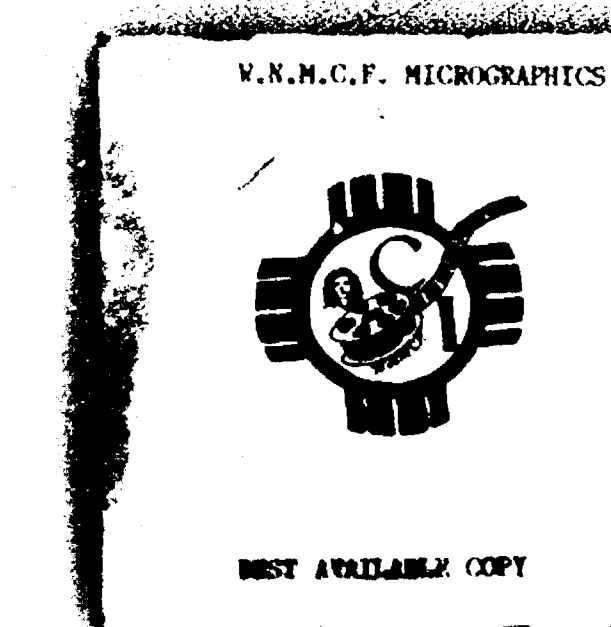
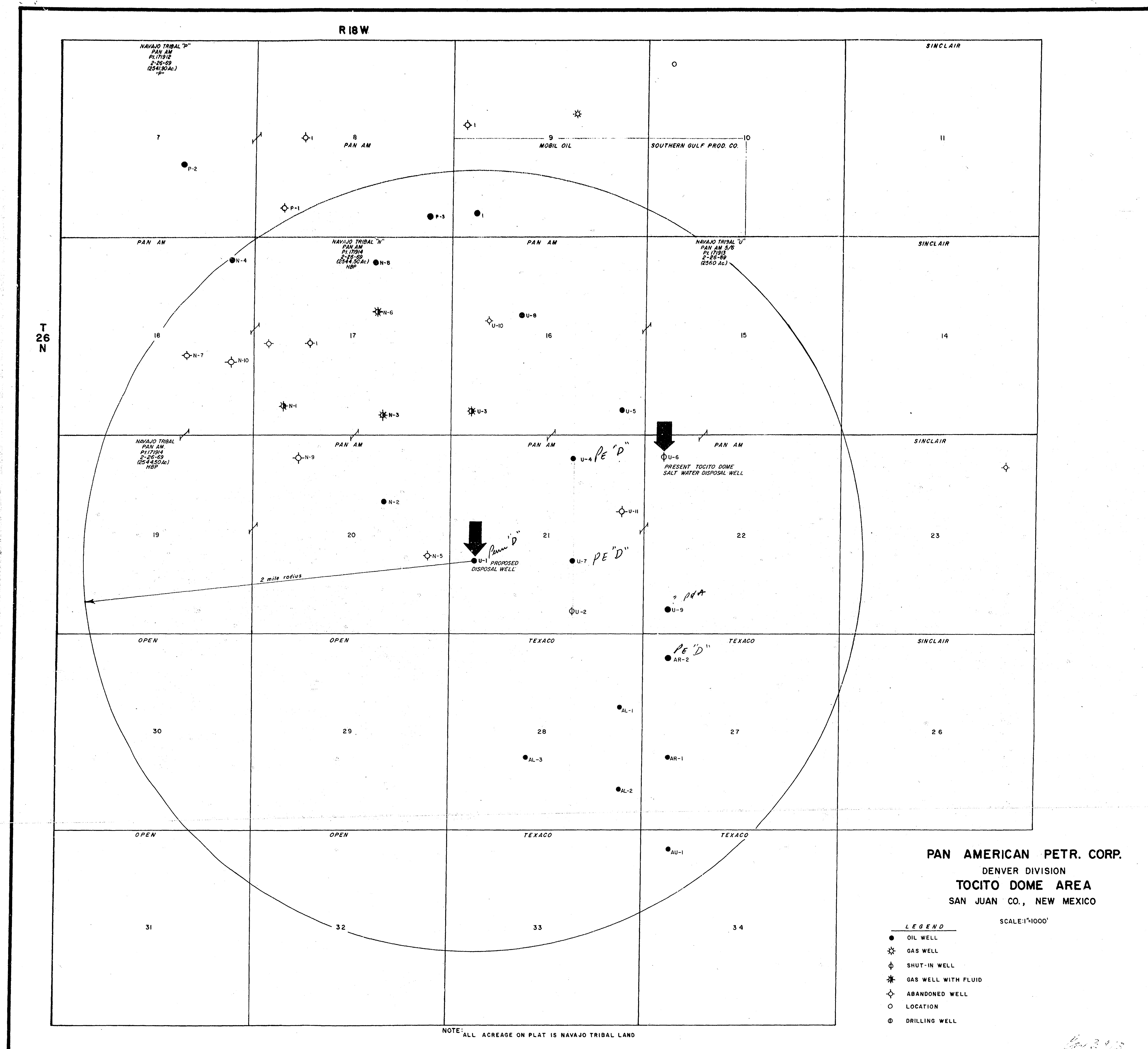


Case No.

3913

Large Exhibits





PAN AMERICAN PETROLEUM CORPORATION
 NAVAJO TRIBAL "D" NO. 1
 TOCITO DOME- PENN "D" FIELD
 SAN JUAN COUNTY, NEW MEXICO

Case 3913

ELEV. GL 5727
 RDB 5740

Calculated top of cement
 (Second Stage)-800'

Casing-tubing annulus
 to be filled with inert
 fluid

2 3/8" tubing (Plastic
 coated internally)

13 3/8" Csg. set at 87' w/100 sacks cement
 (in 17 1/4" hole). Cement circulated
 to surface.

8 5/8" Csg. set at 1510' w/350 sacks cement
 (in 11" hole). Cement circulated to
 surface.

Stage cementing tool set at 3546'.
 Second stage was 500 sacks cement with
 6% gel and 2# Tuf Plug/sack.

Boiler Model "D" Packer set at approx. 6200'.

PENN "D" ZONE 6266'-6280' (Present perf. 6285'-6286').
 Will be re-perf. 6267'-6285'.

RBD 6400
 TO 6440
 4 1/2" Csg. set at 6440' w/100 sacks cement
 (in 7 7/8" hole). First stage was 500 sacks
 cement with 5% gel and 2# Tuf Plug/sack
 followed by 100 sacks neat cement.



Form No. 1-12

AN AMERICAN PETROLEUM CORPORATION
RESEARCH DEPARTMENT
WATER ANALYSIS

Lab. No. 3913

Field: ...
County: ...
State: ...
Date: ...

MEMBER: ...
OPERATION: ...
WELL NO.: ...
FIELD: ...
COUNTY: ...
STATE: ...

LAB. NO.: 24020
REPORT NO.: ...
LOCATION: ...
FORMATION: ...
INTERVAL: ...
SAMPLE FROM: ...
DATE: ...

REMARKS & CONCLUSIONS: ...

Conc'n	mg/l	meq/l	meq/l	meq/l
Calcium	21.49	119.14	1.19	23.88
Sodium	95	4.42	0.04	1579.20
Magnesium	6.07	30.34	0.30	7.70
Iron	1.22	1.08	0.01	0.01
Total Solids	1010.06			1010.06

WATER ANALYSIS PATTERNS

LOGARITHMIC

STANDARD

NOTE: ...

Form No. 1-12

AN AMERICAN PETROLEUM CORPORATION
RESEARCH DEPARTMENT
WATER ANALYSIS

Lab. No. 3913

Field: ...
County: ...
State: ...
Date: ...

MEMBER: ...
OPERATION: ...
WELL NO.: ...
FIELD: ...
COUNTY: ...
STATE: ...

LAB. NO.: 24020
REPORT NO.: ...
LOCATION: ...
FORMATION: ...
INTERVAL: ...
SAMPLE FROM: ...
DATE: ...

REMARKS & CONCLUSIONS: ...

Radicle	Per Cent	Calc'd	Per Cent	Calc'd
Na	33.31	26.766	84.13	1.104
Ca	9.76	4.050	84.99	6.88
Mg	1.58	1.502	89.11	115.08
Fe				
SO ₄	1.06	900	89.88	18.72
CO ₃	60.59	21.000	89.88	1.857
HCO ₃	0	0	89.88	0.09
HS				

PROPERTIES OF REACTION IN PER CENT

PRIMARY SALINITY: ...

SECONDARY SALINITY: ...

CHLORIDE SALINITY: ...

SULPHATE SALINITY: ...

NOTE: ...

Form No. 1-12

AN AMERICAN PETROLEUM CORPORATION
RESEARCH DEPARTMENT
WATER ANALYSIS

Lab. No. 3913

Field: ...
County: ...
State: ...
Date: ...

MEMBER: ...
OPERATION: ...
WELL NO.: ...
FIELD: ...
COUNTY: ...
STATE: ...

LAB. NO.: 24020
REPORT NO.: ...
LOCATION: ...
FORMATION: ...
INTERVAL: ...
SAMPLE FROM: ...
DATE: ...

REMARKS & CONCLUSIONS: ...

Radicle	Per Cent	Calc'd	Per Cent	Calc'd
Na	25.12	26.207	84.13	1.104
Ca	6.91	6.260	84.99	6.88
Mg	1.63	1.420	89.11	115.08
Fe				
SO ₄	89	720	89.88	18.72
CO ₃	61.16	55.000	89.88	1.857
HCO ₃	0	0	89.88	0.09
HS				

PROPERTIES OF REACTION IN PER CENT

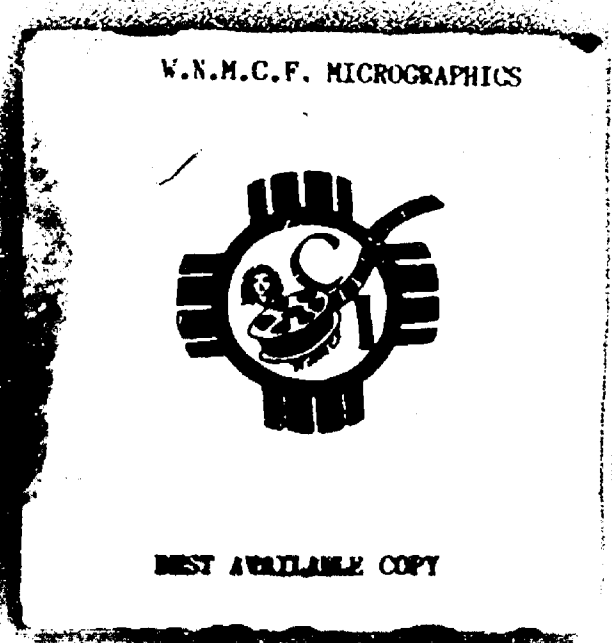
PRIMARY SALINITY: ...

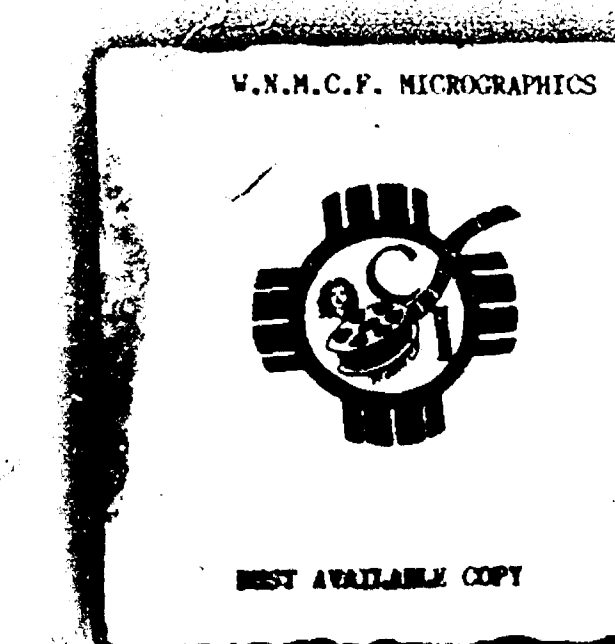
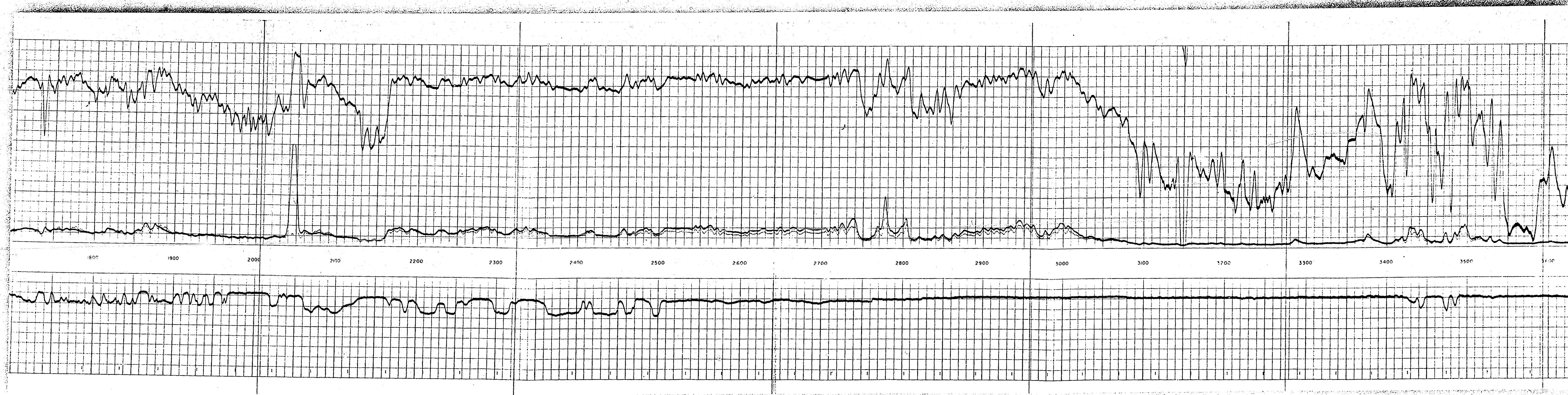
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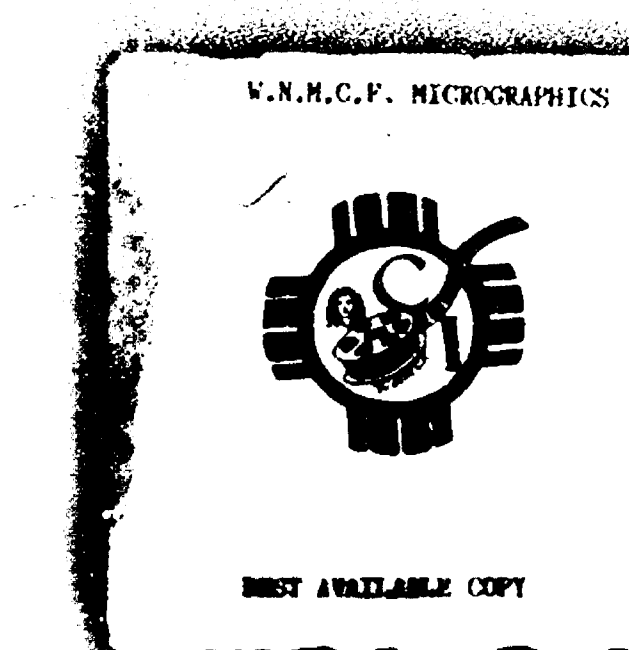
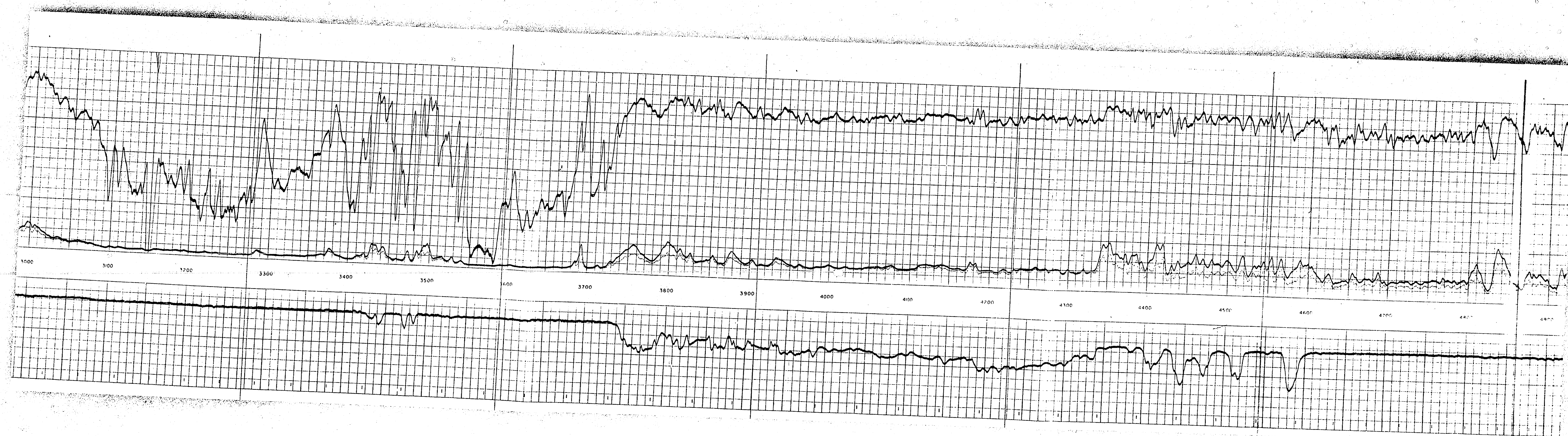
CHLORIDE SALINITY: ...

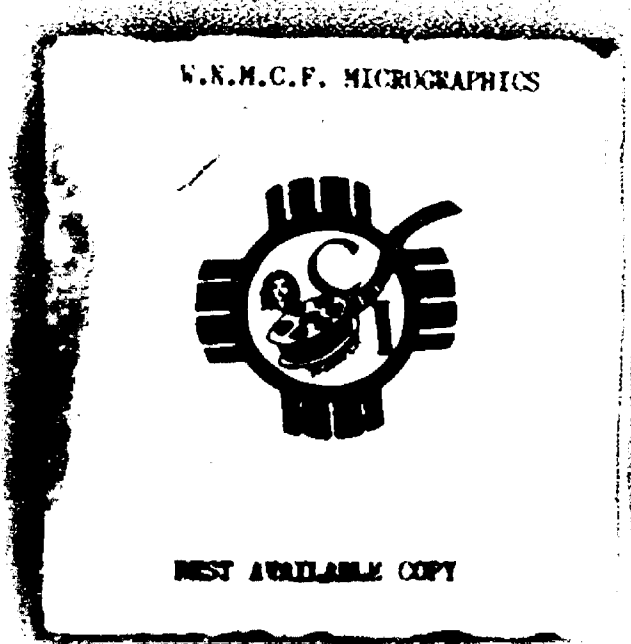
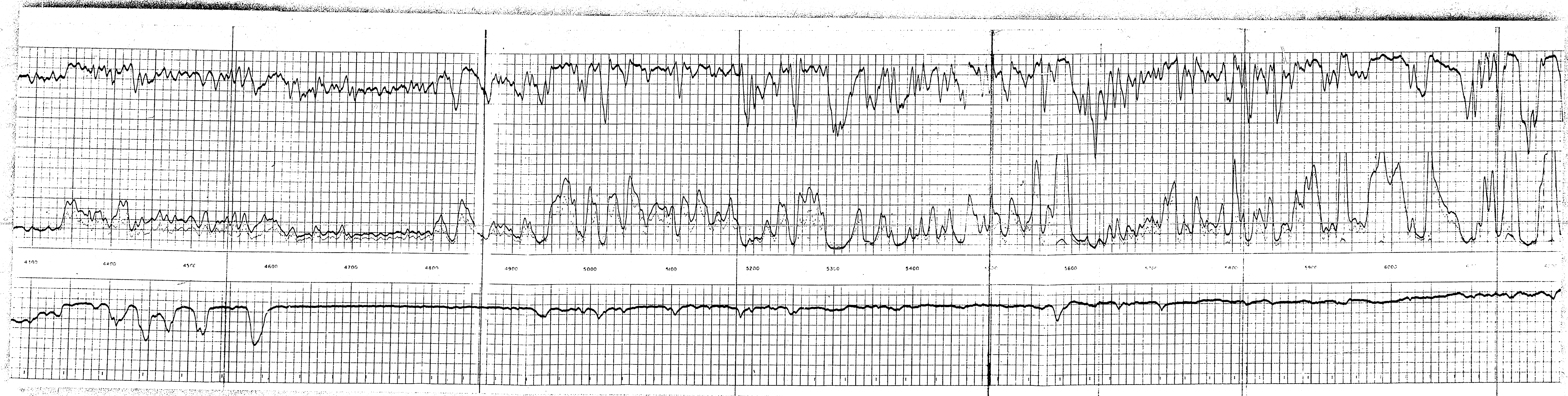
SULPHATE SALINITY: ...

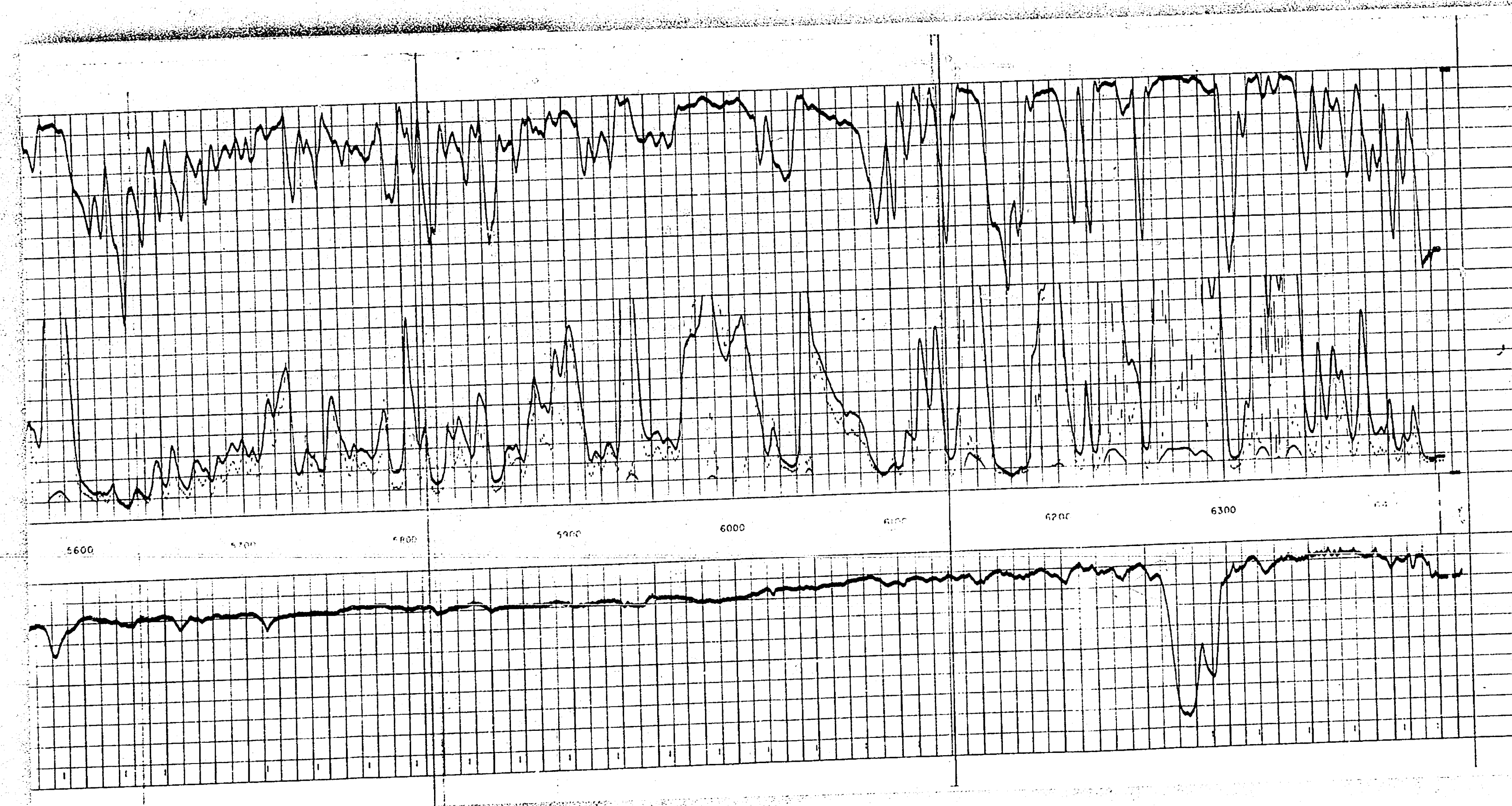
NOTE: ...



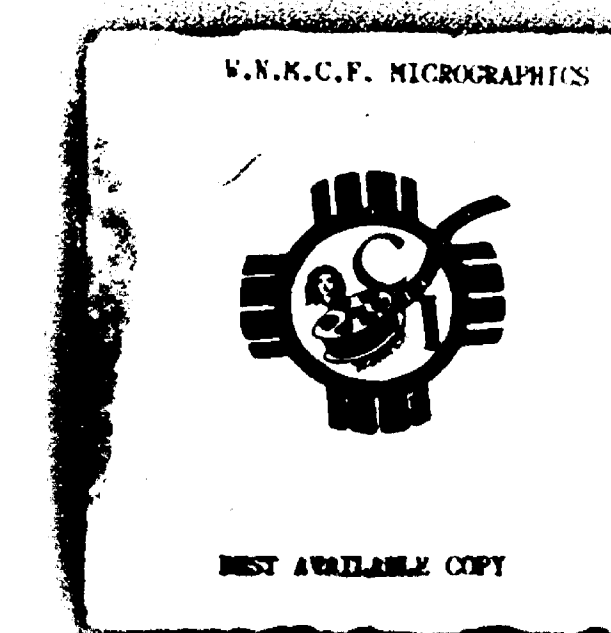


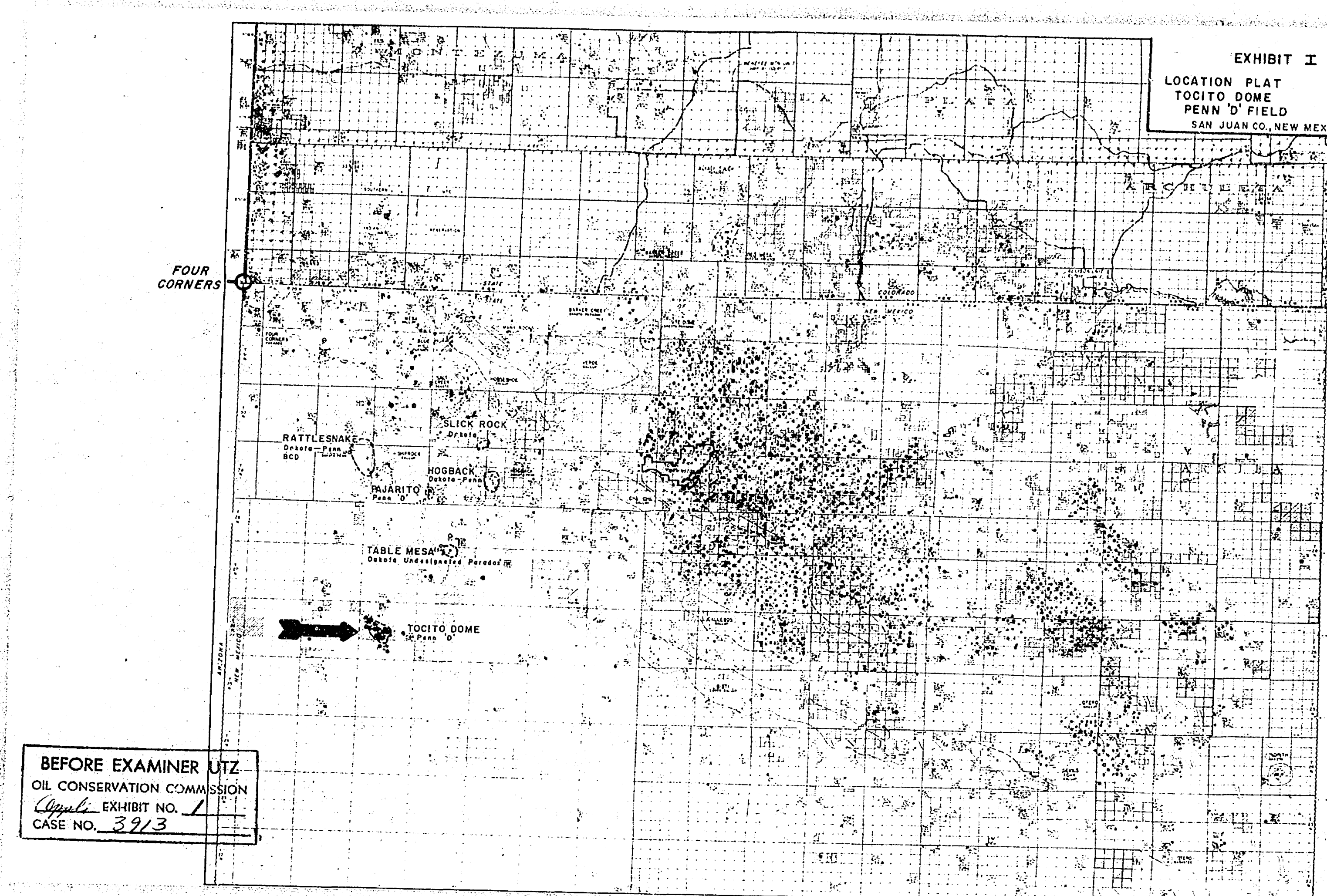




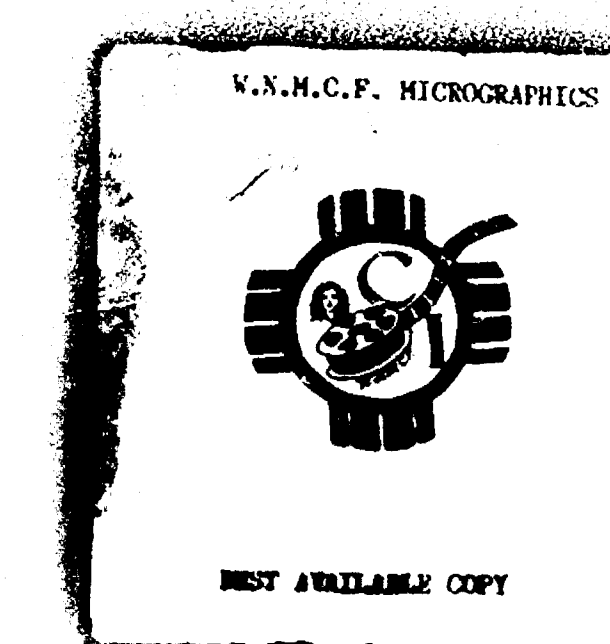
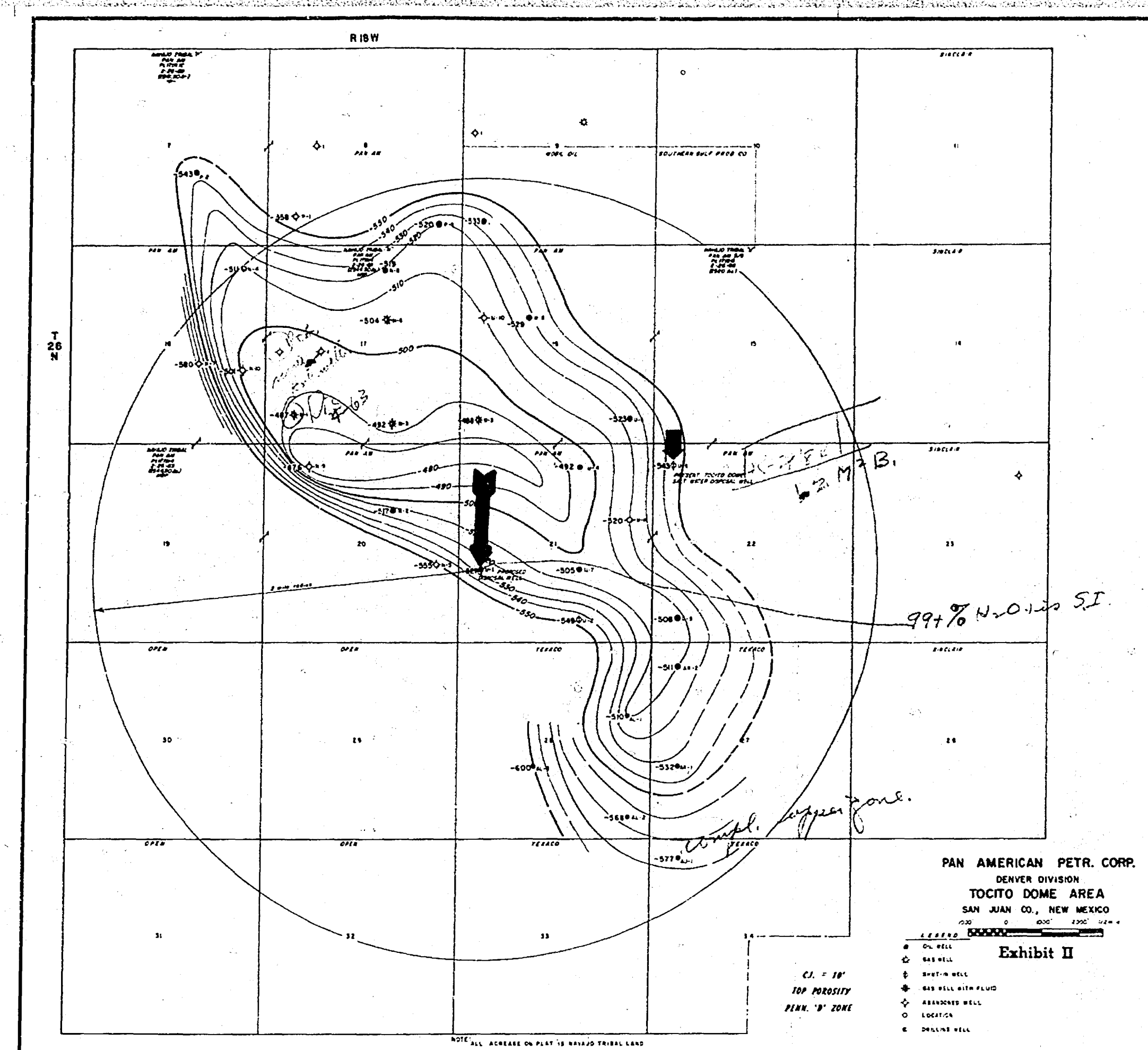


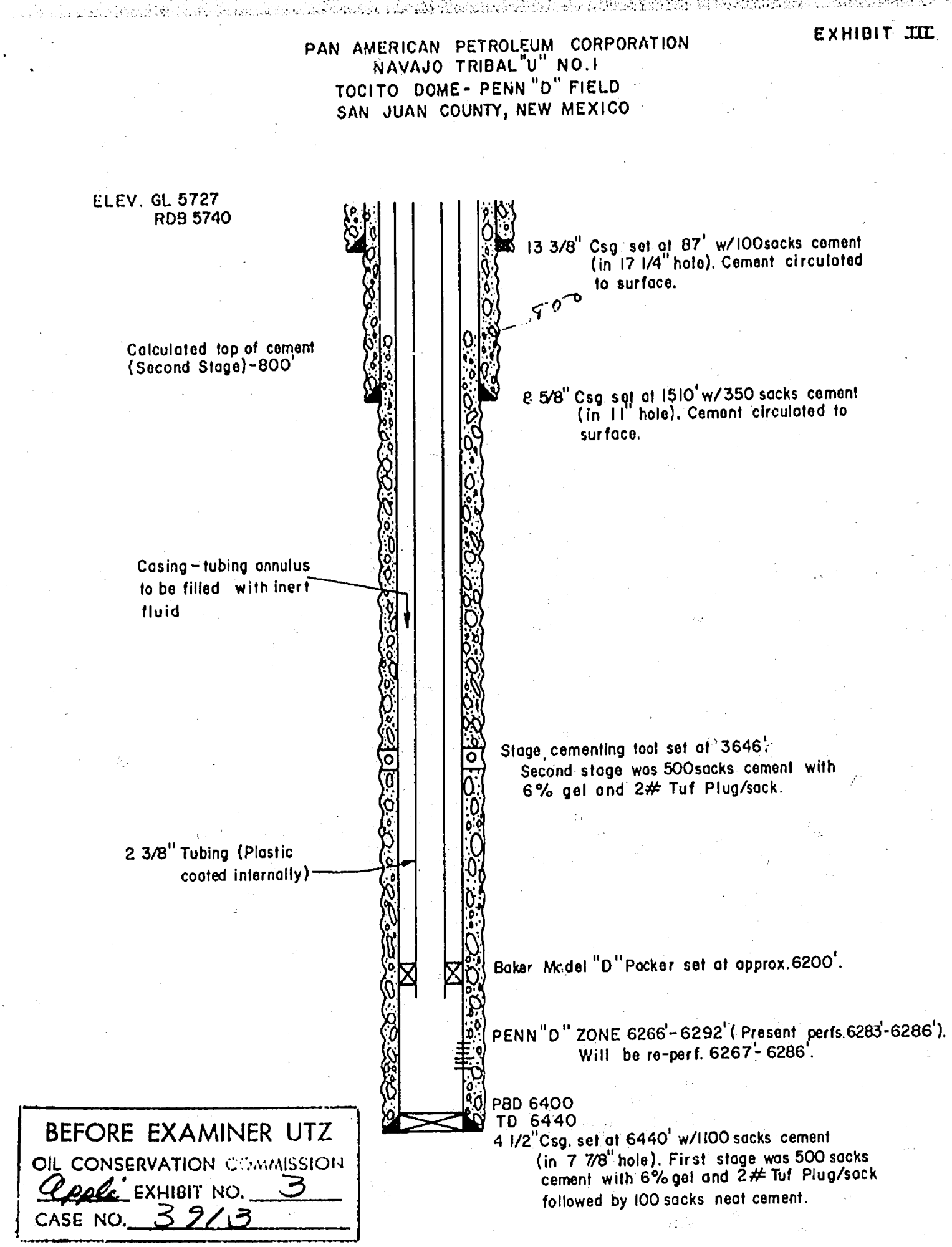
INDUCTION RESISTIVITY mho-ft 16" NORMAL RESISTIVITY ohm-in	INDUCTION CONDUCTIVITY ohm-in	CONDUCTIVITY ohm-in
SPONTANEOUS POTENTIAL mV	DEPTH feet	Company PAN AMERICAN PETROLEUM CORP Well NAME TIGER T-1 Field TIGER T-1 County SAN JUAN State NEW MEXICO





BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Exhibit No. 2
Case No. 393





[illegible]