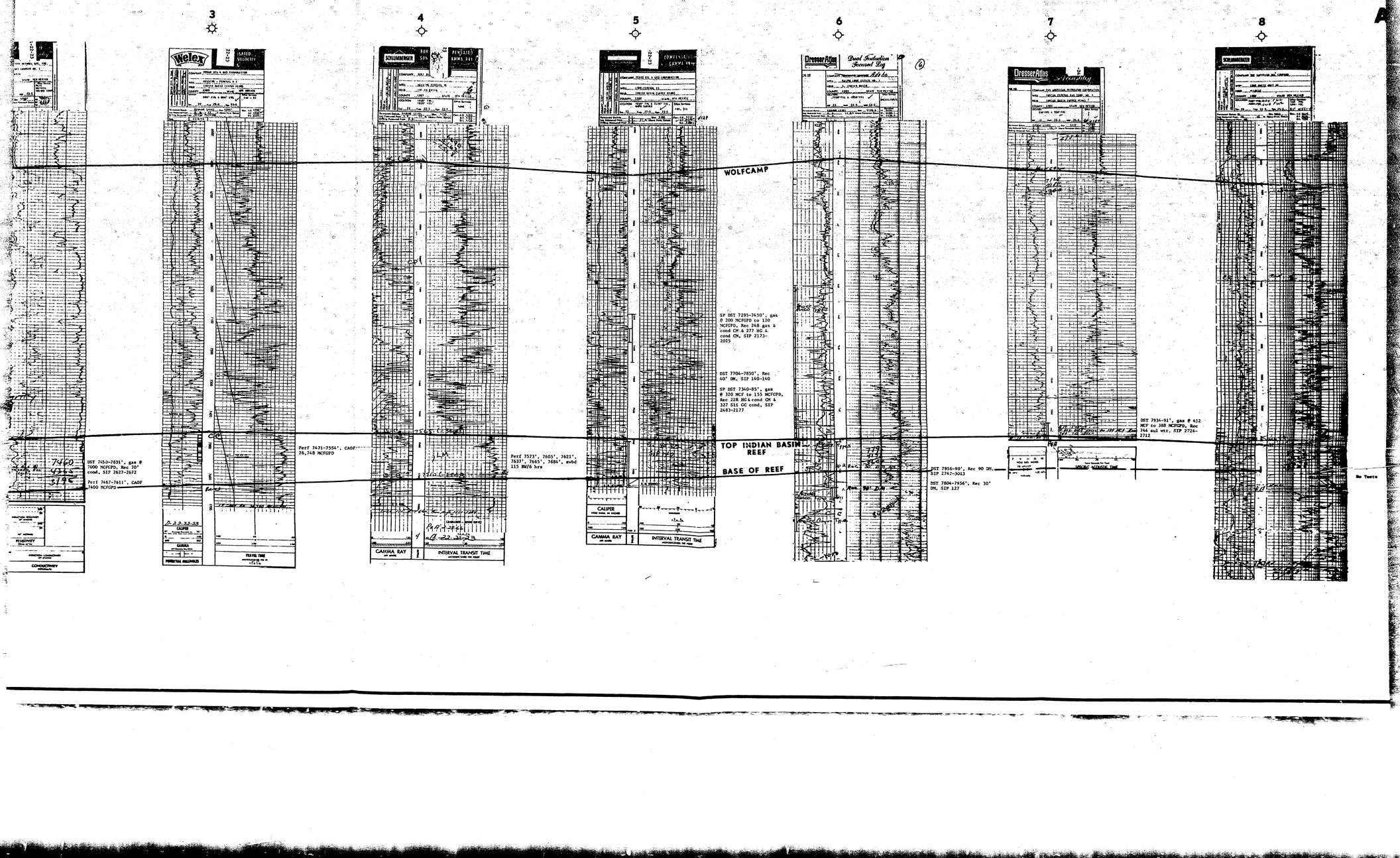
DST 7450-7631', gas @ 7000 MCFGPD, Rec 70' cond, SIP 2627-2672

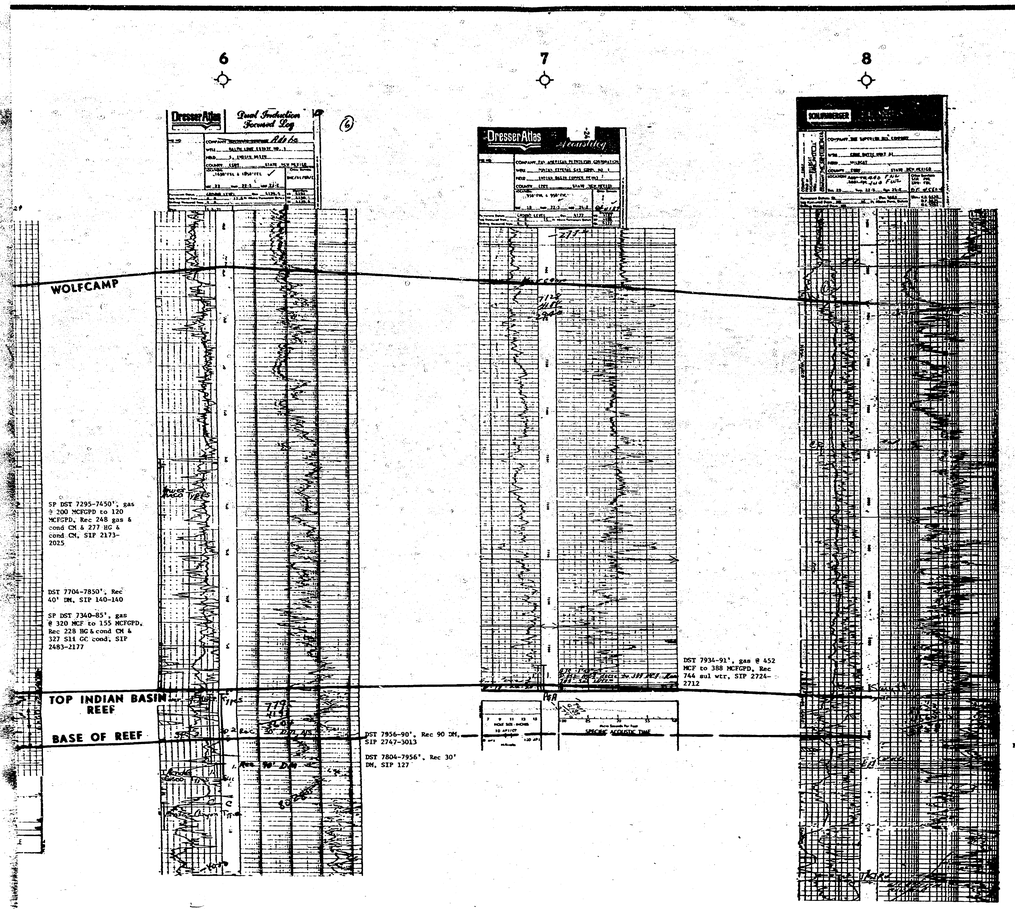
Perf 7457-7611', CAOF 7400 MCFGPD

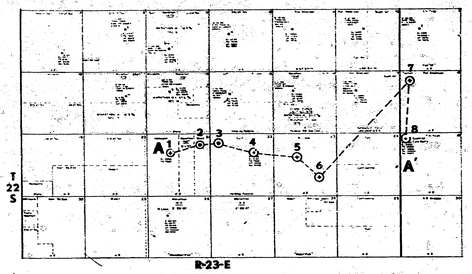
Perf 7471-7554', CAOF 28,748 MCFGPD

Perf 7523', 7605', 7621', 7637', 7665', 7684', swbd 115 BW/6 hrs

V.R.R.C.F. MICROGRAPHICS


3
4
5
6
7
8
WOLFCAMP
TOP INDIAN BASIN REEF
BASE OF REEF
DST 7450-7631', gas @ 7000 MCFGPD, Rec 70' cond, SIP 2627-2672
Perf 7467-7611', CAOF 7400 MCFGPD
Perf 7471-7554', CAOF 26,748 MCFGPD
Perf 7573', 7605', 7621', 7637', 7665', 7684', swbd 115 BW/6 hrs
SP DST 7295-7450', gas @ 200 MCFGPD to 120 MCFGPD, Rec 248 gas & cond CM & 277 HG & cond CM, SIP 2173-2025
DST 7704-7850', Rec 40' DM, SIP 140-140
SP DST 7340-85', gas @ 320 MCF to 155 MCFGPD, Rec 228 HG & cond CM & 327 SII OC cond, SIP 2483-2177
DST 7856-90', Rec 90 DM, SIP 2747-3013
DST 7804-7956', Rec 30' DM, SIP 127
DST 7934-91', gas @ 452 MCF to 388 MCFGPD, Rec 744 sul wtr, SIP 2724-2712
No Tests
RESISTIVITY
CONDUCTIVITY
CALIPER
GAMMA RAY
INTERVAL TRANSIT TIME
SPONTANEOUS POTENTIAL
TRAVEL TIME
DUAL INDUCTION FOCUSED LOG





EDDY COUNTY, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 6266 Exhibit No. 3
Submitted by MARATHON
Hearing Date 11/20/78

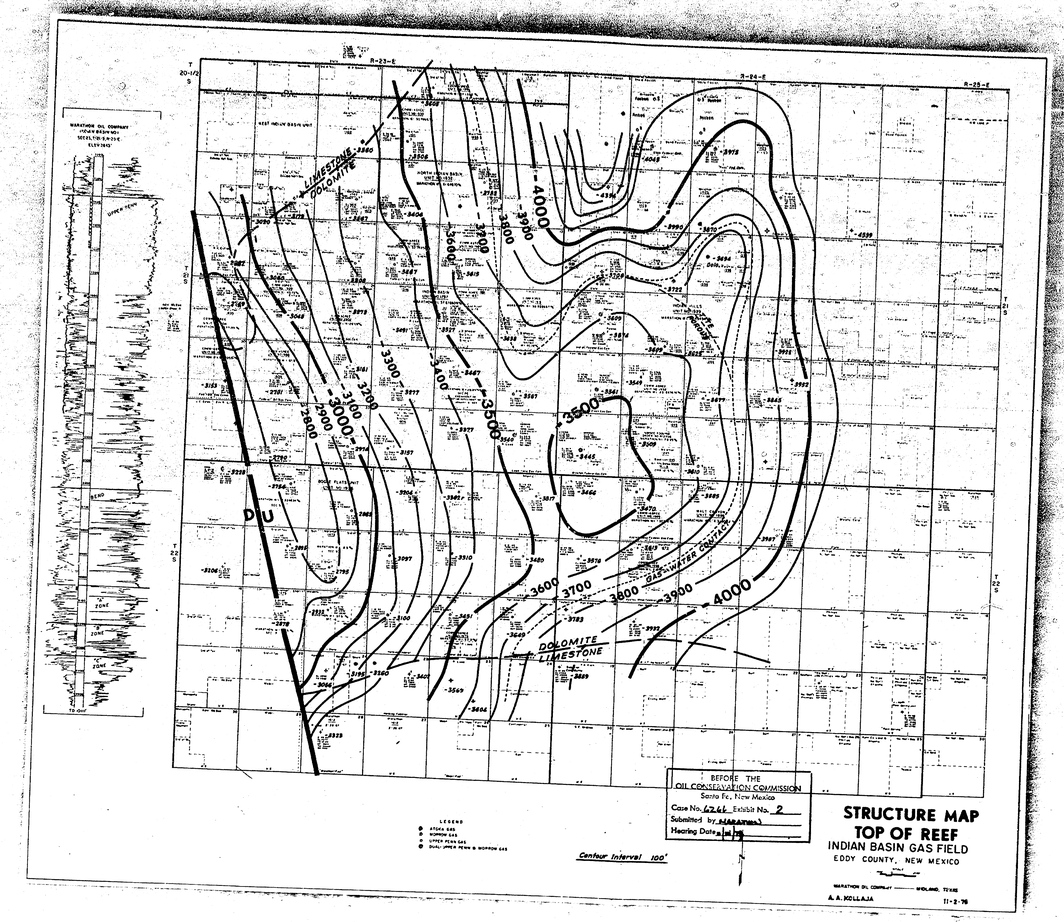
100'
0
NONE

MARATHON OIL COMPANY
HOUSTON DIVISION
MIDLAND DISTRICT

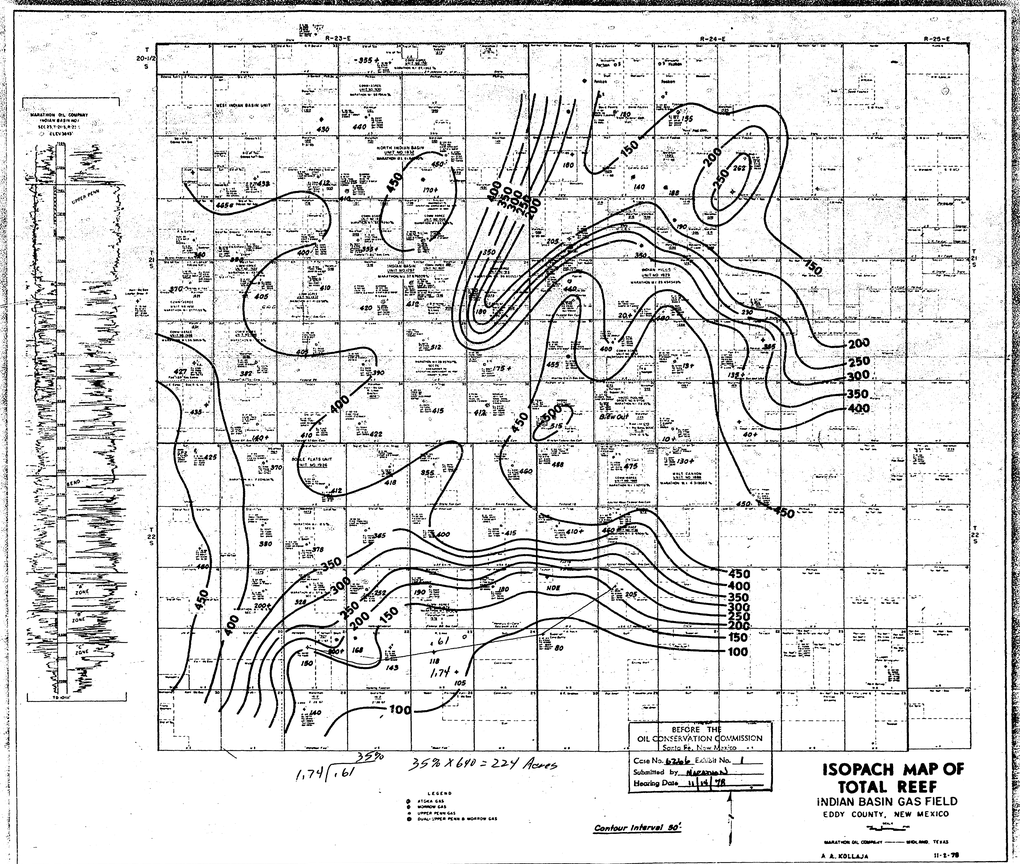
INDIAN BASIN GAS FIELD
EDDY COUNTY, NEW MEXICO
WEST - EAST, CROSS SECTION

BY A.A. KOLLAJA DATE 11-8-78

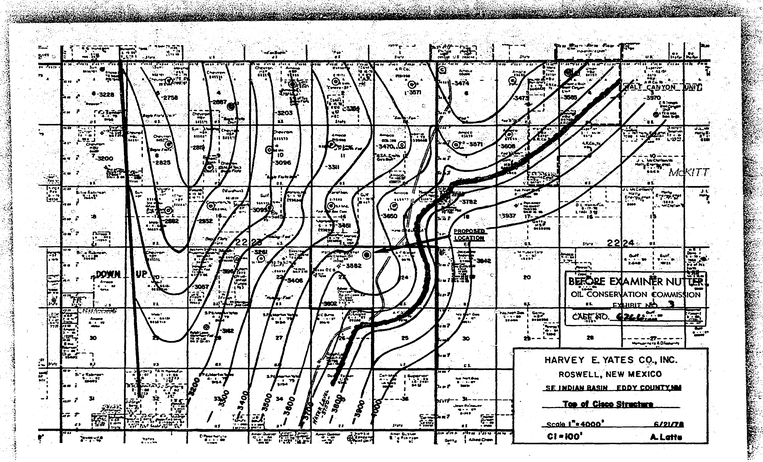
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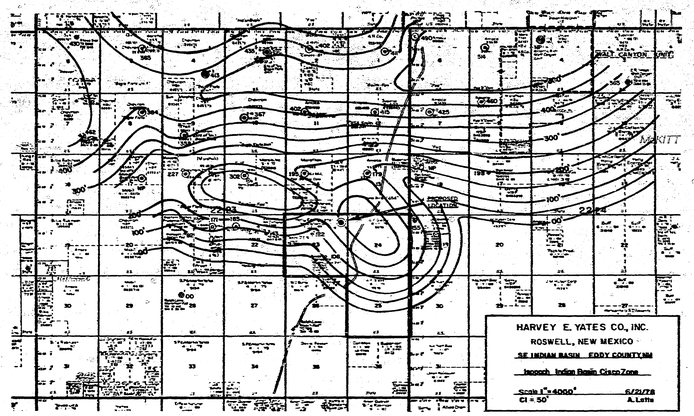
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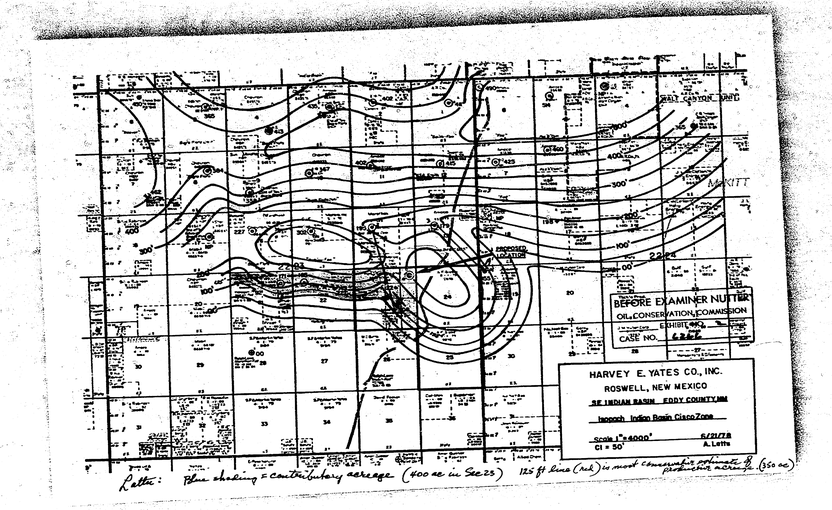


V.E.N.C.P. MICROGRAPHICS

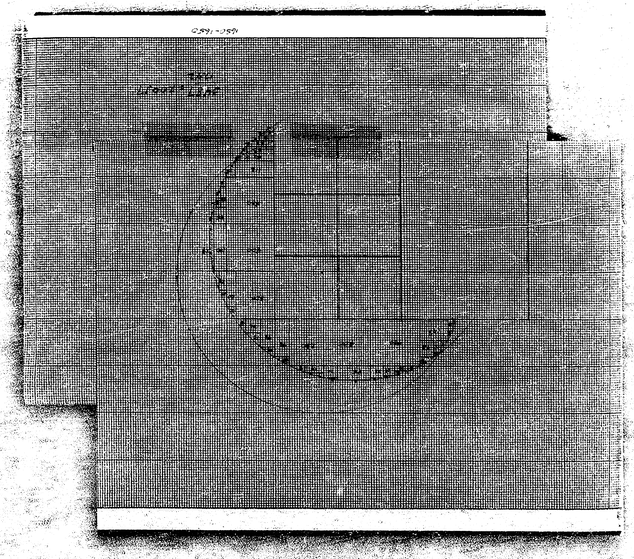


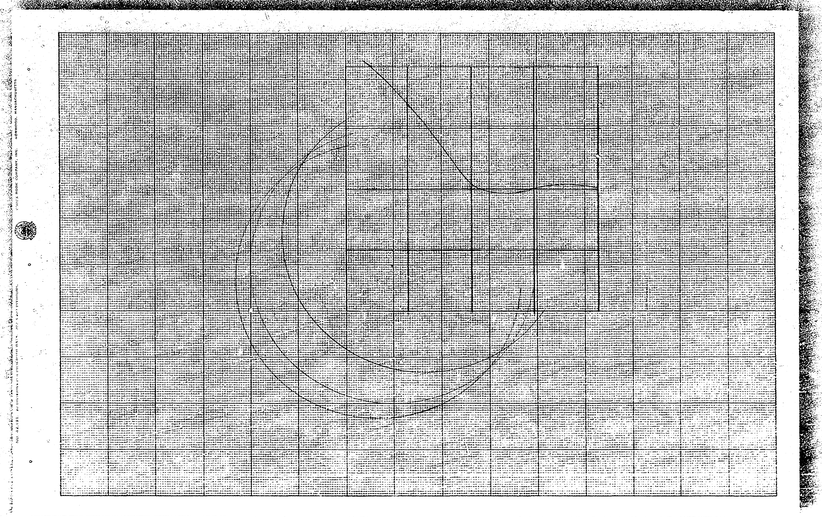
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DENVER, COLORADO 80225

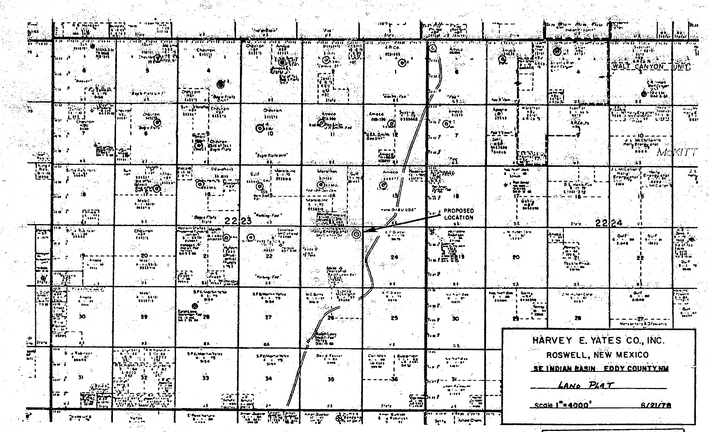

MAXITT
HARVEY E. YATES CO., INC.
ROSWELL, NEW MEXICO
SE INDIAN BASIN EDDY COUNTY NM
Isopach Indian Basin Cisco Zone
Scale 1"=4000'
CI = 50'
6/21/78
A. Latta



Letter: Blue shading = contributory acreage (400 ac in Sec 25) 1125 ft line (ark) is most conservative estimate of drainage acreage (550 ac)

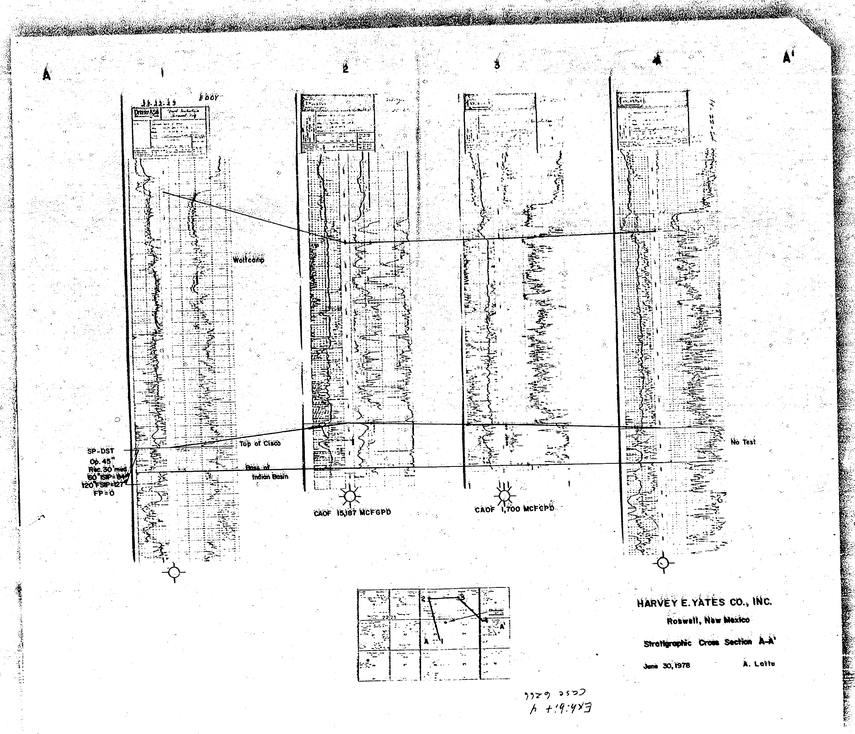






HARVEY E. YATES CO., INC.
ROSWELL, NEW MEXICO
SE INDIAN BASIN EDDY COUNTY, NM
LAND PLAT
SCALE 1"=4000' 6/21/78

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 6266



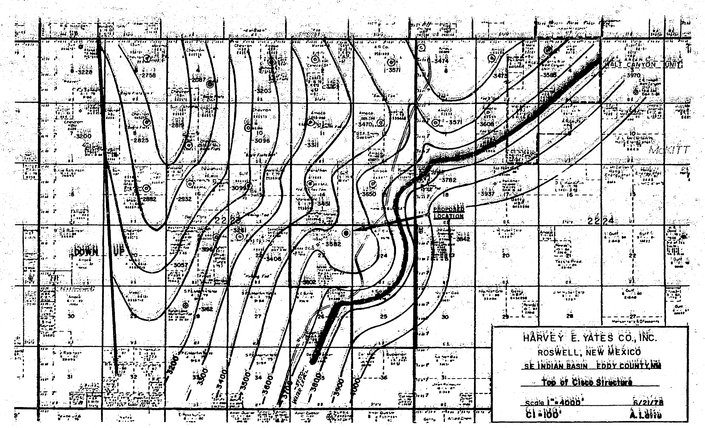
HARVEY E. YATES CO., INC.

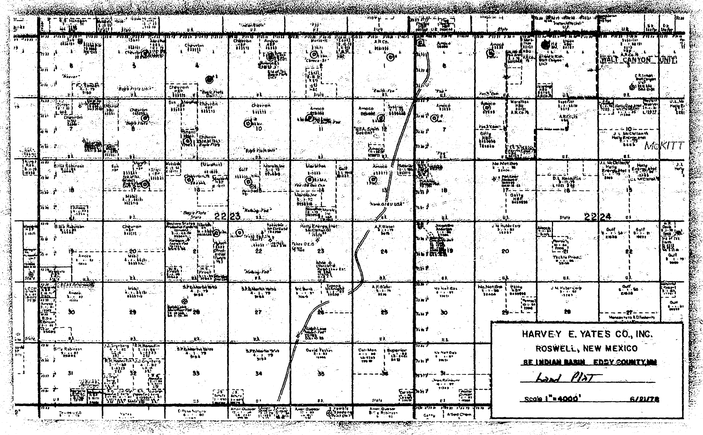
Roswell, New Mexico

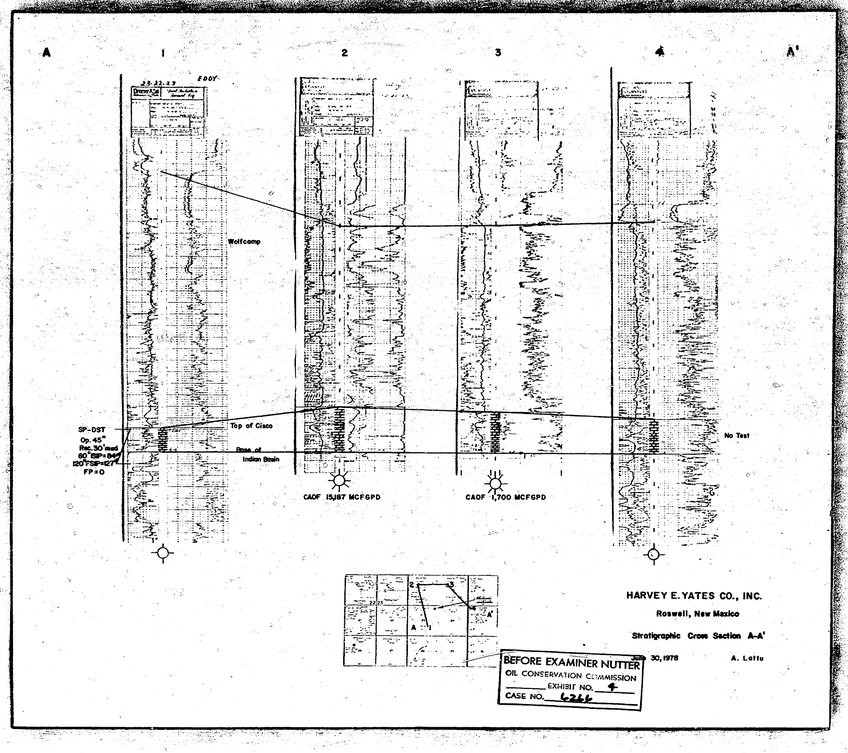
Stratigraphic Cross Section A-A'

June 30, 1978 A. Leite

U.S.G.S. TOPOGRAPHIC


HARVEY E. YATES CO., INC.
ROSWELL, NEW MEXICO
SE INDIAN BASIN EDDY COUNTY, NM
Top of Cisco Structure
Scale 1"=4000'
CI=100'
6/21/78
A. Leiva
DOWN
UP
MARTT
22/24


McKITT
HARVEY E. YATES CO., INC.
ROSWELL, NEW MEXICO
SE INDIAN BASIN EDDY COUNTY, NM
Land Plat
Scale 1"=4000'
6/21/78


A
1
2
3
4
A'
EDDY
Wolfcamp
Top of Cisco
Base of Indian Drain
SP-DST
Op 45"
Rec 30' mud
60' SIP-945
120' SIP-927
FP 1-0
No Test
CAOF 15,987 MCFGPD
CAOF 1,700 MCFGPD
HARVEY E. YATES CO., INC.
Roswell, New Mexico
Stratigraphic Cross Section A-A'
30, 1978
A. Lotto
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 4
CASE NO. 6266

$\frac{400}{640} = 63\%$

$\frac{360}{640} = 55\%$ $\quad \frac{55}{\frac{95}{2}} = 47.5\%$

$\frac{660}{1650} = 40\%$

$\frac{990}{1650} = 60\%$ $\quad \frac{55}{\frac{115}{2}} = 57.5$

$\frac{55}{\frac{195}{2}} = 77.5\%$

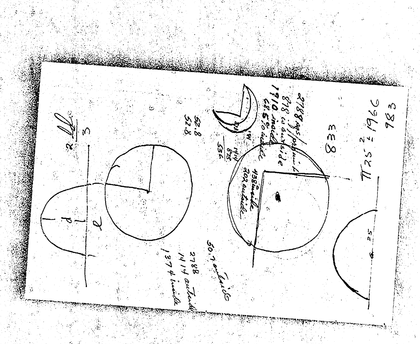
2893 3400

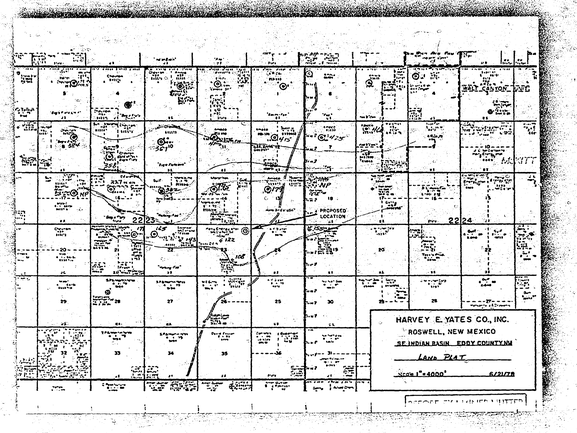
Sam Merrill
NM CB St #2

$A = \pi r^2$

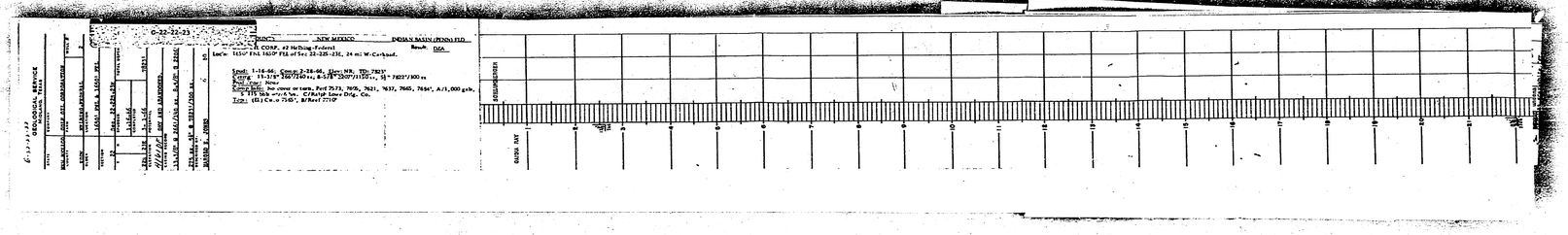
$\frac{2(55)(60)}{3}$



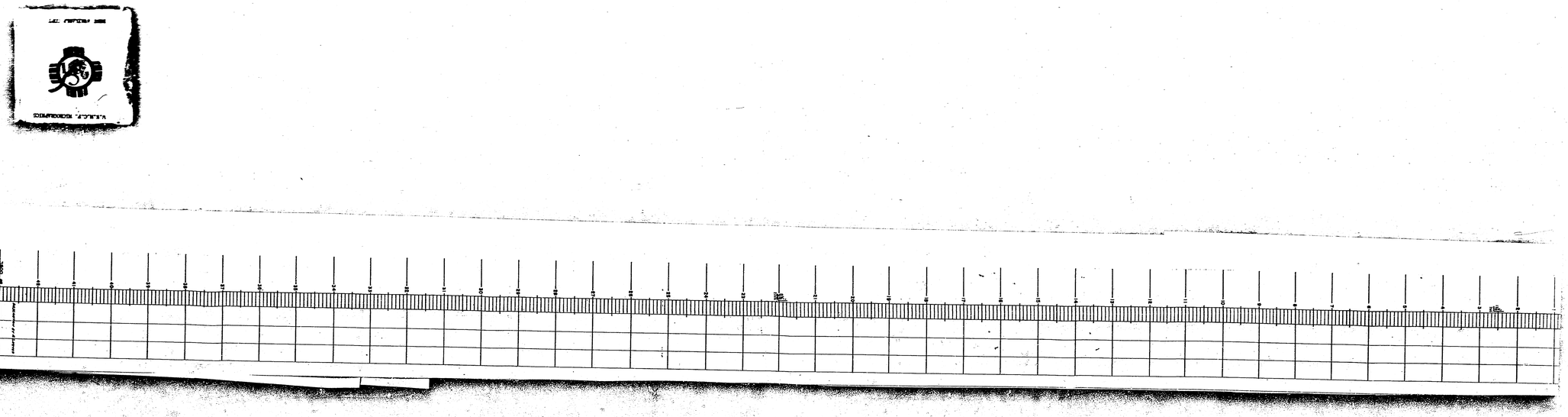


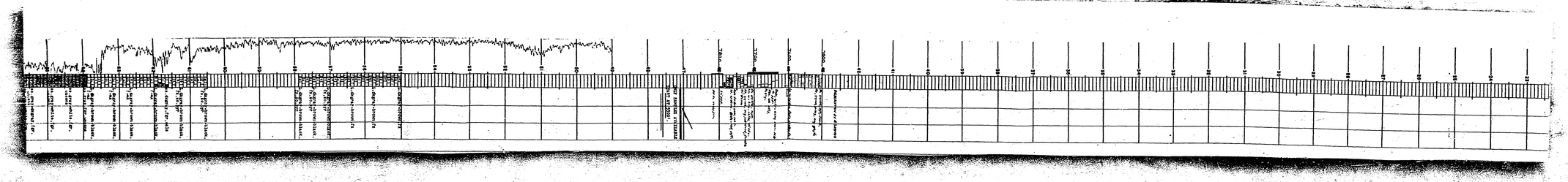


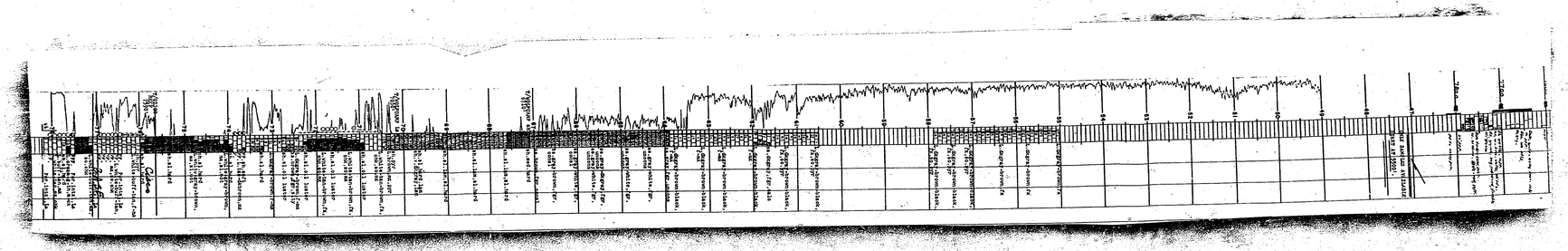
U.S.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

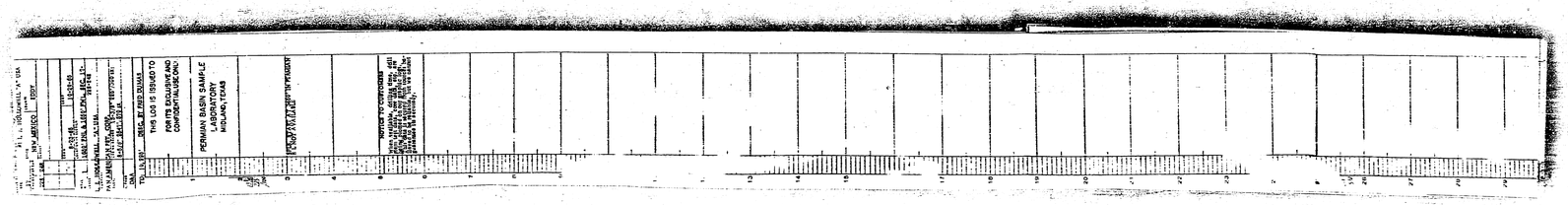

G-22-22-23
NEW MEXICO
INDIAN BASIN (PENN) FLD.
Basin: DIA
Lse.: H.L. COMP., #2 McClung-Federal
Loc.: 1650' FNL 1650' FEL of Sec 23-22S-23E, 24 mi W-Carlsbad.
Spud: 1-14-66, Comp: 2-24-66, Elev: KB, TD: 7937'
Casing: 13-3/8" 360'/340 sx, 8-5/8" 2507'/1100 sx, 5½" 7823'/300 sx
Prod. Zone: None
Remarks: No cores or tests. Perf 7573, 7670, 7621, 7637, 7665, 7654', A/1,000 gals, & 115 bbls wtr/4 hrs. C/Bailp Lower Dvlg. Co.
Tops: (KB/Gr.= 7567', B/Roof 7710'
DATUM BAY
PERMIAN
PENNSYLVANIAN

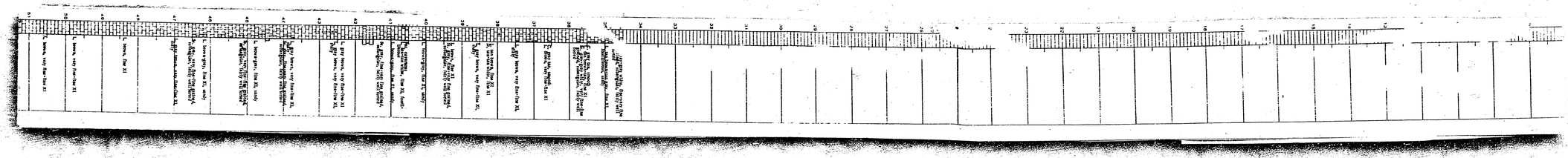

U.S.B.G.S. TOPOGRAPHICS

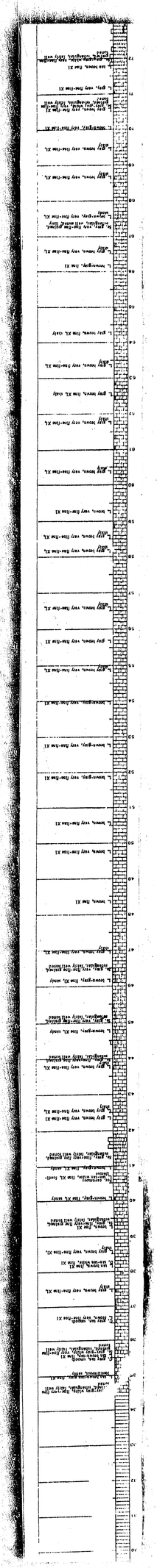


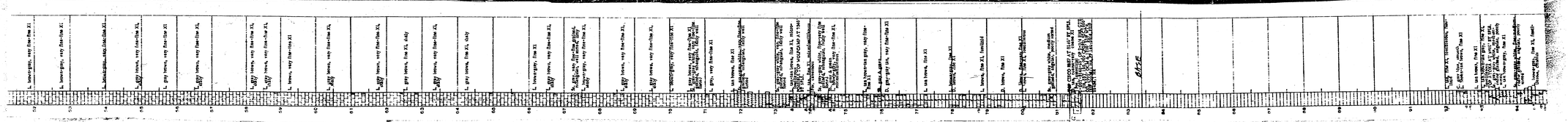




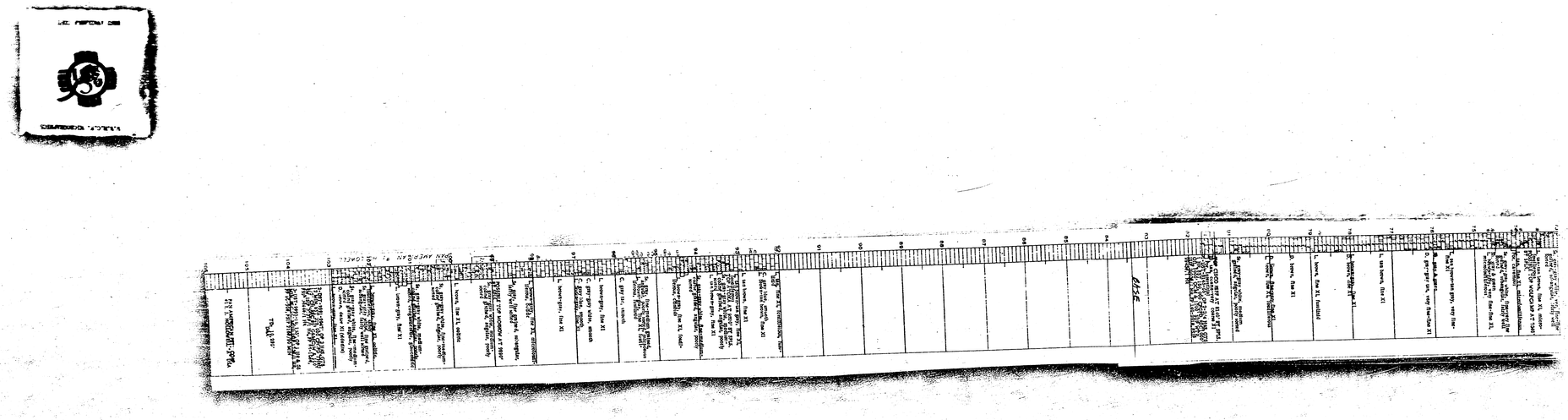

PERMIAN BASIN SAMPLE
LABORATORY
MIDLAND, TEXAS
NOTICE TO CUSTOMERS

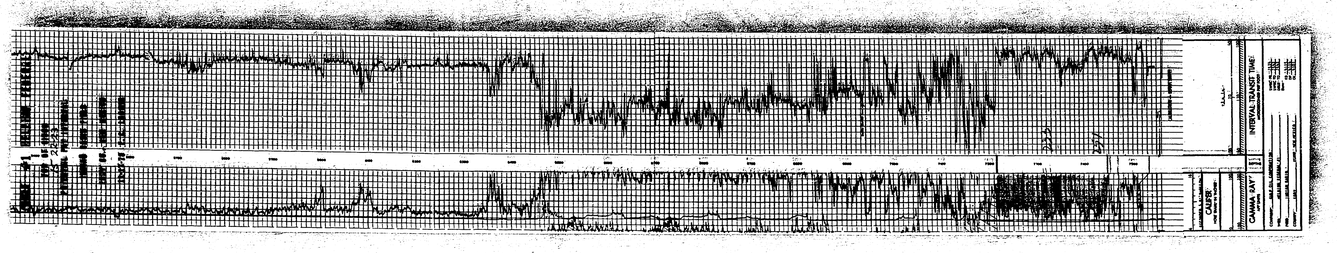


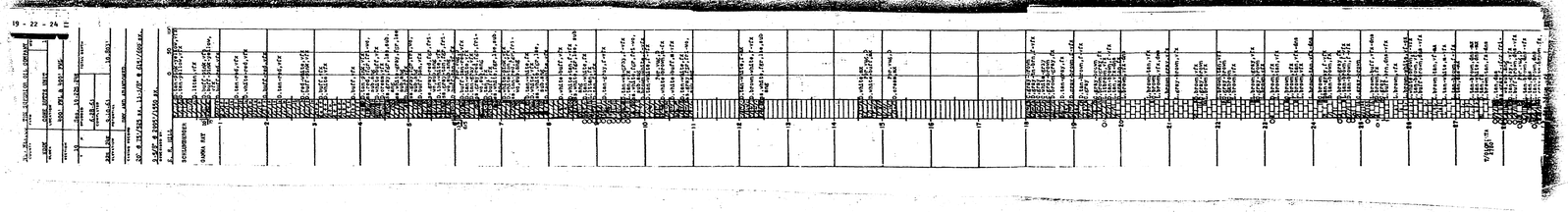


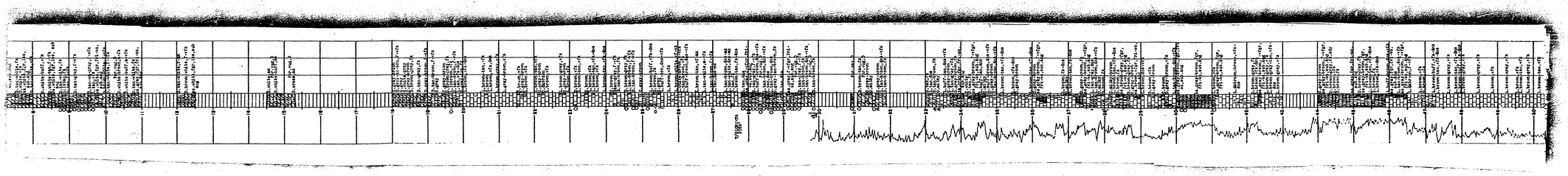


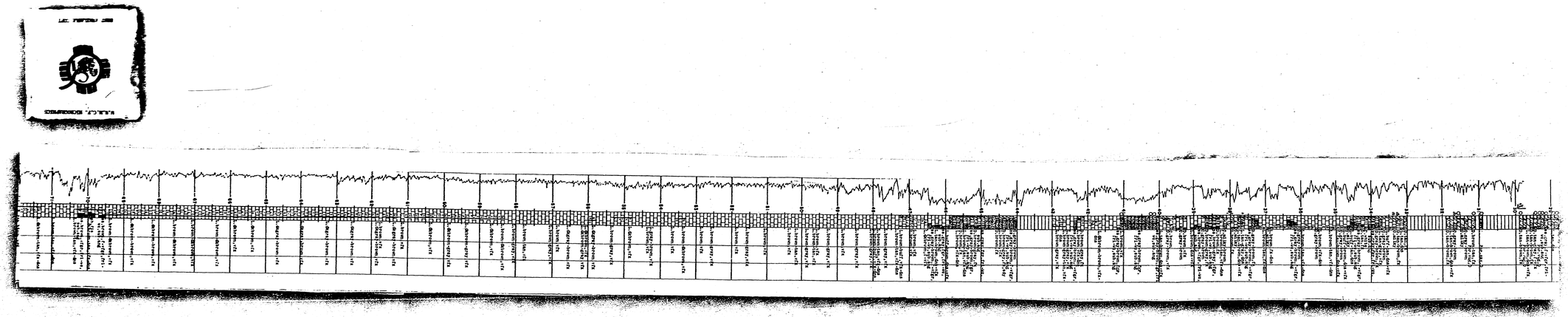

U.S.B.C.F. SCHOOLSPECS

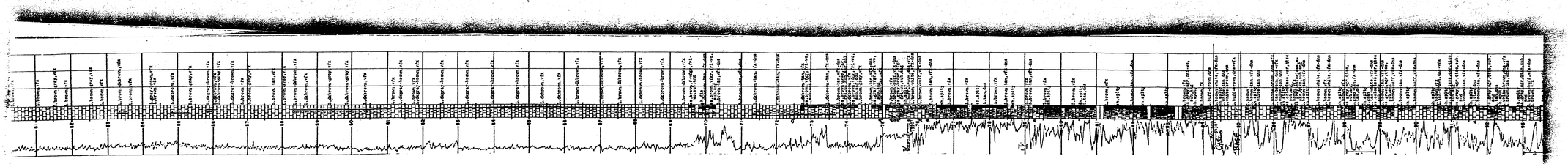




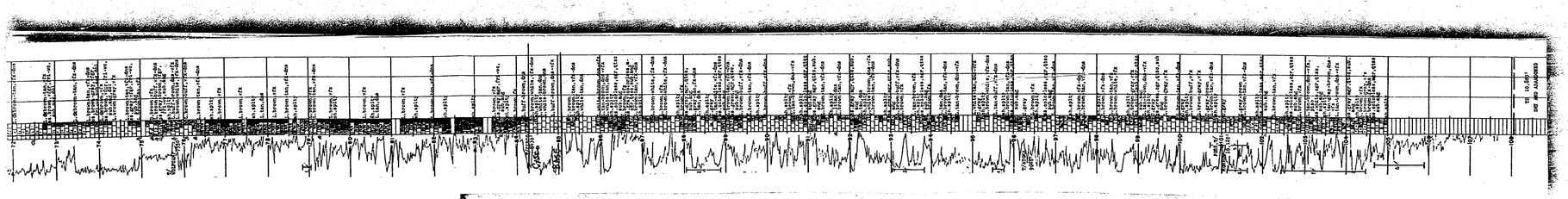








V.E.R.C.F. MICROFILMS




U.E.R.C.V. TECHNOGRAPHICS